AXIOMTEK

2020

PRODUCT
Solution Guide



EMBEDDED BOARD & SOM
INDUSTRIAL & EMBEDDED COMPUTER
TOUCH PANEL COMPUTER
Network Appliance

www.axiomtek.com



Table of **Contents**

Overview

About Axiomtek 3
Product Design 4
Strength and Services 5
Strategic Business Focus 7
Global Website 8

Product Highlights

New Product Highlights 9

Solution Zone

IT/OT Cybersecurity Convergence 21
Smart City Solutions 23
Intelligent Transportation Solutions 25
Smart Medical Solutions 27
Machine Vision & Data Acquisition Solutions 29
AI at the Edge Solutions 31
Warehouse Logistics Solutions 33

Boards and Modules

System on Modules 40
3.5" Embedded Boards 52
Pico-ITX SBCs 59
Mini-ITX Motherboards 68
ATX & Micro ATX Motherboards 76
Slot CPU Cards 91
ARM-based Embedded Boards 99
Smart Display Modules 105
PCI Express Cards 110

Systems and Platforms

Embedded Systems 122
Edge AI Systems 153
Transportation Embedded Systems & Switch 159
DIN-rail Embedded Systems 193
Embedded MicroBoxes 231
Industrial Systems 237
Machine Vision Systems 253
Industrial Chassis 265
Digital Signage Players 279

Industrial Panel PCs

Fanless Touch Panel Computers 297
Heavy-duty Fanless Touch Panel Computers 313
Stainless Touch Panel Computers 325
Transportation Touch Panel Computers & Monitors 341
Industrial Touch Panel Computers 357
Industrial Touch Monitors 369
Medical Panel Computers 381
Open Frame Panel Computer 395

Network Appliances

SMB Network Appliances 402
SOHO Network Appliances 416
DIN-rail Network Appliances 426



About **Axiomtek**

Empowering IoT Innovation

Over the past 30 years, Axiomtek has been among the major design and manufacturing companies in the field of industrial computers and embedded systems. Since its establishment, Axiomtek has successfully gained worldwide recognition for our innovative designs and outstanding customer satisfaction. As a valuable & reliable industrial manufacturer, Axiomtek is devoted to producing state-of-the-art solutions that support users in achieving success. Axiomtek takes pride and ownership in what we do through our commitment to excellence.

Vision

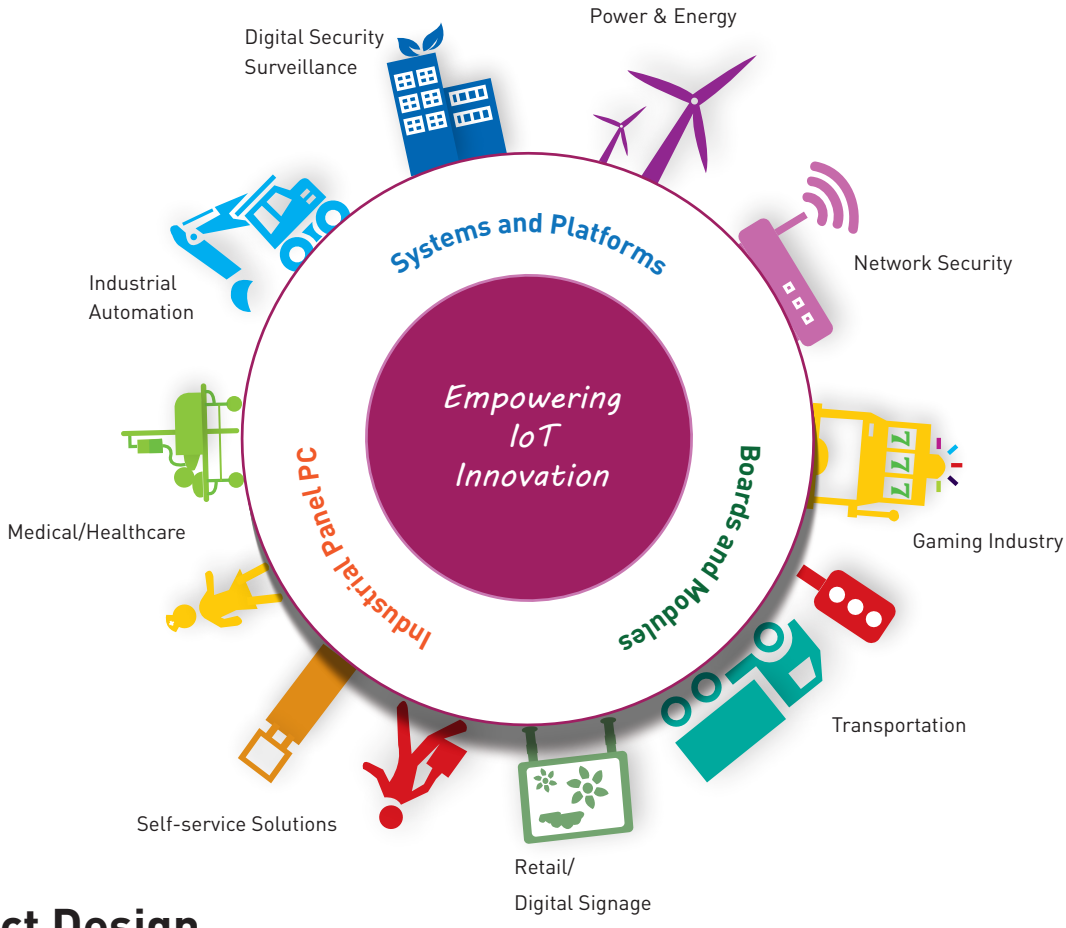
To be atop of the embedded computer industry, recognized by our partners as a trusted source of reliable products and dependable services

Mission

To empower IoT innovation with reliable products and trusted services

Value Systems

Passion: We are passionate about our vision, our goals and our commitment to serve our employees and customers.
Integrity: We earn your trust through honest and ethical business practice.
Innovation: Our focus is on developing new products using the most advanced technologies and customer-based experiences.
Partnership: We commit to long-term mutual success with customers, employees and stakeholders.
Leadership: Our goal is always to be the leader in our targeted markets.
Diversity: We strive to diversify our products and services to serve specific industry needs.



Product Design

Boards and Modules

- Leading technology and comprehensive form factors
- Fast design-in services, time-to-market
- Custom BIOS services and flexible I/O modules supported
- Wide range temperature design capability for heavy-duty applications
- Quick turnaround time for ID/ME and working sample design
- Supporting Intel® Smart Display Module (Intel® SDM) for retail sector

Industrial Panel PCs

- Design for human machine interface, medical, kiosk, etc.
- EN 50155/EN 50121-4 certificate for rolling-stock and railway management
- Value-added systems with remote and local diagnostic functions
- Peripherals integration for medical, kiosk, POS and security applications
- Specific environmental design capability with certification upon request

Systems and Platforms

- Heavy-duty design capabilities: extended temperature, fanless operation, anti-dust/water, anti-vibration, EMS and ESD
- Professional certified compliance and industrial standards
- Embedded OS and API capabilities to value-added custom systems
- IEC 61850/IEEE 1613 certificate for power grid and substations
- Intel® OPS and Intel OPS+ signage player for retail applications
- EN 50155/EN 50121-4/EN 45545 certificate for rolling-stock and railway management
- E-Mark and ISO 7637 for in-vehicle applications
- IEC 60945/DNV 2.4 certificate for marine
- EtherCAT master controller for factory automation
- Intelligent remote management solution for IIoT (AXView)



Strength and Services

Manufacturing Capacity

Over 8,000 square meters of factory space, along with the latest manufacturing equipment gives us the capacity to fully serve OEM/ODM businesses and while achieving high quality prompt deliveries at low cost. Our manufacturing site is equipped with the most advanced SMT assembly lines and optical inspection systems utilizing the lead-free technology. Being ISO 9001, ISO 45001, ISO 14001, ISO 13485 and UL certified factory has also been engaged in manufacturing high density single-sided, double-sided, and multi-layer boards (up to 12 layers). With manufacturing facility and logistic centers in Taiwan, USA and China. Axiomtek is well positioned to meet the demanding business needs so as to ensure business success of Solution Integrators anywhere and anytime.









Vertical Market Focus

Axiomtek's products are widely used in vertical markets such as gaming, automation, transportation, self-service, networking security, healthcare, digital video surveillance, power utility and digital signage applications. Axiomtek provides complete Embedded Board & SoMs, Industrial & Embedded Computers, Touch Panel Computers and all competitively priced solutions offered to system integrators, distributors, VAR's, and resellers. Axiomtek will also continue to emphasize the value of our selling partners and customers, and will maintain strong vertical market knowledge to develop and provide more efficient OEM/ODM programs.

eRMA Service

Axiomtek's online eRMA service allows customers to access the most up-to-date information on repairs and also print test reports directly. All RMA tracking information is also conveniently available to view online.

Software Service

To optimize system resources in demand, TCO (Total Cost of Ownership), system reliability and design of TTM (Time-to-Market), Axiomtek has established the embedded OS service force since 1999. Based on a platform concept, we combine two elements, a hardware SBC body and an embedded OS soul both constituting what we believe a perfect match for many application target applications.

Quality Assurance

Axiomtek is an ISO 9001, ISO 45001, ISO 14001, ISO 13485 (for medical panel computers/monitors only) and TÜV certified company. We maintain stringent quality standards in our manufacturing processes, ensuring products go through rigorous quality checks at every stage of its production cycle. As a global citizen, Axiomtek is committed to providing green products that are compliant with WEEE and RoHS regulations.



Global Support

Axiomtek maintains a global network of international subsidiaries and distributors in more than 40 countries. To maximize service efficiency, Axiomtek employs an international service network. Our worldwide technical support and sales service among our 16 office locations located in Taiwan, North America, Europe, China, Malaysia, Thailand and Japan ensures we deliver dedicated and prompt services. Through our global network of international subsidiaries, customers obtain faster services and the most competitive pricing. Each project is fully supported by a group of experienced engineers, mechanical engineers, field application engineers, and sales coordinators from our worldwide offices. From concept to design, Axiomtek provides a comprehensive set of services to help you shorten your product development cycle and speed up your "Time to Market" gaining a competitive advantage. It has never been this easy to develop a project! With years of experience and knowledge, Axiomtek is your best partner for industry applications.

Technical Support

Outstanding technical support is important to Axiomtek, therefore we have organized our customer service department into a team of technical support professionals from our headquarters as well as team members from global regions, providing real-time technical support and professional knowledge.

Partnership

As an Intel®, Microsoft®, NVIDIA® NXP and AMD partner, Axiomtek has ample awareness of market trends and can rapidly develop advanced applications that enhance the competitiveness of our customers.



Strategic Business Focus

Providing over 400 products through product lines of Industrial PCs (IPCs), Single Board Computers (SBCs), System on Modules (SoMs), Fanless and Rugged Embedded Systems (eBOX, ICO and rBOX), Intelligent Transportation Systems (tBOX and UST), Touch Panel Computers (TPCs), Medical Panel Computers (MPCs), Intelligent Retail Solutions, Industrial IoT Gateway, EtherCAT Master Controllers and Network Appliances (NAs), Axiomtek products are widely used in industrial automation, smart energy, transportation, kiosk, gaming, smart retail, healthcare, network infrastructure, and more.

Automation

To be at the forefront of the automation industry with a comprehensive suite of industrial and embedded solutions embraced by customers seeking the highest level of reliability, trust, and confidence in extreme environmental and mission critical products.

Retail

To support the retail industry's quest to be the best in class. Our advanced, feature-rich, easy-to-deploy retail computer products are formulated for cutting edge retail applications, delivering consistent, seamless positive shopping experiences through the use of technology.

Medical

To offer best-in-class, high interoperability and easy-to–deploy medical-grade computing products to serve in the medical field- giving health care professionals the tools they need to accomplish their goals.

Networking

To work with our customers on IIoT innovation and make the world better connected than ever before, we offer a complete network appliance portfolio and flexible COTS customization services encompassing firewall, routing, VPN, vCPE, gateway, and edge intelligence.

Transportation

To offer exceptional value with end-to-end solutions targeting municipal rail, bus, heavy-duty vehicle and marine applications. We strive to deliver highly operational, low carbon footprint systems to generate compelling analytics for a better and safer transportation experience.

Gaming

To offer standard form factor x86-based embedded boards, fanless embedded systems, displays, and embedded OS support for gaming machine suppliers as well as system integration service and ODM/OEM service. We concentrate on keeping ourselves in line with the latest market trends of new generation gaming machines.

Global Website

www.axiomtek.com

Axiomtek's multi-language website is designed using the latest Responsive Web Design technology (RWD) with rich, valuable, interactive information. Through our multi-language website you can access a wide variety of resources such as products, solutions, press releases, articles, eCatalogs, videos, downloads and more! Major sections of the Axiomtek multi-language website are as follow:

Multi-languages



Visitors can select from a wide selection of languages including, English, German, Spanish, Italian, Japanese, Traditional Chinese and Simplified Chinese.

Various Products



Axiomtek offers Embedded Boards & SoMs, Industrial & Embedded Computers, Network Appliances and Touch Panel Computers. Customers can view product photos, features and ordering information and download complete product datasheets.

Solutions



Here, you can refer to any vertical market in which your product offering is applicable. Configuration diagrams show how Axiomtek's products can be implemented into specific applications, and help customers build a successful solutions.

eCatalogs & Videos



Here, you can find our environmentally-friendly paperless online catalogs and videos for additional product information.

Supports



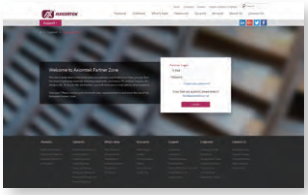
Axiomtek is devoted to providing the best customer services possible. Customers can obtain real-time update information such as manuals, drivers and a FAQ database. Axiomtek's creative eRMA online service offers a non-stop RMA service. Customers can access eRMA service, obtaining the most update information on repair and print test reports directly.

Resources



With 30 years of experience in a variety of industrial applications, we offer a wealth of resources to help you learn more about our products, solutions, and the latest trends in technology.

Partner Zone



Partner Zone is exclusively provided for Axiomtek sales representatives, channel partners and distributors. Here you can find the latest marketing information and collateral such as datasheets, brochures, press releases, product images, as well as product and company presentations.

eNewsletters



To provide customers with real time news from Axiomtek, customers can sign up our eNewsletters by visiting our eNews page directly for the latest product news, service updates, event invitations, and more!

RWD Design



Axiomtek website is designed to provide a better viewing experience, with a focus on simplicity. You will be presented with a clear view of products, news, and solutions with minimal distraction. Our site offers an excellent user experience across a wide range of devices.

Social Links



Axiomtek social media links can keep you up-to-date on product information, solutions, news and events. Axiomtek is devoted to providing various platforms to let people get information faster and easier. Search"Axiomtek" at any of social links to visit us and be sure to bookmark them and check back often!

NOTES

Table of **Contents**

Boards and Modules

1 System on Modules

Selection Guide 41

COM Express

	CEM310	COM Express Type 10 Mini Module with Intel® Atom® x5 and x7 Processor	43
	CEM700	COM Express Type 7 Basic Module with Intel® Xeon® D-1500 & Pentium® Processor D1500	44
NEW	CEM130	COM Express Type 6 Compact Module with AMD Ryzen™ Embedded V1000 Processor	45
NEW	CEM521	COM Express Type 6 Compact Module with 7th Gen Intel® Core™ & Celeron® Processor	46
NEW	CEM520	COM Express Type 6 Basic Module with Intel® Xeon® & 8th Gen Intel® Core™ Processors and Intel® CM246/QM370/HM370	47
	CEB94018	COM Express Type 10 Mini Application Board with LVDS, VGA, Dual LANs and Audio	48
	CEB94021	COM Express Type 6 Application Board with LVDS, VGA, DDI, Dual LAN and Audio	49

Qseven

NEW	Q7M310	Qseven with Intel® Atom® x5 and x7 Processor	50
	Q7B301	Qseven Module Rev 2.1 Application Board with LVDS, HDMI, Dual LAN and Audio	51

2 3.5" Embedded Boards

Selection Guide 53

NEW	CAPA520	3.5" Embedded SBC with LGA1151 Socket 9th/8th Gen Intel® Core™ i7/i5/i3, Pentium® & Celeron® Processor, DisplayPort, HDMI, LVDS, and 3 GbE LAN	55
NEW	CAPA13R	3.5" Embedded SBC with AMD® RYZEN™ Embedded V1807B/ V1605B APU, DisplayPort, 2 HDMI, LVDS, and 4 GbE LAN	56
NEW	CAPA311	3.5" Embedded SBC with Intel® Atom® x5-E3940 Processor, HDMI, LVDS, 2 GbE LAN and Audio	57
	CAPA84R	3.5" Embedded SBC with Intel® Celeron® Processor J1900/J1800, DisplayPort, LVDS, VGA, 3 GbE LAN and Audio	58

3 Pico-ITX SBCs

Selection Guide 61

NEW PICO51R Pico-ITX SBC with 7th Gen Intel® Core™ i7/i5/i3 and Celeron® Processor, DisplayPort, LVDS and 2 GbE LAN 63

NEW PICO50R Pico-ITX SBC with 6th Gen Intel® Core™ i7/i5/i3 and Celeron® Processor, DisplayPort, LVDS and 2 GbE LAN 64

NEW PICO317 Pico-ITX SBC with Intel® Atom® x5-E3940 Processor, HDMI, LVDS, GbE LAN and Audio 65

PICO318 Pico-ITX SBC with Intel® Pentium® Processor N4200/Celeron® Processor N3350, DisplayPort, LVDS, 2 GbE LAN and Audio 66

NEW PICO319 Pico-ITX SBC with Intel® Atom® x5-E3940 Processor, DisplayPort, LVDS, 2 GbE LAN and Audio 67

4 Mini-ITX Motherboards

Selection Guide 69

NEW MANO524 Mini-ITX SBC with LGA1151 9th/8th Gen Intel® Core™ i7/i5/i3 Processor, HDMI, DisplayPort++, LVDS, USB 3.0, M.2 and Four GbE LAN 71

NEW MANO523 Mini-ITX SBC with LGA1151 9th/8th Gen Intel® Core™ i7/i5/i3 Processor, DisplayPort++, VGA, eDP, USB 3.0, M.2 and Dual GbE LAN 72

MANO521 Thin Mini-ITX SBC with LGA1151 9th/8th Gen Intel® Core™ i7/i5/i3 Processor, DisplayPort++, HDMI, LVDS, VGA, USB 3.0, M.2 and HD Audio 73

MANO520 Mini-ITX SBC with LGA1151 9th/8th Gen Intel® Core™ i7/i5/i3 Processor, Dual DisplayPort++, HDMI, LVDS, USB 3.0, mSATA, M.2 and HD Audio 74

MANO315 Mini-ITX SBC with Intel® Celeron® Processor J3355 VGA, HDMI, USB 3.0, PCI Express Mini Card Slot, mSATA and HD Audio 75

5 ATX & Micro ATX Motherboards

Selection Guide 77

NEW IMB526 ATX Motherboard with LGA1151 Socket 8th Gen Intel® Core™ Processor, Intel® Q370, USB 3.1 Gen2, SATA 3.0, Dual LAN, VGA, DisplayPort++, DVI-D, and HDMI 81

IMB525 ATX Motherboard with LGA1151 Socket 8th Gen Intel® Core™ Processor, Intel® C246, USB 3.1 Gen, SATA 3.0, Dual LAN, VGA, DisplayPort, DVI-D, and HDMI 82

IMB524 ATX Motherboard with LGA1151 Socket 8th Gen Intel® Core™ Processor, Intel® H310, USB 3.1 Gen1, SATA 3.0, PCI Express Mini Card Slot, VGA, DisplayPort, DVI-D, and HDMI 83

IMB523	ATX Motherboard with LGA1151 Socket 8th Gen Intel® Core™ Processor, Intel® Q370, USB 3.1 Gen2, SATA 3.0, PCI Express Mini Card Slot, VGA, DisplayPort, DVI-D, and HDMI	84
IMB521	ATX Motherboard with LGA1151 Socket 8th Gen Intel® Core™ Processor, Intel® C246, USB 3.0, SATA 3.0, Dual LAN, VGA, DisplayPort, DVI-D, and HDMI	85
IMB520	ATX Motherboard with LGA1151 Socket 8th Gen Intel® Core™ Processor, Intel® Q370, USB 3.1 Gen2, SATA 3.0, Dual LAN, VGA, DisplayPort, DVI-D, and HDMI	86
IMB500	ATX Motherboard with LGA1151 Socket 7th/6th Gen Intel® Core™ Processor, Intel® Q170, USB 3.0, SATA 3.0, Dual LAN, VGA, DisplayPort, HDMI and mSATA	87
IMB501	ATX Motherboard with LGA1151 Socket 7th/6th Gen Intel® Core™ Processor, Intel® H110, USB 3.0, SATA 3.0, Dual LAN, VGA, DisplayPort, HDMI and mSATA	88
IMB502	ATX Motherboard with LGA1151 Socket 7th/6th Gen Intel® Core™ Processor, Intel® Q170, USB 3.0, SATA 3.0, Dual LAN, VGA, DVI-D and HDMI	89
MMB501	Micro ATX Motherboard with LGA1151 Socket 7th/6th Gen Intel® Core™ Processor, Intel® Q170, USB 3.0, SATA 3.0, Dual LAN, VGA, DisplayPort, DVI-D, and HDMI	90

6 Slot CPU Cards

Selection Guide		93
SHB150	PICMG 1.3 Full-size CPU Card with LGA1151 8th Gen Intel® Core™ Processor, Intel® C246/Q370/H310, SATA3, USB 3.1 Gen1/Gen2, Dual LAN and DVI-I	95
SHB140	PICMG 1.3 Full-size CPU Card with LGA1151 7th/6th Gen Intel® Core™ Processor, Intel® Q170/H110, SATA3, USB 3.0, Dual LAN and DVI-I	96
SHB130	PICMG 1.3 Full-size CPU Card with LGA1150 4th Gen Intel® Core™ i7/i5/i3 Processor, Intel® Q87, SATA3, USB 3.0, DVI-D, VGA, DisplayPort and Dual LAN	97
NEW SHB250	PICMG 1.3 Half-size CPU Card with LGA1151 9th/8th Gen Intel® Core™ i7/i5/i3, Xeon® E, Pentium® or Celeron® Processor, Intel® C246/Q370/H310, SATA 3.0, USB 3.1 Gen1, LAN and DVI-I	98

7 ARM-based Embedded Boards

Selection Guide 101

NEW SCM180 SMARC v2.0 SoM with i.MX8M Quad/Dual 1.5 GHz/1.3 GHz (Industrial) SoC, 4GB RAM, 64GB eMMC, CAN, MIPI CSI/DSI and HDMI 2.0 102

Q7M120 Qseven v2.0 SoM with iMX6 Quad/DualLite 800 MHz (Industrial) SoC, 1GB RAM, 4GB eMMC, GbE LAN, Audio and CAN 103

SCM120 SMARC v1.0 SoM with iMX6 Quad/DualLite 800 MHz (Industrial) SoC, 1GB RAM, 4GB eMMC, GbE LAN, Audio, CAN, MIPI and PCAM 104

8 Smart Display Modules

Selection Guide 107

NEW SDM500L Intel® Smart Display Module Large (Intel® SDM-L) with 8th Gen Intel® Core™ i7/i5/i3 Processor, HDMI and LAN 108

SDM300S Intel® Smart Display Module Small (SDM-S) with Intel® Pentium® Processor N4200 & Celeron® Processor N3350 109

9 PCI Express Cards

Machine Vision

AX92320 2-port/4-port PCI Express GigE Frame Grabber Card 111

NEW AX92321 4-port/8-port USB 3.0 PCI Express Card with 4 Independent Host Controllers 112

NEW AX92322 2-port/4-port GigE PCI Express Card 113

AX32350 Real-Time Vision I/O Card 114

Data Acquisition (DAQ)

AX92351 32-CH/64-CH Isolated Digital I/O PCI Express Card with Digital Filter 115

1 System on Modules

Axiomtek's SoM (System on Module) solution includes COM Express module (CEM) and Qseven module. In conjunction with a suitable baseboard, Axiomtek's SoM solution is an optimal solution for embedded applications to fulfill the various vertical applications that SBC (Single Board Computer) usually cannot satisfy. SoM is designed with all necessary components, offering the most update interface and excellent computing performance to reduce TCO (Total Cost of Ownership) and improve time to market.

Selection Guide 41

COM Express

	CEM310	COM Express Type 10 Mini Module with Intel® Atom® x5 and x7 Processor	43
	CEM700	COM Express Type 7 Basic Module with Intel® Xeon® D-1500 & Pentium® Processor D1500	44
NEW	CEM130	COM Express Type 6 Compact Module with AMD Ryzen™ Embedded V1000 Processor	45
NEW	CEM521	COM Express Type 6 Compact Module with 7th Gen Intel® Core™ & Celeron® Processor	46
NEW	CEM520	COM Express Type 6 Basic Module with Intel® Xeon® & 8th Gen Intel® Core™ Processors and Intel® CM246/QM370/HM370	47
	CEB94018	COM Express Type 10 Mini Application Board with LVDS, VGA, Dual LANs and Audio	48
	CEB94021	COM Express Type 6 Application Board with LVDS, VGA, DDI, Dual LAN and Audio	49

Qseven

NEW	Q7M310	Qseven with Intel® Atom® x5 and x7 Processor	50
	Q7B301	Qseven Module Rev 2.1 Application Board with LVDS, HDMI, Dual LAN and Audio	51

System on Modules

Selection Guide





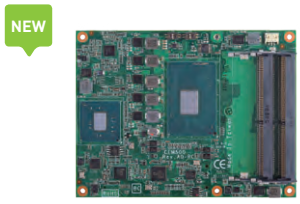
NEW



Features\Models			CEM310	CEM700	CEM130
Form Factor			COM Express® Type 10 Mini	COM Express® Type 7 Basic	COM Express Type 6 Compact
CPU Level			Intel® Atom® x5/x7	Intel® Xeon® D-1577 1.3/2.1GHz 24MB, 45W (16C) Intel® Xeon® D-1539 1.6/2.2GHz 12MB, 35W (8C) Intel® Xeon® D-1548 2.0/2.6GHz 12MB, 45W (8C) Intel® Xeon® D-1527 2.2/2.7GHz 6MB, 35W (4C) Intel® Pentium® D1519 1.5/2.1GHz 6MB, 25W (4C) Intel® Pentium® D1508 2.2/2.6GHz 3MB, 25W (2C)	AMD Ryzen™ Embedded V1000
CPU			Onboard	Onboard	Onboard
Core Logic Chipset			SoC integrated	SoC integrated	SoC integrated
Memory Type			DDR3L-1600	DDR4-2400	DDR4-2400/3200
Max. DRAM Capacity			4GB (default)/8GB (optional)	32GB	32GB (dual channel)
Cache RAM Capacity			SoC integrated	SoC integrated	SoC integrated
BIOS			AMI UEFI BIOS (Legacy Free)	AMI UEFI BIOS (Legacy Free)	AMI UEFI BIOS (Legacy Free)
Watchdog Timer			65536 levels, 0 to 65535 sec.	65536 levels, 0 to 65535 sec.	65536 levels, 0 to 65535 sec.
Onboard Storage			eMMC 5.0 up to 64GB (optional)	N/A	N/A
Onboard GPIO			4-in/4-out	4-in/4-out	4-in/4-out
I/O	**SATA**		2 x SATA-600	2 x SATA-600	2 x SATA-600
	TPM		N/A	TPM 2.0	TPM 2.0
	Serial	**COM 1**	TX/RX	TX/RX	TX/RX
		COM 2	TX/RX	TX/RX	TX/RX
		COM 3	N/A	N/A	N/A
		COM 4	N/A	N/A	N/A
	USB		2 x USB 3.0 8 x USB 2.0	4 x USB 3.0 4 x USB 2.0	3 x USB 3.0 8 x USB 2.0
Display			1 x DDI 1 x LVDS (eDP optional)	N/A	1 x VGA 1 x LVDS dual channel 18 /24 bit (eDP 1.3 optional) 2 x DDI (supports HDMI 1.4/DVI/DP 1.2*) *HDMI 2.0 needs redriver chip on carrier board/DP 1.4 needs redriver chip on carrier board
Ethernet			1 x 10/100/1000 Mbps Ethernet	1 x 10/100/1000 Mbps Ethernet 2 x 10GBase-KR interfaces support NCSI	1 x 10/100/1000 Mbps Ethernet
Audio			Codec on baseboard	Codec on baseboard	Codec on baseboard
Hardware Monitoring			Yes	Yes	Yes
SMBus			Yes	Yes	Yes
Expansion Interface			4 x PCIe x1	1 x PCIe x16 Gen3 1 x PCIe x8 Gen3 8 x PCIe x1 Gen2	7 x PCIe x1 via PCIe bridge
Power Management			ACPI	ACPI	ACPI
Operating Temperature			Industrial: -40°C to +85°C (-40°F to +185°F) Standard: -20°C to +70°C (-4°F to +158°F)	Industrial: -40°C to 85°C (-40°F to 185°F) Standard: 0°C to 60°C (32°F to140°F)	-20°C to +60°C (-4°F to +140°F)
Relative Humidity			10% - 95%, non-condensing	10% - 95%, non-condensing	10% - 95%, non-condensing
EMI Compliance			CE	CE	CE

* All specifications and photos are subject to change without notice. www.axiomtek.com © 2020 Axiomtek Co., Ltd. All rights reserved.







Features\Models			CEM521	CEM520	Q7M310
Form Factor			COM Express Type 6 Compact	COM Express Type 6 Basic	Qseven
CPU Level			Intel® 8th gen Core™/ Celeron® 4305UE	Intel® Xeon® 8th gen Intel® Core™ i (Coffee Lake)	Intel® Atom® x5/x7
CPU			Onboard	Onboard	Onboard
Core Logic Chipset			SoC integrated	Intel® CM246/QM370/HM370	SoC integrated
Memory Type			DDR4-2400	DDR4-2666 SO-DIMM	DDR3L-1600
Max. DRAM Capacity			64GB	32GB	8GB
Cache RAM Capacity			SoC integrated	SoC integrated	SoC integrated
BIOS			AMI UEFI BIOS (Legacy Free)	AMI UEFI BIOS (Legacy Free)	AMI UEFI BIOS (Legacy Free)
Watchdog Timer			65536 levels, 0 to 65535 sec.	65536 levels, 0 to 65535 sec.	65536 levels, 0 to 65535 sec.
Onboard Storage			eMMC 5.1 up to 64GB (optional)	N/A	eMMC 5.0 up to 32GB (optional)
Onboard GPIO			4-in/4-out	4-in/4-out	4-in/4-out
I/O	**SATA**		3 x SATA-600	4 x SATA-600 with RAID 0/1/5/10	2 x SATA-600
	TPM		TPM 2.0	TPM 2.0	N/A
	Serial	**COM 1**	TX/RX	TX/RX	TX/RX
		COM 2	TX/RX	TX/RX	N/A
		COM 3	N/A	N/A	N/A
		COM 4	N/A	N/A	N/A
	USB		4 x USB 3.0 8 x USB 2.0	4 x USB 3.0 8 x USB 2.0	2 x USB 3.0 4 x USB 2.0
Display			1 x LVDS; 18/24-bit single/dual channel (eDP 1.4 optional) 1 x VGA (default) 1 x DDI	1 x LVDS ;18/24-bit single/dual channel (eDP 1.4 optional) 1 x VGA 2 x DDI	1 x DDI 1 x LVDS (eDP optional)
Ethernet			1 x 10/100/1000 Mbps Ethernet	1 x 10/100/1000 Mbps Ethernet	1 x 10/100/1000 Mbps Ethernet
Audio			Codec on baseboard	Codec on baseboard	Codec on baseboard
Hardware Monitoring			Yes	Yes	Yes
SMBus			Yes	Yes	Yes
Expansion Interface			8 x PCIe x1 Gen3	1 x PCIe x16 Gen3 8 x PCIe x1 Gen3	4 x PCIe x1
Power Management			ACPI	ACPI	ACPI
Operating Temperature			-20°C to +70°C (-4°F to +158°F)	-20°C to +70°C (-4°F to +158°F)	-40°C to +85°C (-40°F to +185°F)
Relative Humidity			10% - 95%, non-condensing	10% - 95%, non-condensing	10% - 95%, non-condensing
EMI Compliance			CE	CE	CE

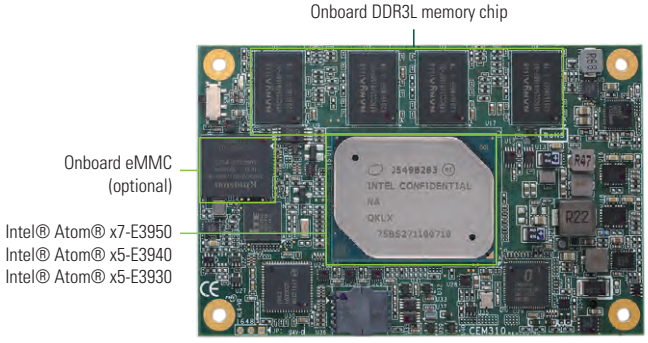
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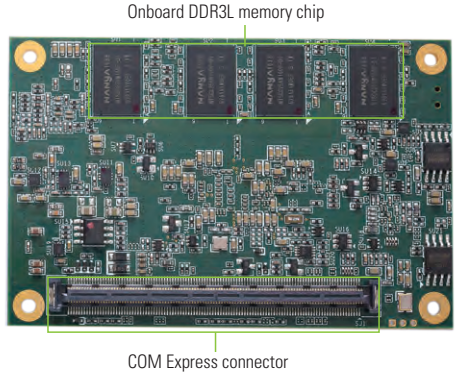
CEM310

COM Express Type 10 Mini Module with Intel® Atom® x5 and x7 Processor

Features

- Intel® Atom® x5 and x7 processors (Apollo Lake)
- 4GB DDR3L memory onboard (8GB optional)
- Max. up to 4 lanes of PCI Express
- 2 SATA-600
- 2 USB 3.0 and 8 USB 2.0





▲ Rear view

DDR3L | USB 3.0 | DualView | Full Solid Cap Design | Low Power | Ext. Temp | AiRD

Core System

CPU	Intel® Atom® x7-E3950 (2.0 GHz) Intel® Atom® x5-E3940 (1.8 GHz) Intel® Atom® x5-E3930 (1.8 GHz)
System Memory	4GB DDR3L memory onboard (8GB optional)
Chipset	SoC integrated
BIOS	AMI UEFI BIOS (Legacy Free)
Storage	eMMC 5.0 up to 64GB (optional)
Watchdog Timer	65536 levels, 0 to 65535 sec.
Expansion Interface	4 x PCIe x1 (3 x1 while internal LAN is connected)
Battery Lithium	N/A
Power Input	ATX: +12V, +5VSB AT: +12V Wide range input: +4.75V to +20V
Dimensions	84 x 55 mm
Board Thickness	2.0 mm
Operating Temperature	Industrial: -40°C to +85°C (-40°F to +185°F) Standard: -20°C to +70°C (-4°F to +158°F)
Humidity	10% - 95% relative humidity, non-condensing
Vibration Endurance	3.5 Grms

I/O

SATA	2 x SATA-600
Hardware Monitoring	Yes
Ethernet	1 x 10/100/1000 Mbps Ethernet with Intel® i210-IT; supports Wake-on-LAN, PXE Boot ROM
Audio	HD link interface to baseboard for Codec
USB	2 x USB 3.0 8 x USB 2.0
Serial	1 x LPC 1 x SPI 2 x TX/RX
TPM	N/A
SMBus	Yes
Others	1 x I^2C
GPIO	4-CH in & 4-CH out
Smart Battery	Yes

Packing List

Chipset	Intel® Gen 9 Graphics Engine Supports Gfx – DX12.0, OCL2.0, OGL 4.3
Display Interface	1 x DDI (DisplayPort, HDMI, DVI) 1 x LVDS; 18/24-bit single channel (eDP optional)

Packing List

Quick installation guide

Ordering Information

Standard	
CEM310PG-E3930+4GB (Ind) (P/N: E38D310100)	COM Express Type 10 Mini module with Intel® Atom® x5-E3930, DDI, LVDS, USB 3.0 and GbE LAN (Ind. Temp)
CEM310PG-E3940+4GB (Ind) (P/N: E38D310102)	COM Express Type 10 Mini module with Intel® Atom® x5-E3940, DDI, LVDS, USB 3.0 and GbE LAN (Ind. Temp)
CEM310PG-E3950+4GB (Ind) (P/N: E38D310103)	COM Express Type 10 Mini module with Intel® Atom® x7-E3950, DDI, LVDS, USB 3.0 and GbE LAN (Ind. temp)
CEM310PG-E3930+4GB (P/N: E38D310104)	COM Express Type 10 Mini module with Intel® Atom® x5-E3930, DDI, LVDS, USB 3.0 and GbE LAN
CEM310PG-E3940+4GB (P/N: E38D310105)	COM Express Type 10 Mini module with Intel® Atom® x5-E3940, DDI, LVDS, USB 3.0 and GbE LAN
CEM310PG-E3950+4GB (P/N: E38D310106)	COM Express Type 10 Mini module with Intel® Atom® x7-E3950, DDI, LVDS, USB 3.0 and GbE LAN

Optional	
7128D310000E	CEM310 heatspreader
5078D840200E	Heatsink with fan (need to be with 7128D310000E)
CEB94017 (P/N: E394017101)	COM Express Type 10 development baseboard

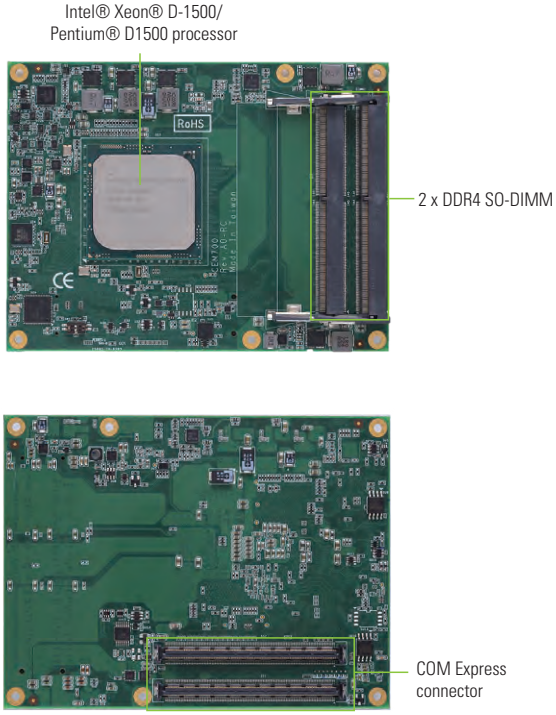
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CEM700

COM Express Type 7 Basic Module with Intel® Xeon® D-1500 & Pentium® Processor D1500

Features

- Intel® Xeon® D-1500 and Pentium® Processor D1500 (Broadwell-DE)
- 2 DDR4-2400 SO-DIMM for up to 32GB of memory
- 1 PCIe x16 Gen3, 1 PCIe x8 Gen3, 8 PCIe x1 Gen2
- 2 SATA-600
- 4 USB 3.0 and 4 USB 2.0
- Two 10GBase-KR
- TPM 2.0 supported



▲ Rear view

PCIe | USB 3.0 | Ext. Temp | Full Solid Cap Design | AiRD | Low Power

Core System

CPU	Intel® Xeon® D-1577 1.3/2.1GHz 24MB, 45W (16C) Intel® Xeon® D-1539 1.6/2.2GHz 12MB, 35W (8C) Intel® Xeon® D-1527 2.2/2.7GHz 6MB, 35W (4C) Intel® Pentium® D1519 1.5/2.1GHz 6MB, 25W (4C) Intel® Pentium® D1508 2.2/2.6GHz 3MB, 25W (2C)
System Memory	2 x 260-pin DDR4-2400 ECC SO-DIMM, up to 32GB
Chipset	SoC integrated
BIOS	AMI uEFI (Legacy free)
Storage	N/A
Watchdog Timer	65536 levels, 0 to 65535 sec.
Expansion Interface	1 x PCIe x16 Gen3 1 x PCIe x8 Gen3 8 x PCIe x1 Gen2
Battery Lithium	N/A
Power Input	ATX: +12V, +5VSB AT: +12V
Dimensions	125 x 95 mm
Board Thickness	2.0 mm
Operating Temperature	Industrial: -40°C to 85°C (-40°F to 185°F) Standard: 0°C to 60°C (32°F to 140°F)
Humidity	10% - 95% relative humidity, non-condensing
Vibration Endurance	3.5 Grms

I/O

SATA	2 x SATA-600
Hardware Monitoring	Yes
Ethernet	1 x 10/100/1000 Mbps Ethernet with Intel® i210 2 x 10GBASE-KR with Intel® 10G Ethernet controller
Audio	N/A
USB	4 x USB 3.0 4 x USB 2.0
Serial	2 x TX/RX
TPM	TPM 2.0
SMBus	Yes
Others	1 x I^2C 1 x LPC 1 x SPI
GPIO	4-CH in & 4-CH out
Smart Battery	N/A

Packing List

Quick installation guide

Ordering Information

Standard	
CEM700-D1577 (P/N: E38D700100)	COM Express Type 7 Basic module with Intel® Xeon® D-1577, 10GBASE-KR, USB 3.0 and TPM
CEM700-D1539 (P/N: E38D700102)	COM Express Type 7 Basic module with Intel® Xeon® D-1539, 10GBASE-KR, USB 3.0, and TPM (Ind. Temp)
CEM700-D1527 (P/N: E38D700101)	COM Express Type 7 Basic module with Intel® Xeon® D-1527, 10GBASE-KR, USB 3.0 and TPM
CEM700-D1519 (P/N: E38D700103)	COM Express Type 7 Basic module with Intel® Xeon® D-1519, 10GBASE-KR, USB 3.0, and TPM (Ind. Temp)
CEM700-D1508 (P/N: E38D700104)	COM Express Type 7 Basic module with Intel® Pentium® D-1508, 10GBASE-KR, USB 3.0 and TPM
Optional	
CEB94701 (P/N: E394701100)	COM Express Type 7 development board
E39J012100	CEM700 heatpipe cooler
7128D700000E	CEM700 heat spreader

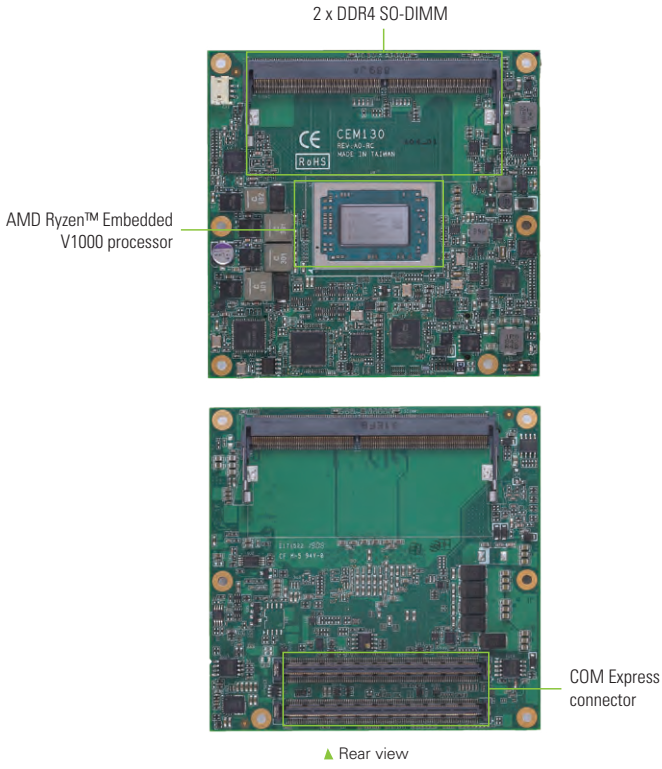
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CEM130 NEW

COM Express Type 6 Compact Module with AMD Ryzen™ Embedded V1000 Processor

Features

- AMD Ryzen™ Embedded V1000 processors
- 2 DDR-2400/3200 SO-DIMM for up to 32GB of memory
- Max. up to 7 lanes of PCI Express
- 2 SATA-600
- 3 USB 3.0 and 8 USB 2.0
- TPM 2.0 supported
- Wide voltage input from +8V to +20V



▲ Rear view

DDR4 | USB 3.0 | TripleView | Full Solid Cap Design | Low Power | AMS.AXView

Core System

CPU	AMD Ryzen™ Embedded V1000 series V1202B / 2.3 GHz (12-25W) V1605B / 2.0 GHz (12-25W) V1756B / 3.25 GHz (35-54W) V1807B / 3.35 GHz (35-54W)
System Memory	2 x DDR4-2400/3200 SO-DIMM, up to 32GB (dual channel)*, non-ECC/ECC memory *Memory speed was depend on memory rank.
Chipset	SoC integrated
BIOS	AMI uEFI (Legacy free)
Storage	N/A
Watchdog Timer	65536 levels, 0 to 65535 sec.
Expansion Interface	7 x PCIe x1 via PCIe bridge
Battery Lithium	N/A
Power Input	ATX: +12V, +5VSB AT: +12V Wide range input: +8V to +20V
Dimensions	95 x 95 mm
Board Thickness	2.0 mm
Operating Temperature	-20°C to +60°C (-4°F to +140°F)
Humidity	10% - 95% relative humidity, non-condensing

*Memory speed was depend on memory rank.

I/O

SATA	2 x SATA-600
Hardware Monitoring	Yes
Ethernet	1 x 10/100/1000 Mbps Ethernet with Intel® i210; supports Wake-on-LAN, PXE Boot ROM
Audio	HD link interface to baseboard for Codec
USB	3 x USB 3.0 8 x USB 2.0
Serial	1 x LPC 1 x SPI 2 x TX/RX
TPM	TPM 2.0
SMBus	Yes
Others	1 x I^2C
GPIO	4-CH in & 4-CH out
Smart Battery	Yes

Display

Graphic	Radeon™ RX Vega Graphics with up to 11 compute units H.265 (10-bit) decode & (8-bit) encode, VP9 decode
Display Interface	1 x VGA; 1920 x 1200 @60Hz 1 x LVDS dual-channel 18/24-bit or eDP 1.3 (optional) 2 x DDI (HDMI 1.4, DVI, DisplayPort 1.2)*

*HDMI 2.0 needs redriver chip on carrier board/DisplayPort 1.4 needs redriver chip on carrier board

Packing List

Quick installation guide

Ordering Information

Standard	
CEM130-V1202B	COM Express Type 6 Compact module with AMD Ryzen™ Embedded V1202B, DDI, LVDS, GbE LAN, USB 3.0 and TPM
CEM130-V1605B	COM Express Type 6 Compact module with AMD Ryzen™ Embedded V1605B, DDI, LVDS, GbE LAN, USB 3.0 and TPM
CEM130-V1756B	COM Express Type 6 Compact module with AMD Ryzen™ Embedded V1756B, DDI, LVDS, GbE LAN, USB 3.0 and TPM
CEM130-V1807B	COM Express Type 6 Compact module with AMD Ryzen™ Embedded V1807B, DDI, LVDS, GbE LAN, USB 3.0 and TPM
Optional	
CEB94011 (P/N: E394011100)	COM Express Type 6 application board
	CEM130 heat sink with fan
	CEM130 heat spreader

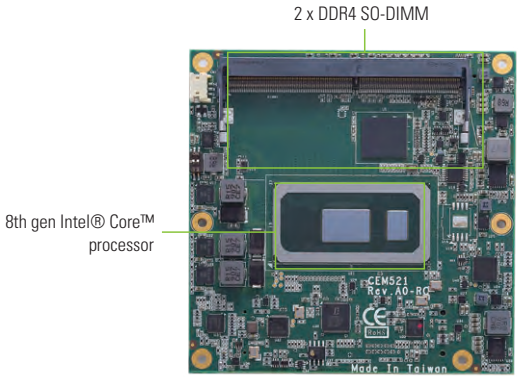
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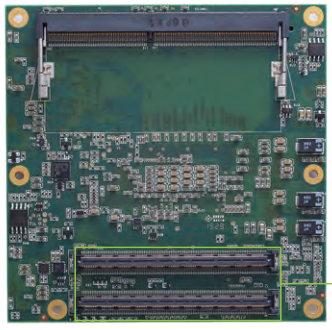
CEM521 NEW

COM Express Type 6 Compact Module with 8th Gen Intel® Core™ & Celeron® Processor

Features

- 8th gen Intel® Core™ i7/i5/i3 and Celeron® processors (Whiskey Lake-U)
- 2 DDR4-2400 SO-DIMM for up to 64GB of memory
- Max. up to 8 lanes of PCI Express
- 3 SATA-600
- 4 USB 3.0 and 8 USB 2.0
- TPM 2.0 supported
- AMS.AXView intelligent remote management software





▲ Rear view

Ext. Temp

DDR4 | USB 3.0 | TripleView | Full Solid Cap Design | AiRD | Low Power | AMS.AXView

Core System

CPU	Intel® Core™ i7-8665UE/i5-8365UE/i3-8145UE processor (Whiskey Lake-U) & Intel® Celeron® processor 4305UE
System Memory	2 x 260-pin DDR4-2400 SO-DIMM, up to 64GB
Chipset	SoC integrated
BIOS	AMI uEFI (Legacy free)
SSD	N/A
Watchdog Timer	65536 levels, 0 to 65535 sec.
Expansion Interface	8 x PCI Express Gen3 (max. 5 PCIe Devices without LAN)
Battery Lithium	N/A
Power Input	ATX: +12V, +5VSB AT: +12V
Dimensions	95 x 95 mm
Board Thickness	2.0 mm
Operating Temperature	-20°C to +70°C (-4°F to +158°F)
Humidity	10% - 95% relative humidity, non-condensing
Vibration Endurance	3.5 Grms

I/O

SATA	3 x SATA-600
Hardware Monitoring	Yes
Ethernet	1 x 10/100/1000 Mbps Ethernet with Intel® i219-LM; supports Wake-on-LAN, PXE Boot ROM
Audio	HD link interface to baseboard for Codec
USB	4 x USB 3.0 8 x USB 2.0
Serial	1 x LPC 1 x SPI 2 x TX/RX
TPM	TPM 2.0
SMBus	Yes
Others	1 x I^2C
GPIO	4-CH in & 4-CH out (SDIO optional)
Smart Battery	Yes

Display

Chipset	Intel® gen 9 Graphics Engine Supports Gfx - DX12.0, OCL2.0, OGL4.3
Display Interface	1 x LVDS; 18/24-bit single/dual channel (optional eDP 1.4 : 4096 x 2304@60Hz) 1 x VGA up to 1920 x 1200 @60Hz (default) 1 x DDI (DisplayPort 1.2: 4096 x 2304@60Hz/HDMI 1.4: 4096 x 2160@30/24Hz)

Packing List

Quick installation guide

Ordering Information

Standard	
CEM521PG-i7-8665UE	COM Express Type 6 Compact module with Intel® Core™ i7-8665UE, DDI, VGA, LVDS, GbE LAN, USB 3.0 and TPM
CEM521PG-i5-8365UE	COM Express Type 6 Compact module with Intel® Core™ i5-8365UE, DDI, VGA, LVDS, GbE LAN, USB 3.0 and TPM
CEM521PG-i3-8145UE	COM Express Type 6 Compact module with Intel® Core™ i3-8145UE, DDI, VGA, LVDS, GbE LAN, USB 3.0 and TPM
CEM521PG-Cel-4305UE	COM Express Type 6 Compact module with Intel® Celeron® 4305UE, DDI, VGA, LVDS, GbE LAN, USB 3.0 and TPM

Optional	
CEB94011 (P/N: E394011100)	COM Express Type 6 evaluation board
	CEM521 heat sink with fan
	CEM521 heat spreader

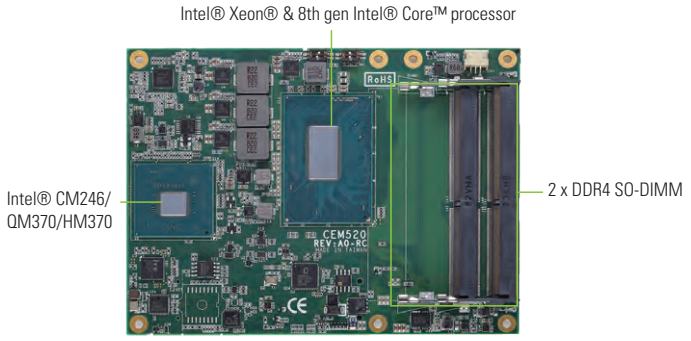
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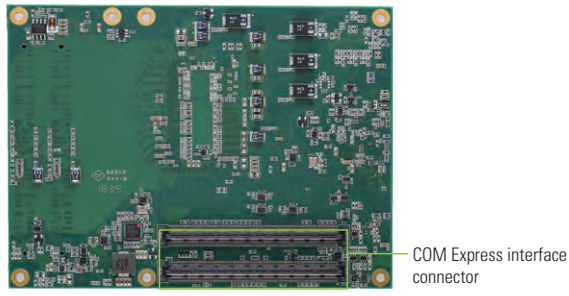
CEM520

COM Express Type 6 Basic Module with Intel® Xeon® & 8th Gen Intel® Core™ Processors and Intel® CM246/QM370/HM370

Features

- Intel® Xeon® & 8th gen Intel® Core™ i7/i5/i3 processors (Coffee Lake)
- Intel® CM246/QM370/HM370 chipset
- 2 DDR4-2666 SO-DIMM slots for up to 32GB of memory
- 1 PCIe x16 and 8 PCIe x1 Gen3
- 4 SATA-600 with RAID 0/1/5/10
- 4 USB 3.0 and 8 USB 2.0
- TPM 2.0 function supported
- AMS.AXView intelligent remote management software for industrial IoT applications





▲ Rear view

DDR4 | USB 3.0 | AMS.AXView

Core System

CPU	Intel® Xeon® & 8th gen Intel® Core™ i7/i5/i3 processors (Coffee Lake)
System Memory	2 x DDR4-2666 SO-DIMM, up to 32GB non-ECC/ECC memory
Chipset	Intel® CM246/QM370/HM370
BIOS	AMI uEFI (Legacy Free)
Storage	N/A
Watchdog Timer	65536 levels, 0 to 65535 sec.
Expansion Interface	1 x PCIe x16 Gen3 8 x PCIe x1 Gen3
Battery Lithium	N/A
Power Input	ATX: +12V, +5VSB; AT: +12V
Dimensions	125 x 95 mm
Board Thickness	2.0 mm
Operating Temperature	-20°C to +70°C (-4°F to +158°F) (operation with heatsink and fan)
Humidity	10% - 95% relative humidity, non-condensing
Vibration	3.5 Grms

I/O

SATA	4 x SATA-600 with RAID 0/1/5/10
Hardware Monitoring	Yes
Ethernet	1 x 10/100/1000 Mbps Ethernet with Intel® i219-LM; supports Wake-on-LAN, PXE Boot ROM
Audio	HD link interface to baseboard for Codec
USB	4 x USB 3.0 8 x USB 2.0
Serial	1 x LPC 1 x SPI 2 x TX/RX
TPM	TPM 2.0
SMBus	Yes
Others	1 x I^2C
GPIO	4-CH in & 4-CH out
Smart Battery	Yes

Display

Chipset	Intel® Gen 9 HD Graphic Gfx APIs - DX11/12, OCL2.x, OGL 4.3/4.4 3 independent displays
Display Interface	1 x LVDS ;18/24-bit single/dual channel (default), optional with eDP 1.4: 4096 x 2304 @60Hz 1 x VGA; up to 1920 x 1200 @60Hz (default) 2 x DDI (DisplayPort 1.2: 4096 x 2304 @60Hz/HDMI 1.4: 4096 x 2160 @30/24Hz)

Packing List

Quick installation guide, user's manual/utility CD

Ordering Information

Standard	
CEM520-E-2176M+CM246	COM Express Type 6 basic module with Intel® Xeon® E-2176M, CM246, DDI/LVDS, GbE LAN, USB 3.0 and TPM
CEM520-i7-8850H+QM370	COM Express Type 6 basic module with Intel® Core™ i7-8850H, QM370, DDI/LVDS, GbE LAN, USB 3.0 and TPM
CEM520-i5-8400H+QM370	COM Express Type 6 basic module with Intel® Core™ i5-8400H, QM370, DDI/LVDS, GbE LAN, USB 3.0 and TPM
CEM520-i3-8100H+HM370	COM Express Type 6 basic module with Intel® Core™ i3-8100H, HM370, DDI/LVDS, GbE LAN, USB 3.0 and TPM
Optional	
CEB94011 (P/N: E394011100)	CEB94011 COM Express Type 6 evaluation board
	CEM520 heat sink with fan
	CEM520 heat spreader

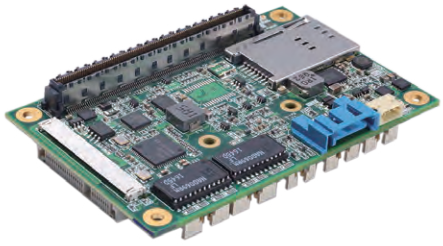
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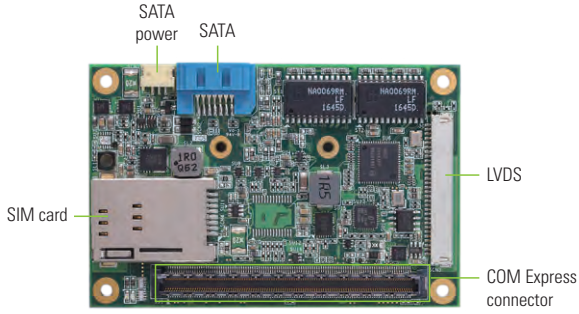
COM Express Type 10 Mini Application Board with LVDS, VGA, Dual LAN and Audio

Features

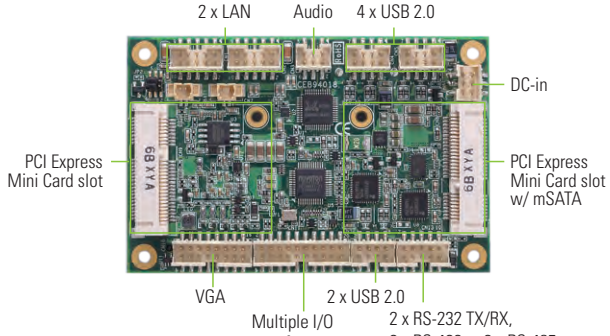
- 84 x 55 mini size form factor
- 2 GbE LAN
- SATA and mSATA
- LVDS and VGA
- 6 USB 2.0
- 2 PCI Express Mini Card slots



▲ Side view



▲ Front view



▲ Rear view

PCIe Mini | USB 3.0 | Ext. Temp | Full Solid Cap Design

Core System

CPU	On the module
System Memory	On the module
Chipset	On the module
BIOS	On the module
SSD	N/A
Watchdog Timer	On the module
Expansion Interface	2 x Half-size PCI Express Mini Card slot 1 x SIM card slot
Battery Lithium	Lithium 3V/220 mAH
Power Input	AT/ATX: +5V DC in, +9V to +14 DC in (option)
Dimensions	84 x 55 mm
Board Thickness	1.6 mm
Operating Temperature	-40°C to +85°C (-40°F to +185°F)
Humidity	10% - 95% relative humidity, non-condensing

I/O

SATA	1 x SATA-600
Hardware Monitoring	Yes
Ethernet	1 x 10/100/1000 Mbps Ethernet with Intel® i210-IT; supports Wake-on-LAN, PXE Boot ROM 1 x 10/100/1000 Mbps signals routed from CPU module
Audio	HD audio with Line-out & Mic-in
USB	6 x USB 2.0
Serial	2 x RS-232 TX/RX/RS-422/RS-485
TPM	N/A
SMBus	N/A
Others	1 x I²C
GPIO	3-CH in & 3-CH out
Display	1 x LVDS; 18/24-bit single channel 1 x VGA

Packing List

Quick installation guide; user's manual/utility CD

Ordering Information

Standard	
CEB94018VGA (P/N: E394018100)	COM Express Type 10 Mini application board with 2 PCI Express Mini Card slots, 2 GbE LAN, LVDS, VGA and multiple I/O features
TS010-CEB90418 HS (P/N : E39J010100)	CEB94018 heatsink with fan (5V)

Accessories include in CEB94018VGA

Power cable
VGA cable
USB 2.0 cable
Audio cable
LAN cable
COM cable
SATA power cable
System cable

Compliant Modules

CEM846PG-E3845-4G (P/N: E380846105)	COM Express Type 10 Mini module with Intel® Atom® E3845, 4GB, DDI, LVDS, GbE LAN and USB 3.0
CEM846PG-E3827-4G (P/N: E380846104)	COM Express Type 10 Mini module with Intel® Atom® E3827, 4GB, DDI, LVDS, GbE LAN and USB 3.0
CEM846PG-E3815-2G (P/N: E380846103)	COM Express Type 10 Mini module with Intel® Atom® E3815, 2GB, DDI, LVDS, GbE LAN and USB 3.0
CEM300PG-N3710-4G (P/N: E38D300100)	COM Express Type 10 Mini module with Intel® Pentium® N3710, 4GB, DP, LVDS, USB 3.0 and GbE LAN
CEM300PG-N3160-4G (P/N: E38D300102)	COM Express Type 10 Mini module with Intel® Celeron® N3160, 4GB, DP, LVDS, USB 3.0 and GbE LAN
CEM300PG-N3060-4G (P/N: E38D300104)	COM Express Type 10 Mini module with Intel® Celeron® N3060, 4GB, DP, LVDS, USB 3.0 and GbE LAN
CEM311PG-N4200 (P/N: E38D311103)	COM Express Type 10 Mini module with Intel® Pentium® N4200, DDI, LVDS, USB 3.0 and GbE LAN
CEM311PG-N3350 (P/N: E38D311100)	COM Express Type 10 Mini module with Intel® Celeron® N3350, DDI, LVDS, USB 3.0 and GbE LAN

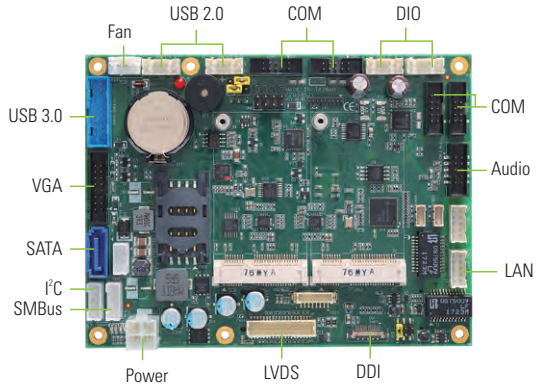
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CEB94021

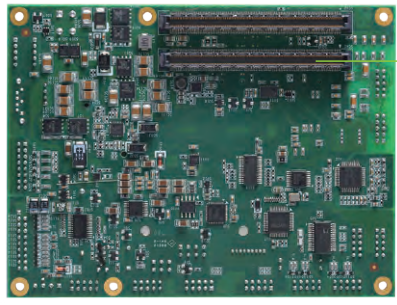
COM Express Type 6 Application Board with LVDS, VGA, DDI, Dual LANs and Audio

Features

- 125 x 95 mini size form factor
- 2 GbE LANs
- SATA-600
- LVDS, VGA and DDI
- 4 USB 2.0 and 2 USB 3.0
- 2 PCI Express Mini Card slots
- 3 RS-232/422/485 and 1 RS-232



▲ Front view



▲ Rear view

PCIe Mini | USB 3.0 | Ext. Temp | Full Solid Cap Design

Core System

CPU	On the module
System Memory	On the module
Chipset	SoC integrated
BIOS	On the module
SSD	N/A
Watchdog Timer	On the module
Expansion Interface	2 x Full-size PCI Express Mini Card slot (one slot supports mSATA) 1 x SIM card slot
Battery Lithium	Lithium 3V/220 mAH
Power Input	12V DC input via in a ATX connector
Dimensions	125 x 95 mm
Board Thickness	1.6 mm
Operating Temperature	-40°C to +85°C (-40°F to +185°F)
Humidity	10% to 95% relative humidity, non-condensing

I/O

SATA	1 x SATA-600
Hardware Monitoring	Yes
Ethernet	1 x 10/100/1000 Mbps Ethernet with Intel® i210-IT; supports Wake-on-LAN, PXE Boot ROM 1 x 10/100/1000 Mbps signals routed from CPU module
Audio	HD audio with Line-out, MIC-in & Line-in
USB	4 x USB 2.0 2 x USB 3.0
Serial	1 x RS-232 3 x RS-232/422/485
TPM	N/A
SMBus	Yes
others	1 x I^2C
GPIO	8-CH in & 8-CH out
Display	1 x LVDS; 18/24-bit single channel 1 x VGA 1 x DDI

Packing List

Quick installation guide; user's manual/utility CD

Ordering Information

Standard	
CEB94021VGA (P/N: E394021100)	COM Express Type 6 application board with PCI Express Mini Card slot, 2 GbE LANs, LVDS, VGA and multiple I/O features

Compliant Modules	
CEM500 Series	COM Express Type 6 Basic module with 6th gen Intel® Xeon® and Core™ i7/i5/i3 processor (Skylake-H)
CEM510 Series	COM Express Type 6 Basic module with Intel® Xeon® E3 or 7th gen Intel® Core™ i7/i5/i3 processor (Kaby Lake-H)
CEM501 Series	COM Express Type 6 Compact module with 6th gen Intel® Core™ i7/i5/i3 or Celeron® processor (Skylake-U)
CEM511 Series	COM Express Type 6 Compact module with 7th gen Intel® Core™ i7/i5/i3 or Celeron® 3965U processor (Kaby Lake-U)

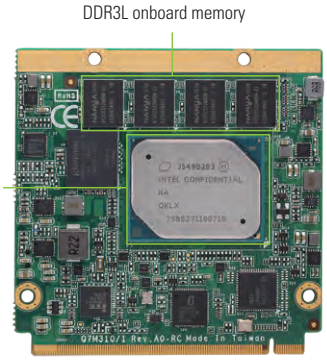
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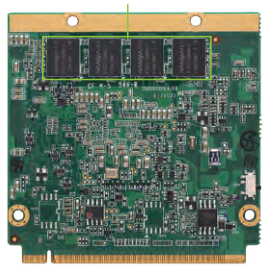
Q7M310

Qseven Module with Intel® Atom® x5 and x7 Processors

Features

- Intel® Atom® x5 and x7 processor (Apollo Lake)
- 8GB DDR3L memory onboard
- 4 lanes of PCI Express slot
- 2 SATA-600
- 2 USB 3.0 and 4 USB 2.0





▲ Rear view

Ext. Temp | AiRD | Supports Intel Atom | DDR3L | USB 3.0 | DualView | Full Solid Cap Design | Low Power

Core System

CPU	Intel® Atom® x7-E3950 (2.0 GHz) Intel® Atom® x5-E3940 (1.8 GHz) Intel® Atom® x5-E3930 (1.8 GHz)
System Memory	Onboard DDR3L, up to 8GB
Chipset	SoC integrated
BIOS	AMI uEFI
SSD	eMMC 32GB (optional)
Watchdog Timer	65536 levels, 0 ~ 65535 sec.
Expansion Interface	4 x PCIe x1 (3 x PCIe x1 if onboard LAN is supported)
Battery Lithium	N/A
Power Input	ATX: 5V, +5VSB AT: 5V
Size	70 x 70 mm
Board Thickness	1.2 mm
Temperature	-40°C to +85°C (-40°F ~ +185°F), operation
Operation Humidity	10% - 95% relative humidity, non-condensing

I/O

MIO	1 x LPC interface (optional w/GPIO) 1 x SPI interface 1 x Serial TX/RX 1 x I^2C 1 x SDIO
SATA	2 x SATA-600
Hardware Monitoring	Yes
Ethernet	1 x 10/100/1000 Mbps Ethernet with Intel® i210-IT; supports Wake-on-LAN, PXE Boot ROM
Audio	HD link interface to baseboard for Codec
USB	2 x USB 3.0 4 x USB 2.0
TPM	N/A
SMBus	Yes
Digital I/O	8 x GPIO
SDIO	Yes
Smart Battery	Yes

Display

Chipset	Intel® Gen 9 Graphics Engine Support Gfx - DX11.1, OCL1.2, OGL 4.2
Display Interface	1 x DDI (DisplayPort, HDMI, DVI) 1 x LVDS; 18/24-bit dual channel (eDP optional)

Packing List

Quick installation guide

Ordering Information

Standard	
Q7M310PG-E3950-4G	Qseven module with Intel® Atom® x7-E3950, 4GB DRAM, DDI, LVDS, USB 3.0 and GbE LAN
Q7M310PG-E3940-4G	Qseven module with Intel® Atom® x5-E3940, 4GB DRAM, DDI, LVDS, USB 3.0 and GbE LAN
Q7M310PG-E3930-4G	Qseveni module with Intel® Atom® x5-E3930, 4GB DRAM, DDI, LVDS, USB 3.0 and GbE LAN

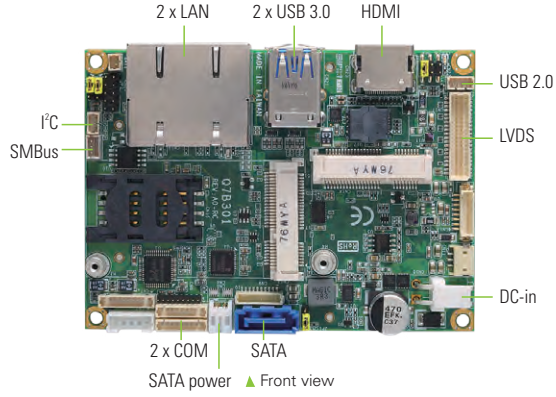
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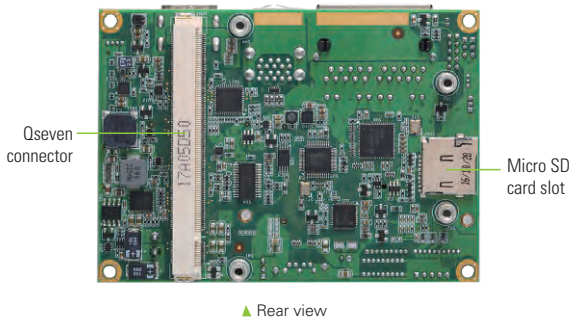
Q7B301

Qseven Rev 2.1 Application Board with LVDS, HDMI, Dual LAN and Audio

Features

- 100 x 72 mini size form factor
- 2 GbE LAN
- SATA-600
- LVDS and HDMI
- 1 USB 2.0 and 2 USB 3.0
- 2 PCI Express Mini Card slots





PCIe Mini | USB 3.0 | Ext. Temp | Full Solid Cap Design

Core System

CPU	On the module
System Memory	On the module
Chipset	SoC integrated
BIOS	On the module
SSD	N/A
Watchdog Timer	On the module
Expansion Interface	1 x Full-Size PCI Express Mini Card Slot (mSATA supported) 1 x Half-size PCI Express Mini Card slot 1 x SIM card slot
Battery Lithium	N/A
Power Input	2-pin DC-in 12V connector
Dimensions	100 x 72 mm
Board Thickness	1.6 mm
Operating Temperature	-40°C to +85°C (-40°F to +185°F)
Humidity	10% - 95% relative humidity, non-condensing

I/O

SATA	1 x SATA-600
Hardware Monitoring	Yes
Ethernet	1 x 10/100/1000 Mbps Ethernet with Intel® i210-IT; supports Wake-on-LAN, PXE Boot ROM 1 x 10/100/1000 Mbps signals routed from CPU module
Audio	HD audio with Line-out & MIC-in
USB	1 x USB 2.0 2 x USB 3.0
Serial	2 x RS-232/422/485
TPM	N/A
SMBus	Yes
Others	1 x I²C
GPIO	4-CH in & 4-CH out
Display	1 x LVDS; 18/24-bit single channel 1 x HDMI

Packing List

Quick installation guide; user's manual/utility CD

Ordering Information

Standard	
Q7B301LVDS (P/N: E399301100)	Qseven Rev 2.1 application board with 2 PCI Express Mini Card slots, 2 GbE LAN, LVDS and HDMI

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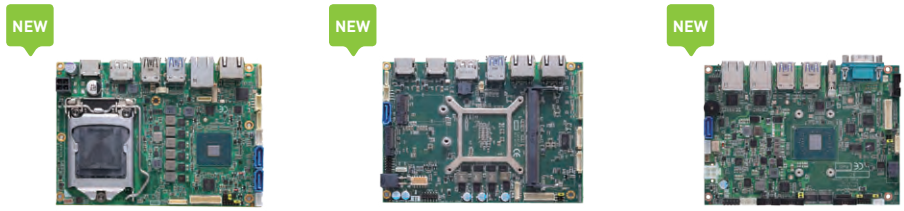
2 3.5" Embedded Boards

Axiomtek's industrial-grade 3.5-inch embedded board provides an enhanced, feature-rich and easy-to-deploy solution for varying embedded applications. It comes with a small form factor, lower power consumption CPU, high network connectivity, stunning graphical performance, and abundant I/O connectivity. It is a highly versatile platform designed for IoT and intelligent systems such as industrial automation, self-service terminals, digital signage, POS/kiosk displays, medical, and more.

	Selection Guide		53
NEW	CAPA520	3.5" Embedded SBC with LGA1151 Socket 9th/8th Gen Intel® Core™ i7/i5/i3, Pentium® & Celeron® Processor, DisplayPort, HDMI, LVDS, and 3 GbE LAN	55
NEW	CAPA13R	3.5" Embedded SBC with AMD® RYZEN™ Embedded V1807B/ V1605B APU, DisplayPort, 2 HDMI, LVDS, and 4 GbE LAN	56
NEW	CAPA311	3.5" Embedded SBC with Intel® Atom® x5-E3940 Processor, HDMI, LVDS, 2 GbE LAN and Audio	57
	CAPA84R	3.5" Embedded SBC with Intel® Celeron® Processor J1900/J1800, DisplayPort, LVDS, VGA, 3 GbE LAN and Audio	58

3.5" Embedded Boards

Selection Guide



Features\Models			CAPA520	CAPA13R	CAPA311
Form Factor			3.5"	3.5"	3.5"
CPU Level			9th/8th gen Intel® Core™ i7/i5/i3 & Celeron®	AMD® RYZEN™ Embedded V1807B and V1605B APU	Intel® Atom® x5-E3940
CPU Socket			LGA1151	Onboard	Onboard
Core Logic Chipset			Intel® H310 Intel® Q370 (optional)	SoC integrated	SoC integrated
Memory Type			DDR4-2666	DDR4-3200/2400	DDR3L-1867
Max. DRAM Capacity			16GB	16GB	8GB
Cache RAM Capacity			Integrated in CPU	Integrated in CPU	Integrated in CPU
BIOS			AMI UEFI BIOS	AMI UEFI BIOS	AMI UEFI BIOS
Watchdog Timer			255 Levels, 1 to 255 sec.	255 Levels, 1 to 255 sec.	65536 levels, 1 to 65535 sec.
SSD			1 x mSATA (optional)	1 x M.2 Key B 22 x 42	N/A
Digital I/O			8 channels in/out programmable	8 channels in/out programmable	8 channels in/out programmable
I/O	**SATA**		2 x SATA-600	1 x SATA-600	1 x SATA-600
	Serial	**COM 1**	RS-232/422/485	RS-232/422/485	RS-232/422/485
		COM 2	N/A	RS-232	RS-232/422/485
		COM 3	N/A	N/A	RS-232
		COM 4	N/A	N/A	RS-232
	USB		3 x USB 2.0 3 x USB 3.0	2 x USB 2.0 2 x USB 3.1 Gen2	2 x USB 2.0 4 x USB 3.0
SIM Card Slot			N/A	N/A	Yes
Display			1 x DisplayPort 1 x HDMI 1 x LVDS	1 x DisplayPort 2 x HDMI 1 x LVDS	1 x HDMI 1 x LVDS 1 x VGA (optional) 1 x eDP (optional)
Ethernet			3 x 10/100/1000 Mbps Ethernet	4 x 10/100/1000 Mbps Ethernet	2 x 10/100/1000 Mbps Ethernet
Audio			HD audio link	HD audio link	HD Codec
Hardware Monitoring			Yes	Yes	Yes
SMBus			Yes	Yes	Yes
Expansion Interface			1 x Full-size PCI Express Mini Card slot 1 x USB, 1 x PCIe x1, 1 x LPC, 1 x SMBus (through a ZIO connector)	1 x M.2 Key E 22 x 30	1 x Full-size PCI Express Mini Card slot with mSATA supported 1 x Full-size PCI Express Mini Card slot 1 x SIM slot
Power Management			ACPI	ACPI	ACPI
Battery			Lithium	Lithium	Lithium
Operating Temperature			-20°C to +60°C (-4°F to +140°F)	-20°C to +60°C (-4°F to 140°F)	-40°C to +80°C (-40°F to 176°F)
Relative Humidity			10% to 95%, non-condensing	10% to 95%, non-condensing	10% to 95%, non-condensing
EMI Compliance			CE	CE	CE

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Features\Models			CAPA84R
Form Factor			3.5"
CPU Level			Intel® Celeron® J1900/J1800
CPU Socket			Onboard
Core Logic Chipset			SoC integrated
Memory Type			DDR3L-1333
Max. DRAM Capacity			8GB
Cache RAM Capacity			Integrated in CPU
BIOS			AMI UEFI BIOS
Watchdog Timer			255 Levels, 1 to 255 sec.
SSD			1 x M.2 Key B 22 x 42
Digital I/O			8-channel in/out programmable
I/O	SATA		1 x SATA-300
	Serial	COM 1	RS-232/422/485
		COM 2	RS-232
		COM 3	N/A
		COM 4	N/A
	USB		2 x USB 2.0 1 x USB 3.0
SIM Card Slot			N/A
Display			1 x DisplayPort 1 x LVDS 1 x VGA
Ethernet			3 x 10/100/1000 Mbps Ethernet
Audio			HD Codec
Hardware Monitoring			Yes
SMBus			Yes
Expansion Interface			1 x M.2 Key E 22 x 30
Power Management			ACPI
Battery			Lithium
Operating Temperature			-20°C to +70°C (-4°F to +158°F)
Relative Humidity			10% to 95%, non-condensing
EMI Compliance			CE

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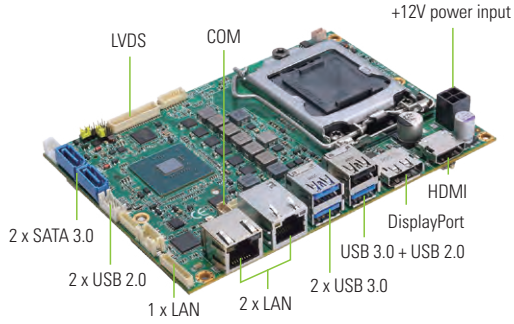
CAPA520 NEW

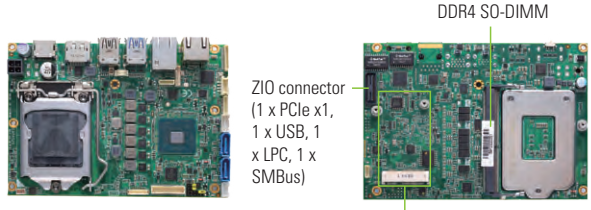
3.5" Embedded SBC with LGA1151Socket 9th/8th Gen Intel® Core™ i7/i5/i3, Pentium® & Celeron® Processor, DisplayPort, HDMI, LVDS and 3 GbE LAN

Features

- LGA1151 socket 9th/8th gen Intel® Core™ i7/i5/i3 processor
- Intel® H310 chipset (Q370 optional)
- 1 DDR4 SO-DIMM for up to 16GB of memory
- 3 GbE LAN
- 1 PCI Express Mini Card slot
- Intel® AMT 11 supported (optional)







▲ Top view ▲ Rear view



▲ Assembly View

Core System

CPU	LGA1151 socket 9th/8th Gen Intel® Core™ i7/i5/i3, Pentium® & Celeron® processor (TDP 35W)
System Memory	1 x 260-pin DDR4-2666 SO-DIMM, up to 16GB
Chipset	Intel® H310 Intel® Q370 (optional)
BIOS	AMI
SSD	1 x mSATA (optional)
Watchdog Timer	255 levels, 1 to 255 sec.
Expansion Interface	1 x PCI Express Mini Card slot with mSATA supported 1 x USB, 1x PCIe x1, 1 x LPC, 1 x SMBus through a ZIO connector
Battery Lithium	Lithium 3V/220 mAh
Power Input	2 x 2-pin connector +12V DC-in only AT Auto Power On function supported
Dimensions	146 x 104 mm
Board Thickness	1.6 mm
Operating Temperature	-20°C to +60°C (-4°F to 140°F)
Humidity	10% to 95% relative humidity, non-condensing

I/O

SATA	2 x SATA-600
Hardware Monitoring	Detect CPU/system temperature, voltage and fan speed
Ethernet	1 x 10/100/1000 Mbps Ethernet with Intel® i211-AT; supports Wake-on-LAN, PXE Boot ROM 1 x 10/100/1000 Mbps Ethernet with Intel® i219-LM; supports Wake-on-LAN, PXE Boot ROM 1 x 10/100/1000 Mbps Ethernet with Intel® i211-AT; supports Wake-on-LAN, PXE Boot ROM (optional)
Audio	HD Audio link
USB	3 x USB 3.0 3 x USB 2.0
Serial	1 x RS-232/422/485
TPM	N/A
SMBus	Yes
Digital I/O	8-channel in/out programmed

Display

Chipset	Intel integrated Gfx graphic engine
Memory Size	Share System memory
Display Interface	1 x HDMI 1 x LVDS; 18/24-bit single/dual channel 1 x DisplayPort

Ordering Information

Standard	
CAPA520PHGG-H310-ZIO	3.5" Embedded SBC with LGA1151, Intel® H310 chipset, DisplayPort, HDMI, LVDS, 2 GbE LAN and ZIO
Optional	
CAPA520PHGG-Q370-ZIO	3.5" Embedded SBC with LGA1151, Intel® Q370 chipset, DisplayPort, HDMI, LVDS, 2 GbE LAN and ZIO
CAPA520PH3G-H310-ZIO	3.5" Embedded SBC with LGA1151, Intel® H310 chipset, DisplayPort, HDMI, LVDS, 3 GbE LAN and ZIO
CAPA520PH3G-Q370-ZIO	3.5" Embedded SBC with LGA1151, Intel® Q370 chipset, DisplayPort, HDMI, LVDS, 3 GbE LAN and ZIO
AX93262 (P/N: E393262100)	ZIO module for 2 RS-232/422/485, 2 RS-232, 1 PCI Express Mini Card slot
AX93285 (P/N: E393285100)	ZIO module for 2 RS-232, 32-bit programmable DIO
AX93291 (P/N: E393291100)	ZIO module for 2 RS-232, 2 GbE LAN
AX93295 (P/N: E393295100)	ZIO module for 2 isolated RS-232, 2 USB 3.0
AX93A22 (P/N: E393A22100)	HD codec audio board for Mic-in/Line-in/Line-out

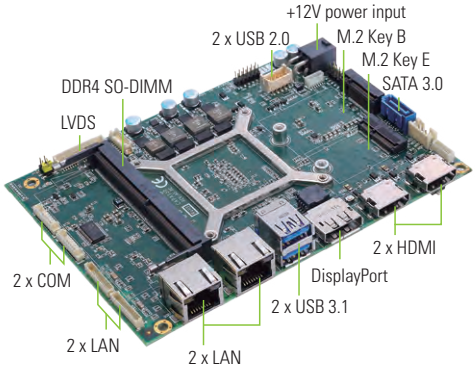
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CAPA13R NEW

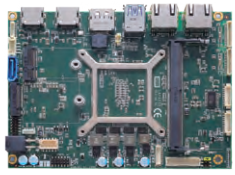
3.5" Embedded SBC with AMD® RYZEN™ Embedded V1807B/V1605B APU, DisplayPort, 2 HDMI, LVDS and 4 GbE LAN

Features

- AMD® RYZEN™ Embedded V1807B and V1605B APU
- 1 DDR4 SO-DIMM for up to 16GB of memory
- 4 GbE LAN
- Supports quad-view
- M.2 Key E
- M.2 Key B







▲ Top view



▲ Rear view



▲ Assembly View

Core System

CPU	AMD® RYZEN™ Embedded V1807B/V1605B APU onboard
System Memory	1 x 260-pin DDR4-2400 (V1605B), DDR4-3200 (V1807) SO-DIMM, up to 16GB
Chipset	SoC integrated
BIOS	AMI
SSD	1 x M.2 Key B (SATA, USB 2.0, PCIe x2 for optional) in 22x42 or 30x42
Watchdog Timer	255 levels, 1 to 255 sec.
Expansion Interface	1 x M.2 Key E (PCIex1, USB2.0) in 22x30
Battery Lithium	Lithium 3V/220 mAh
Power Input	2 x 2 pin connector +12V DC-in only AT Auto Power On function supported
Dimensions	146 x 104 mm
Board Thickness	1.6 mm
Operating Temperature	-20°C to +60°C (-4°F to 140°F)
Humidity	10% - 95% relative humidity, non-condensing

I/O

SATA	1 x SATA-600
Hardware Monitoring	Detect CPU/system temperature, voltage and fan speed
Ethernet	2 x10/100/1000 Mbps Ethernet with Realtek RTL8111G; support Wake-on-LAN, PXE Boot ROM 2 x10/100/1000 Mbps Ethernet with Realtek RTL8111G; support Wake-on-LAN, PXE Boot ROM (optional)
Audio	HD audio link
USB	2 x USB 2.0 2 x USB 3.1 Gen2
Serial	1 x RS-232/422/485 1 x RS-232
TPM	ST ST33HTPH2E32AHB4 with TPM 2.0 compliant
SMBus	Yes
Digital I/O	8-channel in/out programmed

Display

Chipset	AMD® Radeon™ RX Vega Graphics
Memory Size	Share System memory
Display Interface	1 x DisplayPort 2 x HDMI 1 x LVDS; 18/24-bit single/dual channel

Ordering Information

Standard	
CAPA13RPHGG-V1605B	3.5" Embedded SBC with AMD® RYZEN™ V1605B (2.0 - 3.6 GHz, 2MB Cache, 15W) DisplayPort, 2 HDMI, LVDS and 2 GbE LAN
CAPA13RPHGG-V1605B w/fan	3.5" Embedded SBC with AMD® RYZEN™ V1605B (2.0 - 3.6 GHz, 2MB Cache, 15W) DisplayPort, 2 HDMI, LVDS, 2 GbE LAN and fan
CAPA13RPHGG-V1807B	3.5" Embedded SBC with AMD® RYZEN™ V1807B (3.35 - 3.8 GHz, 2MB Cache, 45W) DisplayPort, 2 HDMI, LVDS and 2 GbE LAN
CAPA13RPHGG-V1807B w/fan	3.5" Embedded SBC with AMD® RYZEN™ V1807B (3.35 - 3.8 GHz, 2MB Cache, 45W) DisplayPort, 2 HDMI, LVDS, 2 GbE LAN and fan

Optional	
CAPA13RPH4G-V1605B	3.5" Embedded SBC with AMD® RYZENTM Embedded V1605B (2.0-3.6 GHz, 2MB Cache, 15W), DisplayPort, 2 HDMI, LVDS, and 4 GbE LAN
CAPA13RPH4G-V1605B w/heatsink	3.5" Embedded SBC with AMD® RYZENTM Embedded V1605B (2.0-3.6 GHz, 2MB Cache, 15W), DisplayPort, 2 HDMI, LVDS, 4 GbE LAN, and heatsink
CAPA13RPH4G-V1807B	3.5" Embedded SBC with AMD® RYZENTM Embedded V1807B (3.35-3.8 GHz, 2MB Cache, 45W), DisplayPort, 2 HDMI, LVDS, and 4 GbE LAN
CAPA13RPH4G-V1807B w/fan	3.5" Embedded SBC withAMD® RYZENTM Embedded V1807B (3.35-3.8 GHz, 2MB Cache, 45W), DisplayPort, 2 HDMI, LVDS, 4 GbE LAN, and fan
AX93A22 (P/N: E393A22100)	HD codec audio board for Mic-in/Line-in/Line-out
594H3186800E	Buzzer cable 9 x 55 mm 2-pin, L=400 mm

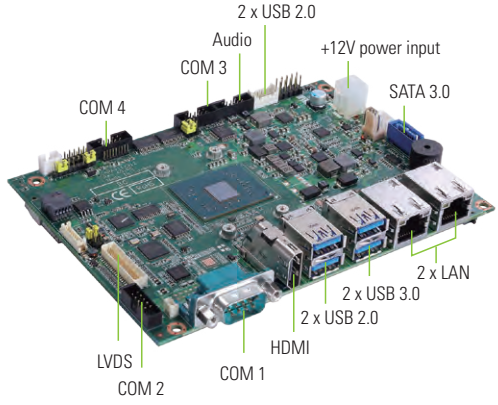
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CAPA311 NEW

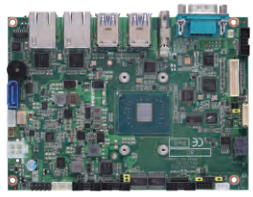
3.5" Embedded SBC with Intel® Atom® x5-E3940 Processor, HDMI, LVDS, 2 GbE LAN and Audio

Features

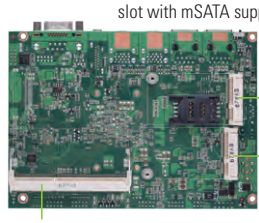
- Intel® Atom® x5-E3940 processor
- 1 DDR3L SO-DIMM for up to 8GB of memory
- 2 USB 2.0 and 4 USB 3.0
- 2 full-size PCI Express Mini Card slots



Fanless | Low Power | +12V | AiRD | Full Solid Cap Design | DualView | DDR3L | PCIe Mini



▲ Top view



DDR3L SO-DIMM ▲ Rear view

Full-size PCI Express Mini Card slot with mSATA supported

Full-size PCI Express Mini Card slot

Core System

CPU	Intel® Atom® x5-E3940 processor onboard
System Memory	1 x 204-pin DDR3L-1867 SO-DIMM, up to 8GB
Chipset	SoC integrated
BIOS	AMI
SSD	N/A
Watchdog Timer	65536 levels, 1 to 65535 sec.
Expansion Interface	1 x Full-size PCI Express Mini Card slot with mSATA supported 1 x Full-size PCI Express Mini Card slot 1 x SIM slot
Battery Lithium	Lithium 3 V/220 mAh
Power Input	2 x 2-pin connector +12V DC-in only AT Auto Power On function supported
Power Requirements	TBC
Dimensions	146 x 104 mm
Board Thickness	1.6 mm
Operating Temperature	-40°C to +80°C (-40°F to +176°F)
Humidity	10% - 95% relative humidity, non-condensing

I/O

SATA	1 x SATA-600
Hardware Monitoring	Detect CPU/system temperature, voltage and fan speed
Ethernet	2 x 10/100/1000 Mbps Ethernet with Intel® i211-AT; support Wake-on-LAN, PXE Boot ROM
Audio	HD Codec audio as Mic-in/Line-in/Line-out with Realtek ALC662
USB	2 x USB 2.0 4 x USB 3.0
Serial	2 x RS-232/422/485 2 x RS-232
TPM	ST ST33TPM12LPC with TPM 1.2 compliant
SMBus	Yes; compatible with I^2C
Digital I/O	8-channel in/out programmable

Display

Chipset	Intel® integrated Gfx graphic engine
Memory Size	Share system memory
Display Interface	1 x HDMI 1 x LVDS; 18/24-bit single/dual channel 1 x VGA (optional) 1 x eDP (optional)

Ordering Information

Standard	
CAPA311HGGA-E3940	3.5" Embedded SBC with Intel® Atom® x5-E3940 processor (1.6 - 1.8 GHz, 2MB cache, 9.5W), HDMI, LVDS, 2 GbE LAN and audio

Optional	
59382620000E	1 x COM with bracket, P=2.0 mm, L=300 mm
59384500100E	Audio cable with bracket, P=2.0 mm, L=450 mm
59382631000E	2 x USB 2.0 wafer cable with bracket, 180 mm

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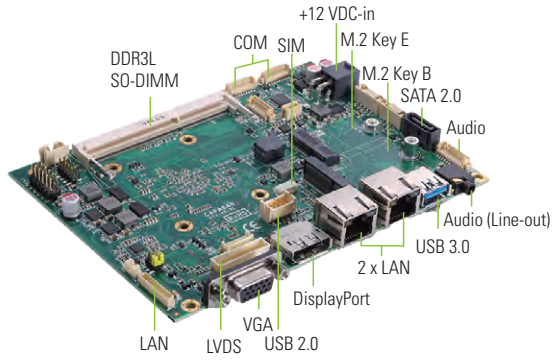
CAPA84R

3.5" Embedded SBC with Intel® Celeron® Processor J1900/J1800, DisplayPort, LVDS, VGA, 3 GbE LAN and Audio

Features

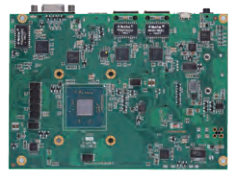
- Intel® Celeron® processor J1900/J1800
- 1 DDR3L SO-DIMM for up to 8GB of memory
- 2 USB 2.0 and 1 USB 3.0
- 3 GbE LAN
- M.2 Key E
- M.2 Key B







▲ Top view



▲ Rear view



▲ Assembly view

Core System

CPU	Intel® Celeron® processor J1900/J1800 onboard
System Memory	1 x 204-pin DDR3L-1333 SO-DIMM, up to 8GB
Chipset	SoC integrated
BIOS	AMI
SSD	1 x M.2 Key B (SATA, USB 2.0) in 22 x 42 or 30 x 42
Watchdog Timer	255 levels, 1 to 255 sec.
Expansion Interface	1 x M.2 Key E (PCIe x1) in 22 x 30
Battery Lithium	Lithium 3V/220 mAh
Power Input	2 x 2 pin connector +12V DC-in only AT Auto Power On function supported
Power Requirements	Intel® Celeron® J1900 @ 2 GHz 8GB DDR3L Max RMS: +12V @ 1.26A Intel® Celeron® J1800 @ 2.41 GHz 8GB DDR3L Max RMS: +12V @ 1.2A
Dimensions	146 x 104 mm
Board Thickness	1.6 mm
Operating Temperature	-20°C to +70°C (-4°F to 158°F)
Humidity	10% to 95% relative humidity, non-condensing

I/O

SATA	1 x SATA-300
Hardware Monitoring	Detect CPU/system temperature and voltage
Ethernet	2 x 10/100/1000 Mbps Ethernet with Intel® i211-AT; supports Wake-on-LAN, PXE Boot ROM 1 x 10/100/1000 Mbps Ethernet with Intel® i211-AT; supports Wake-on-LAN, PXE Boot ROM (optional)
Audio	HD Codec audio as MIC-in/Line-in/Line out with Realtek ALC662
USB	2 x USB 2.0 1 x USB 3.0
Serial	1 x RS-232/422/485 1 x RS-232
TPM	N/A
SMBus	Yes
Digital I/O	8-channel in/out programmed

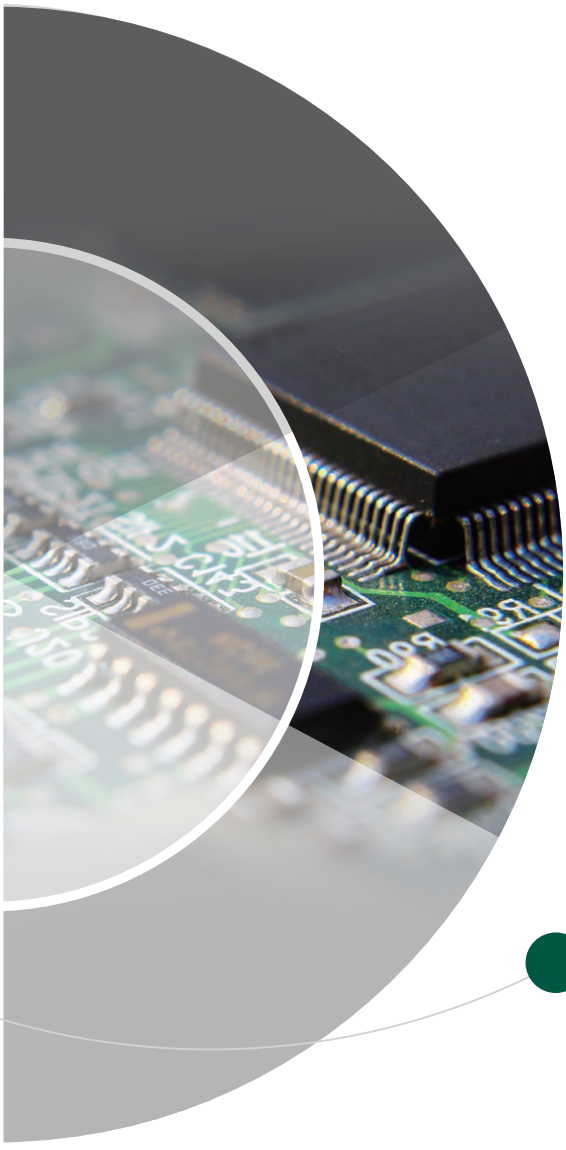
Display

Chipset	Intel® integrated Gfx graphic engine
Memory Size	Share system memory
Display Interface	1 x DisplayPort 1 x LVDS; 18/24-bit single/dual channel 1 x VGA

Ordering Information

Standard	
CAPA84RPGGA-J1900 (P/N: E38E84R102)	3.5" embedded SBC with Intel® Celeron® processor J1900 (2.0 to 2.5 GHz, 2MB Cache, 10W), DisplayPort, LVDS, VGA, 2 GbE LAN, and audio (without heatsink)
CAPA84RPGGA-J1900 with heatsink (P/N: E38E84R105)	3.5" embedded SBC with Intel® Celeron® processor J1900 (2.0 to 2.5 GHz, 2MB Cache, 10W), DisplayPort, LVDS, VGA, 2 GbE LAN, audio and heatsink
CAPA84RPGGA-J1800 (P/N: E38E84R103)	3.5" embedded SBC with Intel® Celeron® processor J1800 (2.41 to 2.58 GHz, 1MB Cache, 10W), DisplayPort, LVDS, VGA, 2 GbE LAN, and audio (without heatsink)
CAPA84RPGGA-J1800 with heatsink (P/N: E38E84R107)	3.5" embedded SBC with Intel® Celeron® processor J1800 (2.41 to 2.58 GHz, 1MB Cache, 10W), DisplayPort, LVDS, VGA, 2 GbE LAN, audio and heatsink
Optional	
CAPA84RP3GA-J1900 (P/N: E38E84R100)	3.5" embedded SBC with Intel® Celeron® processor J1900 (2.0 to 2.5 GHz, 2MB Cache, 10W), DisplayPort, LVDS, VGA, 3 GbE LAN, audio and AX93287 (without heatsink)
CAPA84RP3GA-J1900 with heatsink (P/N: E38E84R104)	3.5" embedded SBC with Intel® Celeron® processor J1900 (2.0 to 2.5 GHz, 2MB Cache, 10W), DisplayPort, LVDS, VGA, 3 GbE LAN, audio, AX93287 and heatsink
CAPA84RP3GA-J1800 (P/N: E38E84R101)	3.5" embedded SBC with Intel® Celeron® processor J1800 (2.41 to 2.58 GHz, 1MB Cache, 10W), DisplayPort, LVDS, VGA, 3 GbE LAN, audio and AX93287 (without heatsink)
CAPA84RP3GA-J1800 with heatsink (P/N: E38E84R106)	3.5" embedded SBC with Intel® Celeron® processor J1800 (2.41 to 2.58 GHz, 1MB Cache, 10W),DisplayPort, LVDS, VGA, 3 GbE LAN, audio, AX93287 and heatsink
7128E84R000E	Heatspreader
59312260020E	Audio cable with bracket, P=1.25 mm, L=450 mm
59380880250E	COM port cable DB9-9 x 1-pin, P=1.25, L=250 mm
59382631000E	2 x USB 2.0 cable with bracket, L=180 mm
594P8800600E	SATA power cable
E393A19100	AX93A19 SIM card slot board

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System on Modules

3.5" Embedded Boards

Pico-ITX SBCs

Mini-ITX Motherboards

ATX/Mirco ATX Motherboards

Slot CPU Cards

ARM-based Embedded Boards

Smart Display Modules

PCI Express Cards

Boards and Modules

3 Pico-ITX SBCs

The Pico-ITX SBC is the world's smallest x86 embedded board, measured at the size of 100 mm x 72 mm only. The Pico-ITX SBC provides system developers and OEMs with an ultra compact yet highly integrated platforms that deliver excellent computing performance at remarkably low power consumption. For car PCs, in-flight entertainment systems, industrial automation systems and even portable devices, the Pico-ITX SBC meets customer's demands in compact-size, fanless operation, low power consumption and versatile I/O.

	Selection Guide		61
NEW	PICO51R	Pico-ITX SBC with 7th Gen Intel® Core™ i7/i5/i3 and Celeron® Processor, DisplayPort, LVDS and 2 GbE LAN	63
NEW	PICO50R	Pico-ITX SBC with 6th Gen Intel® Core™ i7/i5/i3 and Celeron® Processor, DisplayPort, LVDS and 2 GbE LAN	64
NEW	PICO317	Pico-ITX SBC with Intel® Atom® x5-E3940 Processor, HDMI, LVDS, GbE LAN and Audio	65
	PICO318	Pico-ITX SBC with Intel® Pentium® Processor N4200/Celeron® Processor N3350, DisplayPort, LVDS, 2 GbE LAN and Audio	66
NEW	PICO319	Pico-ITX SBC with Intel® Atom® x5-E3940 Processor, DisplayPort, LVDS, 2 GbE LAN and Audio	67

Boards and Modules

Pico-ITX SBCs

Selection Guide

NEW



NEW



NEW



Features \ Models			PICO51R	PICO50R	PICO317
Form Factor			Pico-ITX	Pico-ITX	Pico-ITX
CPU Level			7th gen Intel® Core™ i7/i5/i3 & Celeron®	6th gen Intel® Core™ i7/i5/i3 & Celeron®	Intel® Atom® x5-E3940
CPU Socket			Onboard	Onboard	Onboard
Core Logic Chipset			SoC integrated	SoC integrated	SoC integrated
Memory Type			DDR4-2133	DDR4-2133	DDR3L-1867
Max. DRAM Capacity			16GB	16GB	8GB
Cache RAM Capacity			Integrated in CPU	Integrated in CPU	Integrated in CPU
BIOS			AMI UEFI BIOS	AMI UEFI BIOS	AMI UEFI BIOS
Watchdog Timer			65536 levels, 1 to 65535 sec.	65536 levels, 1 to 65535 sec.	65536 levels, 1 to 65535 sec.
SSD			1 x M.2 Key B 22 x 42	1 x M.2 Key B 22 x 42	N/A
Digital I/O			4-channel in/out programmable	4-channel in/out programmable	N/A
I/O	**SATA**		N/A	N/A	1 x SATA-600
	Serial	**COM 1**	RS-232/422/485	RS-232/422/485	RS-232
		COM 2	RS-232/422/485	RS-232/422/485	RS-232
	USB		2 x USB 3.0 2 x USB 2.0	2 x USB 3.0 2 x USB 2.0	3 x USB 3.0 2 x USB 2.0
SIM Card Slot			N/A	N/A	N/A
Display			1 x DisplayPort 1 x LVDS	1 x DisplayPort 1 x LVDS	1 x HDMI 1 x LVDS
Ethernet			2 x 10/100/1000 Mbps Ethernet	2 x 10/100/1000 Mbps Ethernet	1 x 10/100/1000 Mbps Ethernet
Audio			N/A	N/A	HD Codec
Hardware Monitoring			Yes	Yes	Yes
SMBus			Yes	Yes	Yes
Expansion Interface			1 x M.2 Key E 22 x 30	1 x M.2 Key E 22 x 30	1 x Full-size PCI Express Mini Card slot with mSATA supported
Power Management			ACPI	ACPI	ACPI
Battery			Lithium	Lithium	Lithium
Operating Temperature			-20°C to +60°C (-4°F to +140°F)	-20°C to +60°C (-4°F to +140°F)	-40°C to +70°C (-40°F to +158°F)
Relative Humidity			10% - 95%, non-condensing	10% - 95%, non-condensing	10% - 95%, non-condensing
EMI Compliance			CE	CE	CE

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NEW



Features\Models			PICO318	PICO319
Form Factor			Pico-ITX	Pico-ITX
CPU Level			Intel® Pentium® N4200/ Celeron® N3350	Intel® Atom® x5-E3940
CPU Socket			Onboard	Onboard
Core Logic Chipset			SoC integrated	SoC integrated
Memory Type			DDR3L-1867	DDR3L-1867
Max. DRAM Capacity			8GB	8GB
Cache RAM Capacity			Integrated in CPU	Integrated in CPU
BIOS			AMI UEFI BIOS	AMI UEFI BIOS
Watchdog Timer			65536 levels, 1 to 65535 sec.	65536 levels, 1 to 65535 sec.
SSD			1 x M.2 Key B 22 x 42	1 x M.2 Key B 22 x 42
Digital I/O			4-channel in/out programmable	4-channel in/out programmable
I/O	**SATA**		N/A	N/A
	Serial	**COM 1**	RS-232/422/485	RS-232/422/485
		COM 2	RS-232	RS-232
	USB		2 x USB 3.0 2 x USB 2.0	2 x USB 3.0 2 x USB 2.0
SIM Card Slot			N/A	N/A
Display			1 x DisplayPort 1 x LVDS	1 x DisplayPort 1 x LVDS
Ethernet			2 x 10/100/1000 Mbps Ethernet	2 x 10/100/1000 Mbps Ethernet
Audio			HD Codec	HD Codec
Hardware Monitoring			Yes	Yes
SMBus			Yes	Yes
Expansion Interface			1 x Half-size PCI Express Mini Card slot with mSATA supported	1 x Half-size PCI Express Mini Card slot with mSATA supported
Power Management			ACPI	ACPI
Battery			Lithium	Lithium
Operating Temperature			-20°C to +60°C (-4°F to +140°F)	-40°C to +70°C (-40°F to +158°F)
Relative Humidity			10% - 95%, non-condensing	10% - 95%, non-condensing
EMI Compliance			CE	CE

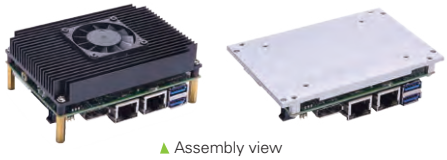
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PICO51R NEW

Pico-ITX SBC with 7th Gen Intel® Core™ i7/i5/i3 and Celeron® Processor, DisplayPort, LVDS and 2 GbE LAN

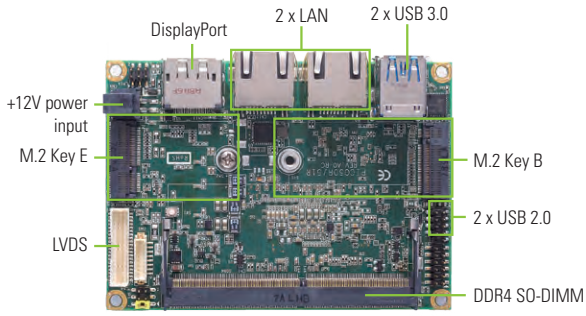
Features

- 7th generation Intel® Core™ i7/i5/i3 and Celeron® processor
- 1 DDR4 SO-DIMM for up to 16GB of memory
- 2 GbE LAN
- M.2 Key E
- M.2 Key B
- Intel® AMT 11 supported



▲ Assembly view







▲ Side view



▲ Rear view

Core System

CPU	7th gen Intel® Core™ i7/i5/i3 and Celeron® processor onboard
System Memory	1 x 260-pin DDR4-2133 SO-DIMM, up to 16GB
Chipset	SoC integrated
BIOS	AMI
SSD	Refer to ordering information
Watchdog Timer	65535 levels, 1 to 65536 sec.
Expansion Interface	1 x M.2 Key E (PCIe x1, USB 2.0 in 22x30)
Battery Lithium	Lithium 3V/220 mAh
Power Input	2 x 2-pin connector +12V DC-in only AT Auto Power On function supported
Power Requirements	Intel® i7-7600U @2.8 GHz 8GB DDR4 max. RMS. +12V@3.2A Intel® i5-7300U @2.6 GHz 8GB DDR4 max. RMS. +12V@2.6A Intel® i3-7100U @2.4 GHz 8GB DDR4 max. RMS. +12V@2.3A Intel® Celeron® 3965U @2.2 GHz 8GB DDR4 max. RMS. +12V@1.6A
Dimensions	100 x 72 mm
Board Thickness	1.6 mm
Operating Temperature	-20°C to +60°C (-4°F to 140°F)
Humidity	10% to 95% relative humidity, non-condensing

I/O

SATA	Refer to ordering information
Hardware Monitoring	Detect CPU/system temperature, voltage and fan speed
Ethernet	1 x 10/100/1000 Mbps Ethernet with Intel® i219-LM; supports Wake-on-LAN, PXE Boot ROM 1 x 10/100/1000 Mbps Ethernet with Intel® i211-AT; supports Wake-on-LAN, PXE Boot ROM
Audio	Refer to ordering information
USB	2 x USB 2.0 2 x USB 3.0
Serial	2 x RS-232/422/485
TPM	N/A
SMBus	Yes; compatible with I^2C
Digital I/O	4-channel in/out programmable

Display

Chipset	Intel® HD Graphics
Memory Size	Share system memory
Display Interface	1 x DisplayPort 1 x LVDS; 18/24-bit single/dual channel

Packing List

Accessories	
594H3160400E	Power cable, L=100 mm

Ordering Information

Standard

Model	SSD	SATA	Audio	Fan
PICO51RPGG-i7-7600U (P/N: E38H51R100)	1 x M.2 Key B (SATA, USB 2.0, PCIe x2 optional) in 22x42	N/A	N/A	No
PICO51RPGG-i5-7300U (P/N: E38H51R102)	1 x M.2 Key B (SATA, USB 2.0, PCIe x2 optional) in 22x42	N/A	N/A	No
PICO51RPGG-i3-7100U (P/N: E38H51R103)	1 x M.2 Key B (SATA, USB 2.0, PCIe x2 optional) in 22x42	N/A	N/A	No
PICO51RPGG-Celeron-3965U (P/N: E38H51R101)	1 x M.2 Key B (SATA, USB 2.0, PCIe x2 optional) in 22x42	N/A	N/A	No

Optional

Model	SSD	SATA	Audio	Fan
PICO51RPGG-i7-7600U w/fan (P/N: E38H51R104)	1 x M.2 Key B (SATA, USB 2.0, PCIe x2 optional) in 22x42	N/A	N/A	Yes
PICO51RPGG-i5-7300U w/fan (P/N: E38H51R106)	1 x M.2 Key B (SATA, USB 2.0, PCIe x2 optional) in 22x42	N/A	N/A	Yes
PICO51RPGG-i3-7100U w/fan (P/N: E38H51R107)	1 x M.2 Key B (SATA, USB 2.0, PCIe x2 optional) in 22x42	N/A	N/A	Yes
PICO51RPGG-Celeron-3965U w/fan (P/N: E38H51R105)	1 x M.2 Key B (SATA, USB 2.0, PCIe x2 optional) in 22x42	N/A	N/A	Yes
PICO51RPGGA-i7-7600U w/fan (P/N: E38H51R108)	N/A	1 x SATA-600	Mic-in/Line-out	Yes
PICO51RPGGA-i5-7300U w/fan (P/N: E38H51R110)	N/A	1 x SATA-600	Mic-in/Line-out	Yes
PICO51RPGGA-i3-7100U w/fan (P/N: E38H51R111)	N/A	1 x SATA-600	Mic-in/Line-out	Yes
PICO51RPGGA-Celeron-3965U w/fan (P/N: E38H51R109)	N/A	1 x SATA-600	Mic-in/Line-out	Yes
7128H51R000E	Heatspreader			
594H3180400E	DC power cable for adapter, L=180 mm			
50966124050E	Adapter 12V 60W FSP060-DHAN3 with screw			
59380880250E	COM port cable DB9--9x1P, P=125 mm, L=250 mm			
594H51R2800E	USB cable 2 x 5P-cut P9 P2.0/2 x USB-4P, L=180 mm			

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PICO50R NEW

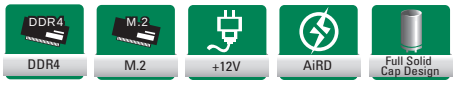
Pico-ITX SBC with 6th Gen Intel® Core™ i7/i5/i3 and Celeron® Processor, DisplayPort, LVDS and 2 GbE LAN

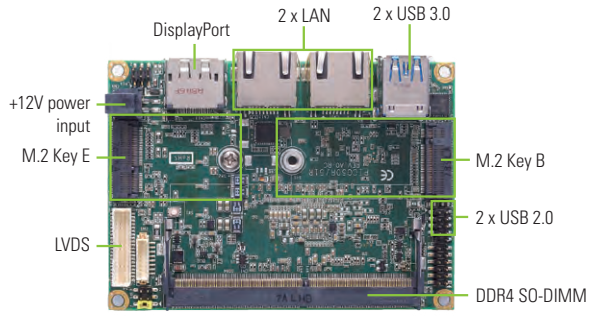
Features

- 6th gen Intel® Core™ i7/i5/i3 and Celeron® processor
- 1 DDR4 SO-DIMM for up to 16GB of memory
- 2 GbE LAN
- M.2 Key E
- M.2 Key B
- Intel® AMT 11 supported



▲ Assembly view







▲ Side view



▲ Rear view

Core System

CPU	6th gen Intel® Core™ i7/i5/i3 and Celeron® processor onboard
System Memory	1 x 260-pin DDR4-2133 SO-DIMM, up to 16GB
Chipset	SoC integrated
BIOS	AMI
SSD	Refer to ordering information
Watchdog Timer	65535 levels, 1 to 65536 sec.
Expansion Interface	1 x M.2 Key E (PCIe x1, USB 2.0 in 22x30)
Battery Lithium	Lithium 3V/220 mAh
Power Input	2 x 2-pin connector +12V DC-in only AT Auto Power On function supported
Power Requirements	Intel® i7-6600U @2.6 GHz 8GB DDR4 max. RMS. +12V@2.8A Intel® i5-6300U @2.4 GHz 8GB DDR4 max. RMS. +12V@2.5A Intel® i3-6100U @2.3 GHz 8GB DDR4 max. RMS. +12V@2.3A Intel® Celeron® 3955U @2.0 GHz 8GB DDR4 max. RMS. +12V@1.9A
Dimensions	100 x 72 mm
Board Thickness	1.6 mm
Operating Temperature	-20°C to +60°C (-4°F to 140°F)
Humidity	10% to 95% relative humidity, non-condensing

I/O

SATA	Refer to ordering information
Hardware Monitoring	Detect CPU/system temperature, voltage and fan speed
Ethernet	1 x 10/100/1000 Mbps Ethernet with Intel® i219-LM; supports Wake-on-LAN, PXE Boot ROM 1 x 10/100/1000 Mbps Ethernet with Intel® i211-AT; supports Wake-on-LAN, PXE Boot ROM
Audio	Refer to ordering information
USB	2 x USB 2.0 2 x USB 3.0
Serial	2 x RS-232/422/485
TPM	N/A
SMBus	Yes; compatible with I^2C
Digital I/O	4-channel in/out programmable

Display

Chipset	Intel® HD Graphics
Memory Size	Share system memory
Display Interface	1 x DisplayPort 1 x LVDS; 18/24-bit single/dual channel

Packing List

Accessories	
594H3160400E	Power cable, L=100 mm

Ordering Information

Standard

Model	SSD	SATA	Audio	Fan
PICO50RPGG-i7-6600U (P/N: E38H50R100)	1 x M.2 Key B (SATA, USB 2.0, PCIex2 optional) in 22x42	N/A	N/A	No
PICO50RPGG-i5-6300U (P/N: E38H50R101)	1 x M.2 Key B (SATA, USB 2.0, PCIex2 optional) in 22x42	N/A	N/A	No
PICO50RPGG-i3-6100U (P/N: E38H50R102)	1 x M.2 Key B (SATA, USB 2.0, PCIex2 optional) in 22x42	N/A	N/A	No
PICO50RPGG-Celeron-3955U (P/N: E38H50R103)	1 x M.2 Key B (SATA, USB 2.0, PCIex2 optional) in 22x42	N/A	N/A	No

Optional

Model	SSD	SATA	Audio	Fan
PICO50RPGG-i7-6600U w/fan (P/N: E38H50R105)	1 x M.2 Key B (SATA, USB 2.0, PCIe x2 optional) in 22x42	N/A	N/A	Yes
PICO50RPGG-i5-6300U w/fan (P/N: E38H50R106)	1 x M.2 Key B (SATA, USB 2.0, PCIe x2 optional) in 22x42	N/A	N/A	Yes
PICO50RPGG-i3-6100U w/fan (P/N: E38H50R107)	1 x M.2 Key B (SATA, USB 2.0, PCIe x2 optional) in 22x42	N/A	N/A	Yes
PICO50RPGG-Celeron-3955U w/fan (P/N: E38H50R108)	1 x M.2 Key B (SATA, USB 2.0, PCIe x2 optional) in 22x42	N/A	N/A	Yes
PICO50RPGGA-i7-6600U w/fan (P/N: E38H50R109)	N/A	1 x SATA-600	Mic-in/Line-out	Yes
PICO50RPGGA-i5-6300U w/fan (P/N: E38H50R110)	N/A	1 x SATA-600	Mic-in/Line-out	Yes
PICO50RPGGA-i3-6100U w/fan (P/N: E38H50R111)	N/A	1 x SATA-600	Mic-in/Line-out	Yes
PICO50RPGGA-Celeron-3955U w/fan (P/N: E38H50R112)	N/A	1 x SATA-600	Mic-in/Line-out	Yes
7128H51R000E	Heatspreader			
594H3180400E	DC power cable for adapter, L=180 mm			
50966124050E	Adapter 12V 60W FSP060-DHAN3 with screw			
59380880250E	COM port cable DB9--9x1P, P=125 mm, L=250 mm			
594H51R2800E	USB cable 2 x 5P-cut P9 P2.0/2 x USB-4P, L=180 mm			

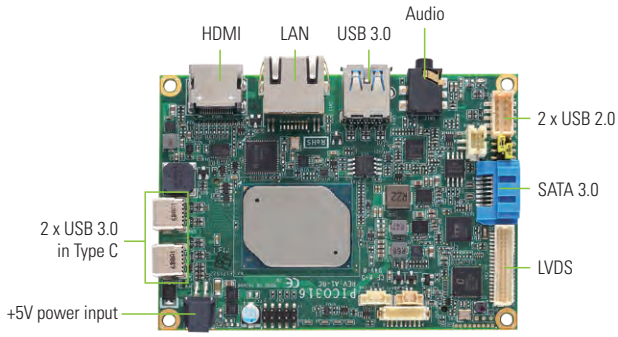
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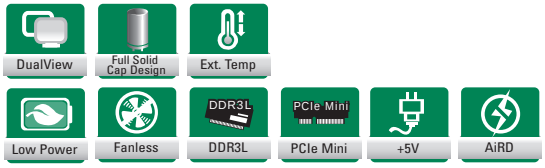
PICO317 NEW

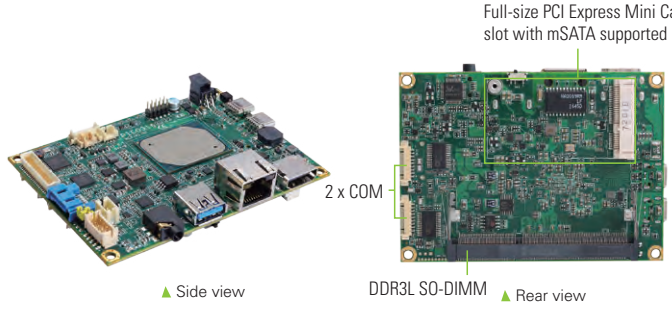
Pico-ITX SBC with Intel® Atom® x5-E3940 Processor, HDMI, LVDS, GbE LAN and Audio

Features

- Intel® Atom® x5-E3940 processor
- 1 DDR3L SO-DIMM for up to 8GB of memory
- 2 USB 2.0 and 3 USB 3.0
- 1 PCI Express Mini Card slot with mSATA supported







Core System

CPU	Intel® Atom® x5-E3940 Processor onboard
System Memory	1 x 204-pin DDR3L-1867 SO-DIMM, up to 8GB
Chipset	SoC integrated
BIOS	AMI
SSD	N/A
Watchdog Timer	65536 levels, 1 to 65535 sec.
Expansion Interface	1 x Full-size PCI Express Mini Card slot with mSATA supported
Battery Lithium	Lithium 3V/220 mAh
Power Input	2 x 2-pin connector +5V DC-in only AT Auto Power On function supported
Power Requirements	TBD
Dimensions	100 x 72 mm
Board Thickness	1.6 mm
Operating Temperature	-40°C to +70°C (-40°F to +158°F)
Humidity	10% to 95% relative humidity, non-condensing

I/O

SATA	1 x SATA-600
Hardware Monitoring	Detect CPU/system temperature and voltage
Ethernet	1 x 10/100/1000 Mbps Ethernet with Intel® i211-AT; supports Wake-on-LAN, PXE Boot ROM
Audio	HD Codec audio as Line-out with Realtek ALC662
USB	2 x USB 2.0 3 x USB 3.0
Serial	2 x RS-232
TPM	N/A
SMBus	Yes; compatible with I^2C
Digital I/O	N/A

Display

Chipset	Intel® integrated Gfx graphic engine
Memory Size	Share system memory
Display Interface	1 x HDMI 1 x LVDS; 18/24-bit single/dual channel

Packing List

Accessories	
594H3160400E	Power cable, L=100 mm

Ordering Information

Standard	
PICO317HGA-E3940	Pico-ITX SBC with Intel® Atom® x5-E3940 processor (1.6 - 1.8 GHz, 2MB cache, 9.5W), HDMI, LVDS, GbE LAN, 3 USB 3.0, and 2 USB 2.0 (without heatsink)

Optional	
PICO317HGA-E3940 70°C	Pico-ITX SBC with Intel® Atom® x5-E3940 processor (1.6 - 1.8 GHz, 2MB cache, 9.5W), HDMI, LVDS, GbE LAN, 3 USB 3.0 and 2 USB 2.0 with heatsink
59380880250E	COM port cable DB9-9 x 1P, P=1.25, L=250 mm
594H3160410E	Power cable for adapter, L=100 mm
7128H316000E	Heatspreader
5090BE26000E	5V/8A 40W adapter, 4-pin plug with lock

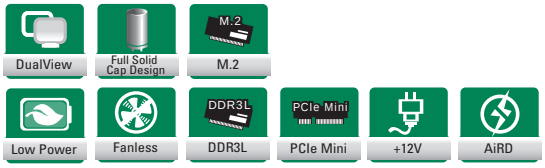
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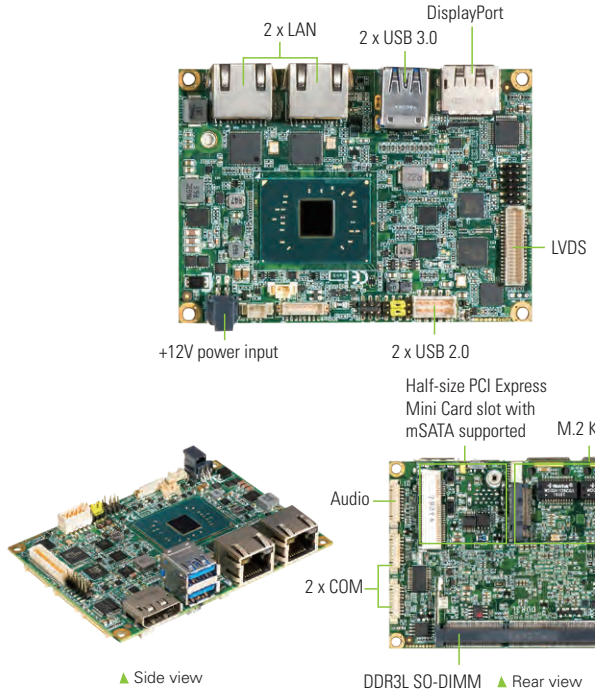
PICO318

Pico-ITX SBC with Intel® Pentium® Processor N4200/Celeron® Processor N3350, DisplayPort, LVDS, 2 GbE LAN and Audio

Features

- Intel® Pentium® processor N4200/Celeron® processor N3350
- 1 DDR3L SO-DIMM for up to 8GB of memory
- 2 GbE LAN
- 1 PCI Express Mini Card slot with mSATA supported
- M.2 Key B





Core System

CPU	Intel® Pentium® processor N4200 & Celeron® processor N3350 onboard
System Memory	1 x 204-pin DDR3L-1867 SO-DIMM, up to 8GB
Chipset	SoC integrated
BIOS	AMI
SSD	1 x M.2 Key B (SATA, USB 2.0, PCIe x2 optional) in 22x42 or 30x42
Watchdog Timer	65536 levels, 1 to 65535 sec.
Expansion Interface	1 x Half-size PCI Express Mini Card slot with mSATA supported
Battery Lithium	Lithium 3V/220 mAh
Power Input	2 x 2-pin connector +12V DC-in only AT Auto Power On function supported
Power Requirements	Intel® Pentium® N4200 @ 1.1 GHz 8GB DDR3L Max RMS: +12V @1.3A Intel® Celeron® N3350 @ 1.1 GHz 8GB DDR3L Max RMS: +12V @1.1A
Dimensions	100 x 72 mm
Board Thickness	1.6 mm
Operating Temperature	-20°C to +60°C (-4°F to +140°F)
Humidity	10% to 95% relative humidity, non-condensing

I/O

SATA	N/A
Hardware Monitoring	Detect CPU/system temperature and voltage
Ethernet	2 x 10/100/1000 Mbps Ethernet with Intel® i211-AT; support Wake-on-LAN, PXE Boot ROM
Audio	HD Codec audio as Mic-in/Line-in/Line-out with Realtek ALC662
USB	2 x USB 2.0 2 x USB 3.0
Serial	1 x RS-232/422/485 1 x RS-232
TPM	N/A
SMBus	Yes; compatible with I^2C
Digital I/O	4-channel in/out programmable

Display

Chipset	Intel® integrated Gfx graphic engine
Memory Size	Share system memory
Display Interface	1 x DisplayPort 1 x LVDS; 18/24-bit single/dual channel

Packing List

Accessories	
594H3160400E	Power cable, L=100 mm

Ordering Information

Standard	
PICO318PGGA-N4200 (P/N: E38H318101)	Pico-ITX SBC with Intel® Pentium® processor N4200 (1.1 - 2.5 GHz, 2MB cache, 6W), DisplayPort, LVDS, 2 GbE LAN, 2 USB 2.0, and 2 USB 3.0 (without heatsink)
PICO318PGGA-N3350 (P/N: E38H318100)	Pico-ITX SBC with Intel® Celeron® processor N3350 (1.1 - 2.4 GHz, 2MB cache, 6W), DisplayPort, LVDS, 2 GbE LAN, 2 USB 2.0, and 2 USB 3.0 (without heatsink)

Optional	
PICO318PGGA-N3350 60°C (P/N: E38H318102)	Pico-ITX SBC with Intel® Celeron® processor N3350 (1.1 - 2.4 GHz, 2MB cache, 6W), DisplayPort, LVDS, 2 GbE LAN, 2 USB 2.0, 2 USB 3.0 and heatsink
PICO318PGGA-N4200 60°C (P/N:E38H318103)	Pico-ITX SBC with Intel® Pentium® processor N4200 (1.1 - 2.5 GHz, 2MB cache, 6W), DisplayPort, LVDS, 2 GbE LAN, 2 USB 2.0, 2 USB 3.0 and heatsink
7128H316000E	Heatspreader
594H3180400E	DC power cable for adapter, L=180 mm
50966124050E	Adapter 12V 60W FSP060-DHAN3 with screw
59312260020E	Audio cable with bracket, P=1.25 mm, L=450 mm
59380880250E	COM port cable DB9-9 x 1-pin, P=1.25 mm, L=250 mm
594E8422800E	2 x USB 2.0 cable with bracket, L=180 mm
594H3186800E	Buzzer cable 9 x 5.5 mm 2-pin, L=40mm
E393A19100	AX93A19 SIM card slot board

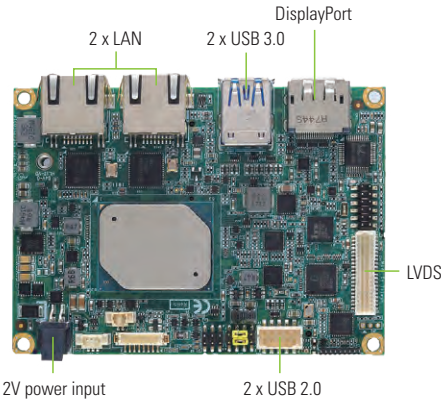
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PICO319 NEW

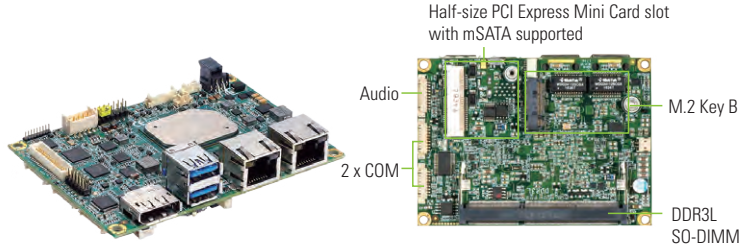
Pico-ITX SBC with Intel® Atom® x5-E3940 Processor, DisplayPort, LVDS, 2 GbE LAN and Audio

Features

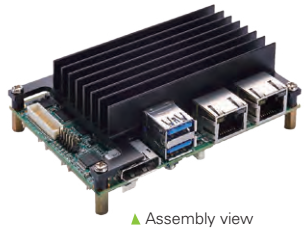
- Intel® Atom® x5-E3940 processor
- 1 DDR3L SO-DIMM for up to 8GB of memory
- 2 GbE LAN
- 1 PCI Express Mini card slot with mSATA supported
- Supports M.2 Key B



DualView | Full Solid Cap Design | M.2 | Ext. Temp | Low Power | Fanless | DDR3L | PCIe Mini | +12V | AiRD



▲ Side view ▲ Rear view



▲ Assembly view

Core System

CPU	Intel® Atom® x5-E3940 processor onboard
System Memory	1 x 204-pin DDR3L-1867 SO-DIMM, up to 8GB
Chipset	SoC integrated
BIOS	AMI
SSD	1 x M.2 Key B (SATA, USB 2.0, PCIe x2 optional) in 22x42 or 30x42
Watchdog Timer	65536 levels, 1 to 65535 sec.
Expansion Interface	1 x Half-size PCI Express Mini Card slot with mSATA supported
Battery Lithium	Lithium 3V/220 mAh
Power Input	2 x 2-pin connector +12V DC-in only AT Auto Power On function supported
Power Requirements	Intel® Atom® x5-E3940 @1.6 GHz 8GB DDR3L Max RMS: +12V @1.3A
Dimensions	100 x 72 mm
Board Thickness	1.6 mm
Operating Temperature	-40°C to +70°C (-40°F to 158°F)
Humidity	10% to 95% relative humidity, non-condensing

I/O

SATA	N/A
Hardware Monitoring	Detect CPU/system temperature and voltage
Ethernet	2 x 10/100/1000 Mbps Ethernet with Intel® i211-AT; support Wake-on-LAN, PXE Boot ROM
Audio	HD Codec audio as MIC-in/Line-in/Line out with Realtek ALC662
USB	2 x USB 2.0 2 x USB 3.0
Serial	1 x RS-232/422/485 1 x RS-232
TPM	N/A
SMBus	Yes; compatible with I^2C
Digital I/O	4-channel in/out programmed

Display

Chipset	Intel® integrated Gfx graphic engine
Memory Size	Share system memory
Display Interface	1 x DisplayPort 1 x LVDS; 18/24-bit single/dual channel

Packing List

Accessories	
594H3160400E	Power cable, L=100 mm

Ordering Information

Standard	
PICO319PGGA-E3940 (P/N: E38H319100)	Pico-ITX SBC with Intel® Atom® x5-E3940 processor (1.6 - 1.8 GHz, 2MB cache, 9.5W), DisplayPort, LVDS, 2 GbE LAN, 2 USB 2.0, and 2 USB 3.0 (without heatsink)

Optional	
PICO319PGGA-E3940 70°C (P/N: E38H319101)	Pico-ITX SBC with Intel® Atom® x5-E3940 processor (1.6 - 1.8 GHz, 2MB cache, 9.5W), DisplayPort, LVDS, 2 GbE LAN, 2 USB 2.0, and 2 USB 3.0 (with heatsink)
7128H316000E	Heatspreader
594H3180400E	Power cable for adapter, L=180mm
50966124050E	Adapter 12V 60W FSP060-DHAN3 with screw
59312260020E	Audio cable with bracket, P=1.25 mm, L=450 mm
59380880250E	COM port cable DB9-9 x 1-pin, P=1.25 mm, L=250 mm
594E8422800E	2 x USB 2.0 cable with bracket, L=180 mm
594H3186800E	Buzzer cable 9 x 5.5 mm 2-pin, L=40 mm
E393A19100	AX93A19 SIM card slot board

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4 Mini-ITX Motherboards

Mini ITX motherboards are designed with rich functionality and reliable performance in a small footprint that measures just 170 x 170 mm. Mini ITX Motherboards provide greater flexibility for applications in which compact size and power-efficiency are required, such as kiosks, POS, lottery machines, gaming systems, factory automation, DSA, and more.

	Selection Guide		69
NEW	MANO524	Mini-ITX SBC with LGA1151 9th/8th Gen Intel® Core™ i7/i5/i3 Processor, HDMI, DisplayPort++, LVDS, USB 3.0, M.2 and Four GbE LAN	71
NEW	MANO523	Mini-ITX SBC with LGA1151 9th/8th Gen Intel® Core™ i7/i5/i3 Processor, DisplayPort++, VGA, eDP, USB 3.0, M.2 and Dual GbE LAN	72
	MANO521	Thin Mini-ITX SBC with LGA1151 9th/8th Gen Intel® Core™ i7/i5/i3 Processor, DisplayPort++, HDMI, LVDS, VGA, USB 3.0, M.2 and HD Audio	73
	MANO520	Mini-ITX SBC with LGA1151 9th/8th Gen Intel® Core™ i7/i5/i3 Processor, Dual DisplayPort++, HDMI, LVDS, USB 3.0, mSATA, M.2 and HD Audio	74
	MANO315	Mini-ITX SBC with Intel® Celeron® Processor J3355 VGA, HDMI, USB 3.0, PCI Express Mini Card Slot, mSATA and HD Audio	75

Boards and Modules

Mini-ITX Motherboards

Selection Guide

NEW



NEW





Features\Models			MANO524	MANO523	MANO521
Form Factor			Mini-ITX	Mini-ITX	Mini-ITX
CPU Level			9th/8th gen Intel® Core™ i7/i5/i3, Pentium® & Celeron®	9th/8th gen Intel® Core™ i7/i5/i3, Pentium® & Celeron®	9th/8th gen Intel® Core™ i7/i5/i3, Pentium® & Celeron®
CPU Socket			LGA1151	LGA1151	LGA1151
Core Logic Chipset			Intel® Q370	Intel® Q370	Intel® H310, Q370 (optional)
Memory Type			DDR4-2400/2666	DDR4-2400/2666	DDR4-2400/2666
Max. DRAM Capacity			32GB	32GB	32GB
Cache RAM Capacity			Integrated in CPU	Integrated in CPU	Integrated in CPU
BIOS			AMI	AMI	AMI
Watchdog Timer			255 levels, 1 to 255sec.	255 levels, 1 to 255sec.	255 levels, 1 to 255sec.
SSD			1 x M.2 Key B 1 x M.2 Key M	1 x M.2 Key M	1 x M.2 Key M
Digital I/O			8-in/out	8-in/out	8-in/out
I/O	**SATA**		2 x SATA-600	2 x SATA-600	2 x SATA-600
	Serial	**COM 1**	N/A	RS-232/422/485	RS-232/422/485
		COM 2	N/A	RS-232	RS-232
		COM 3	N/A	RS-232	N/A
		COM 4	N/A	RS-232	N/A
		COM 5	N/A	RS-232	N/A
		COM 6	N/A	RS-232	N/A
	USB		4 x USB 3.0 4 x USB 2.0	4 x USB 3.0 4 x USB 2.0	4 x USB 3.0 4 x USB 2.0
Display			1 x DisplayPort++ 1 x HDMI 1 x LVDS	1 x VGA 1 x DisplayPort++ 1 x eDP	1 x Display Port++ 1 x HDMI 1 x LVDS 1 x VGA 1 x eDP (optional)
Ethernet			4 x 10/100/1000 Mbps Ethernet	2 x 10/100/1000 Mbps Ethernet	2 x 10/100/1000 Mbps Ethernet
Audio			HD codec	HD codec	HD codec
Hardware Monitoring			Yes	Yes	Yes
Expansion Interface			1 x M.2 Key B 1 x PCIe x16	1 x M.2 Key E 1 x PCIe x16	1 x PCI Express Mini Card slot 1 x M.2 Key M 1 x M.2 Key E 1 x PCIe x4
Power Management			ACPI	ACPI	ACPI
Battery			Lithium	Lithium	Lithium
Operating Temperature			0°C to +60°C (+32°F to +140°F)	0°C to +60°C (+32°F to +140°F)	0°C to +60°C (+32°F to +140°F)
Relative Humidity			10% - 95%, non-condensing	10% - 95%, non-condensing	10% - 95%, non-condensing
EMI Compliance			CE	CE	CE

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Features\Models			MANO520	MANO315
Form Factor			Mini-ITX	Mini-ITX
CPU Level			9th/8th gen Intel® Core™ i7/i5/i3, Pentium® & Celeron®	Intel® Celeron® J3355
CPU Socket			LGA1151	Onboard
Core Logic Chipset			Intel® H310, Q370 (optional)	SoC integrated
Memory Type			DDR4-2400/2666	DDR3L-1867
Max. DRAM Capacity			32GB	8GB
Cache RAM Capacity			Integrated in CPU	Integrated in CPU
BIOS			AMI	AMI
Watchdog Timer			255 levels, 1 to 255sec.	255 levels, 1 to 255sec.
SSD			1 x mSATA	1 x mSATA
Digital I/O			8-in/out	N/A
I/O	**SATA**		3 x SATA-600	1 x SATA-600
	Serial	**COM 1**	RS-232/422/485	RS-232
		COM 2	RS-232	RS-232
		COM 3	RS-232	RS-232
		COM 4	RS-232	RS-232
		COM 5	N/A	N/A
		COM 6	N/A	N/A
	USB		4 x USB 3.0 4 x USB 2.0	2 x USB 3.0 4 x USB 2.0
Display			2 x Display Port++ 1 x HDMI 1 x LVDS	1 x VGA 1 x HDMI
Ethernet			2 x 10/100/1000 Mbps Ethernet	2 x 10/100/1000 Mbps Ethernet
Audio			HD codec	HD codec
Hardware Monitoring			Yes	Yes
Expansion Interface			1 x M.2 Key E 1 x PCIe x16	1 x PCI Express Mini Card slot 1 x PCIe x1
Power Management			ACPI	ACPI
Battery			Lithium	Lithium
Operating Temperature			0°C to +60°C (+32°F to +140°F)	0°C to +60°C (+32°F to +140°F)
Relative Humidity			10% - 95%, non-condensing	10% - 95%, non-condensing
EMI Compliance			CE	CE

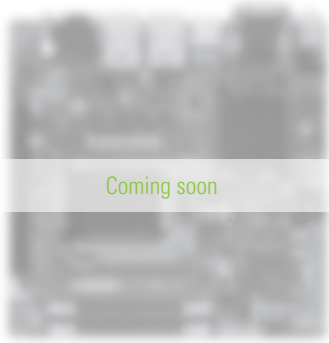
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MANO524 NEW

Mini-ITX SBC with LGA1151 9th/8th Gen Intel® Core™ i7/i5/i3 Processor, HDMI, DisplayPort++, LVDS, USB 3.0, M.2 and Four GbE LAN

Features

- LGA1151 9th/8th gen Intel® Core™ i7/i5/i3 processor
- Intel® Q370 chipset
- 2 DDR4 SO-DIMM for up to 32GB of memory
- 4 USB 3.0 and 4 USB 2.0
- 2 SATA-600 and M.2 Key B & Key M
- PCIe x16



Core System

CPU	LGA1151 9th/8th gen Intel® Core™ i7/i5/i3, Intel® Pentium® processors Gold/Celeron® processors (up to 65W)
System Memory	2 x 260-pin DDR4-2666/2400 SO-DIMM up to 32GB
Chipset	Intel® Q370
BIOS	AMI
SSD	1 x M.2 Key B 2242 1 x M.2 Key M 2242
Watchdog Timer	255 levels, 1 to 255 sec.
Expansion Interface	1 x PCIe x16
Battery Lithium	Lithium 3V/220mAH
Power Input	DC Power Jack connector 12 VDC input (optional) ATX 2 x 2-pin connector support AT Auto Power On function supported
Dimensions	170 x 170 mm
Board Thickness	1.6 mm
Operating Temperature	0°C to +60°C (+32°F to +140°F)
Humidity	10% - 95% relative humidity, non-condensing

I/O

SATA	2 x SATA-600
Hardware Monitoring	Detect CPU/system temperature, voltage and fan speed
Ethernet	3 x 10/100/1000 Mbps Ethernet with Intel® i211-AT; support Wake-on-LAN, PXE Boot ROM 1 x 10/100/1000 Mbps Ethernet with Intel® i219-LM; supports Wake-on-LAN, PXE Boot ROM
Audio	HD Codec audio as MIC-in/Line-in/Line-out with Realtek ALC662 (Internal Connector)
USB	4 x USB 3.0 4 x USB 2.0
Serial	N/A
PS/2 Combo Port	N/A
TPM	N/A
SMBus	N/A
Digital I/O	8-channel in/out programmed

Display

Chipset	Intel® integrated Gfx graphic engine
Memory Size	Share system memory
Display Interface	1 x DisplayPort++ 1 x HDMI 1 x LVDS; 18/24-bit single/dual channel

Packing List

Standard
I/O bracket

Ordering Information

Standard	
MANO524HVGGA	Mini-ITX SBC with LGA1151 9th/8th gen Intel® Core™ processor, Intel® Q370, DisplayPort++, HDMI, LVDS, 4 GbE LAN and HD Audio, Gift Box

Optional	
594M5002100E	2 x COM port, P=2.0 mm, L=300 mm
59384500100E	SBC84500 audio cable with bracket, P=2.0 mm, L=420 mm
594E8422800E	2 x USB 2.0 wafer cable with bracket, P=2.0, L=180 mm

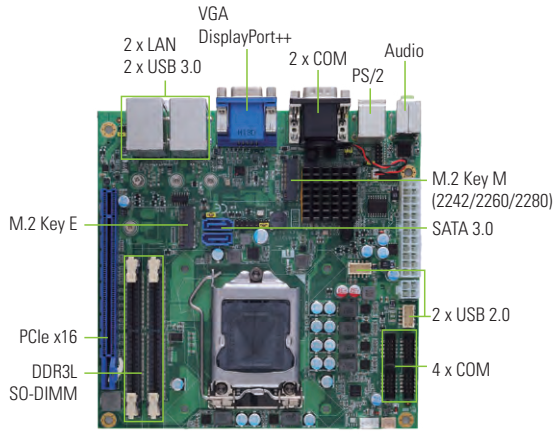
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MANO523 NEW

Mini-ITX SBC with LGA1151 9th/8th Gen Intel® Core™ i7/i5/i3 Processor, DisplayPort++, VGA, eDP, USB 3.0, M.2 and Dual GbE LAN

Features

- LGA1151 9th/8th gen Intel® Core™ i7/i5/i3 processor
- Intel® Q370 chipset
- 2 DDR4 SO-DIMM for up to 32GB of memory
- 4 USB 3.0 and 4 USB 2.0
- 6 COM ports
- 2 SATA-600 and 1 M.2 Key M
- PCIe x16 and M.2 Key E





▲ Rear view



▲ Side view

TripleView DDR4 M.2

Core System

CPU	LGA1151 9th/8th gen Intel® Core™ i7/i5/i3, Intel® Pentium® processors Gold/Celeron® processors (up to 65W)
System Memory	2 x 260-pin DDR4-2666/2400 SO-DIMM up to 32GB
Chipset	Intel® Q370
BIOS	AMI
SSD	1 x M.2 Key M (2242/2260/2280); supports NVMe
Watchdog Timer	255 levels, 1 to 255 sec.
Expansion Interface	1 x PCIe x16 1 x M.2 Key E (22 x 30)
Battery Lithium	Lithium 3V/220mAH
Power Input	STD 12V ATX power 24+4 pin ATX connector AT Mode Auto Power Function supported
Dimensions	170 x 170 mm
Board Thickness	1.6 mm
Operating Temperature	0°C to +60°C (+32°F to +140°F)
Humidity	10% to 95% relative humidity, non-condensing

I/O

SATA	2 x SATA-600
Hardware Monitoring	Detect CPU/system temperature, voltage and fan speed
Ethernet	1 x 10/100/1000 Mbps Ethernet with Intel® i211-AT; supports Wake-on-LAN, PXE Boot ROM 1 x 10/100/1000 Mbps Ethernet with Intel® i219-LM; supports Wake-on-LAN, PXE Boot ROM
Audio	HD Codec audio as MIC-in/Line-in/Line-out with Realtek ALC662
USB	4 x USB 3.0 4 x USB 2.0
Serial	1 x RS-232/422/485 (with +5V/+12V power) 5 x RS-232
PS/2 Combo Port	N/A
TPM	Onboard TPM 2.0
SMBus	N/A
Digital I/O	8-channel in/out programmed

Display

Chipset	Intel® integrated Gfx graphic engine
Memory Size	Share system memory
Display Interface	1 x DisplayPort++ 1 x HDMI 1 x eDP 1 x VGA

Packing List

Standard
I/O bracket

Ordering Information

Standard	
MANO523PVGGA-Q370	Mini-ITX SBC with LGA1151 9th/8th gen Intel® Core™ processor, Intel® Q370, VGA, DisplayPort++, HDMI, LVDS, 2 GbE LAN and HD Audio, Gift Box

Optional	
594M5002100E	2 x COM port, P=2.0 mm, L=300 mm
59384500100E	SBC84500 audio cable with bracket, P=2.0 mm, L=420 mm
594E8422800E	2 x USB 2.0 wafer cable with bracket, P=2.0, L=180 mm

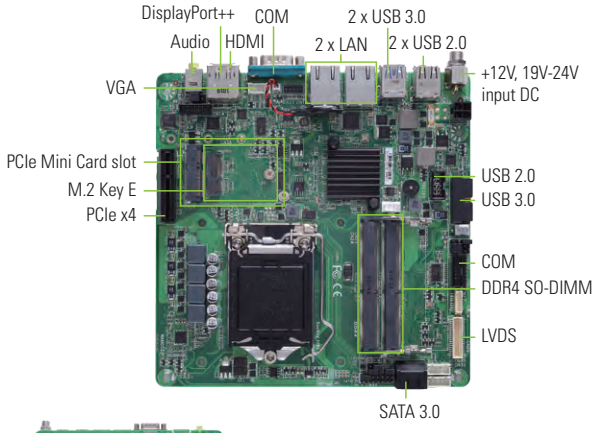
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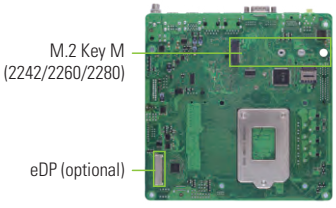
MANO521

Thin Mini-ITX SBC with LGA1151 9th/8th Gen Intel® Core™ i7/i5/i3 Processor, DisplayPort++, HDMI, LVDS, VGA, USB 3.0, M.2 and Dual GbE LAN

Features

- LGA1151 9th/8th gen Intel® Core™ i7/i5/i3 processor
- Intel® H310 chipset (Q370 optional)
- 2 DDR4 SO-DIMM for up to 32GB of memory
- 4 USB 3.0 and 4 USB 2.0 ports
- 2 COM ports
- 2 SATA-600 and M.2 Key M
- PCIe x4, M.2 Key E, PCI Express Mini Card slot





▲ Rear view



▲ Side view

TripleView | Thin | DDR4 | M.2 | PCIe Mini | 19- 24V

Core System

CPU	LGA1151 9th/8th gen Intel® Core™ i7/i5/i3, Intel® Pentium® processors Gold/Celeron® processors (up to 65W)
System Memory	2 x 260-pin DDR4-2666/2400 SO-DIMM, up to 32GB
Chipset	Intel® H310 Intel® Q370 (optional)
BIOS	AMI
SSD	1 x M.2 Key M (22 x 42/22 x 60/22 x 80)
Watchdog Timer	255 levels, 1 to 255 sec.
Expansion Interface	1 x PCIe x4 1 x M.2 Key E (22 x 30) 1 x Full-size PCI Express Mini Card slot
Battery Lithium	Lithium 3V/220mAH
Power Input	DC Power Jack connector ATX 2 x 2-pin vertical/horizontal(optional) connector support 12V, 19 to 24 VDC input AT Auto Power On function supported
Dimensions	170 x 170 mm
Board Thickness	1.6 mm
Operating Temperature	0°C to +60°C (+32°F to +140°F)
Humidity	10% - 95% relative humidity, non-condensing

I/O

SATA	2 x SATA-600
Hardware Monitoring	Detect CPU/system temperature, voltage and fan speed
Ethernet	1 x 10/100/1000 Mbps Ethernet with Intel® i211-AT; supports Wake-on-LAN, PXE Boot ROM 1 x 10/100/1000 Mbps Ethernet with Intel® i219-V (LM); supports Wake-on-LAN, PXE Boot ROM
Audio	HD Codec audio as MIC-in/Line-in/Line-out with Realtek ALC662
USB	4 x USB 3.0 4 x USB 2.0
Serial	1 x RS-232/422/485 1 x RS-232
PS/2 Combo Port	N/A
TPM	Infenon SLB9665TT2.0 with TPM 2.0 compliant
SMBus	N/A
Digital I/O	8-channel in/out programmed

Display

Chipset	Intel® integrated Gfx graphic engine
Memory Size	Share system memory
Display Interface	1 x DisplayPort++ 1 x HDMI 1 x LVDS; 18/24-bit single/dual channel 1 x VGA (Wafer connector) 1 x eDP (optional)

**H310: dual-view/Q370: triple-view

Packing List

Standard
I/O bracket

Ordering Information

Standard	
MANO521PHGGA-H310 (P/N: E38M521100)	Mini-ITX SBC with LGA1151 9th/8th gen Intel® Core™ processor, Intel® H310, DisplayPort++, HDMI, LVDS, VGA, 2 COM, USB 3.0, M.2, mSATA, PCI Express Mini Card, 2 GbE LAN and HD audio

Optional	
MANO521PHGGA-Q370	Mini-ITX SBC with LGA1151 8th gen Intel® Core™ processor, Intel® Q370, DisplayPort++, HDMI, LVDS, VGA, 2 COM, USB 3.0, M.2, mSATA, PCI Express Mini Card, 2 GbE LAN and HD audio
5938A808010E	2 x USB 2.0 cable with bracket, 10P-Key
59382620000E	COM port with bracket, P=2 mm
59406260610E	SATA Power 15P to housing-2.54P, L=10 cm
59384500100E	SBC84500 audio cable with bracket, P=2.0 mm, L=420 mm
5095AD24000E	Adapter 19V 120W w/screw FSP
713PL76A000E	LGA1156 1.5U cooler
5077L07C000E	LGA1156 1U cooler
71370403010E	LGA1156 low profile cooler 15 mm height

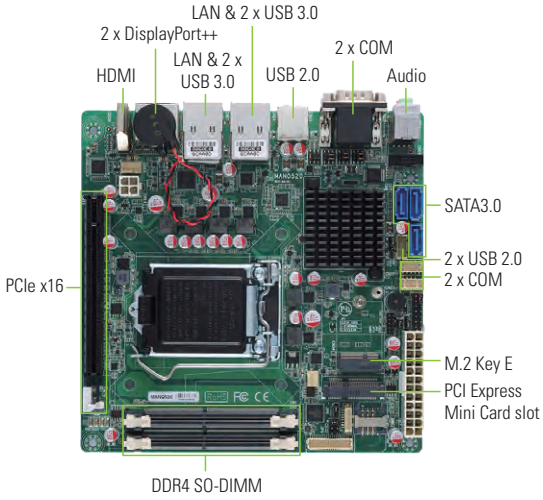
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MANO520

Mini-ITX SBC with LGA1151 9th/8th Gen Intel® Core™ i7/i5/i3 Processor, Dual DisplayPort++, HDMI, LVDS, USB 3.0, mSATA, M.2 and Dual GbE LAN

Features

- LGA1151 9th/8th gen Intel® Core™ i7/i5/i3 processor
- Intel® H310 chipset (Q370 optional)
- 2 DDR4 SO-DIMM for up to 32GB of memory
- 4 USB 3.0 and 4 USB 2.0
- 4 COM ports
- 3 SATA-600 and 1 mSATA
- PCIe x16 and M.2 Key E





Core System

CPU	LGA1151 9th/8th gen Intel® Core™ i7/i5/i3, Intel® Pentium® processors Gold/Celeron® processors (up to 65W)
System Memory	2 x 260-pin DDR4-2666/2400 SO-DIMM up to 32GB
Chipset	Intel® H310 Intel® Q370 (optional)
BIOS	AMI
SSD	1 x mSATA
Watchdog Timer	255 levels, 1 to 255 sec.
Expansion Interface	1 x PCIe x16 1 x M.2 Key E 22 x 30
Battery Lithium	Lithium 3V/220mAH
Power Input	Standard 12V ATX power 24+4 pin ATX connector AT Mode Auto Power Function supported
Dimensions	170 x 170 mm
Board Thickness	1.6 mm
Operating Temperature	0°C to +60°C (+32°F to +140°F)
Humidity	10% - 95% relative humidity, non-condensing

I/O

SATA	3 x SATA-600
Hardware Monitoring	Detect CPU/system temperature, voltage and fan speed
Ethernet	1 x 10/100/1000 Mbps Ethernet with Intel® i211-AT; supports Wake-on-LAN, PXE Boot ROM 1 x 10/100/1000 Mbps Ethernet with Intel® i219-LM; supports Wake-on-LAN, PXE Boot ROM
Audio	HD Codec audio as MIC-in/Line-in/Line-out with Realtek ALC662
USB	4 x USB 3.0 4 x USB 2.0
Serial	1 x RS-232/422/485 (with +5V/+12V power) 3 x RS-232
PS/2 Combo Port	N/A
TPM	Onboard TPM 2.0 (optional)
SMBus	N/A
Digital I/O	8-channel in/out programmed



▲ Side view

Display

Chipset	Intel® integrated Gfx graphic engine
Memory Size	Share system memory
Display Interface	2 x DisplayPort++ 1 x HDMI 1 x LVDS; 18/24-bit single/dual channel
**H310: dual-view/Q370: triple-view	

Packing List

Standard
User's Manual/Utility CD and I/O bracket

Ordering Information

Standard	
MANO520PHGGA-H310 (P/N: E38M520100)	Mini-ITX SBC with LGA1151 9th/8th gen Intel® Core™ processor, Intel® H310, DisplayPort++, HDMI, LVDS, 2 GbE LAN and HD Audio

Optional	
MANO520PHGGA-Q370	Mini-ITX SBC with LGA1151 8th gen Intel® Core™ processor, Intel® Q370, DisplayPort++, HDMI, LVDS, 2 GbE LAN and HD audio
594M5002100E	2 x COM port, P=2.0 mm, L=300 mm
594E8422800E	2 x USB 2.0 wafer cable with bracket, P=2.0 L=180 mm
59384500100E	SBC84500 audio cable with bracket, P=2.0 mm, L=420 mm

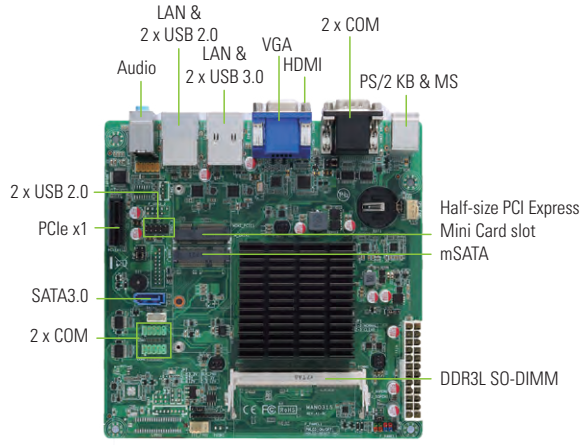
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MANO315

Mini-ITX SBC with Intel® Celeron® Processor J3355 VGA, HDMI, USB 3.0, PCI Express Mini Card Slot, mSATA and HD Audio

Features

- Intel® Celeron® processor J3355 (Apollo Lake)
- DDR3L SO-DIMM for up to 8GB of memory
- 1 PCI Express Mini Card slot and PCIe x1
- 2 USB 3.0 and 4 USB 2.0
- 1 SATA-600 and 1 mSATA
- 4 COM supported
- Standard ATX 24-pin power
- VGA and HDMI supported





▲ Side view

Fanless | Low Power | DDR3L | USB 3.0 | PCIe Mini

Core System

CPU	Intel® Celeron® J3355
System Memory	1 x 204-pin DDR3L-1866 SO-DIMM, up to 8GB
Chipset	SoC integrated
BIOS	AMI
SSD	1 x mSATA
Watchdog Timer	255 levels, 1 to 255 sec.
Expansion Interface	1 x PCIe x1 1 x PCI Express Mini Card slot
Battery	Lithium 3V/220 mAH
Power Input	Standard ATX 24-pin power
Dimensions	170 x 170 mm
Board Thickness	1.6 mm
Operating Temperature	0°C to +60°C (+32°F to +140°F)
Humidity	10% to 95% relative humidity, non-condensing

I/O

SATA	1 x SATA-600
Ethernet	2 x 10/100/1000 Mbps Ethernet with Realtek RTL8111F; support Wake-on-LAN, PXE Boot ROM
Audio	HD Codec audio as Mic-in/Line-out with Realtek ALC662
USB	2 x USB 2.0 (internal) 2 x USB 3.0 2 x USB 2.0 (rear I/O)
Serial	2 x RS-232 (rear I/O with +5V supported) 2 x RS-232
PS/2 Combo Port	1 x PS/2 keyboard and mouse
TPM	N/A
SMBus	N/A
Digital I/O	N/A

Display

Chipset	Intel® integrated Gfx graphic engine
Memory Size	Shared memory
Display Interface	1 x VGA 1 x HDMI

Packing List

Standard	
User's manual/utility CD and I/O bracket/heatsink	

Ordering Information

Standard	
MANO315VHGGA-J3355 (P/N: E38M315100)	Mini-ITX SBC with Intel® Celeron® processor J3355 (2.0 to 2.5 GHz, 2MB cache, 10W), VGA, HDMI, 2 GbE LAN, 4 COM, USB 3.0, PCI Express Mini Card slot and HD audio

Optional	
593M8810300E	COM port cable, P=2.0 mm, L=300 mm
594M5002A00E	6-pin wafer to PS/2 cable, P=2.0 mm, L=200 mm
59384500100E	Audio cable with bracket, P=2.0 mm, L=420 mm
59386831000E	2-port USB cable with bracket, 5-pin header, P=2.54 mm, L=180 mm
594P8800600E	SATA power cable, 4-pin to 15-pin, P=2.0 mm, L=200 mm
593M8400400E	Audio cable, P=2.54 mm, L=300 mm

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5 ATX & Micro ATX Motherboards

Axiomtek's high performance ATX motherboards (305 x 244 mm) support a wide range of computing capacities and rich I/O and expansion slots. The Micro ATX motherboards (244 x 244 mm) support a wide range of computing capacities and rich I/O and expansion slots. The industrial Micro ATX motherboard is suited for space/cost sensitive applications where less than 4 slots are required. The industrial ATX and Micro ATX motherboards are ideal platforms for applications in digital video recorder, POS system, intelligent transportation system, multi-media center and more.

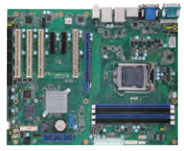
	Selection Guide		77
NEW	IMB526	ATX Motherboard with LGA1151 Socket 8th Gen Intel® Core™ Processor, Intel® Q370, USB 3.1 Gen2, SATA 3.0, Dual LAN, VGA, DisplayPort++, DVI-D, and HDMI	81
	IMB525	ATX Motherboard with LGA1151 Socket 8th Gen Intel® Core™ Processor, Intel® C246, USB 3.1 Gen, SATA 3.0, Dual LAN, VGA, DisplayPort, DVI-D, and HDMI	82
	IMB524	ATX Motherboard with LGA1151 Socket 8th Gen Intel® Core™ Processor, Intel® H310, USB 3.1 Gen1, SATA 3.0, PCI Express Mini Card Slot, VGA, DisplayPort, DVI-D, and HDMI	83
	IMB523	ATX Motherboard with LGA1151 Socket 8th Gen Intel® Core™ Processor, Intel® Q370, USB 3.1 Gen2, SATA 3.0, PCI Express Mini Card Slot, VGA, DisplayPort, DVI-D, and HDMI	84
	IMB521	ATX Motherboard with LGA1151 Socket 8th Gen Intel® Core™ Processor, Intel® C246, USB 3.0, SATA 3.0, Dual LAN, VGA, DisplayPort, DVI-D, and HDMI	85
	IMB520	ATX Motherboard with LGA1151 Socket 8th Gen Intel® Core™ Processor, Intel® Q370, USB 3.1 Gen2, SATA 3.0, Dual LAN, VGA, DisplayPort, DVI-D, and HDMI	86
	IMB500	ATX Motherboard with LGA1151 Socket 7th/6th Gen Intel® Core™ Processor, Intel® Q170, USB 3.0, SATA 3.0, Dual LAN, VGA, DisplayPort, HDMI and mSATA	87
	IMB501	ATX Motherboard with LGA1151 Socket 7th/6th Gen Intel® Core™ Processor, Intel® H110, USB 3.0, SATA 3.0, Dual LAN, VGA, DisplayPort, HDMI and mSATA	88
	IMB502	ATX Motherboard with LGA1151 Socket 7th/6th Gen Intel® Core™ Processor, Intel® Q170, USB 3.0, SATA 3.0, Dual LAN, VGA, DVI-D and HDMI	89
	MMB501	Micro ATX Motherboard with LGA1151 Socket 7th/6th Gen Intel® Core™ Processor, Intel® Q170, USB 3.0, SATA 3.0, Dual LAN, VGA, DisplayPort, DVI-D, and HDMI	90

ATX Motherboards

Selection Guide

NEW







Features\Models			IMB526	IMB525	IMB524
Form Factor			ATX	ATX	ATX
CPU Level			8th gen Intel® Core™ i7/i5/i3, Celeron® & Pentium®	8th gen Intel® Core™ i7/i5/i3, Celeron® & Pentium®	8th gen Intel® Core™ i7/i5/i3, Celeron® & Pentium®
CPU Socket			LGA1151	LGA1151	LGA1151
Core Logic Chipset			Intel® Q370	Intel® C246	Intel® H310
Memory Type			DDR4-2400/2666	DDR4-2400/2666	DDR4-2400/2666
Max. DRAM Capacity			64GB	64GB	32GB
Cache RAM Capacity			Integrated in CPU	Integrated in CPU	Integrated in CPU
BIOS			AMI UEFI BIOS with OA 3.0 built	AMI UEFI BIOS with OA 3.0 built	AMI UEFI BIOS with OA 3.0 built
Watchdog Timer			255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.
Digital I/O			8-channel programmable	8-channel programmable	8-channel programmable
I/O	**SATA**		4 x SATA-600	6 x SATA-600	4 x SATA-600
	Serial	**COM 1**	RS-232/422/485	RS-232/422/485	RS-232/422/485
		COM 2	RS-232/422/485	RS-232/422/485	RS-232/422/485
		COM 3	RS-232	RS-232	RS-232
		COM 4	RS-232	RS-232	RS-232
		COM 5	RS-232	RS-232	RS-232
		COM 6	RS-232	RS-232	RS-232
	USB		2 x USB 3.1 Gen2, 4 x USB 3.1 Gen1, 7 x USB 2.0	2 x USB 3.1 Gen2, 4 x USB 3.1 Gen1, 7 x USB 2.0	4 x USB 3.1 Gen1, 6 x USB 2.0
SIM Card Slot			N/A	optional	optional
Display			1 x VGA 1 x DVI-D 1 x DisplayPort 1 x HDMI	1 x VGA 1 x DVI-D 1 x DisplayPort 1 x HDMI	1 x VGA 1 x DVI-D 1 x DisplayPort 1 x HDMI
Ethernet			2 x 10/100/1000 Mbps Ethernet	2 x 10/100/1000 Mbps Ethernet	2 x 10/100/1000 Mbps Ethernet
Audio			HD Codec	HD Codec	HD Codec
Hardware Monitoring			Yes	Yes	Yes
SMBus			Yes	Yes	Yes
Expansion Interface			2 x PCIe x16 4 x PCIe x4	1 x PCIe x16 2 x PCIe x4 4 x PCI 1 x PCI Express Mini Card slot (optional)	1 x PCIe x16 2 x PCIe x4 4 x PCI 1 x PCI Express Mini Card slot (optional)
Power Management			ACPI	ACPI	ACPI
Battery			Lithium	Lithium	Lithium
Operating Temperature			0°C to +60°C (+32°F to +140°F)	0°C to +60°C (+32°F to +140°F)	0°C to +60°C (+32°F to +140°F)
Relative Humidity			10% to 95%, non-condensing	10% to 95%, non-condensing	10% to 95%, non-condensing
EMI Compliance			CE	CE	CE

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ATX Motherboards

Selection Guide





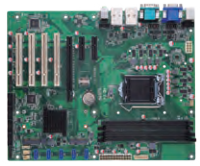


Features\Models			IMB523	IMB521	IMB520
Form Factor			ATX	ATX	ATX
CPU Level			8th gen Intel® Core™ i7/i5/i3, Celeron® & Pentium®	8th gen Intel® Core™ i7/i5/i3, Xeon® E, Pentium® or Celeron®	8th gen Intel® Core™ i7/i5/i3, Celeron® & Pentium®
CPU Socket			LGA1151	LGA1151	LGA1151
Core Logic Chipset			Intel® Q370	Intel® C246	Intel® Q370
Memory Type			DDR4-2400/2666	DDR4-2133/2400	DDR4-2400/2666
Max. DRAM Capacity			64GB	64GB	64GB
Cache RAM Capacity			Integrated in CPU	Integrated in CPU	Integrated in CPU
BIOS			AMI UEFI BIOS with OA 3.0 built	AMI UEFI BIOS with OA 3.0 built	AMI UEFI BIOS with OA 3.0 built
Watchdog Timer			255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.
Digital I/O			8-channel programmable	8-channel programmable	8-channel programmable
I/O	**SATA**		6 x SATA-600	4 x SATA-600	4 x SATA-600
	Serial	**COM 1**	RS-232/422/485	RS-232/422/485	RS-232/422/485
		COM 2	RS-232/422/485	RS-232/422/485	RS-232/422/485
		COM 3	RS-232	RS-232	RS-232
		COM 4	RS-232	RS-232	RS-232
		COM 5	RS-232	RS-232	RS-232
		COM 6	RS-232	RS-232	RS-232
	USB		2 x USB 3.1 Gen2, 4 x USB 3.1 Gen1, 7 x USB 2.0	2 x USB 3.1 Gen2, 4 x USB 3.1 Gen1, 7 x USB 2.0	2 x USB 3.1 Gen2, 4 x USB 3.1 Gen1, 7 x USB 2.0
SIM Card Slot			Optional	N/A	N/A
Display			1 x VGA 1 x DVI-D 1 x DisplayPort 1 x HDMI	1 x VGA 1 x DVI-D 1 x DisplayPort 1 x HDMI	1 x VGA 1 x DVI-D 1 x DisplayPort 1 x HDMI
Ethernet			2 x 10/100/1000 Mbps Ethernet	2 x 10/100/1000 Mbps Ethernet	2 x 10/100/1000 Mbps Ethernet
Audio			HD Codec	HD Codec	HD Codec
Hardware Monitoring			Yes	Yes	Yes
SMBus			Yes	Yes	Yes
Expansion Interface			1 x PCIe x16 2 x PCIe x4 4 x PCI 1 x PCI Express Mini Card slot (optional)	1 x PCIe x16 4 x PCIe x4 1 x PCIe x1 1 x PCI	1 x PCIe x16 4 x PCIe x4 1 x PCIe x1 1 x PCI
Power Management			ACPI	ACPI	ACPI
Battery			Lithium	Lithium	Lithium
Operating Temperature			0°C to +60°C (+32°F to +140°F)	0°C to +60°C (+32°F to +140°F)	0°C to +60°C (+32°F to +140°F)
Relative Humidity			10% to 95%, non-condensing	10% to 95%, non-condensing	10% to 95%, non-condensing
EMI Compliance			CE	CE	CE

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ATX Motherboards

Selection Guide







Features\Models			IMB500	IMB501	IMB502
Form Factor			ATX	ATX	ATX
CPU Level			7th/6th gen Intel® Core™ i7/i5/i3, Pentium® & Celeron®	7th/6th gen Intel® Core™ i7/i5/i3, Pentium® & Celeron®	7th/6th gen Intel® Core™ i7/i5/i3, Pentium® & Celeron®
CPU Socket			LGA1151	LGA1151	LGA1151
Core Logic Chipset			Intel® Q170	Intel® H110	Intel® Q170
Memory Type			1866/2133/2400	1866/2133/2400	1866/2133/2400
Max. DRAM Capacity			64GB	32GB	64GB
Cache RAM Capacity			Integrated in CPU	Integrated in CPU	Integrated in CPU
BIOS			AMI UEFI BIOS with OA 3.0 built	AMI UEFI BIOS with OA 3.0 built	AMI UEFI BIOS with OA 3.0 built
Watchdog Timer			255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.
Digital I/O			4-in & 4-out	4-in & 4-out	8-channel programmable
I/O	**SATA**		5 x SATA-600 1 x mSATA	3 x SATA-600 1 x mSATA	5 x SATA-600
	Serial	**COM 1**	RS-232/422/485	RS-232/422/485	RS-232/422/485
		COM 2	RS-232/422/485	RS-232/422/485	RS-232
		COM 3	RS-232	RS-232	RS-232
		COM 4	RS-232	RS-232	RS-232
		COM 5	RS-232	RS-232	RS-232
		COM 6	RS-232	RS-232	RS-232
	USB		8 x USB 2.0, 4 x USB 3.0	4 x USB 2.0, 4 x USB 3.0	6 x USB 3.0, 7 x USB 2.0
SIM Card Slot			1 x SIM	1 x SIM	N/A
Display			1 x VGA 1 x DisplayPort 1 x HDMI	1 x VGA 1 x DisplayPort 1 x HDMI	1 x VGA 1 x DVI-D 1 x HDMI
Ethernet			2 x 10/100/1000 Mbps Ethernet	2 x 10/100/1000 Mbps Ethernet	2 x 10/100/1000 Mbps Ethernet
Audio			HD Codec	HD Codec	HD Codec
Hardware Monitoring			Yes	Yes	Yes
SMBus			Yes	Yes	Yes
Expansion Interface			4 x PCI 2 x PCIe x4 1 x PCIe x16 1 x PCI Express Mini Card slot 1 x SIM slot	4 x PCI 2 x PCIe x1 1 x PCIe x16 1 x PCI Express Mini Card slot 1 x SIM slot	1 x PCIe x16 3 x PCIe x4 3 x PCI
Power Management			ACPI	ACPI	ACPI
Battery			Lithium	Lithium	Lithium
Operating Temperature			0°C to +60°C (+32°F to +140°F)	0°C to +60°C (+32°F to +140°F)	0°C to +60°C (+32°F to +140°F)
Relative Humidity			10% to 95%, non-condensing	10% to 95%, non-condensing	10% to 95%, non-condensing
EMI Compliance			CE	CE	CE

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Micro ATX Motherboard

Selection Guide



Features\Models			MMB501
Form Factor			Micro ATX
CPU Level			7th/6th gen Intel® Core™ i7/i5/i3, Celeron®
CPU Socket			LGA1151
Core Logic Chipset			Intel® Q170
Memory Type			DDR4-2133/1866
Max. DRAM Capacity			64GB
Cache RAM Capacity			Integrated in CPU
BIOS			AMI UEFI BIOS with OA 3.0 built
Watchdog Timer			255 levels, 1 to 255 sec.
Digital I/O			8-channel programmable
I/O	**SATA**		6 x SATA-600
	Serial	**COM 1**	RS-232/422/485
		COM 2	RS-232/422/485
		COM 3	RS-232
		COM 4	RS-232
		COM 5	RS-232
		COM 6	RS-232
	USB		5 x USB 2.0, 6 x USB 3.0
SIM Card Slot			1 x SIM
Display			1 x DVI-I 1 x DisplayPort 1 x HDMI 1 x VGA
Ethernet			2 x 10/100/1000 Mbps Ethernet
Audio			HD Codec
Hardware Monitoring			Yes
SMBus			Yes
Expansion Interface			1 x PCI 2 x PCIe x4 1 x PCIe x16 1 x PCI Express Mini Card slot
Power Management			ACPI
Battery			Lithium
Operating Temperature			0°C to +60°C (+32°F to +140°F)
Relative Humidity			10% to 95%, non-condensing
EMI Compliance			CE

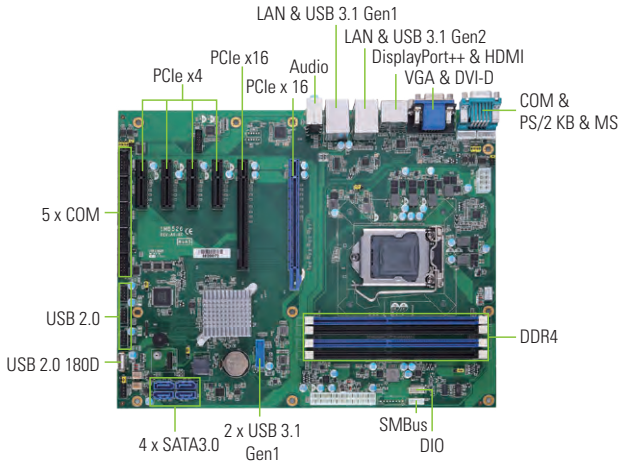
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IMB526 NEW

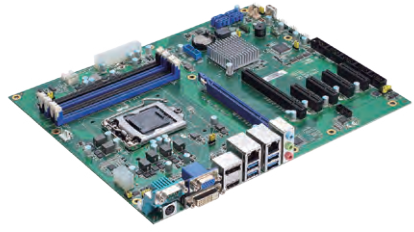
ATX Motherboard with LGA1151 Socket 8th Gen Intel® Core™ Processor, Intel® Q370, USB 3.1 Gen2, SATA 3.0, Dual LAN, VGA, DisplayPort++, DVI-D, and HDMI

Features

- LGA1151 socket 8th gen Intel® Core™ i7/i5/i3, Pentium® & Celeron® processor (Coffee Lake)
- Four 288-pin DDR4-2666/2400 DIMM for up to 64GB of memory
- VGA, DisplayPort++, DVI-D and HDMI with triple-view supported
- 4 SATA-600 with software and hardware RAID support
- Two USB 3.1 Gen2 and four USB 3.1 Gen1
- TPM 2.0 supported (optional)







▲ Side view

Core System

CPU	LGA1151 socket 8th gen Intel® Core™ i7/i5/i3, Pentium® & Celeron® processor
System Memory	4 x 288-pin DDR4-2666/2400 DIMM, up to 64GB
Chipset	Intel® Q370
BIOS	AMI BIOS
SSD	N/A
Watchdog Timer	255 levels, 1 to 255 sec.
Expansion Interface	1 x PCIe x16 slot (signal: x16 or x8) 1 x PCIe x16 slot (signal: x0 or x8) 4 x PCIe x4
Battery	Lithium 3 V/ 220 mAH
Dimensions	305 x 244 mm
Board Thickness	1.6 mm
Operating Temperature	0°C to +60°C (+32°F to +140°F)
Humidity	10% to 95% relative humidity, non-condensing

Display

Graphic	Intel® HD Graphic
Memory Size	Share system memory
Display Interface	1 x VGA 1 x DVI-D 1 x HDMI 1 x DisplayPort++

I/O

SATA	2 x SATA-600 with software RAID 0/1/5/10 2 x SATA-600 with hardware RAID 0/1
Hardware Monitoring	Detect CPU/system temperature, voltage and supports Smart fan control
Ethernet	1x 10/100/1000 Mbps Ethernet with Intel® i219-LM; supports Wake-on-LAN, PXE Boot ROM, iAMT 1 x 10/100/1000 Mbps Ethernet with Intel® i211-AT; supports Wake-on-LAN, PXE Boot ROM
Audio	HD Codec audio as MIC-in/Line-in/Line-out with Realtek ALC662
USB	2 x USB 3.1 Gen2 (rear I/O) 4 x USB 3.1 Gen1 (2 ports on rear I/O, 2 ports with pin header) 7 x USB 2.0 (pin header, 180D type A)
Serial	4 x RS-232 (Internal box header) 2 x RS-232/422/485 (COM 1: rear, COM 2: internal box header)
PS/2 Combo Port	1 x PS/2 keyboard and mouse
TPM	TPM 2.0 (optional)
SMBus	Yes
Digital I/O	8-channel programmable

Ordering Information

Standard	
IMB526	ATX motherboard with LGA1151 socket 8th gen Intel® Core™ i7/i5/i3, Pentium® & Celeron® processor, Intel® Q370, USB 3.1 Gen2, SATA 3.0, 2 GbE LAN, VGA, DisplayPort++, DVI-D, and HDMI
Optional	
5938A808010E	2 x USB 2.0 cable with bracket, P=2.54 mm, L=190 mm
5938A808020E	2 x USB 2.0 cable with bracket, P=2.54 mm, L=400 mm
5948C122800E	2 x USB 3.1 Gen1 cable with bracket, L=400 mm
59380000290E	PS/2 keyboard & mouse cable with bracket
593826A0000E	SATA signal cable/red, L=500 mm
59384500100E	Audio cable with bracket, P=2.0 mm, L=450 mm
59380402010E	1 x COM port cable with bracket, P=2.54 mm, L=300 mm
59380703000E	2 x COM port cable with bracket, P=2.54 mm, L=300 mm
83935151000E	TPM 2.0 module (AX93515)

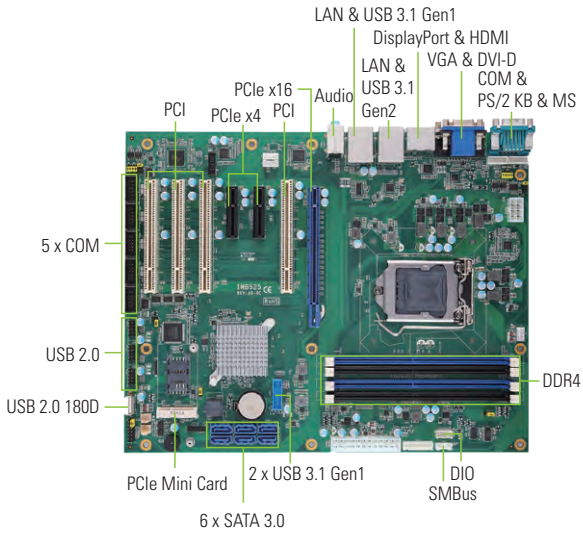
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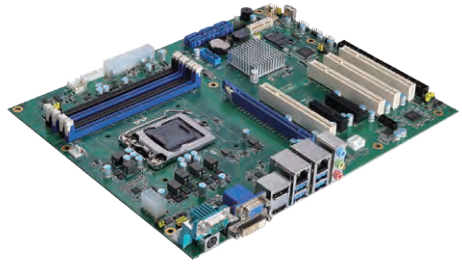
IMB525

ATX Motherboard with LGA1151 Socket 8th Gen Intel® Core™, Xeon® E Processor, Intel® C246, USB 3.1 Gen2, SATA 3.0, PCI Express Mini Card Slot, VGA, DisplayPort, DVI-D, and HDMI

Features

- LGA1151 socket 8th gen Intel® Core™ i7/i5/i3, Xeon® E, Pentium® or Celeron® processor (Coffee Lake)
- Four 288-pin DDR4-2666/2400 ECC DIMM for up to 64GB of memory
- DisplayPort, DVI-D, HDMI and VGA with triple-view supported
- 6 SATA-600 with RAID 0/1/5/10
- 1 PCI Express Mini Card slot (optional)
- 2 USB 3.1 Gen2 and four USB 3.1 Gen1
- TPM 2.0 supported (optional)





▲ Side view

TripleView | PCIe Mini | USB 3.0 | DDR4

Core System

CPU	LGA1151 socket 8th gen Intel® Core™ i7/i5/i3, Xeon® E, Pentium® or Celeron® processor
System Memory	4 x 288-pin DDR4-2666/2400 ECC DIMM, up to 64GB
Chipset	Intel® C246
BIOS	AMI BIOS
Watchdog Timer	255 levels, 1 to 255 sec.
Expansion Interface	1 x PCIe x16 slot 2 x PCIe x4 slot 4 x PCI slot 1 x PCIe Mini Card slot with PCIe x1 & USB 2.0 (optional)
Battery	Lithium 3 V/ 220 mAH
Dimensions	305 x 244 mm
Board Thickness	1.6 mm
Operating Temperature	0°C to +60°C (+32°F to +140°F)
Humidity	10% to 95% relative humidity, non-condensing

I/O

SATA	6 x SATA-600 with RAID 0/1/5/10
Hardware Monitoring	Detect CPU/system temperature, voltage and supports Smart fan control
Ethernet	1x 10/100/1000 Mbps Ethernet with Intel® i219-LM; supports Wake-on-LAN, PXE Boot ROM, iAMT 1 x 10/100/1000 Mbps Ethernet with Intel® i211-AT; supports Wake-on-LAN, PXE Boot ROM
Audio	HD Codec audio as MIC-in/Line-in/Line-out with Realtek ALC662
USB	2 x USB 3.1 Gen2 (rear I/O) 4 x USB 3.1 Gen1 (rear I/O, internal box header) 7 x USB 2.0 (pin header, 180D type A)
Serial	4 x RS-232 (Internal box header) 2 x RS-232/422/485 (COM 1: rear I/O; COM 2: internal box header)
PS/2 Combo Port	1 x PS/2 keyboard and mouse
TPM	TPM 2.0 (optional)
SMBus	Yes
Digital I/O	8-channel programmable

Display

Graphic	Intel® HD Graphic
Memory Size	Share system memory
Display Interface	1 x VGA 1 x DVI-D 1 x HDMI 1 x DisplayPort

Ordering Information

Standard	
IMB525VDHGGA-C246 (P/N: E38F525102)	ATX motherboard with LGA1151 socket 8th gen Intel® Core™ i7/i5/i3, Xeon® E, Pentium® or Celeron® processor, Intel® C246, USB 3.1 Gen2, SATA 3.0, 2 GbE LAN, VGA, DisplayPort, DVI-D, and HDMI

Optional	
5938A808010E	2 x USB 2.0 cable with bracket, P=2.54 mm, L=190 mm
5938A808020E	2 x USB 2.0 cable with bracket, P=2.54 mm, L=400 mm
5948C122800E	2 x USB 3.1 Gen1 cable with bracket, L=400 mm
59380000290E	PS/2 keyboard & mouse cable with bracket
593826A0000E	SATA signal cable/red, L=500 mm
59384500100E	Audio cable with bracket, P=2.0 mm, L=450 mm
59380402010E	1 x COM port cable with bracket, P=2.54 mm, L=300 mm
59380703000E	2 x COM port cable with bracket, P=2.54 mm, L=300 mm
83935151000E	TPM 2.0 module (AX93515)

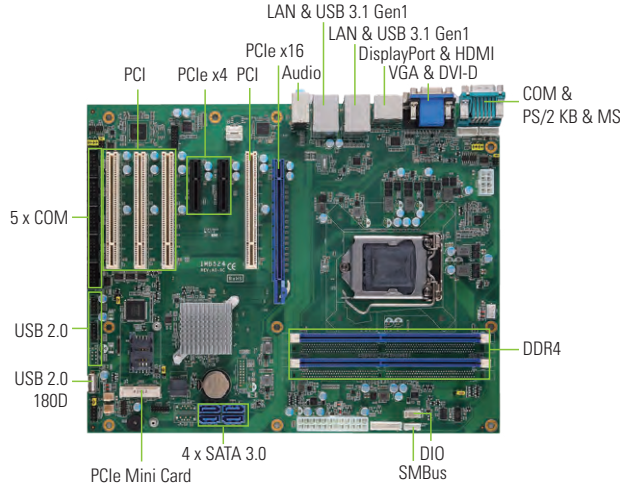
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IMB524

ATX Motherboard with LGA1151 Socket 8th Gen Intel® Core™ Processor, Intel® H310, USB 3.1 Gen1, SATA 3.0, PCI Express Mini Card Slot, VGA, DisplayPort, DVI-D, and HDMI

Features

- LGA1151 socket 8th gen Intel® Core™ i7/i5/i3, Pentium® & Celeron® processor (Coffee Lake)
- Two 288-pin DDR4-2666/2400 DIMM for up to 32GB of memory
- DisplayPort, DVI-D, HDMI and VGA with dual-view supported
- 4 SATA-600
- 1 PCI Express Mini Card slot (optional)
- 4 USB 3.1 Gen1 and 5 USB 2.0
- TPM 2.0 supported (optional)



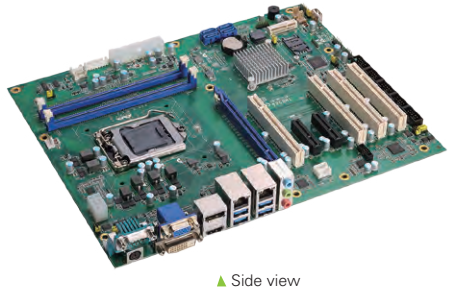
DualView USB 3.0 DDR4

Core System

CPU	LGA1151 socket 8th gen Intel® Core™ i7/i5/i3, Pentium® & Celeron® processor
System Memory	2 x 288-pin DDR4-2666/2400 DIMM, up to 32GB
Chipset	Intel® H310
BIOS	AMI BIOS
SSD	N/A
Watchdog Timer	255 levels, 1 to 255 sec.
Expansion Interface	1 x PCIe x16 slot 2 x PCIe x4 slot (2 PCIe x1 signal) 4 x PCI slot 1 x PCIe Mini Card slot with PCIe x1 & USB 2.0 (optional)
Battery	Lithium 3 V/ 220 mAH
Dimensions	305 x 244 mm
Board Thickness	1.6 mm
Operating Temperature	0°C to +60°C (+32°F to +140°F)
Humidity	10% to 95% relative humidity, non-condensing

I/O

SATA	4 x SATA-600
Hardware Monitoring	Detect CPU/system temperature, voltage and supports Smart fan control
Ethernet	1 x 10/100/1000 Mbps Ethernet with Intel® i219-LM; supports Wake-on-LAN, PXE Boot ROM 1 x 10/100/1000 Mbps Ethernet with Intel® i211-AT; supports Wake-on-LAN, PXE Boot ROM
Audio	HD Codec audio as MIC-in/Line-in/Line-out with Realtek ALC662
USB	4 x USB 3.1 Gen1 (rear I/O) 5 x USB 2.0 (pin header, 180D type A)
Serial	4 x RS-232 (Internal box header) 2 x RS-232/422/485 (COM 1: rear I/O; COM 2: internal box header)
PS/2 Combo Port	1 x PS/2 keyboard and mouse
TPM	TPM 2.0 (optional)
SMBus	Yes
Digital I/O	8-channel programmable



▲ Side view

Display

Graphic	Intel® HD Graphic
Memory Size	Share system memory
Display Interface	1 x VGA 1 x DVI-D 1 x HDMI 1 x DisplayPort

Ordering Information

Standard	
IMB524VDHGGA-H310 (P/N: E38F524101)	ATX motherboard with LGA1151 socket 8th gen Intel® Core™ i7/i5/i3, Pentium® & Celeron® processor, Intel® H310, USB 3.1 Gen1, SATA 3.0, 2 GbE LAN, VGA, DisplayPort, DVI-D and HDMI
Optional	
5938A808010E	2 x USB 2.0 cable with bracket, P=2.54 mm, L=190 mm
5938A808020E	2 x USB 2.0 cable with bracket, P=2.54 mm, L=400 mm
5948C122800E	2 x USB 3.1 Gen1 cable with bracket, L=400 mm
59380000290E	PS/2 keyboard & mouse cable with bracket
593826A0000E	SATA signal cable/red, L=500 mm
59384500100E	Audio cable with bracket, P=2.0 mm, L=450 mm
59380402010E	1 x COM port cable with bracket, P=2.54 mm, L=300 mm
59380703000E	2 x COM port cable with bracket, P=2.54 mm, L=300 mm
83935151000E	TPM 2.0 module (AX93515)

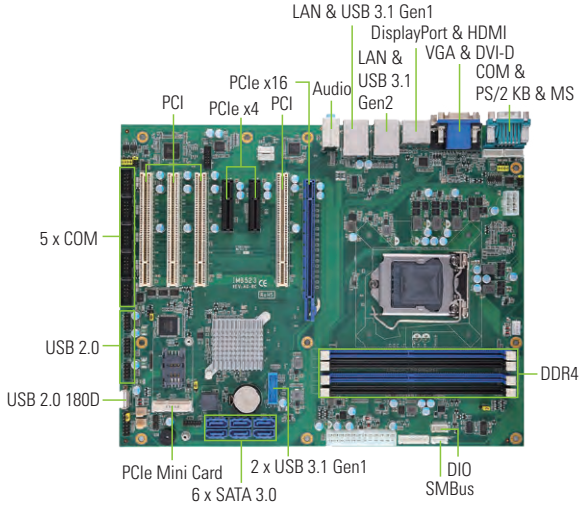
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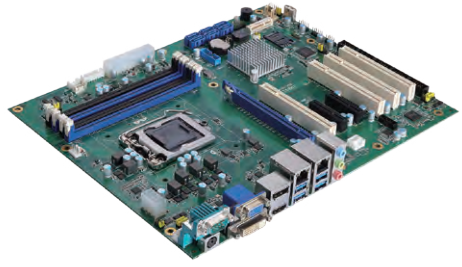
IMB523

ATX Motherboard with LGA1151 Socket 8th Gen Intel® Core™ Processor, Intel® Q370, USB 3.1 Gen2, SATA 3.0, PCI Express Mini Card Slot, VGA, DisplayPort, DVI-D, and HDMI

Features

- LGA1151 socket 8th gen Intel® Core™ i7/i5/i3, Pentium® & Celeron® processor (Coffee Lake)
- Four 288-pin DDR4-2666/2400 DIMM for up to 64GB of memory
- DisplayPort, DVI-D, HDMI and VGA with triple-view supported
- 6 SATA-600 with RAID 0/1/5/10
- 1 PCI Express Mini Card slot (optional)
- Two USB 3.1 Gen2 and four USB 3.1 Gen1
- TPM 2.0 supported (optional)





▲ Side view

TripleView USB 3.0 DDR4

Core System

CPU	LGA1151 socket 8th gen Intel® Core™ i7/i5/i3, Pentium® & Celeron® processor
System Memory	4 x 288-pin DDR4-2666/2400 DIMM, up to 64GB
Chipset	Intel® Q370
BIOS	AMI BIOS
SSD	N/A
Watchdog Timer	255 levels, 1 to 255 sec.
Expansion Interface	1 x PCIe x16 slot 2 x PCIe x4 slot 4 x PCI slot 1 x PCIe Mini Card slot with PCIe x1 & USB 2.0 (optional)
Battery	Lithium 3 V/ 220 mAH
Dimensions	305 x 244 mm
Board Thickness	1.6 mm
Operating Temperature	0°C to +60°C (+32°F to +140°F)
Humidity	10% to 95% relative humidity, non-condensing

I/O

SATA	6 x SATA-600 with RAID 0/1/5/10
Hardware Monitoring	Detect CPU/system temperature, voltage and supports Smart fan control
Ethernet	1 x 10/100/1000 Mbps Ethernet with Intel® i219-LM; supports Wake-on-LAN, PXE Boot ROM, iAMT 1 x 10/100/1000 Mbps Ethernet with Intel® i211-AT; supports Wake-on-LAN, PXE Boot ROM
Audio	HD Codec audio as MIC-in/Line-in/Line-out with Realtek ALC662
USB	2 x USB 3.1 Gen2 (rear IO) 4 x USB 3.1 Gen1 (rear IO, internal box header) 7 x USB 2.0 (pin header, 180D type A)
Serial	4 x RS-232 (Internal box header) 2 x RS-232/422/485 (COM 1: rear I/O; COM 2: internal box header)
PS/2 Combo Port	1 x PS/2 keyboard and mouse
TPM	TPM 2.0 (optional)
SMBus	Yes
Digital I/O	8-channel programmable

Display

Graphic	Intel® HD Graphic
Memory Size	Share system memory
Display Interface	1 x VGA 1 x DVI-D 1 x HDMI 1 x DisplayPort

Ordering Information

Standard	
IMB523VDHGGA-Q370 (P/N: E38F523101)	ATX motherboard with LGA1151 socket 8th gen Intel® Core™ i7/i5/i3, Pentium® & Celeron® processor, Intel® Q370, USB 3.1 Gen2, SATA 3.0, 2 GbE LAN, VGA, DisplayPort, DVI-D and HDMI

Optional	
5938A808010E	2 x USB 2.0 cable with bracket, P=2.54 mm, L=190 mm
5938A808020E	2 x USB 2.0 cable with bracket, P=2.54 mm, L=400 mm
5948C122800E	2 x USB 3.1 Gen1 cable with bracket, L=400 mm
59380000290E	PS/2 keyboard & mouse cable with bracket
593826A0000E	SATA signal cable/red, L=500 mm
59384500100E	Audio cable with bracket, P=2.0 mm, L=450 mm
59380402010E	1 x COM port cable with bracket, P=2.54 mm, L=300 mm
59380703000E	2 x COM port cable with bracket, P=2.54 mm, L=300 mm
83935151000E	TPM 2.0 module (AX93515)

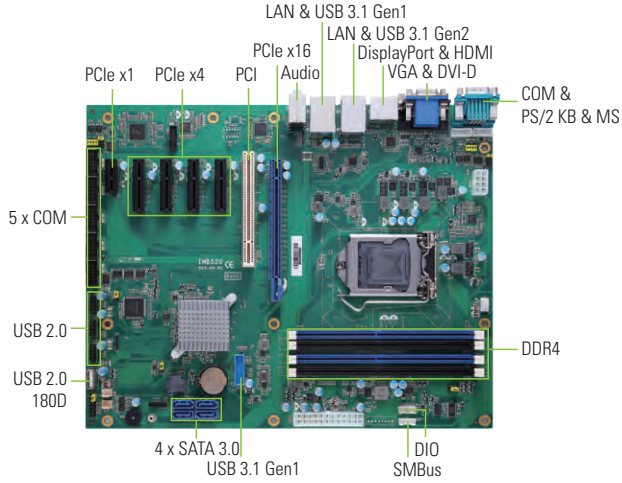
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IMB521

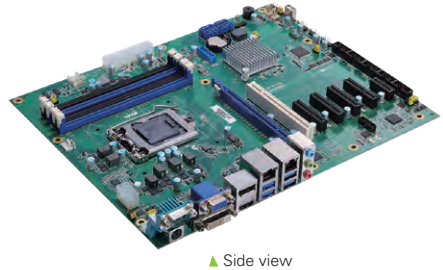
ATX Motherboard with LGA1151 Socket 8th Gen Intel® Core™, Xeon® E Processor, Intel® C246, USB 3.1 Gen2, SATA 3.0, Dual LAN, VGA, DisplayPort, DVI-D, and HDMI

Features

- LGA1151 socket 8th gen Intel® Core™ i7/i5/i3, Xeon® E, Pentium® or Celeron® processor (Coffee Lake)
- Four 288-pin DDR4-2133/2400 ECC DIMM for up to 64GB of memory
- DisplayPort, VGA, DVI-D and HDMI with triple-view supported
- 4 SATA-600 with RAID 0/1/5/10
- 2 USB 3.1 Gen2 and four USB 3.1 Gen1
- TPM 2.0 supported (optional)



TripleView | USB 3.0 | DDR4



▲ Side view

Core System

CPU	LGA1151 socket 8th gen Intel® Core™ i7/i5/i3, Xeon® E, Pentium® or Celeron® processor
System Memory	4 x 288-pin DDR4-2133/2400 ECC DIMM, up to 64GB
Chipset	Intel® C246
BIOS	AMI BIOS
SSD	N/A
Watchdog Timer	255 levels, 1 to 255 sec.
Expansion Interface	1 x PCIe x16 slot 4 x PCIe x4 slot 1 x PCIe x1 slot 1 x PCI
Battery	Lithium 3 V/ 220 mAH
Dimensions	305 x 244 mm
Board Thickness	1.6 mm
Operating Temperature	0°C to +60°C (+32°F to +140°F)
Humidity	10% to 95% relative humidity, non-condensing

I/O

SATA	4 x SATA-600 with RAID 0/1/5/10
Hardware Monitoring	Detect CPU/system temperature, voltage and supports Smart fan control
Ethernet	1 x 10/100/1000 Mbps Ethernet with Intel® i219-LM; supports Wake-on-LAN, PXE Boot ROM, iAMT 1 x 10/100/1000 Mbps Ethernet with Intel® i211-AT; supports Wake-on-LAN, PXE Boot ROM
Audio	HD Codec audio as MIC-in/Line-in/Line-out with Realtek ALC662
USB	2 x USB 3.1 Gen2 (rear I/O) 4 x USB 3.1 Gen1 (rear I/O, internal box header) 7 x USB 2.0 (pin header, 180D type A)
Serial	4 x RS-232 (Internal box header) 2 x RS-232/422/485 (COM 1: rear, COM 2: internal box header)
PS/2 Combo Port	1 x PS/2 keyboard and mouse
TPM	TPM 2.0 (optional)
SMBus	Yes
Digital I/O	8-channel programmable

Display

Graphic	Intel® HD Graphic
Memory Size	Share system memory
Display Interface	1 x VGA 1 x DVI-D 1 x HDMI 1 x DisplayPort

Ordering Information

Standard	
IMB521	ATX motherboard with LGA1151 socket 8th gen Intel® Core™ i7/i5/i3, Xeon® E, Pentium® or Celeron® processor, Intel® C246, USB 3.1 Gen2, SATA 3.0, 2 GbE LAN, VGA, DisplayPort, DVI-D, and HDMI
Optional	
5938A808010E	2 x USB 2.0 cable with bracket, P=2.54 mm, L=190 mm
5938A808020E	2 x USB 2.0 cable with bracket, P=2.54 mm, L=400 mm
5948C122800E	2 x USB 3.1 Gen1 cable with bracket, L=400 mm
59380000290E	PS/2 keyboard & mouse cable with bracket
593826A0000E	SATA signal cable/red, L=500 mm
59384500100E	Audio cable with bracket, P=2.0 mm, L=450 mm
59380402010E	1 x COM port cable with bracket, P=2.54 mm, L=300 mm
59380703000E	2 x COM port cable with bracket, P=2.54 mm, L=300 mm
83935151000E	TPM 2.0 module (AX93515)

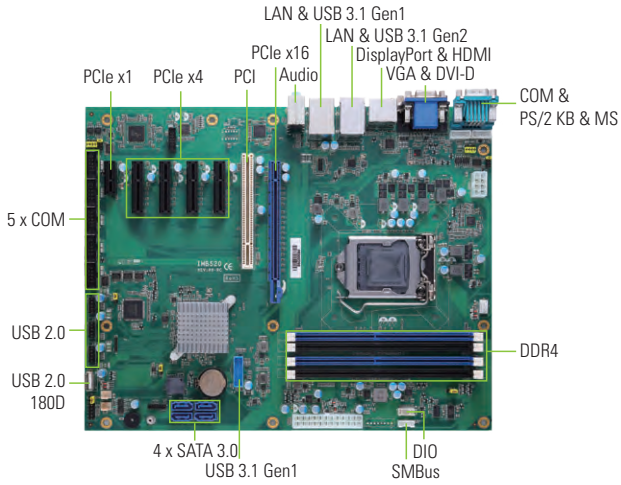
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IMB520

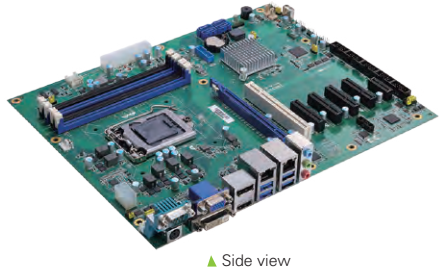
ATX Motherboard with LGA1151 Socket 8th Gen Intel® Core™ Processor, Intel® Q370, USB 3.1 Gen2, SATA 3.0, Dual LAN, VGA, DisplayPort, DVI-D, and HDMI

Features

- LGA1151 socket 8th gen Intel® Core™ i7/i5/i3, Pentium® & Celeron® processor (Coffee Lake)
- Four 288-pin DDR4-2666/2400 DIMM for up to 64GB of memory
- VGA, DisplayPort, DVI-D and HDMI with triple-view supported
- 4 SATA-600 with RAID 0/1/5/10
- Two USB 3.1 Gen2 and four USB 3.1 Gen1
- TPM 2.0 supported (optional)



TripleView | USB 3.0 | DDR4



▲ Side view

Core System

CPU	LGA1151 socket 8th gen Intel® Core™ i7/i5/i3, Pentium® & Celeron® processor
System Memory	4 x 288-pin DDR4-2666/2400 DIMM, up to 64GB
Chipset	Intel® Q370
BIOS	AMI BIOS
SSD	N/A
Watchdog Timer	255 levels, 1 to 255 sec.
Expansion Interface	1 x PCIe x16 slot 4 x PCIe x4 slot 1 x PCIe x1 slot 1 x PCI
Battery	Lithium 3 V/ 220 mAH
Dimensions	305 x 244 mm
Board Thickness	1.6 mm
Operating Temperature	0°C to +60°C (+32°F to +140°F)
Humidity	10% to 95% relative humidity, non-condensing

I/O

SATA	4 x SATA-600 with RAID 0/1/5/10
Hardware Monitoring	Detect CPU/system temperature, voltage and supports Smart fan control
Ethernet	1x 10/100/1000 Mbps Ethernet with Intel® i219-LM; supports Wake-on-LAN, PXE Boot ROM, iAMT 1 x 10/100/1000 Mbps Ethernet with Intel® i211-AT; supports Wake-on-LAN, PXE Boot ROM
Audio	HD Codec audio as MIC-in/Line-in/Line-out with Realtek ALC662
USB	2 x USB 3.1 Gen2 (rear I/O) 4 x USB 3.1 Gen1 (rear I/O, internal box header) 7 x USB 2.0 (pin header, 180D type A)
Serial	4 x RS-232 (Internal box header) 2 x RS-232/422/485 (COM 1: rear, COM 2: internal box header)
PS/2 Combo Port	1 x PS/2 keyboard and mouse
TPM	TPM 2.0 (optional)
SMBus	Yes
Digital I/O	8-channel programmable

Display

Graphic	Intel® HD Graphic
Memory Size	Share system memory
Display Interface	1 x VGA 1 x DVI-D 1 x HDMI 1 x DisplayPort

Ordering Information

Standard	
IMB520	ATX motherboard with LGA1151 socket 8th gen Intel® Core™ i7/i5/i3, Pentium® & Celeron® processor, Intel® Q370, USB 3.1 Gen2, SATA 3.0, 2 GbE LAN, VGA, DisplayPort, DVI-D, and HDMI
Optional	
5938A808010E	2 x USB 2.0 cable with bracket, P=2.54 mm, L=190 mm
5938A808020E	2 x USB 2.0 cable with bracket, P=2.54 mm, L=400 mm
5948C122800E	2 x USB 3.1 Gen1 cable with bracket, L=400 mm
59380000290E	PS/2 keyboard & mouse cable with bracket
593826A0000E	SATA signal cable/red, L=500 mm
59384500100E	Audio cable with bracket, P=2.0 mm, L=450 mm
59380402010E	1 x COM port cable with bracket, P=2.54 mm, L=300 mm
59380703000E	2 x COM port cable with bracket, P=2.54 mm, L=300 mm
83935151000E	TPM 2.0 module (AX93515)

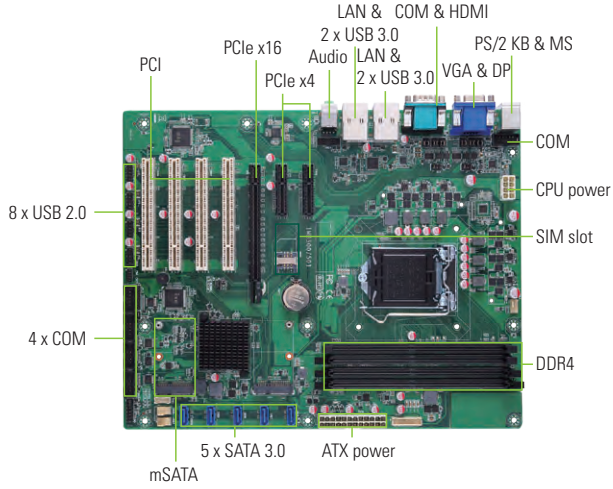
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IMB500

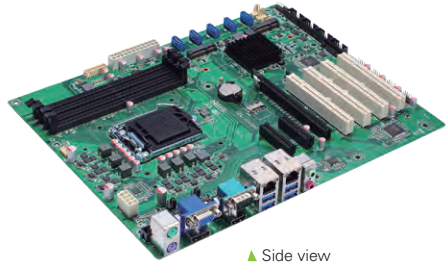
ATX Motherboard with LGA1151 Socket 7th/6th Gen Intel® Core™ Processor, Intel® Q170, USB 3.0, SATA 3.0, Dual LAN, VGA, DisplayPort, HDMI and mSATA

Features

- LGA1151 socket 7th/6th gen Intel® Core™ i7/i5/i3, Pentium® & Celeron® processor (Kaby Lake/Skylake)
- Four 288-pin DDR4-2400/2133/1866 DIMM for up to 64GB of memory
- DisplayPort, HDMI and VGA with triple-view supported
- 5 SATA-600 with RAID 0/1/5/10
- 4 USB 3.0 and 8 USB 2.0
- mSATA supported
- 1 PCI Express Mini Card slot







▲ Side view

Core System

CPU	LGA1151 socket 7th/6th gen Intel® Core™ i7/i5/i3, Pentium® & Celeron® processor
System Memory	4 x 288-pin DDR4-2400/2133/1866 DIMM, up to 64GB
Chipset	Intel® Q170
BIOS	AMI BIOS
SSD	N/A
Watchdog Timer	255 levels, 1 to 255 sec.
Expansion Interface	1 x PCIe x16 slot 2 x PCIe x4 slot 4 x PCI slot 1 x PCI Express Mini Card slot 1 x SIM slot
Battery	Lithium 3 V/ 220 mAH
Dimensions	305 x 244 mm
Board Thickness	1.6 mm
Operating Temperature	0°C to +60°C (+32°F to +140°F)
Humidity	10% to 95% relative humidity, non-condensing

I/O

SATA	5 x SATA-600 with RAID 0/1/5/10 1 x mSATA
Hardware Monitoring	Detect CPU/system temperature, voltage and supports Smart fan control
Ethernet	1x 10/100/1000 Mbps Ethernet with Intel® i219-LM; supports Wake-on-LAN, PXE Boot ROM, iAMT 1 x 10/100/1000 Mbps Ethernet with Intel® i210-AT; supports Wake-on-LAN, PXE Boot ROM
Audio	HD Codec audio as MIC-in/Line-in/Line-out with Realtek ALC662
USB	4 x USB 3.0 8 x USB 2.0
Serial	4 x RS-232 (Internal box header) 2 x RS-232/422/485 (COM 1: rear I/O; COM 2: internal box header)
PS/2 Combo Port	1 x PS/2 keyboard and mouse
TPM	N/A
SMBus	Yes
Digital I/O	8-channel programmable

Display

Graphic	Intel® HD Graphic
Memory Size	Share system memory
Display Interface	1 x DisplayPort 1 x HDMI 1 x VGA

Ordering Information

Standard	
IMB500 (P/N: E38F500101)	ATX motherboard with LGA1151 socket 7th/6th gen Intel® Core™ i7/i5/i3, Pentium® & Celeron® processor, Intel® Q170, USB 3.0, SATA 3.0, 2 GbE LAN, VGA, DisplayPort, HDMI and mSATA
Optional	
5938A808010E	2 x USB 2.0 cable with bracket, P=2.54 mm, L=190 mm
5938A808020E	2 x USB 2.0 cable with bracket, P=2.54 mm, L=400 mm
593826A0000E	SATA signal cable/red, L=500 mm
59384500100E	Audio cable with bracket, P=2.0 mm, L=450 mm
59380402010E	1 x COM port cable with bracket, P=2.54 mm, L=300 mm
59380703000E	2 x COM port cable with bracket, P=2.54 mm, L=300 mm

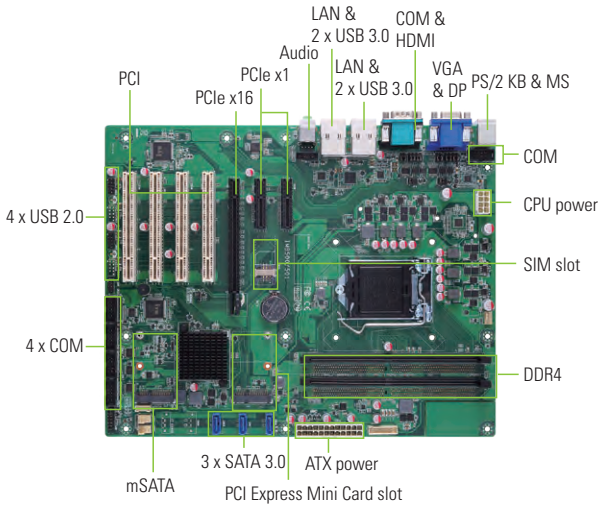
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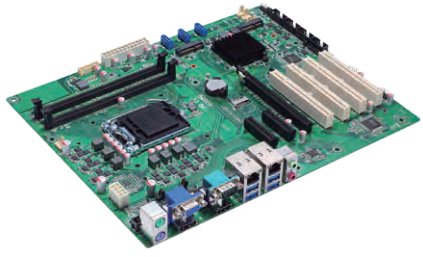
IMB501

ATX Motherboard with LGA1151 Socket 7th/6th Gen Intel® Core™ Processor, Intel® H110, USB 3.0, SATA 3.0, Dual LAN, VGA, DisplayPort, HDMI and mSATA

Features

- LGA1151 socket 7th/6th gen Intel® Core™ i7/i5/i3, Pentium® & Celeron® processor (Kaby Lake/Skylake)
- Two 288-pin DDR4-2400/2133/1866 DIMM for up to 32GB of memory
- DisplayPort, HDMI and VGA with dual-view supported
- 3 SATA-600 and 1 mSATA
- 4 USB 3.0 and 4 USB 2.0
- 1 PCI Express Mini Card slot





▲ Side view

DualView | PCIe Mini | USB 3.0 | DDR4

Core System

CPU	LGA1151 socket 7th/6th gen Intel® Core™ i7/i5/i3, Pentium® & Celeron® processor
System Memory	2 x 288-pin DDR4-2400/2133/1866 DIMM, up to 32GB
Chipset	Intel® H110
BIOS	AMI BIOS
SSD	N/A
Watchdog Timer	255 levels, 1 to 255 sec.
Expansion Interface	1 x PCIe x16 slot 2 x PCIe x4 slot (only support x1 signal) 4 x PCI slot 1 x PCI Express Mini Card slot 1 x SIM slot
Battery	Lithium 3 V/220 mAH
Dimensions	305 x 244 mm
Board Thickness	1.6 mm
Operating Temperature	0°C to +60°C (+32°F to +140°F)
Humidity	10% to 95% relative humidity, non-condensing

I/O

SATA	3 x SATA-600 1 x mSATA
Hardware Monitoring	Detect CPU/system temperature, voltage and supports Smart fan control
Ethernet	1x 10/100/1000 Mbps Ethernet with Intel® i219-LM; supports Wake-on-LAN, PXE Boot ROM 1 x 10/100/1000 Mbps Ethernet with Intel® i210-AT; supports Wake-on-LAN, PXE Boot ROM
Audio	HD Codec audio as Mic-in/Line-in/Line-out with Realtek ALC662
USB	4 x USB 3.0 4 x USB 2.0
Serial	4 x RS-232 (Internal box header) 2 x RS-232/422/485 (COM 1: rear IO, COM 2: internal box header)
PS/2 Combo Port	1 x PS/2 keyboard and mouse
TPM	N/A
SMBus	Yes
Digital I/O	8-channel programmable

Display

Graphic	Intel® HD Graphic
Memory Size	Share system memory
Display Interface	1 x DisplayPort 1 x HDMI 1 x VGA

Ordering Information

Standard	
IMB501 (P/N: E38M501101)	ATX motherboard with LGA1151 socket 7th/6th gen Intel® Core™ i7/i5/i3, Pentium® & Celeron® processor, Intel® H110, USB 3.0, SATA 3.0, 2 GbE LAN, VGA, DisplayPort, HDMI and mSATA
Optional	
5938A808010E	2 x USB 2.0 cable with bracket, P=2.54 mm, L=190 mm
5938A808020E	2 x USB 2.0 cable with bracket, P=2.54 mm, L=400 mm
593826A0000E	SATA signal cable/red, L=500 mm
59384500100E	Audio cable with bracket, P=2.0 mm, L=450 mm
59380402010E	1 x COM port cable with bracket, P=2.54 mm, L=300 mm
59380703000E	2 x COM port cable with bracket, P=2.54 mm, L=300 mm

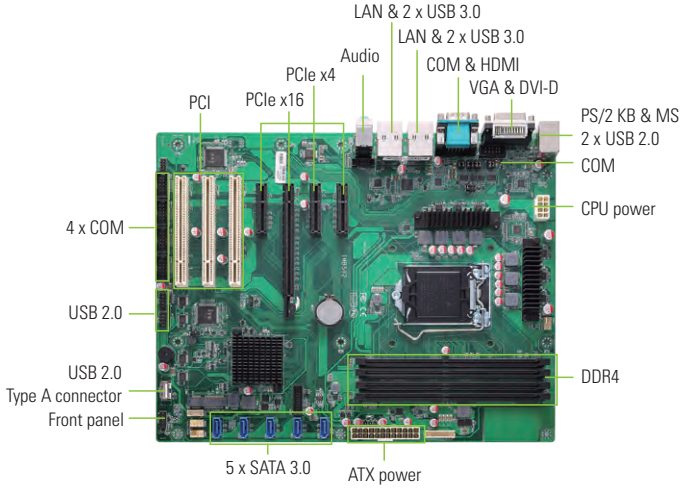
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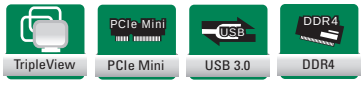
IMB502

ATX Motherboard with LGA1151 Socket 7th/6th Gen Intel® Core™ Processor, Intel® Q170, USB 3.0, SATA 3.0, Dual LAN, VGA, DVI-D and HDMI

Features

- LGA1151 socket 7th/6th gen Intel® Core™ i7/i5/i3, Pentium® & Celeron® processor (Kaby Lake/Skylake)
- Four 288-pin DDR4-2400/2133/1866 DIMM for up to 64GB of memory
- VGA, DVI-D and HDMI with triple-view supported
- 5 SATA-600 with RAID 0/1/5/10
- 6 USB 3.0 and 7 USB 2.0



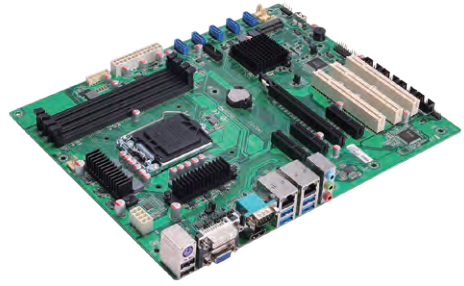


Core System

CPU	LGA1151 socket 7th/6th gen Intel® Core™ i7/i5/i3, Pentium® & Celeron® processor
System Memory	4 x 288-pin DDR4-2400/2133/1866 DIMM, up to 64GB
Chipset	Intel® Q170
BIOS	AMI BIOS
SSD	N/A
Watchdog Timer	255 levels, 1 to 255 sec.
Expansion Interface	1 x PCIe x16 slot 3 x PCIe x4 slot 3 x PCI slot
Battery	Lithium 3 V/ 220 mAH
Dimensions	305 x 244 mm
Board Thickness	1.6 mm
Operating Temperature	0°C to +60°C (+32°F to +140°F)
Humidity	10% to 95% relative humidity, non-condensing

I/O

SATA	5 x SATA-600 with RAID 0/1/5/10
Hardware Monitoring	Detect CPU/system temperature, voltage and supports Smart fan control
Ethernet	1x 10/100/1000 Mbps Ethernet with Intel® i219-LM; supports Wake-on-LAN, PXE Boot ROM, iAMT 1 x 10/100/1000 Mbps Ethernet with Intel® i211-AT; supports Wake-on-LAN, PXE Boot ROM
Audio	HD Codec audio as MIC-in/Line-in/Line-out with Realtek ALC662
USB	6 x USB 3.0 (4 ports on rear I/O; 2 ports on internal box header) 7 x USB 2.0 (2 ports on rear I/O; 4 ports on internal pin-header; 1 port USB Type A connector onboard)
Serial	5 x RS-232 (Internal box header) 1 x RS-232/422/485 (COM 1: rear)
PS/2 Combo Port	1 x PS/2 keyboard and mouse
TPM	N/A
SMBus	Yes
Digital I/O	8 channels programmable



▲ Side view

Display

Graphic	Intel® HD Graphic
Memory Size	Share system memory
Display Interface	1 x VGA 1 x DVI-D 1 x HDMI

Ordering Information

Standard	
IMB502 (P/N: E38F502101)	ATX motherboard with LGA1151 socket 7th/6th gen Intel® Core™ i7/i5/i3, Pentium® & Celeron® processor, Intel® Q170, USB 3.0, SATA 3.0, 2 GbE LAN, VGA, DVI-D, and HDMI

Optional	
5938A808010E	2 x USB 2.0 cable with bracket, P=2.54 mm, L=190 mm
5938A808020E	2 x USB 2.0 cable with bracket, P=2.54 mm, L=400 mm
5948C122800E	2 x USB 3.1 Gen1 cable with bracket, L=400 mm
593826A0000E	SATA signal cable/red, L=500 mm
59384500100E	Audio cable with bracket, P=2.0 mm, L=450 mm
59380402010E	1 x COM port cable with bracket, P=2.54 mm, L=300 mm
59380703000E	2 x COM port cable with bracket, P=2.54 mm, L=300 mm

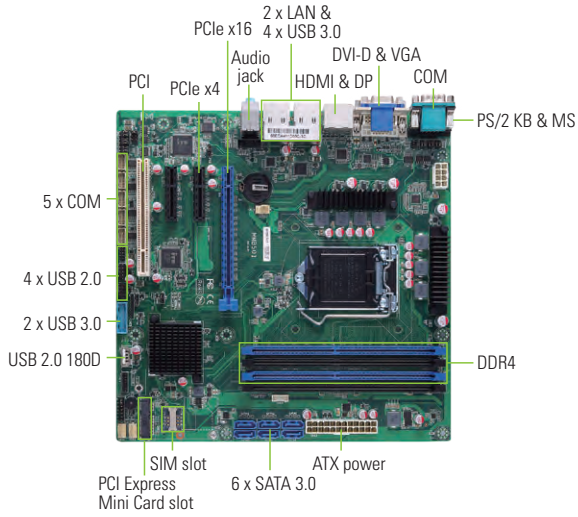
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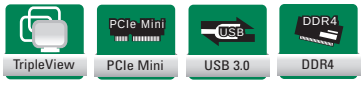
MMB501

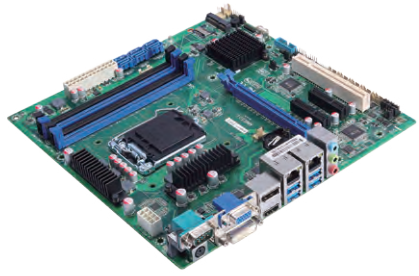
Micro ATX Motherboard with LGA1151 Socket 7th/6th Gen Intel® Core™ Processor, Intel® Q170, USB 3.0, SATA 3.0, Dual LAN, VGA, DisplayPort, DVI-D, and HDMI

Features

- LGA1151 socket 7th/6th gen Intel® Core™ i7/i5/i3, Pentium® & Celeron® processor (Kaby Lake/Skylake)
- Four 288-pin DDR4-2133/2400 DIMM for up to 64GB of memory
- DisplayPort, VGA, DVI-D and HDMI with triple-view supported
- 6 SATA-600 with RAID 0/1/5/10
- 6 USB 3.0 and 5 USB 2.0







▲ Side view

Core System

CPU	LGA1151 socket 7th/6th gen Intel® Core™ i7/i5/i3, Pentium® & Celeron® processor
System Memory	4 x 288-pin DDR4-2133/2400 DIMM, up to 64GB
Chipset	Intel® Q170
BIOS	AMI BIOS
SSD	N/A
Watchdog Timer	255 levels, 1 to 255 sec.
Expansion Interface	1 x PCIe x16 slot 2 x PCIe x4 slot 1 x PCI slot 1 x Full-size PCI Express Mini Card with SIM slot
Battery	Lithium 3 V/ 220 mAH
Dimensions	244 x 244 mm
Board Thickness	1.6 mm
Operating Temperature	0°C to +60°C (+32°F to +140°F)
Humidity	10% to 95% relative humidity, non-condensing

I/O

SATA	6 x SATA-600 with RAID 0/1/5/10
Hardware Monitoring	Detect CPU/system temperature, voltage and supports Smart fan control
Ethernet	1 x 10/100/1000 Mbps Ethernet with Intel® i219LM; supports Wake-on-LAN, PXE Boot ROM, iAMT 1 x 10/100/1000 Mbps Ethernet with Intel® i211-AT; supports Wake-on-LAN, PXE Boot ROM
Audio	HD Codec audio as MIC-in/Line-in/Line-out with Realtek ALC662
USB	6 x USB 3.0 (4 ports on rear I/O; 2 internal box headers) 5 x USB 2.0 (4 ports form internal pin header; 1 USB 180D Type A)
Serial	4 x RS-232 (Internal 2.0 pitch wafer) 1 x RS-232/422/485 (rear I/O) 1 x RS-232/422/485 (Internal 2.0 picth wafer)
PS/2 Combo Port	1 x PS/2 keyboard and mouse
TPM	TPM 2.0 (optional)
SMBus	Yes
Digital I/O	8-channel programmable

Display

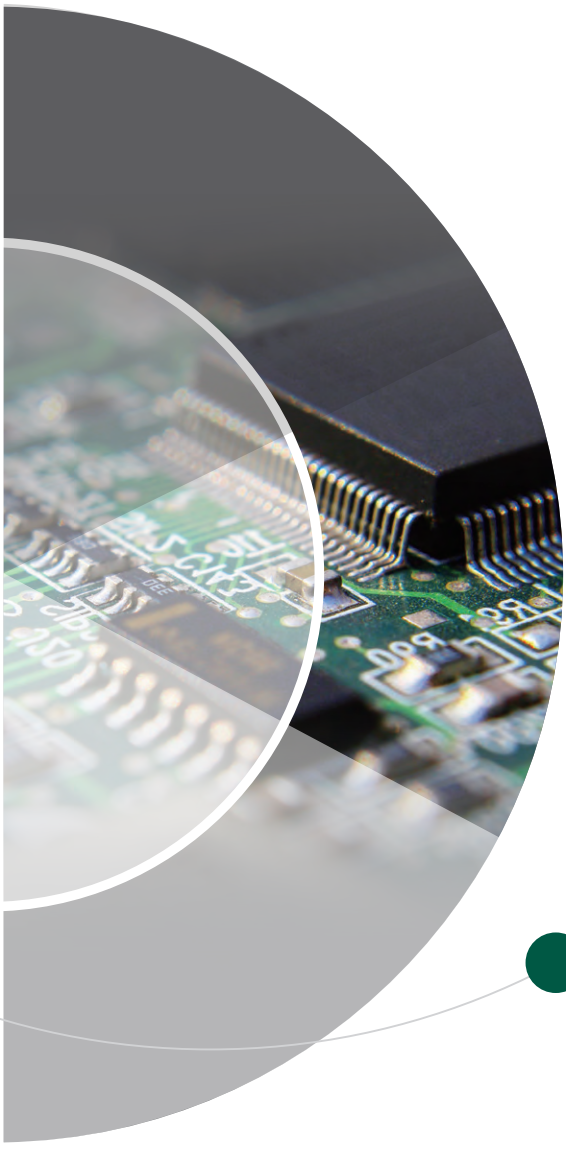
Graphic	Intel® HD Graphic
Memory Size	Share system memory
Display Interface	1 x VGA 1 x DVI-D 1 x HDMI 1 x DisplayPort

Ordering Information

Standard	
MMB501 (P/N: E38W501101)	Micro ATX motherboard with LGA1151 socket 7th/6th gen Intel® Core™ i7/i5/i3, Pentium® & Celeron® processor, Intel® Q170, USB 3.0, SATA 3.0, 2 GbE LAN, VGA, DisplayPort, DVI-D, and HDMI

Optional	
5938A808010E	2 x USB 2.0 cable with bracket, P=2.54 mm, L=190 mm
5938A808020E	2 x USB 2.0 cable with bracket, P=2.54 mm, L=400 mm
5948C122800E	2 x USB 3.1 Gen1 cable with bracket, L=400 mm
59380000290E	PS/2 keyboard & mouse cable with bracket
593826A0000E	SATA signal cable/red, L=500 mm
59384500100E	Audio cable with bracket, P=2.0 mm, L=450 mm
594M5002100E	2 x COM port with bracket, P=2.0 mm, L=300 mm
83935151000E	TPM 2.0 module (AX93515)

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System on Modules

3.5" Embedded Boards

Pico-ITX SBCs

Mini-ITX Motherboards

ATX/Mirco ATX Motherboards

Slot CPU Cards

ARM-based Embedded Boards

Smart Display Modules

PCI Express Cards

Boards and Modules

6 Slot CPU Cards

The Slot CPU card family is featured by Intel® Core™ processors. The PICMG 1.3 full-size CPU card is ideal for performance-demanding and bandwidth-concerned applications.

	Selection Guide		93
	SHB150	PICMG 1.3 Full-size CPU Card with LGA1151 8th Gen Intel® Core™ Processor, Intel® C246/Q370/H310, SATA3, USB 3.1 Gen1/Gen2, Dual LAN and DVI-I	95
	SHB140	PICMG 1.3 Full-size CPU Card with LGA1151 7th/6th Gen Intel® Core™ Processor, Intel® Q170/H110, SATA3, USB 3.0, Dual LAN and DVI-I	96
	SHB130	PICMG 1.3 Full-size CPU Card with LGA1150 4th Gen Intel® Core™ i7/i5/i3 Processor, Intel® Q87, SATA3, USB 3.0, DVI-D, VGA, DisplayPort and Dual LAN	97
NEW	SHB250	PICMG 1.3 Half-size CPU Card with LGA1151 9th/8th Gen Intel® Core™ i7/i5/i3, Xeon® E, Pentium® or Celeron® Processor, Intel® C246/Q370/H310, SATA 3.0, USB 3.1 Gen1, LAN and DVI-I	98

PICMG 1.3 Full-szie/Half-size CPU Cards

Selection Guide







Features\Models			SHB150	SHB140	SHB130
Form Factor			PICMG 1.3	PICMG 1.3	PICMG 1.3
CPU Level			8th gen Intel® Core™, Xeon® E, Pentium® or Celeron®	7th/6th gen Intel® Core™ i7/i5/i3	4th gen Intel® Core™ & Celeron®
CPU Socket			LGA1151	LGA1151	LGA1150
Core Logic Chipset			Intel® C246/Q370/H310	Intel® Q170/H110	Intel® Q87
Memory Type			DDR4-2666/2400	DDR4-2400/2133	DDR3-1600/1333
Max. DRAM Capacity			32GB	32GB	16GB
Cache RAM Capacity			Integrated in CPU	Intergrated in CPU	Intergrated in CPU
BIOS			AMI UEFI BIOS with OA 3.0 built	AMI UEFI BIOS with OA 3.0 built	AMI UEFI BIOS with OA 3.0 built
Watchdog Timer			255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.
SSD			M.2 Key M 2280, PCIe x4 signal (C246, Q370)	N/A	N/A
Digital I/O			N/A	N/A	N/A
I/O	**IDE**		N/A	N/A	N/A
	SATA		Q370: 6 x SATA-600, support RAID 0/1/5/10 H310: 4 x SATA-600	Q170: 6 x SATA-600; support RAID 0/1/5/10 H110: 4 x SATA-600	6 x SATA-600; support RAID 0/1/5/10
	FDD		N/A	N/A	N/A
	LPT		1 x LPT	N/A	1 x LPT
	Serial	**COM 1**	RS-232/422/485	RS-232/422/485	RS-232/422/485
		COM 2	RS-232/422/485	RS-232	RS-232
		COM 3	RS-232	RS-232	RS-232
		COM 4	RS-232	RS-232	RS-232
		COM 5	N/A	RS-232	RS-232
		COM 6	N/A	RS-232	N/A
	USB		Q370: 2 x USB 3.1 Gen2, 4 x USB 3.1 Gen1, 6 x USB 2.0 H310: 4 x USB 3.1 Gen1, 6 x USB 2.0	10 x USB 2.0, 2 x USB 3.0	10 x USB 2.0, 4 x USB 3.0
	IrDA		N/A	N/A	N/A
IEEE 1394a			N/A	N/A	N/A
Display			1 x DVI-I	1 x DVI-I	1 x VGA or DisplayPort 1 x DVI-D
Ethernet			2 x 10/100/1000 Mbps Ethernet	2 x 10/100/1000 Mbps Ethernet	2 x 10/100/1000 Mbps Ethernet
Audio			HD Codec	HD Codec	HD Codec
Hardware Monitoring			Yes	Yes	Yes
SMBus			Yes	Yes	Yes
Expansion Interface			1 x PCIe x16 1 x PCIe x4 or 4 x PCIe x1 4 x PCI	1 x PCIe x16 1 x PCIe x4 or 4 x PCIe x1 4 x PCI	1 x PCIe x16 1 x PCIe x4 or 4 x PCIe x1 4 x PCI
Power Management			ACPI	ACPI	ACPI
Battery			Lithium	Lithium	Lithium
Operating Temperature			0°C to +60°C (+32°F to +140°F)	0°C to +60°C (+32°F to +140°F)	0°C to +60°C (+32°F to +140°F)
Relative Humidity			10% to 95%, non-condensing	10% to 95%, non-condensing	10% to 95%, non-condensing
EMI Compliance			CE	CE	CE

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NEW



Features\Models			SHB250
Form Factor			PICMG 1.3
CPU Level			9th/8th gen Intel® Core™, Xeon® E, Pentium® or Celeron®
CPU Socket			LGA1151
Core Logic Chipset			Intel® C246/Q370/H310
Memory Type			DDR4-2666/2400
Max. DRAM Capacity			64GB
Cache RAM Capacity			Integrated in CPU
BIOS			AMI UEFI BIOS with OA 3.0 built
Watchdog Timer			255 levels, 1 to 255 sec.
SSD			M.2 Key M 2242
Digital I/O			N/A
I/O	IDE		N/A
	SATA		C246/Q370: 2 x SATA-600, supports RAID 0/1/5/10 H310: 2 x SATA-600
	FDD		N/A
	LPT		N/A
	Serial	COM 1	RS-232/422/485
		COM 2	RS-232/422/485
		COM 3	N/A
		COM 4	N/A
		COM 5	N/A
		COM 6	N/A
	USB		4 x USB 3.1 Gen1, 4 x USB 2.0
	IrDA		N/A
IEEE 1394a			N/A
Display			1 x DVI-I 1 x DisplayPort
Ethernet			2 x 10/100/1000 Mbps Ethernet
Audio			HD Codec
Hardware Monitoring			Yes
SMBus			Yes
Expansion Interface			1 x PCIe x16 1 x PCIe x4 or 4 x PCIe x1
Power Management			ACPI
Battery			Lithium
Operating Temperature			0°C to +60°C (+32°F to +140°F)
Relative Humidity			10% to 95%, non-condensing
EMI Compliance			CE

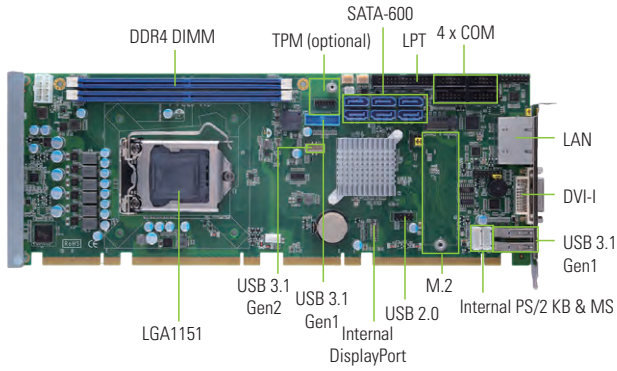
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SHB150

PICMG 1.3 Full-size CPU Card with LGA1151 8th Gen Intel® Core™ i7/i5/i3, Xeon® E, Pentium® or Celeron® Processor, Intel® C246/Q370/H310, SATA 3.0, USB 3.1 Gen1/Gen2, Dual LAN and DVI-I

Features

- LGA1151 8th gen Intel® Core™ i7/i5/i3, Xeon® E (C246), Pentium® or Celeron® processor (up to 95W)
- Intel® C246/Q370/H310 chipset
- 2 DDR4-2666/2400 Long-DIMM for up to 32GB of memory
- Supports Intel® AMT and vPro (C246/Q370)
- TPM 2.0 supported (optional)
- Supports M.2 Key M (C246/Q370)





Core System

CPU	LGA1151 8th gen Intel® Core™ i7/i5/i3, Xeon® E (C246), Pentium® or Celeron® processor (up to 95W)
System Memory	2 x 288-pin DDR4-2666/2400 un-buffered ECC Long-DIMM, up to 32GB (C246) 2 x 288-pin DDR4-2666/2400 un-buffered Long-DIMM, up to 32GB (Q370/H310)
Chipset	Intel® C246/Q370 (Intel® vPro supported) Intel® H310
BIOS	AMI UEFI BIOS
SSD	M.2 Key M 2280, PCIe x4 signal (C246, Q370)
Watchdog Timer	225 levels, 1 to 255 sec.
Expansion Interface	1 x PCIe x16 Gen3 1 x PCIe x4 or 4 x PCIe x1 Gen3 4 x 32-bit PCI bus masters
Battery	Lithium 3V/220 mAH
Power Requirements	TBC
Dimensions	338 x 126 mm
Board Thickness	1.6 mm
Operating Temperature	0°C to +60°C (+32°F to +140°F)
Humidity	10% to 95% relative humidity, non-condensing

I/O

SATA	C246/Q370: 6 x SATA-600, support RAID 0/1/5/10 H310: 4 x SATA-600
Hardware Monitoring	Detect CPU/system temperature, voltage and fan speed
Ethernet	1 x 10/100/1000 Mbps Ethernet with Intel® i219-LM; supports Wake-on-LAN, RPL/PXE Boot ROM, AMT 1 x 10/100/1000 Mbps Ethernet with Intel® i211-AT; supports Wake-on-LAN, RPL/PXE Boot ROM
Audio	HD Codec audio as MIC-in/Line-in/Line-out/Speaker-out with audio kit AX93242 (optional)
USB	C246/Q370: 2 x USB 3.1 Gen2, 4 x USB 3.1 Gen1 & 6 x USB 2.0 (2 ports onboard, 4 ports on SHB connector-C golden fingers) H310: 4 x USB 3.1 Gen1 & & 6 x USB 2.0 (2 ports onboard, 4 ports on SHB connector-C golden fingers)
Serial	2 x RS-232 2 x RS-232/422/485, mode selection by SW
PS/2 Combo Port	1 x PS/2 keyboard internal connector 1 x PS/2 mouse internal connector
TPM	TPM 2.0 module (optional)
SMBus	N/A
Others	1 x LPT 1 x Smart CPU fan 1 x Smart system fan

Display

Graphic	Intel® HD Graphic
Memory Size	Share system memory
Display Interface	1 x DVI-I 1 x DisplayPort (internal header)

Packing List

Standard	
User's manual/utility CD	

Ordering Information

Standard	
SHB150DGG-Q370 (P/N: E38C150103)	PICMG 1.3 full-size CPU card with LGA1151 socket, Intel® Q370, DVI-I, 2 GbE LAN, and PCIe x1 BIOS
SHB150DGG-Q370 (P/N: E38C150100)	PICMG 1.3 full-size CPU card with LGA1151 socket, Intel® Q370, DVI-I, 2 GbE LAN, and PCIe x4 BIOS
SHB150DGG-C246 (P/N: E38C150104)	PICMG 1.3 full-size CPU card with LGA1151 socket, Intel®C246, DVI-I, 2 GbE LAN, and PCIe x1 BIOS
SHB150DGG-C246 (P/N: E38C150101)	PICMG 1.3 full-size CPU card with LGA1151 socket, Intel® C246, DVI-I, 2 GbE LAN, and PCIe x4 BIOS
SHB150DGG-H310 (P/N: E38C150105)	PICMG 1.3 full-size CPU card with LGA1151 socket, Intel® H310, DVI-I, 2 GbE LAN, and PCIe x1 BIOS
SHB150DGG-H310 (P/N: E38C150102)	PICMG 1.3 full-size CPU card with LGA1151 socket, Intel® H310, DVI-I, 2 GbE LAN, and PCIe x4 BIOS

Optional	
5938A808010E	2 x USB 2.0 cable with bracket, P=2.54 mm, L=190 mm
5948C122800E	2 x USB 3.1 (Gen1) cable with bracket, L=400 mm
59401502800E	2 x USB 3.1 (Gen2) cable with bracket, L=400 mm
59380000290E	PS/2 keyboard & mouse cable with bracket
593826A0000E	SATA signal cable/red, L=500mm
E393242100	AX93242-RC HD audio converter kit
59380402010E	1 x COM port cable with bracket, P=2.54 mm, L=300 mm
59380703000E	2 x COM port cable with bracket, P=2.54 mm, L=300 mm
594826A0010E	DVI-I to DVI-D+VGA Y cable
83935151000E	TPM 2.0 module (AX93515)
83987091000E	DisplayPort kit

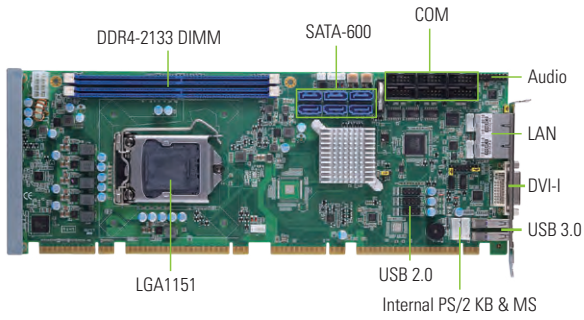
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SHB140

PICMG 1.3 Full-size CPU Card with LGA1151 7th/6th Gen Intel® Core™ Processor, Intel® Q170/H110, SATA3, USB 3.0, Dual LAN and DVI-I

Features

- LGA1151 7th/6th gen Intel® Core™ processor
- Intel® Q170/H110 chipset
- 2 DDR4-2400 un-buffered DIMM for up to 32GB of memory (Kaby Lake)
- Intel® AMT 11 (Q170)
- Optional TPM supported
- PCIe Gen3 at 8GT/s supported
- Intel® vPro supported
- 6 SATA-600 with RAID 0/1/5/10 (Q170)





Core System

CPU	LGA1151 socket 7th/6th gen Intel® Core™ processor, TDP up to 65W, Intel® vPro supported
System Memory	2 x 288-pin DDR4-2133/2400 un-buffered DIMM, up to 32GB
Chipset	Intel® Q170/H110
BIOS	AMI BIOS
SSD	N/A
Watchdog Timer	225 levels, 1 to 255 sec.
Expansion Interface	1 x PCIe x16 Gen3 1 x PCIe x4 or 4 x PCIe x1 Gen2 4 x 32-bit PCI bus masters
Battery	Lithium 3V/220 mAH
Power Requirements	Intel® Core™ i7-6700, 8GB DDR4-2133/2400 x 2 +5V @ 1.38A, +12V @ 2.13A, +5VSB @ 0.72A, +3.3V @ 0.54A
Dimensions	338 x 126 mm
Board Thickness	1.6 mm
Operating Temperature	0°C to +60°C (+32°F to +140°F)
Humidity	10% to 95% relative humidity, non-condensing

I/O

SATA	Q170: 6 x SATA-600, support RAID 0/1/5/10 H110: 4 x SATA-600
Hardware Monitoring	Detect CPU/system temperature, voltage and fan speed
Ethernet	1 x 10/100/1000 Mbps Ethernet with Intel® i219-LM; supports Wake-on-LAN, RPL/PXE Boot ROM, AMT 11 1 x 10/100/1000 Mbps Ethernet with Intel® i211-AT; supports Wake-on-LAN, RPL/PXE Boot ROM
Audio	HD Codec audio as MIC-in/Line-in/Line-out/Speaker-out with audio kit AX93242 (optional)
USB	Q170: 2 x USB 3.0 & 10 x USB 2.0 (6 ports onboard, 4 ports on SHB connector-C golden fingers) H110: 2 x USB 3.0 & 8 x USB 2.0 (4 ports onboard, 4 ports on SHB connector-C golden fingers)
Serial	5 x RS-232 1 x RS-232/422/485, mode selection by SW
PS/2 Combo Port	1 x PS/2 keyboard internal connector 1 x PS/2 mouse internal connector
TPM	Infineon SLB9635 for trusted platform (optional)
SMBus	N/A
Others	2 x Smart fan for system Fan1/Fan2

Display

Graphic	Intel® HD Graphic
Memory Size	Share system memory
Display Interface	1 x DVI-I

Packing List

Standard
Quick installation guide, user's manual/utility CD, cable

Cable

Part Number	Description	Qty
593826A0000E	SATA signal cable, 500 mm	1
5938402010E	1 x COM port cable with bracket, P=2.54 mm, L=300 mm	1

Ordering Information

Standard	
SHB140DGGA (P/N: E38C140101)	PICMG 1.3 full-size CPU card with LGA1151 socket, Intel® Q170, DVI-I, 2 GbE LAN, audio and PCIe x1
SHB140DGGA (P/N: E38C140102)	PICMG 1.3 full-size CPU card with LGA1151 socket, Intel® Q170, DVI-I, 2 GbE LAN, audio and PCIe x4
SHB140DGGA (P/N: E38C140107)	PICMG 1.3 full-size CPU card with LGA1151 socket, Intel® Q170, DVI-I, 2 GbE LAN, audio and PCIe x4, TPM (limited to MoQ)
SHB140DGGA (P/N: E38C140100)	PICMG 1.3 full-size CPU card with LGA1151 socket, Intel® H110, DVI-I, 2 GbE LAN, audio and PCIe x1
SHB140DGGA (P/N: E38C140104)	PICMG 1.3 full-size CPU card with LGA1151 socket, Intel® H110, DVI-I, 2 GbE LAN, audio and PCIe x4
SHB140DGGA (P/N: E38C140105)	PICMG 1.3 full-size CPU card with LGA1151 socket, Intel® H110, DVI-I, 2 GbE LAN, audio and PCIe x4, TPM (limited to MoQ)

Optional	
5938A808010E	2 x USB 2.0 cable with bracket, P=2.54 mm, L=190 mm
59380000290E	PS/2 keyboard & mouse cable with bracket
593826A0000E	SATA signal cable/red, L=500 mm
E393242100	AX93242-RC HD audio converter kit
5938402010E	1 x COM port cable with bracket, P=2.54 mm, L=300 mm
59380703000E	2 x COM port cable with bracket, P=2.54 mm, L=300 mm
594826A0010E	DVI-I to DVI-D+VGA Y cable

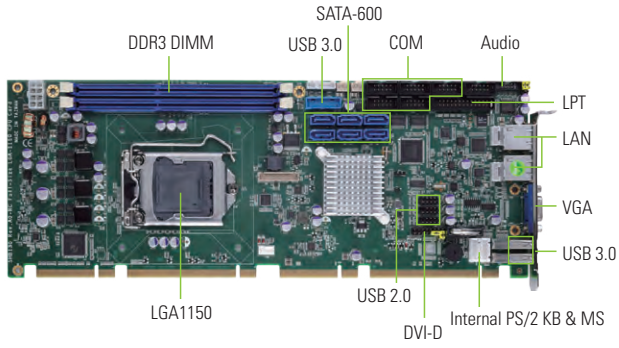
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SHB130

PICMG 1.3 Full-size CPU Card with LGA1150 4th Gen Intel® Core™ i7/i5/i3 Processor, Intel® Q87, SATA3, USB 3.0, DVI-D, VGA, DisplayPort and Dual LAN

Features

- LGA1150 socket 4th gen Intel® Core™ i7/i5/i3 processor (Haswell/Haswell Refresh)
- Intel® Q87 chipset
- 2 DDR3-1333/1600 DIMM for up to 16GB of memory
- Intel® AMT 9.0 & TPM supported (optional)
- PCIe Gen3 at 8GT/s supported
- DVI-D, VGA, DisplayPort (optional) with dual-view supported
- 6 SATA-600 with RAID 0/1/5/10
- USB 3.0 supported





Core System

CPU	LGA1150 socket 4th gen Intel® Core™ i7/i5/i3 processor (Haswell/Haswell Refresh), TDP up to 65W
System Memory	2 x 240-pin DDR3-1333/1600 DIMM, up to 16GB
Chipset	Intel® Q87
BIOS	AMI UEFI BIOS with OA 3.0 built
SSD	N/A
Watchdog Timer	225 levels, 1 to 255 sec.
Expansion Interface	1 x PCIe x16 Gen3 1 x PCIe x4 or 4 x PCIe x1 Gen2 4 x 32-bit PCI bus masters
Battery	Lithium 3V/220 mAH
Power Requirements	Intel® Core™ i7-4770S +5V @ 2.26A, +12V @ 4.68A, +5VSB @ 0.2A, +3.3V @ 2.3A
Dimensions	338 x 126 mm
Board Thickness	1.6 mm
Operating Temperature	0°C to +60°C (32°F to 140°F)
Humidity	10% to 95% relative humidity, non-condensing

I/O

SATA	6 x SATA-600; support RAID 0/1/5/10
Hardware Monitoring	Detect CPU/system temperature, voltage and fan speed
Ethernet	1 x 10/100/1000 Mbps Ethernet with Intel® i217-LM; supports Wake-on-LAN, RPL/PXE Boot ROM, AMT 9.0 1 x 10/100/1000 Mbps Ethernet with Intel® i210-AT; supports Wake-on-LAN, RPL/PXE Boot ROM
Audio	HD Codec audio as Mic-in/Line-in/Line-out/Speaker-out with ALC662
USB	10 x USB 2.0 4 x USB 3.0
Serial	4 x RS-232 1 x RS-232/422/485, mode selection by SW
PS/2 Combo Port	1 x PS/2 keyboard & mouse
TPM	Infineon SLB9635 for trusted platform (optional)
SMBus	N/A
Others	1 x LPT with SPP/EPP/ECP supported 2 x Smart fan for system Fan1/Fan2 1 x DIO (4-in & 4-out)

Display

Chipset	Intel® HD Graphics
Memory Size	Intel® DVMT 5.0
Display Interface	1 x VGA (default) 1 x DVI-D (header) 1 x DisplayPort (optional)

Packing List

Standard

Quick installation guide, user's manual/utility CD, cable

Cable

Part Number	Description	Qty
59380502000E	COM+print cable w/bracket	1
593826A0000E	SATA signal cable, 500 mm	1

Ordering Information

Standard

SHB130VGGA (P/N: E38C130101)	PICMG1.3 full-size CPU card with LGA1150 socket, Intel® Q87, VGA, DVI-D, 2 GbE LAN, audio and PCIe x4
SHB130PGGA (P/N: E38C130105)	PICMG1.3 full-size CPU card with LGA1150 socket, Intel® Q87, DisplayPort, DVI-D, 2 GbE LAN, audio and PCIe x1
SHB130VGGA (P/N: E38C130102)	PICMG1.3 full-size CPU card with LGA1150 socket, Intel® Q87, VGA, DVI-D, 2 GbE LAN, audio and PCIe x1

Optional

5938A808010E	2 x USB 2.0 cable with bracket, P=2.54 mm, L=190 mm
5948C122800E	2 x USB 3.1 (Gen1) cable with bracket, L=400 mm
59380000290E	PS/2 keyboard & mouse cable with bracket
593826A0000E	SATA signal cable/red, L=500 mm
59384500100E	Audio cable with bracket, P=2.0 mm, L=450 mm
59380402010E	1 x COM port cable with bracket, P=2.54 mm, L=300 mm
59380703000E	2 x COM port cable with bracket, P=2.54 mm, L=300 mm
594C1093500E	DVI cable 24-pin header to DVI-D, L=30 mm
71193221200E	DVI bracket

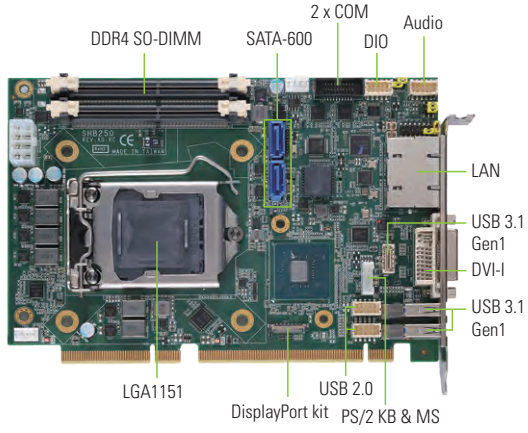
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SHB250 NEW

PICMG 1.3 Half-size CPU Card with LGA1151 9th/8th Gen Intel® Core™ i7/i5/i3, Xeon® E, Pentium® or Celeron® Processor, Intel® C246/Q370/H310, SATA 3.0, USB 3.1 Gen1, LAN and DVI-I

Features

- LGA1151 9th/8th gen Intel® Core™ i7/i5/i3, Xeon® E (C246), Pentium® or Celeron® processor (up to 95W)
- Intel® C246/Q370/H310 chipset
- 2 DDR4-2666/2400 SO-DIMM for up to 64GB of memory
- Supports M.2 slot (C246/Q370)
- Supports Intel® AMT and vPro (C246/Q370)
- TPM 2.0 supported





Core System

CPU	LGA1151 9th/8th gen Intel® Core™ i7/i5/i3, Xeon® E (C246), Pentium® or Celeron® processor (up to 95W)
System Memory	2 x 260-pin 2666/2400 with ECC un-buffered SO-DIMM, up to 64GB (C246) 2 x 260-pin 2666/2400 un-buffered SO-DIMM, up to 64GB (Q370/H310)
Chipset	Intel® C246/Q370 (Intel® vPro supported) Intel® H310
BIOS	AMI UEFI BIOS
Storage	M.2 Key M 2242
Watchdog Timer	225 levels, 1 to 255 sec.
Expansion Interface	1 x PCIe x16 Gen3 1 x PCIe x4 or 4 x PCIe x1 Gen3
Battery	Lithium 3V/220 mAH
Power Requirements	TBC
Dimensions	185 x 126 mm
Board Thickness	1.6 mm
Operating Temperature	0°C to +60°C (+32°F to +140°F)
Humidity	10% to 95% relative humidity, non-condensing

I/O

SATA	C246/Q370: 2 x SATA-600, support RAID 0/1/5/10 H310: 2 x SATA-600
Hardware Monitoring	Detect CPU/system temperature, voltage and fan speed
Ethernet	1 x 10/100/1000 Mbps Ethernet with Intel® i219-LM; supports Wake-on-LAN, RPL/PXE Boot ROM, AMT 1 x 10/100/1000 Mbps Ethernet with Intel® i211-AT; supports Wake-on-LAN, RPL/PXE Boot ROM
Audio	HD Codec audio as MIC-in/Line-in/Line-out/Speaker-out with Realtek ALC662
USB	4 x USB 3.1 Gen1 (2 ports in I/O, 2 ports in interanal box header) 4 x USB 2.0
Serial	2 x RS-232/422/485, mode selection by SW
PS/2 Combo Port	1 x PS/2 keyboard & mouse internal connector
TPM	TPM 2.0
DIO	8 channel programmable
Others	1 x Smart CPU fan 1 x Smart system fan

Display

Graphic	Intel® HD Graphic
Memory Size	Share system memory
Display Interface	1 x DVI-I 1 x DisplayPort (internal header)

Packing List

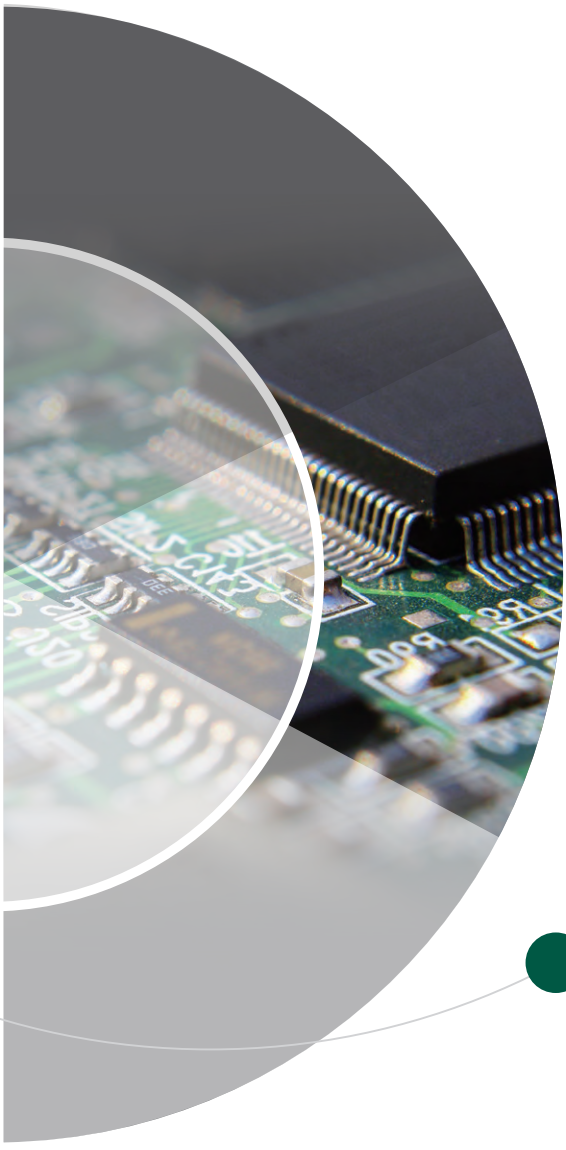
Standard
User's manual/utility CD

Ordering Information

Standard	
SHB250DGG-Q370	PICMG 1.3 half-size CPU card with LGA1151 socket, Intel® Q370, DVI-I, 2 GbE LAN, audio and PCIe x1
SHB250DGG-Q370	PICMG 1.3 half-size CPU card with LGA1151 socket, Intel® Q370, DVI-I, 2 GbE LAN, audio and PCIe x4
SHB250DGG-H310	PICMG 1.3 half-size CPU card with LGA1151 socket, Intel® H310, DVI-I, 2GbE LAN, audio and PCIe x1
SHB250DGG-H310	PICMG 1.3 half-size CPU card with LGA1151 socket, Intel® H310, DVI-I, 2GbE LAN, audio and PCIe x4
SHB250DGG-C246	PICMG 1.3 half-size CPU card with LGA1151 socket, Intel® C246, DVI-I, 2GbE LAN, audio and PCIe x1
SHB250DGG-C246	PICMG 1.3 half-size CPU card with LGA1151 socket, Intel® C246, DVI-I, 2GbE LAN, audio and PCIe x4

Optional	
59380000300E	2 x COM port, with bracket, P=1.27 X 2.54, L=300 mm
59401502800E	1 x USB 3.1 Gen2 cable with bracket 20P, L=400 mm
59382631000E	SBC82631 2 x USB 2.0 cable with bracket, L=180 mm
594C2302500E	PS/2 keyboard & mouse cable
593826A0000E	SATA signal cable/red, L=500mm
594826A0010E	DVI-I to DVI-D+VGA Y cable
83987091000E	DisplayPort kit

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System on Modules

3.5" Embedded Boards

Pico-ITX SBCs

Mini-ITX Motherboards

ATX/Mirco ATX Motherboards

Slot CPU Cards

ARM-based Embedded Boards

Smart Display Modules

PCI Express Cards

Boards and Modules

7 ARM-based Embedded Boards

Axiomtek provides ARM-based computer-on-modules and single board computers for smart energy, intelligent automatic factory, and smart transportation applications. These highly reliable and stable motherboards support package services for Android/Linux operating systems, providing a turnkey solution for customers to build up their ARM-based system solutions easily and efficiently. With professional NXP platform expertise and extensive board design experience, Axiomtek provides the highest quality and flexibility in board ODM selection.

	Selection Guide		101
NEW	SCM180	SMARC v2.0 SoM with i.MX8M Quad/Dual 1.5 GHz/1.3 GHz (Industrial) SoC, 4GB RAM, 64GB eMMC, CAN, MIPI CSI/DSI and HDMI 2.0	102
	Q7M120	Qseven v2.0 SoM with iMX6 Quad/DualLite 800 MHz (Industrial) SoC, 1GB RAM, 4GB eMMC, GbE LAN, Audio and CAN	103
	SCM120	SMARC v1.0 SoM with iMX6 Quad/DualLite 800 MHz (Industrial) SoC, 1GB RAM, 4GB eMMC, GbE LAN, Audio, CAN, MIPI and PCAM	104

ARM-based Embedded Boards

Selection Guide







Features\Models	SCM180	Q7M120	SCM120
Form Factor	SMARC v2.0	Qseven v2.0	SMARC v1.0
CPU Level	ARM Cortex™-A35	ARM Cortex™-A9 CPU 800 MHz/ 1 GHz	ARM Cortex™-A9 CPU 800 MHz/ 1 GHz
CPU Socket	Onboard	Onboard	Onboard
Core Logic Chipset	SoC integrated	SoC integrated	SoC integrated
Memory Type	LPDDR4-1600 onboard	DDR3-1600 onboard	DDR3-1600 onboard
Max. DRAM Capacity	4GB	1GB	1GB
RTC	Battery on the baseboard is required	Battery on the baseboard is required	Battery on the baseboard is required
Watchdog Timer	255 levels, 1 to 255 sec./min.	255 levels, 1 to 255 sec./min.	255 levels, 1 to 255 sec./min.
Storage	eMMC flash 8GB	eMMC flash 4GB	eMMC flash 4GB
Digital I/O	12 x GPIO	8 x GPIO	8 x GPIO
TPM	N/A	N/A	N/A
I/O Interface	1 x PCIe 2.0 1 x SATA 1 x USB 2.0 2 x USB 3.0 1 x I2S 2 x CANBus 3 x I²C 4 x COM 1 x HDMI 2 x MIPI CSI2 v1.1 (2 and 4 lane) 1 x QSPI with 2 chip select 1 x SPI with 2 chip select	1 x PCIe 1 x SATA 2 x USB 2.0 1 x I2S 2 x CANBus 3 x I²C 4 x COM 1 x Console 1 x HDMI 1 x 24-bit TTL 1 x SPI	1 x PCIe 1 x SATA 2 x USB 2.0 1 x I2S 2 x CANBus 3 x I²C 4 x COM 1 x Console 1 x MIPI PCAN 1 x HDMI 1 x 24-bit TTL 1 x SPI
Ethernet	1 x 10/100/1000 Mbps Ethernet	1 x 10/100/1000 Mbps Ethernet	1 x 10/100/1000 Mbps Ethernet
Power Input	+5V, 1A	+5V, 1A	+3V to +5.25V
OS	Linux Kernel	Linux Kernel 3.0.35	Linux Kernel 3.0.35
Operating Temperature	Commercial: 0°C to +70°C (-32°F to +158°F) Industrial: -40°C to +80°C (-40°F to +176°F)	-40°C to +85°C (-40°F to 185°F)	-40°C to +85°C (-40°F to 185°F)
Relative Humidity	10% - 95%, non-condensing	10% - 95%, non-condensing	10% - 95%, non-condensing

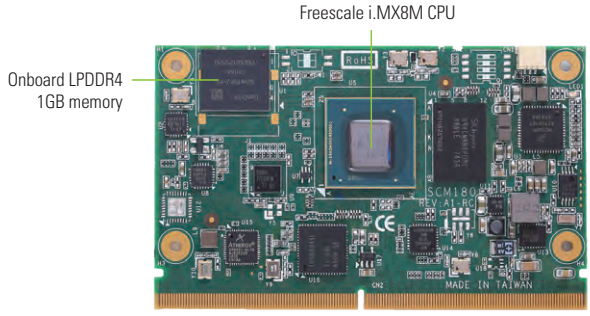
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SCM180 NEW

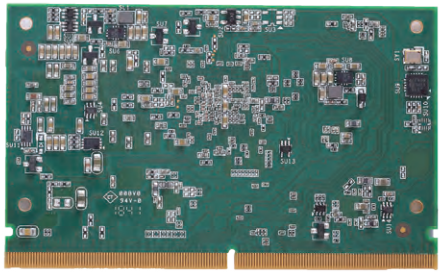
SMARC v2.0 SoM with i.MX8M Quad/Dual 1.5 GHz/1.3 GHz (Industrial) SoC, 4GB RAM, 64GB eMMC, CAN, MIPI CSI/DSI and HDMI 2.0

Features

- SMARC 2.0 (82 x 50 mm)
- Ultra-Low Power i.MX8M Dual/Quad A53 Core
- Single M4 Core
- HDMI 2.0a up to 4K
- MIPI DSI or dual-channel LVDS
- MIPI CSI
- 10/100/1000 Mbps Ethernet
- USB 3.0, USB OTG
- PCIe 2.0
- CAN 2.0B
- Audio



▲ Top view



▲ Rear view

Core System

Processor	Freescale i.MX8M series SoC with Quad/Dual A53
System Memory	Onboard LPDDR4 1GB 3200Mbps, up to 4GB
Operating System	Linux Kernel, Android
Storage	Onboard eMMC 8GB, up to 64GB; or SD Card
Power Requirement	+3V to +5.25V
Dimensions	82 x 50 mm
Board Thickness	1.2 mm ± 0.1 mm
Operating Temperature	Commercial: 0°C to +70°C (-32°F to +158°F) Industrial: -40°C to +80°C (-40°F to +176°F)

I/O

Graphics	1 x MIPI DSI 4 Lane; or Dual Channel LVDS 1 x HDMI 2.0; or DP 1.3
Camera	2 x MIPI CSI2 v1.1 (2 and 4 lane)
Ethernet	1 x 10/100/1000 Mbps Ethernet
USB	1 x USB 2.0 1 x OTG client 2 x USB 3.0
COM	2 x COM with TX/RX/RTS/CTS 2 x RX/TX (1x Debug Console)
I^2C	3 x I^2C interface
QSPI/SPI	1 x QSPI with 2 chip select 1 x SPI with 2 chip select
Audio	1 x I^2S
CAN	2 x CAN 2.0B
GPIO	12 x GPIO

Ordering Information

Standard	
SCM180-Dual-2G-I	Industrial SMARC v2.0 module Freescale i.MX8M SoC Dual A53, 1.3GHz, 2GB RAM, 8GB eMMC, CAN, and HDMI 2.0
SCM180-Dual-2G-C	Commercial SMARC v2.0 module Freescale i.MX8M SoC Dual A53, 1.5GHz, 2GB RAM, 8GB eMMC, CAN, and HDMI 2.0
SCM180-Quad-2G-I	Industrial SMARC v2.0 module Freescale i.MX8M SoC Quad A53, 1.3GHz, 2GB RAM, 8GB eMMC, CAN, and HDMI 2.0
SCM180-Quad-4G-I	Industrial SMARC v2.0 module Freescale i.MX8M SoC Quad A53, 1.3GHz, 4GB RAM, 8GB eMMC, CAN, and HDMI 2.0
SCM180-Quad-4G-C	Commercial SMARC v2.0 module Freescale i.MX8M SoC Quad A53, 1.5GHz, 4GB RAM, 8GB eMMC, CAN, and HDMI 2.0
7118S180000E	SCM180 heatsink
7128S180000E	SCM180 heatspreader

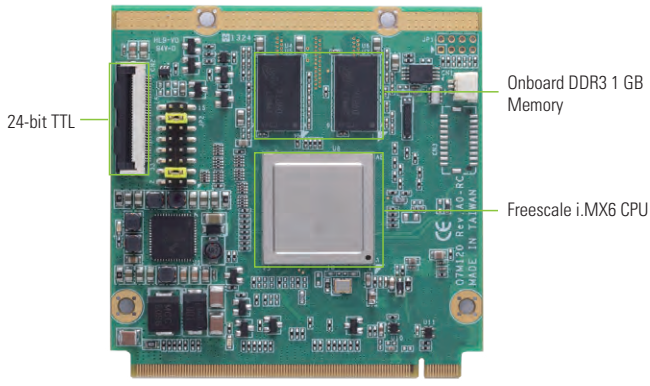
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Q7M120

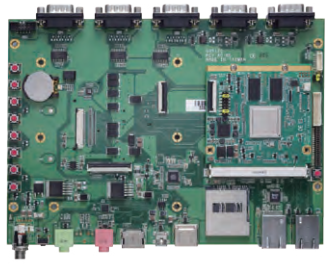
Qseven v2.0 SoM with iMX6 Quad/DualLite 800 MHz (Industrial) SoC, 1GB RAM, 4GB eMMC, GbE LAN, Audio and CAN

Features

- Qseven v2.0 (70 x 70 mm)
- Ultra low power consumption Cortex™-A9
- 2 CAN
- 24-bit TTL signal
- LVDS/HDMI 1080P
- 10/100/1000 Mbps Ethernet
- Linux 3.0.35/Android 4.3
- Audio



▲ Top view



▲ Rear view

Core System

Processor	Freescale i.MX6 Series SoC with Quad/DualLite/Solo ARM Cortex™-A9 CPU 800 MHz/1 GHz (only Solo)
System Memory	Onboard DDR3-1600, up to 1GB
OS	Linux kernel 3.0.35, Android 4.3
Storage	eMMC flash 4GB, SDIO interface SATA interface (Quad cores CPU)
RTC	Battery on the Baseboard is required
Power Requirement	+5V, 1A
Dimensions	70 x 70 mm
Board Thickness	1.2 mm ± 0.1mm
Operating Temperature	-40°C to +85°C (-40°F to +185°F)
Operation Humidity	10% - 95%, non-condensing

I/O

Graphics	1 x 24-bit TTL signal 2 x Signal channel 24-bit LVDS 1 x HDMI 1080P
Ethernet	1 x 10/100/1000 Mbps Ethernet
Audio	Mic-in/Headphone
COM	4 x COM with TX/RX/RTS/CTS (one with 3.3V TTL level) 1 x Console port
USB	1 x USB 2.0 1 x OTG client
I^2C	3 x I^2C Interface
SPI	1 x SPI
CAN	2 ports as 2.0B protocol-compatible Controller Area Network (CAN) interfaces
GPIO	8 button-detect
PCIe	1 x PCIe x1

Ordering Information

Standard	
Q7M120- DualLite-I (P/N:E38Q120100)	Qseven v2.0 module with Freescale iMX6 DualLite 800 MHz (industrial) SoC, 1GB RAM, 4GB eMMC, 1 GbE LAN, audio, and CAN
Q7M120- Quad-I (P/N:E38Q120102)	Qseven v2.0 module with Freescale iMX6 Quad 800 MHz (industrial) SoC, 1GB RAM, 4GB eMMC, 1 GbE LAN, audio, and CAN

Optional	
Q7M120-Quad-T	Qseven v2.0 module with Freescale iMX6 Quad 1 GHz (automotive) SoC, 1GB RAM, 4GB eMMC, 1 GbE LAN, audio, and CAN
Q7M120-120-EVK DualLite-I	Evaluation kit board
Q7M120-120-EVK Quad-I	Evaluation kit board
5078Q120100E	Q7M120 heatspread (-40°C to 70°C)
5078Q120200E	Heatsink (-40°C to 75°C)

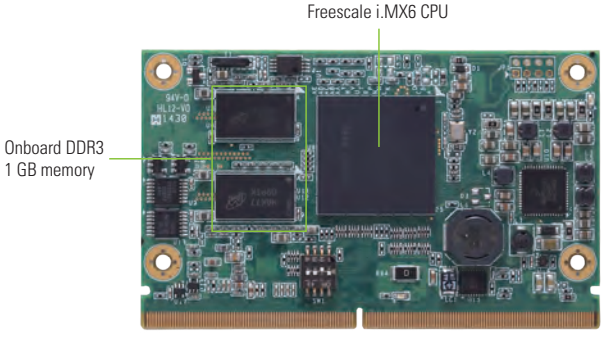
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SCM120

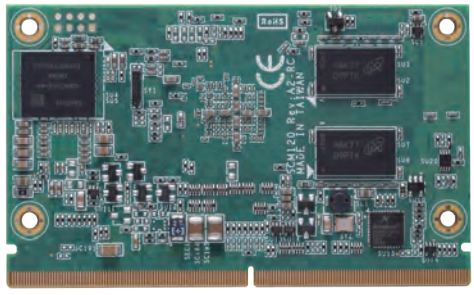
SMARC v1.0 SoM with iMX6 Quad/DualLite 800 MHz (Industrial) SoC, 1GB RAM, 4GB eMMC, GbE LAN, Audio, CAN, MIPI and PCAM

Features

- SMARC 1.0 (82 x 50 mm)
- Ultra low power consumption Cortex™-A9
- 2 CAN 2.0B
- 24-bit TTL signal
- LVDS/HDMI 1080P
- 10/100/1000 Mbps Ethernet
- Linux3.0.35/Android 4.3
- Audio



▲ Top view



▲ Rear view

Core System

Processor	Freescale i.MX6 series SoC with Quad/DualLite ARM Cortex™-A9 CPU 800 MHz
System Memory	Onboard DDR3-1600, up to 1GB
OS	Linux kernel 3.0.35, Android 4.3
Storage	eMMC flash 4GB, SDIO interface, SATA interface (only quad support)
RTC	Battery on the Baseboard is required
Power Requirement	+3V to +5.25V
Dimensions	82 x 50 mm
Board Thickness	1.2 mm ± 0.1 mm
Operating Temperature	-40°C to +85°C (-40°F to +185°F)
Operation Humidity	10% - 95%, non-condensing

I/O

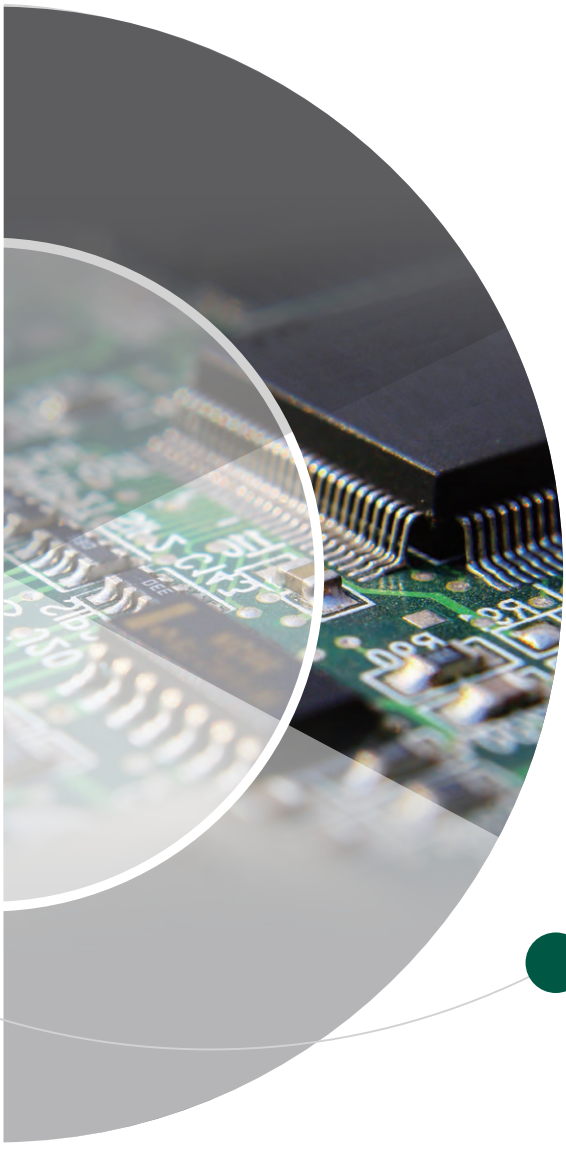
Graphics	1 x 24-bit TTL signal 1 x Dual channel 24-bit LVDS 1 x HDMI 1080P
Ethernet	1 x 10/100/1000 Mbps Ethernet
Audio	Mic-in/Headphone
COM	3 x COM with TX/RX/RTS/CTS 1 x Console port
USB	1 x USB 2.0 1 x OTG client
I^2C	4 x I^2C interface
SPI	1 x SPI
CAN	2 x CAN
GPIO	8 x GPIO
PCIe	1 x PCIe
Camera	1 x MIPI v1.0, 2 x Lane 1 x PCAM 8-bit

Ordering Information

Standard	
SCM120-DualLite-I	SMARC v1.0 module with Freescale iMX6 DualLite 800 MHz (industrial) SoC, 1GB Memory, 4GB eMMC, 1 GbE LAN, audio, and CAN
SCM120-Quad-I	SMARC v1.0 module with Freescale iMX6 Quad 800 MHz (industrial) SoC, 1GB Memory, 4GB eMMC, 1 GbE LAN, audio, CAN and SATA

Optional	
SCM120-120-EVK DualLite-I	Evaluation kit board
SCM120-120-EVK Quad-I	Evaluation kit board
5078S120100E	SCM120 heatspread (-40°C to +70°C)
5078Q120200E	Heatsink (-40°C to +75°C)

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System on Modules

3.5" Embedded Boards

Pico-ITX SBCs

Mini-ITX Motherboards

ATX/Mirco ATX Motherboards

Slot CPU Cards

ARM-based Embedded Boards

Smart Display Modules

PCI Express Cards

Boards and Modules

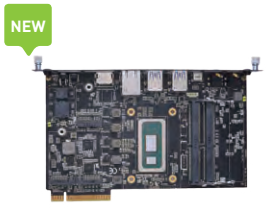
8 Smart Display Modules

Axiomtek's advanced smart display module has been chosen by many industry-leading retail stores and grocery chains, to enhance customer shopping experience and improve store operations. The excellent performance of Module-series which can be integrated into the sleekest all-in-one designs offers customers speed, convenience and privacy through self-checkout terminals in delivering a comfortable shopping environment.

	Selection Guide		107
NEW	SDM500L	Intel® Smart Display Module Large (Intel® SDM-L) with 8th Gen Intel® Core™ i7/i5/i3 Processor, HDMI and LAN	108
	SDM300S	Intel® Smart Display Module Small (SDM-S) with Intel® Pentium® Processor N4200 & Celeron® Processor N3350	109

Smart Display Module

Selection Guide





Features\Models		SDM500L	SDM300S
Form Factor		Intel® SDM Large	Intel® SDM Small
CPU Level		8th gen Intel® Core™ i7/i5/i3 processor 15W	Intel® Pentium® N4200 & Celeron® N3350
CPU Socket		Onboard	Onboard
Core Logic Chipset		SoC integrated	SoC integrated
Memory Type		Dual channels DDR4-2400 SO-DIMM	LPDDR4
Max. DRAM Capacity		32GB	4GB/8GB (optional)
Cache RAM Capacity		SoC integrated	SoC integrated
BIOS		AMI UEFI BIOS	AMI UEFI BIOS
Watchdog Timer		255 levels, 1 to 255 sec./min.	255 levels, 1 to 255 sec./min.
SSD		1 x M.2 Key M slot for storage 1 x M.2 Key B slot for storage	32GB (optional)/64GB eMMC onboard
I/O	**Golden Finger**	PCIe x8 (98-pin) 1 x USB 3.0 1 x HDMI 2.0 1 x DisplayPort 1.2 1 x Serial TX/RX 2 x I^2C	PCIe x8 (98-pin) 1 x USB 3.0 1 x HDMI 1.4 1 x DisplayPort 1.2 1 x Serial TX/RX 2 x I^2C
	Ethernet	1 x 10/100/1000 Mbps with Intel® i211-AT; supports Wake-on-LAN, PXE Boot ROM	1 x 10/100/1000 Mbps with Intel® i211-AT; supports Wake-on-LAN, PXE Boot ROM
	Others	4 x USB 3.0 1 x USB type C 1 x Mic-in 1 x Line-out 1 x HDMI 1.4	2 x USB 3.0
SMBus		Yes	Yes
Expansion Interface		1 x M.2 E key for Wi-Fi/BlueTeeth 1 x M.2 Key M slot for storage 1 x M.2 Key B slot for storage	1 x M.2 Key E 1 x PCIe x1 thru SDM edge connector
Power Input		Through SDM edge connector +12V & +3.3VBS	Through SDM edge connector +12V & +3.3VBS
Battery		Lithium 3 V/220 mAH	Lithium 3 V/220 mAH
Operating Temperature		0ºC to 60ºC (+32°F to +140°F) -20 to 70 ºC (-20°F to +158°F) (optional)	0°C to +55°C (+32°F to +131°F)
Relative Humidity		10% to 95%, non-condensing	10% to 95%, non-condensing
EMI Compliance		CE	CE

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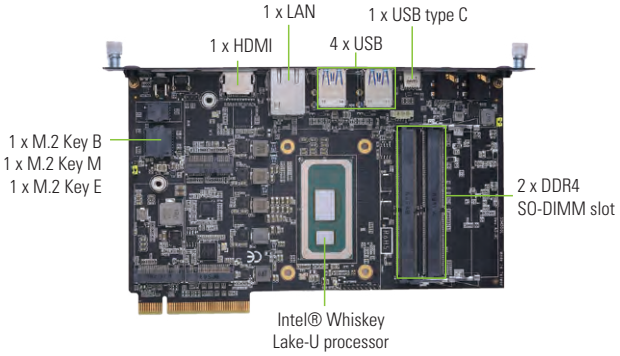
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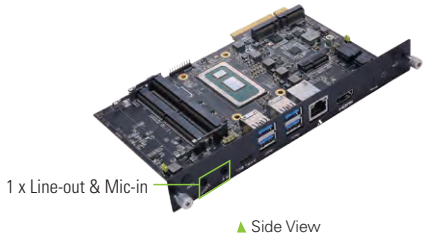
SDM500L NEW

Intel® Smart Display Module Large (Intel® SDM-L) with 8th Gen Intel® Core™ i7/i5/i3 Processor, HDMI and LAN

Features

- Intel® Smart Display Module (Intel® SDM) specification
- 8th gen Intel® Core™ i7/i5/i3 processor (Whiskey Lake-U)
- 2 DDR4-2400 SO-DIMM for up to 32G of memory
- M.2 Key E expansion slot
- M.2 Key M expansion slot
- M.2 Key B expansion slot
- One HDMI, four USB 3.0, one USB type C and LAN
- Supports Intel® AMT 12





▲ Side View



▲ Rear View

DDR4 | USB 3.0 | Display | M.2

Core System

CPU	8th gen Intel® Core™ i7/i5/i3 processor (Whiskey Lake-U)
System Memory	2 x 260-pin DDR4-2400 SO-DIMM, up to 32G
Chipset	SoC integrated
BIOS	AMI
SSD	1 x M.2 Key M slot 1 x M.2 Key B slot
WatchDog Timer	255 levels, 1 to 255 sec.
Expansion Interface	1 x M.2 Key E slot for Wi-Fi/BT
Battery Lithium	Lithium 3V/220 mAH
Power Input	Through SDM golden finger +12V & +3.3VBS
Dimensions	175 x 100 mm
Board Thickness	1.6 mm
Operating Temperature	0ºC to 60ºC (+32°F to +140°F) -20 to 70 ºC (-20°F to +158°F) (optional)
Humidity	10% - 95% relative humidity, non-condensing

I/O

SDM Golden Finger	1 x USB 3.0 1 x HDMI 2.0 1 x DisplayPort 1.2 1 x Serial TX/RX 2 x I^2C
Ethernet	1 x 10/100/1000 Mbps with Intel® i219; supports Wake-on-LAN (Core™ i5 and i7 support vPro function)
Audio	HD codec audio as Mic-in/Line-out with Realtek ALC662
USB	4 x USB 3.0 1 x USB type C
Display	1 x HDMI 1.4

Display

Chipset	Intel® gen 9 HD graphics
Display Interface	1 x HDMI 1.4 (4096 x 2160 @ 30p) (rear I/O) 1 x DisplayPort 1.2 (4096 x 2304 @ 60p) (golden finger) 1 x HDMI 2.0 (4096 x 2160 @ 60p) (golden finger)

Packing List

Quick installation guide

Ordering Information

Standard	
SDM500L-i5	SDM-L module with Intel® Core™ i5 processor with HDMI 2.0 x USB 3.0, 1 x USB type C and LAN
Optional	
SDB100	SDM PIB Board

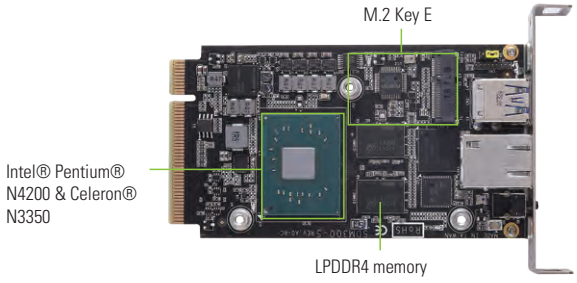
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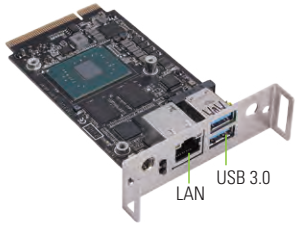
SDM300S

Intel® Smart Display Module Small (Intel® SDM-S) with Intel® Pentium® Processor N4200 & Celeron® Processor N3350

Features

- Intel® Smart Display Module (Intel® SDM) specification
- Intel® Pentium® processor N4200 & Celeron® processor N3350 (Apollo Lake)
- 4GB LPDDR4 memory onboard (8GB optional)
- 64GB eMMC onboard (32G optional)
- One M.2 Key E 2230 slot
- Two USB 3.0 and one GbE LAN
- Small design for easy integration into slim displays
- Optimized for digital signage, public kiosks, professional monitors, point-of-sale
- Projections for magic mirrors, beside terminals, hospitality, and more





▲ Side View



▲ Rear view



Core System

CPU	Intel® Pentium® processor N4200, Celeron® processor N3350 onboard
System Memory	LPDDR4 4GB memory onboard (8GB optional)
Chipset	SoC integrated
SSD	64GB eMMC onboard (32G optional)
WatchDog Timer	255 levels, 1 to 255 sec./min.
Expansion Interface	1 x M.2 Key E 2230 slot
Battery Lithium	Lithium 3 V/220 mAH
Power Input	Through SDM edge connector +12V & +3.3VBS
Dimensions	100 x 60 mm
Board Thickness	1.6 mm
Operating Temperature	0°C to +55°C (+32°F to +131°F)
Humidity	10% to 95% relative humidity, non-condensing

I/O

SDM Golden Finger	Standard PCIe x8 (98-pin) 1 x USB 3.0 1 x HDMI 1.4 1 x DisplayPort 1.2 1 x Serial TX/RX 2 x I^2C
Ethernet	1 x 10/100/1000 Mbps with Intel® i211-AT; supports Wake-on-LAN, PXE Boot ROM
USB	2 x USB 3.0

Display

Chipset	Intel® HD Graphics 505/500 Supports Gfx - DX12.0, OCL 2.0, OGL 4.3
Display Interface (via SDM edge connector)	1 x DisplayPort 1.2 (4096 x 2304 @ 60p) 1 x HDMI 1.4 (3840 x 2160 @ 30p)

Packing List

Quick installation guide

Ordering Information

Standard	
SDM300S-N4200-4GB	SDM-S module with Intel® Pentium® processor N4200, DisplayPort, HDMI, GbE LAN and USB 3.0
SDM300S-N3350-4GB	SDM-S module with Intel® Celeron® processor N3350, DisplayPort, HDMI, GbE LAN and USB 3.0

Optional	
SDB100	SDM carrier board

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9 PCI Express Cards

Axiomtek develops a full spectrum of add-on cards for machine vision and data acquisition applications to help customers accelerating their design and reducing development costs.

Machine Vision

	AX92320	2-port/4-port PCI Express GigE Frame Grabber Card	111
NEW	AX92321	4-port/8-port USB 3.0 PCI Express Card with 4 Independent Host Controllers	112
NEW	AX92322	2-port/4-port GigE PCI Express Card	113
	AX32350	Real-Time Vision I/O Card	114

Data Acquisition (DAQ)

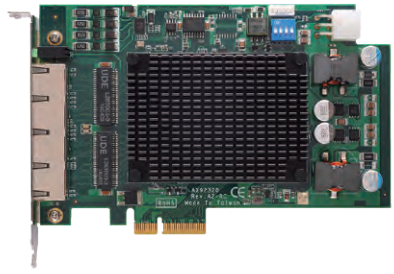
	AX92351	32-CH/64-CH Isolated Digital I/O PCI Express Card with Digital Filter	115

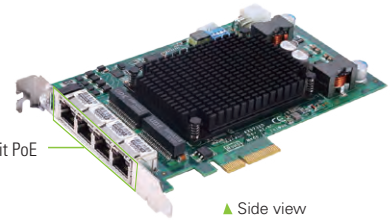
AX92320

2-port/4-port PCI Express GigE Frame Grabber Card

Features

- PCI Express x4 compliant
- 2 or 4 independent Gigabit PoE ports
- Supports 9.5KB Jumbo Frame and IEEE 1588
- Compliant with IEEE802.3at to deliver 30W at 54 VDC per port
- Up to 20/120W PoE power from PCIe 6-pin ATX power connector
- 0°C to +60°C operating temperature range
- PoE power management software
- Supports LAN port smart on/off





▲ Side view

Introduction

The AX92320 PoE (Power over Ethernet) card supports 2 or 4 independent Gigabit PoE ports, providing up to 30W at 54 VDC of power per port. The AX92320 can fit in the PCI Express slot of any multi-channel vision control systems. It is designed to help customers develop and deploy machine vision and surveillance applications. Applications will greatly benefit through reduce cost, simpler installation and lower maintenance. Moreover, the AX92320 has a wide operating temperature of 0°C to 60°C (32°F to 140°F), making it suitable to be used in most severe environments.

Specifications

Ethernet Communications	
Ethernet Port	2 or 4 GbE LANs by Intel® i210-AT controller, support 9.5KB jumbo frame and IEEE 1588
PoE Capability	IEEE 802.3at compliant, each port delivers up to 30W at 54 VDC
Speed	10/100/1000 Mbps
Port Connector	8-pin RJ-45
Power Requirements	
Input Voltage	12 VDC or 24 VDC
Overload Protection	Yes
Connection	6-pin ATX power connector
Output PoE Power	Max. 20W w/ PCIe slot Max. 120W w/ 6-pin ATX power connector
Power Requirements	Power from PCIe slot (max. 20W PoE power output) 2.1A @ +12V 1.2A @ +3.3V Power from ATX power connector (max. 120W PoE power output) 12A @ +12V or 6A @ +24V 1.2A @ +3.3V (from PCIe slot)
General Specifications	
Bus Type	PCI Express x4
Operating Temperature	0°C to +60°C (+32°F to +140°F) (with air flow)
Storage Temperature	-20°C to +80°C (-4°F to +176°F)
Humidity	5% to 95%, non-condensing
Dimensions (W x D)	168 x 111 mm
EOS Support	Windows® 7/10 (32/64-bit)

Ordering Information

AX92320-2GE (P/N: E392320103)	2-port PCI Express GigE frame grabber card
AX92320-4GbE (P/N: E392320100)	4-port PCI Express GigE frame grabber card
PoE Power Cable (P/N: 59492320700E)	4P 3.0/6P 4.2, L=10 cm (only be used with IPC962/IPC964)
Power Cable (P/N: 59492320730E)	6-pin ATX to Molex 4-pin power cable, L=150 mm (used for ATX power)

Packing list

Standard
User's manual, utility, CD and I/O bracket

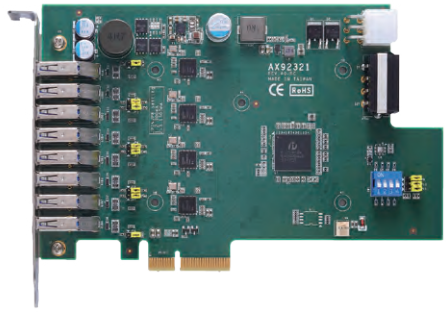
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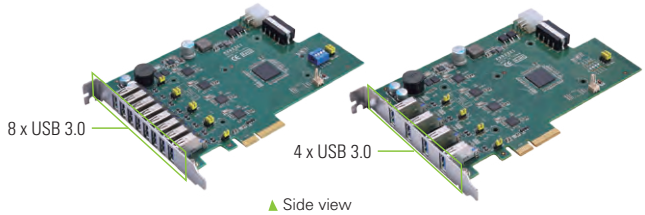
AX92321 NEW

4-port/8-port USB 3.0 PCI Express Card with 4 Independent Host Controllers

Features

- Four or eight USB 3.0 ports
- Four independent USB 3.0 host controllers
- 900 mA/1500 mA max. per port configurable via jumper settings
- Compliant with USB 3.0 Rev.1.0 and Intel® xHCI Rev.1.0
- PCI Express x4 interface
- Operating temperature from 0°C to 70°C
- Supports Windows® 7/10
- Supports each port's power on/off via software settings





▲ Side view

Introduction

The AX92321 has two versions – 4-port or 8-port – for users to choose from for various applications. The 4-port AX92321 has four independent Renesas μPD720202 USB 3.0 host controllers to offer up to 5 Gbps bandwidth per port, even when four ports are used simultaneously. The AX92321 can be configured to support maximum 900mA or 1500mA current output to supply stable power for various external USB devices. The AX92321 also support power on/off control for each port via software settings. This USB 3.0 PCI Express card is able to operate under a wide operating temperature range of 0°C to 70°C, allowing it to be used in harsh environments for vision and factory automation applications.

Specifications

USB	
Channels	4 x USB 3.0 type A connector (AX92321-4U) 8 x USB 3.0 type A connector (AX92321-8U)
Controller	4 x Renesas μPD720202 host controllers Compliant with USB 3.0 specification and Intel® xHCI specification, revision 1.0
Max. Current	900/1500 mA maximum per port configurable via jumper settings
Data Transfer Rate	Super speed (5.0 Gbps)/high speed (480.0 Mbps)/full speed (12.0 Mbps)/low speed (1.5 Mbps)

General	
Bus Type	PCI Express x4 Gen2
Power Requirements	Power from PCIe slot (total power max. 20W USB power output) 2.1A@ +12V 0.8A @ +3.3V Power from ATX power connector 5A @ +12V or 2.5A @ +24V 0.8A @ +3.3V (from PCIe slot) Power from 4P Molex power connector 5A @ +12V 0.8A @ +3.3V (from PCIe slot)
Dimensions	168 mm (6.6") x 107 mm (4.2")
Power Connector	4-pin Molex connector 6-pin ATX power connector
Operating Temperature	0°C to +70°C (+32°F to +158°F)
Storage Temperature	-20°C to +80°C (-4°F to +176°F)
Operating Humidity	10 - 95% RH, non-condensing
Certifications	CE compliance
OS	Windows® 7/10 (32/64-bit)
Software	Each port's power on/off is controlled by software

Ordering Information

AX92321-4U (P/N: E392321101)	4-port USB 3.0 PCI Express card with 4 independent USB 3.0 host controllers
AX92321-8U (P/N: E392321100)	8-port USB 3.0 PCI Express card with 4 independent USB 3.0 host controllers
For IPC962/964 Riser Card Power Connector (P/N: 59492320700E)	Power cable 4P3.0/6P4.2, L=100 mm

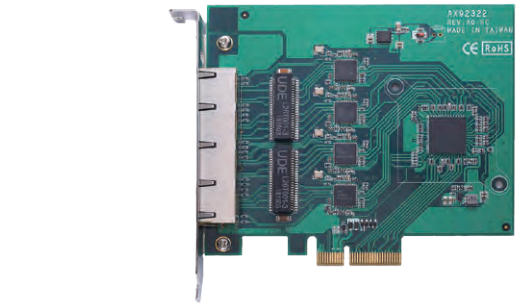
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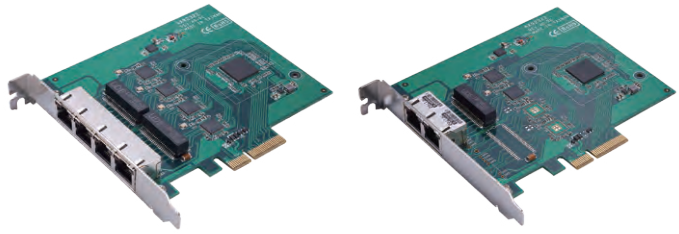
AX92322 NEW

2-port/4-port GigE PCI Express Card

Features

- 2 or 4 independent Intel® Ethernet Controller i210-AT
- Supports 9.5KB Jumbo Frame and IEEE 1588
- Supports two or four GbE LAN ports
- PCI Express x4 interface
- Operating temperature from 0°C to 70°C





▲ Side view

Specifications

GigE	
Host Bus	4-lane Gen2 PCIe interface, compliant with PCI Express base specification, revision 2.0
Channels	2/4 ports
Ethernet Chip	2 or 4 x Intel® Ethernet Controller i210-AT Supports 9.5KB Jumbo Frame and IEEE 1588
Data Transfer Rate	10/100/1000 Mbps

General Specifications	
Bus Type	PCI Express x4
Power Consumption	Power from PCIe slot 1.73A@+3.3V max.
Dimensions	125 x 111 mm
I/O Connector	RJ-45
Operating temperature	0°C to +70°C (+32°F to +158°F)
Storage temperature	-20°C to +80°C (-4°F to +176°F)
Operating Humidity	10 - 95% RH, non-condensing
OS	Windows® 7/10 (32/64-bit), Linux
Certification	CE

Ordering Information

AX92322-2GbE (P/N: E392322101)	2-port GigE PCI Express card
AX92322-4GbE (P/N: E392322100)	4-port GigE PCI Express card

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AX92350

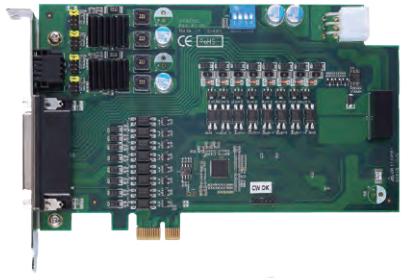
Real-Time Vision I/O Card

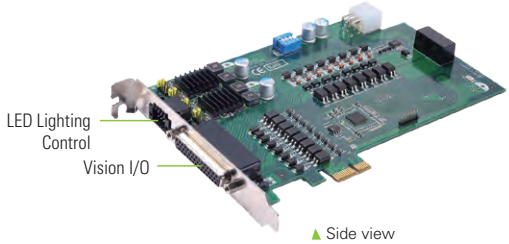
Features

- Integrated vision I/O
  - 4-CH trigger input
  - 4-CH or 8-CH trigger output
  - 4-CH LED lighting control (LED trigger output channels are defined by software settings)
  - 1-CH quadrature encoder input
  - 8-CH isolated DI, 8 CH isolated DO
  - 1-CH auto measurement function
- Programmable interrupt functions
- PCI Express x1 compliant
- Flexible design for vision inspection

Introduction

The AX92350 integrates various I/O features for machine vision applications, including trigger input and output with microsecond-scale real-time control, an auto measurement timer, as well as LED lighting control with dimming support. It also provides an encoder input function suited for conveyor applications in factory automation. The AX92350 can fit in the PCI Express slot of any vision control system to simplify deployment and maintenance of your machine vision platform.





▲ Side view

Specifications

Isolated Digital Input	
Channels	8-CH
Type	Sink/Source
Input Voltage	On (Logic 1): 10 to 30 VDC or dry contact Off (Logic 0): 0 to 3 VDC
Impedance	7.5KΩ
Isolated Digital Output	
Channels	8-CH
Output type	Sink, open collector
Supply voltage	5 to 30 VDC
Sink current	Max. 200 mA per channel
Isolated Trigger Input	
Channels	4-CH
Type	Sink
Input range	On (Logic 1): 3 to 30 VDC Off (Logic 0): 0 to 2 VDC
Response Time	1us (from trigger input to trigger output)
Input Filter	Programmable de-bounce filter
Isolated Encoder Input	
Channels	1-CH 16-bit incremental quadrature encoder input (A/B/Z)
Type	Differential, single-ended
Counter Mode	x4
Frequency Input	Max. 1MHz
Isolated Trigger Output	
Channels	4-CH or 8-CH
Output Voltage	12 VDC
Output Impedance	1KΩ
Response Time	1us (from trigger input to trigger output)
Configuration	Derived from 4CH trigger input or encoder input. Can set the pulse delay time and duration time Trigger output channel 4,5,6,7 can only be selected either for trigger output or for LED lighting control
Auto Measurement	Timer that measures response interval between trigger input and trigger output
Interrupt	
Sources	Two interrupt sources from DI, trigger input, encoder Z phase and encoder check pointer
LED Lighting Control	
Channels	4-CH
Output Voltage	24 VDC, Max. 0.5A per channel
Output Current	Each channel can be set 100mA/250mA/350mA/500mA output by jumper, support dimming control
Mode	Trigger mode
External Power Supply Connector	6-pin ATX 2x3 connector for connection to 12V external power supply when LED power consumption exceeds 24V @500mA
Connector	4-CH LED lighting control via a 8 pin terminal connector
General Specifications	
Bus Type	PCI Express x1
I/O Connector	D-sub 44-pin female connector
Isolation Voltage	1000 VDC
Power Requirements	50mA @ +3.3V (Max.) 220mA @ +12V (Max.) Note: Excluding the power consumption of 24V LEDs
Dimensions	168 x 107 mm
Board ID	Yes, 4-bit
Operating Temperature	0°C to +60°C (32°F to +140°F) with air flow
Storage Temperature	-20°C to +80°C (-4°F to +176°F)
Humidity	5 to 95% RH, non-condensing
Software Support	
EOS Support	Windows® 7/10 (32/64-bit)
Software Compatibility	C#, C/C++, Visual Basic

Ordering Information

AX92350 (P/N: E392350100)	Vision I/O card
Vision Power Cable (P/N: 59492350700E)	4P 4.2/6P 4.2, L=10 cm (only be used with IPC962/IPC964)

Accessories	
5A244AP1200E	44-pin DIN-rail terminal board DM44-AP12
594DM443500E	44-pin D-SUB cable, L=1m WHDM44/1.0-6954
594DM443510E	44-pin D-SUB cable, L=2m WHDM44/2.0-6954
594DM443520E	44-pin D-SUB cable, L=3m WHDM44/3.0-6954

*Specifications and certifications are based on options and may vary.

Packing list

Standard
User's manual, utility, CD and I/O bracket, CN-terminal block 4 x 2

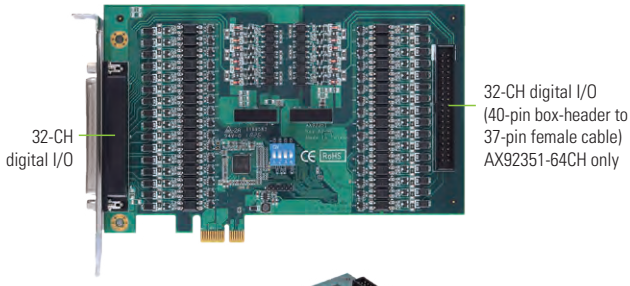
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AX92351

32-CH/64-CH Isolated Digital I/O PCI Express Card with Digital Filter

Features

- 16-CH or 32-CH isolated digital input (compatibility: sink and source)
- 16-CH or 32-CH isolated digital output (with output status read back)
- Interrupt capability (smart interrupt)
- Digital filter function
- Supports board ID





▲ Side view

Introduction

The AX92351 is a 32-CH isolated DI and 32-CH isolated DO card. It comes with DI channels that support both sink and source input types for maximum application flexibility. The AX92351 also integrates digital filter and I/O interrupt (smart interrupt) functions, making it specifically suitable for factory automation, industrial on/off control and switch status sensing.

Specifications

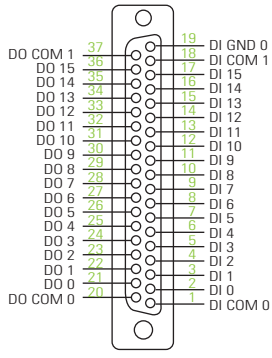
Isolated Digital Input	
Isolation Voltage	2kV
Channels	16 (AX92351-32CH) 32 (AX92351-64CH)
Compatibility	Sink or source, dry or wet contact
Input Voltage	Input high voltage: 10 to 30V Input low voltage: 0 to 3V
Input Impendence	7.5KΩ
Interrupt Sources	Interrupt 0 (DI: CH 0-4) and 1 (DI: CH 8-12)
Response Speed	4KHz
Digital Filter	Yes
Isolated Digital Output	
Isolation Voltage	2kV
Channels	16 (AX92351-32CH) 32 (AX92351-64CH)
Compatibility	Sink or Source, Open collector
Output Current	100 mA/+30 VDC for all channels @ 100% duty
Supply Voltage	Max. 30 VDC
Max. Voltage Drop	3.5 VDC @ 100mA
Response Speed	4KHz
Over Current Protection	Yes
General Specifications	
Bus Type	PCI Express x1
Power Requirements	625mA @ +3.3V (Max.) 66mA @ +12V (Max.)
Dimensions	168 x 107 mm
Board ID	Yes, 4-bit
I/O Connector	Female DB37 x1 40-pin box header x1 (AX92351-64CH only)
Operating Temperature	0°C to +60°C (+32°F to +140°F)
Storage Temperature	-20°C to +80°C (-4°F to +176°F)
Humidity	10 to 95% RH, non-condensing
Software Support	
EOS Support	Windows® 7/10 (32/64-bit)
Software compatibility	C#, C/C++, LabVIEW

Digital Filter Table for DI Channels

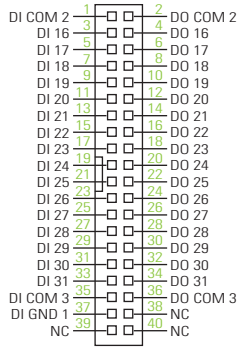
16 stages per DI channel; each channel can be set independently

Setting Data	Digital Filter Time	Setting Data	Digital Filter Time	Setting Data	Digital Filter Time	Setting Data	Digital Filter Time
0	function disable	4	700us	8	3ms	12	7ms
1	100us	5	900us	9	4ms	13	8ms
2	300us	6	1ms	10	5ms	14	9ms
3	500us	7	2ms	11	6ms	15	10ms

37-pin Female Connector (CN1)



40-pin Box-Header (CN2)
AX92351-64CH only



Ordering Information

AX92351-32CH (P/N: E392351102)	32-CH isolated digital I/O with digital filter
AX92351-64CH (P/N: E392351100)	64-CH isolated digital I/O with digital filter (includes one 40-pin box-header to 37-pin female cable)

Accessories	
5A237AP0200E	37-pin DIN-rail terminal board DM37-AP02
594DM373500E	37-pin D-Sub cable, L=1m WHDM37/1.0
594DM373510E	37-pin D-Sub cable, L=2m WHDM37/2.0
594DM373520E	37-pin D-Sub cable, L=3m WHDM37/3.0

* AX92351-64CH must be used in conjunction with two terminal boards and two D-Sub cables (all boards and cables are optional accessories available for purchase).

Packing list

Standard
I/O bracket, 40-pin to DB37 cable (AX92351-64CH only)

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Table of **Contents**

Systems and Platforms

1 Embedded Systems

	Selection Guide		125
	eBOX100-312-FL	Fanless Embedded System with Intel® Celeron® N3350 2.4 GHz/ Pentium® N4200 2.5 GHz, 2 HDMI, 2 GbE LAN and 6 USB	132
NEW	eBOX100-51R-FL	Fanless Ultra Compact Embedded System with Intel® Core™ i5-7300U & Intel® Celeron® 3965U Processors, DisplayPort++, 2 COM, 4 USB and 2 GbE LAN	133
	eBOX560-500-FL	Fanless Embedded System with Intel® Core™ i7-6600U 3.4 GHz/ i5-6300U 3 GHz/i3-6100U 2.3GHz/Celeron® 3955U 2.0 GHz, 2 HDMI, 2 GbE LAN, 4 USB 3.0, 2 COM and PCI Express Mini Card Slot	134
	eBOX560-512-FL	Fanless Embedded System with Intel® Core™ i5-7300U 3.5 GHz/ Celeron® 3965U 2.2 GHz, 2 HDMI, 2 GbE LAN, 4 USB 3.0 and PCI Express Mini Card Slot	135
	eBOX560-900-FL	Fanless Edge System with NVIDIA® Jetson™ TX2, HDMI 2.0, 2 GbE LAN, and USB 2.0	136
	eBOX565-500-FL	Fanless Embedded System with Intel® Core™ i5-6300U 2.4 GHz/ i3-6100U 2.3 GHz/Celeron® 3955U 2.0 GHz, 2 HDMI, 2 GbE LAN, 4 USB 3.0, 2 COM and 9 to 36 VDC	137
	eBOX625-312-FL	Fanless Embedded System with Intel® Celeron® N3350 2.4 GHz/ Pentium® N4200 2.5 GHz, HDMI, VGA, 2 GbE LAN, 6 USB and 3 COM	138
	eBOX625-853-FL	Fanless Embedded System with Intel® Celeron® N3160 2.24 GHz, VGA/HDMI, 4 COM, 2 GbE LAN, 4 USB, and 2 PCI Express Mini Card Slots	139
	eBOX626-853-FL	Fanless Embedded System with Intel® Celeron® N3160 2.24 GHz, VGA/HDMI, 4 COM, 2 GbE LAN, 4 USB, 2 PCI Express Mini Card Slots and 9 to 36 VDC	140
	eBOX627-312-FL	Fanless Embedded System Intel® Celeron® N3350 2.4 GHz/ Pentium® N4200 2.5 GHz, HDMI, 2 GbE LAN, 6 USB, 4 COM and 9 to 36 VDC	141
NEW	eBOX630-528-FL	Fanless Embedded System with Intel® Core™ i7/i5/i3 & Celeron® ULT Processor, 2 HDMI, 1 VGA, 3 GbE LAN, 6 USB, Dual PCI Express Mini Card Slots and 9 to 36 VDC	142
	eBOX638-842-FL	Fanless Embedded System with Intel® Celeron® Processor J1900, VGA, HDMI, 4 COM, 6 USB, Dual Expansion Slots and 9 to 36 VDC Input	143

	eBOX640-500-FL	Fanless Embedded System with LGA1151 Socket 6th/7th Gen Intel® Core™ & Celeron® Processor, Intel® H110, 1 HDMI, DisplayPort, VGA, 6 USB, 4 COM, PCI Express Mini Card Slot and 10 to 30 VDC	144
NEW	eBOX640-521-FL	Fanless Embedded System with LGA1151 Socket 8th Gen Intel® Core™ & Celeron® Processor, Intel® H310, HDMI, DisplayPort, 6 USB, 2 COM and 8-CH DI/DO	145
	eBOX670-891-FL	Fanless Embedded System with LGA1151 Socket 6th/7th Gen Intel® Core™ i7/i5/i3 & Celeron® Processor, Intel® Q170, 2 HDMI, 1 DisplayPort, 4 GbE LAN, 8 USB, Dual PCI Express Mini Card Slots and Wide Range DC-in	146
	eBOX671-517-FL	Fanless Embedded System with LGA1151 Socket 7th/6th Gen Intel® Core™ i7/i5/i3 & Celeron® Processor, Intel® Q170, VGA/DVI-D/HDMI, 8-CH PoE, 6 USB and 9 to 36 VDC	147
NEW	eBOX671-521-FL	Fanless Embedded System with LGA1151 9th/8th Gen Intel® Core™ 133 i7/i5/i3 & Celeron® Processor, 4-CH PoE and Optional MXM Graphics Module Supported	148
	eBOX700-891-FL	Fanless Embedded System with LGA1151 Socket 6th/7th Gen Intel® Core™ i7/i5/i3 & Celeron® Processor, Intel® H110, 2 HDMI,1 DisplayPort, 4 GbE LAN, 6 USB, PCIe x4/PCI Slot and 9 to 36 VDC	149
	eBOX800-511-FL	Rugged IP67-rated Fanless Embedded System with Intel Core™ i5-7300U/Celeron® 3965U, VGA, GbE LAN, 2 USB, 2 COM and 9 to 36 VDC	150
	eBOX800-841-FL	Rugged IP67-rated Fanless Embedded System with Intel® Atom® Processor E3845 1.91 GHz, VGA, 2 GbE LAN, 2 USB, 2 COM and 9 to 36 VDC	151
	eBOX800-900-FL	Rugged IP67-rated Fanless Edge System with NVIDIA® Jetson™ TX2, HDMI, GbE LAN, 1-CH PoE, USB 2.0 and 100 to 240 VAC Power Input	152

2 Edge AI Systems

	Selection Guide		155
NEW	AIE500-901-FL	Fanless Edge AI System with NVIDIA® JETSON™ TX2 Series SoM, 1 HDMI, 2 GbE LAN, 2 USB, 2 COM or 2 CAN and 12 or 24 VDC	156
NEW	AIE900-902-FL	Fanless Edge AI System with NVIDIA® JETSON™ Xavier SoM, 2 HDMI, 2 GbE LAN, 4 PoE LAN, 6 USB, 2 COM or 2 CAN and 8-CH DI/DO	157

3 Transportation Embedded Systems & Switch

	Selection Guide		161
	Certification Guide		164
	Transportation Embedded Systems		
	tBOX300-510-FL	Fanless Embedded System with 7th Gen Intel® Core™ i7/i5/i3 & Celeron® Processor for Railway and Marine PC	165

NEW	tBOX400-510-FL	Fanless Embedded System with 7th Gen Intel® Core™ i7/i5/i3 & Celeron® Processor, Built-in Layer 2 Managed PoE Switch for Railway PC	167
	tBOX500-510-FL	Fanless Embedded System with 7th Gen Intel® Core™ i7/i5/i3 & Celeron® Processor for Railway, Vehicle and Marine PC	169
	tBOX100-838-FL	Fanless Embedded System with Intel® Atom® Processor E3845 for Railway, Vehicle and Marine PC	171
	tBOX810-838-FL	Fanless Embedded System with Intel® Atom® Processor E3845/ E3827 for Railway, Vehicle and Marine PC	173
	tBOX324-894-FL	Fanless Embedded System with 7th/6th Gen Intel® Core™ i7/i5/i3 & Celeron® Processor for Railway, Vehicle and Marine PC	175
NEW	UST100-504-FL	Fanless Embedded System with 7th/6th Gen Intel® Core™, Pentium® and Celeron® Processor, Compact Size for Video Analytics in Vehicle PC Market	177
	UST500-517-FL	Fanless Embedded System with 7th/6th Gen Intel® Core™, Pentium® and Celeron® Processor for Railway and Vehicle PC	179
NEW	Agent336	Fanless Embedded System with i.MX 8M Processor, COM, LAN, USB, DIO (2-in/2-out), 2 PCIe Mini Card Slots, Power Design with ACC Ignition and E-Mark Certification for Vehicle Box PC	181

Transportation Ethernet Switch

NEW	TEN710MW/UW	Transportation EN 50155 & EN 45545-2 Certified Layer 2 Managed/ Unmanaged Switch with 10-port LAN, and PoE Supported	183

Anti-Vibration Kit 185

Value-add Modules (VAMs)

VAM100 & VAM101 186
VAM200 & VAM400 187
VAM600 & VAM900 188
VAM700/VAM701 & VAM702/VAM703 189
VAM704/VAM705 & VAM706/VAM707 190

Power Supply Unit (PSU)

NEW	PSU120-259	PoE Power Sourcing Equipment for tBOX300/tBOX400/tBOX500 Series	191

4 DIN-rail Embedded Systems

Selection Guide 195

x86-based Series

ICO100-839	Robust DIN-rail Fanless Embedded System with Intel® Celeron® Processor N3350, 2 COM, LAN, 2 USB and DIO	201
ICO120-83D	Robust DIN-rail Fanless Embedded System with Intel® Celeron® Processor N3350, COM or CAN, 2 LAN, 2 USB and DIO	203
ICO300	Robust DIN-rail Fanless Embedded System with Intel® Atom® Processor E3815/E3827, 4 COM, 2 LAN, DIO and RTC	205
ICO300-83B	Robust DIN-rail Fanless Embedded System with Intel® Celeron® Processor N3350/Pentium® Processor N4200, Isolated COM, LAN and DIO	207

	ICO310	Robust DIN-rail Fanless Embedded System with Intel® Celeron® Processor N3060/N3160, 2 COM, 4 USB, 2 GbE LAN (1 PoE PD), DIO and RTC	209
	ICO320-83C	Robust DIN-rail Fanless Embedded System with Intel® Celeron® Processor N3350/Pentium® Processor N4200, COM or CAN, PoE LAN and DIO	211
NEW	ICO500-518	Robust DIN-rail Fanless Embedded System with 7th Gen Intel® Core™ i7/i5/i3 & Celeron® Processor and Dual Modular I/O Expansion Design	213
	rBOX510-6COM (ATEX/C1D2)	ATEX & CID2 Anti-Explosion Certified Robust DIN-rail Fanless Embedded System with Intel® Atom® Processor E3827	215

ARM-based Series

NEW	Agent200-FL-DC	Robust RISC-based DIN-rail Fanless Embedded System with i.MX 6UL Processor, 1 COM, 1 LAN and DIO (4-in/4-out), Optional CANbus	217
	IRU131	Robust RISC-based DIN-rail Fanless Embedded System with i.MX 6UL Processor, COM, LAN, DIO (2-in/2-out) and 2 PCIe Mini Card Slots	219
	IRU151	Robust RISC-based DIN-rail Fanless Embedded System with i.MX 6UL Processor, COM, LAN, DIO (2-in/2-out), 4 AI Channels (16-bit, 100 S/s) and 2 PCIe Mini Card Slots	221
	IRU152	Robust RISC-based DIN-rail Fanless Embedded System with i.MX 6UL Processor, COM, LAN, DIO (2-in/2-out), 4 AI Channels (16-bit, 250 kS/s) and 2 PCIe Mini Card Slots	223
	IFB112	Robust RISC-based DIN-rail Fanless Embedded System with i.MX 6UL Processor, COM, CANbus, 2 LAN and DIO (2-in/1-out)	225
	IFB122	Robust RISC-based DIN-rail Fanless Embedded System with i.MX 6UL Processor, 2 COM, 2 LAN and DIO (2-in/1-out)	227
	IFB125	Robust RISC-based DIN-rail Fanless Embedded System with i.MX 6UL Processor, COM, SPI, I2C, 2 LAN and DIO (2-in/1-out)	229

5 Embedded MicroBoxes

Selection Guide		232
AX60630	Embedded MicroBox for Low Power Mini-ITX SBC	233
AX60650	Embedded MicroBox for Mini-ITX SBC	234
ECM100	Embedded Chassis for Mini-ITX SBC	235
ECM300	Embedded Chassis with 2 Expansion Slots for Mini-ITX SBC	236

6 Industrial Systems

Selection Guide		238
IPC962-511-FL	2-slot Fanless Industrial System with LGA1151 Socket 7th/6th Gen Intel® Core™ i7/i5/i3 & Celeron® Processor, Intel® H110, Front-access I/O, PCIe and PCI Slots	241
IPC962-512-FL	2-slot Fanless Industrial System with LGA1151 Socket 7th/6th Gen Intel® Core™ i7/i5/i3 & Celeron® Processor, Intel® Q170, Front-access I/O, PCIe and PCI Slots	243

	IPC964-512-FL	4-slot Fanless Industrial System with LGA1151 Socket 7th/6th Gen Intel® Core™ i7/i5/i3 & Celeron® Processor, Intel® Q170, Front-access I/O, PCIe and PCI Slots	245
NEW	IPC974-519-FL	4-slot Industrial System with LGA1151 Socket Intel® Xeon® E3 v5, 7th/6th Gen Intel® Core™ i7/i5/i3 & Celeron® Processor, Intel® C236/Q170, Front-access I/O, PCIe and PCI Slots	247
	IPC922-215-FL	2-slot Fanless Industrial System with Intel® Celeron® Processor J1900, Front-access I/O, PCIe and PCI Slots	249
	IPC932-230-FL	2-slot Fanless Industrial System with 4th Gen Intel® Core™ i7/i5/i3 & Celeron® Processor, Intel® Q87, Front-access I/O, PCIe and PCI Slots	251

7 Machine Vision Systems

	Selection Guide		255
NEW	MVS900-511-FL	Fanless Vision System with LGA1151 Socket 7th/6th Gen Intel® Core™ i7/i5/i3 & Celeron® Processor, Intel® H110 with Vision I/O and 4-CH PoE and 4-CH LED Output	257
NEW	MVS900-512-FL	Fanless Vision System with LGA1151 Socket 7th/6th Gen Intel® Core™ i7/i5/i3 & Celeron® Processor, Intel® Q170 with Vision I/O and 4-CH PoE and 4-CH LED Output	259
	IPS960-511-PoE	Vision System with LGA1151 Socket 7th/6th Gen Intel® Core™ i7/i5/i3 & Celeron® Processor, Intel® H110, 4 PoE, 4 USB 3.0, and Real-time Vision I/O	261
	IPS962-512-PoE	Vision System with LGA1151 Socket 7th/6th Gen Intel® Core™ i7/i5/i3 & Celeron® Processor, Intel® Q170, 4 PoE, 4 USB 3.0, and Real-time Vision I/O	263

8 Industrial Chassis

	Selection Guide		266
	AX60501	6-slot ShoeBox Chassis	267
	AX60810	Wall Mount Chassis for ATX & mATX Standard Board	269
	AX61131TM	1U Cost-effective Rackmount Chassis for ATX Motherboard	271
	AX61223TM	2U Rackmount Chassis for ATX Motherboard	273
NEW	AX61410	4U 14-slot Rackmount Chassis	275
	AX6156LE	COM Express Type 10 Mini Module with Intel® Pentium® Processor N4200 & Celeron® Processor N3350	277

9 Digital Signage Players

	Selection Guide		281

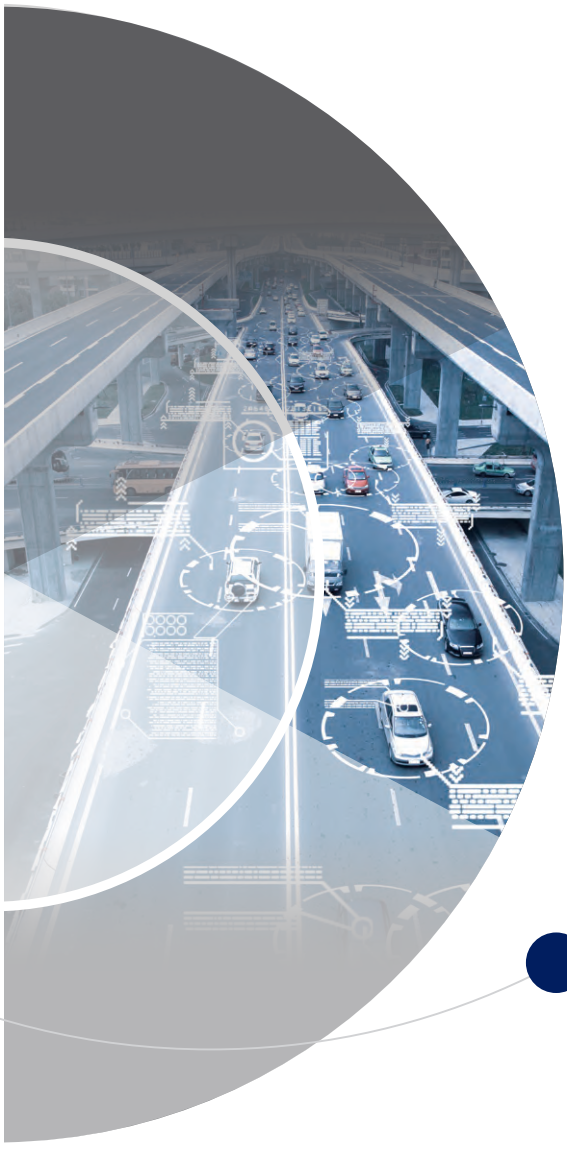
OPS+ & OPS Series

	OPS700-520	Open Pluggable Specification-Plus (OPS+) Digital Signage Player with 8th Gen Intel® Core™ i7/i5/i3 & Celeron® Processor, Intel® Q370 and TPM 2.0	284

	OPS500-520-H	Open Pluggable Specification (OPS) Digital Signage Player with 8th Gen Intel® Core™ i7/i5/i3 & Celeron® Processor, Intel® H310 and TPM 2.0	285
	OPS500-501	Open Pluggable Specification (OPS) Digital Signage Player with 6th/7th Gen Intel® Core™ i7/i5/i3 & Celeron® Processor, Intel® Q170 and AMT 11.0	286
	OPS500-501-H	Open Pluggable Specification (OPS) Digital Signage Player with 7th/6th Gen Intel® Core™ i7/i5/i3 & Celeron® Processor and Intel® H110	287
	OPS300-310	Open Pluggable Specification (OPS) Digital Signage Player with Intel® Celeron® Processor N3350 and TPM 2.0	288

DSP Series

NEW	DSP600-211	4K Digital Signage Player with AMD Ryzen Embedded V1000 Series, 4 HDMI, 2 GbE LAN and 4 USB	289
NEW	DSP501-527	Digital Signage Player with 8th Gen Intel® Core™ i7/i5/i3 & Celeron® Whiskey Lake Processor, DisplayPort++, HDMI, 5 USB and GbE LAN	290
NEW	DSP500-523	Digital Signage Player with 8th Gen Intel® Core™ i7/i5/i3 & Celeron® (Coffee Lake) Processor, 3 HDMI 2.0, 4 USB and GbE LAN	291
	DSP300-318	Digital Signage Player with Intel® Pentium® Processor N4200 & Celeron® Processor N3350, DisplayPort++, HDMI, 2 GbE LAN and 4 USB	292



Embedded Systems

Edge AI Systems

Transportation Embedded Systems & Switch

DIN-rail Embedded Systems

Embedded MicroBoxes

Industrial Systems

Machine Vision Systems

Industrial Chassis

Digital Signage Players

Systems and Platforms

1 Embedded Systems

Axiomtek offers a full range of expandable, high performance and industry-specific embedded systems (eBOX). The eBOX products are designed to offer great versatility for a wide variety of applications. These feature-rich, industrial-grade embedded systems can be tailored to meet different application requirements. The eBOX offers standard features that include powerful computing capabilities, fanless operation, wide operating temperature ranges, low power consumption, superior reliability, flexible I/O configurations, long product life cycles, and long-term support.

	Selection Guide		125
	eBOX100-312-FL	Fanless Embedded System with Intel® Celeron® N3350 2.4 GHz/ Pentium® N4200 2.5 GHz, 2 HDMI, 2 GbE LAN and 6 USB	132
NEW	eBOX100-51R-FL	Fanless Ultra Compact Embedded System with Intel® Core™ i5-7300U & Intel® Celeron® 3965U Processors, DisplayPort++, 2 COM, 4 USB and 2 GbE LAN	133
	eBOX560-500-FL	Fanless Embedded System with Intel® Core™ i7-6600U 3.4 GHz/ i5-6300U 3 GHz/i3-6100U 2.3GHz/Celeron® 3955U 2.0 GHz, 2 HDMI, 2 GbE LAN, 4 USB 3.0, 2 COM and PCI Express Mini Card Slot	134
	eBOX560-512-FL	Fanless Embedded System with Intel® Core™ i5-7300U 3.5 GHz/ Celeron® 3965U 2.2 GHz, 2 HDMI, 2 GbE LAN, 4 USB 3.0 and PCI Express Mini Card Slot	135
	eBOX560-900-FL	Fanless Edge System with NVIDIA® Jetson™ TX2, HDMI 2.0, 2 GbE LAN, and USB 2.0	136
	eBOX565-500-FL	Fanless Embedded System with Intel® Core™ i5-6300U 2.4 GHz/ i3-6100U 2.3 GHz/Celeron® 3955U 2.0 GHz, 2 HDMI, 2 GbE LAN, 4 USB 3.0, 2 COM and 9 to 36 VDC	137
	eBOX625-312-FL	Fanless Embedded System with Intel® Celeron® N3350 2.4 GHz/ Pentium® N4200 2.5 GHz, HDMI, VGA, 2 GbE LAN, 6 USB and 3 COM	138
	eBOX625-853-FL	Fanless Embedded System with Intel® Celeron® N3160 2.24 GHz, VGA/HDMI, 4 COM, 2 GbE LAN, 4 USB, and 2 PCI Express Mini Card Slots	139
	eBOX626-853-FL	Fanless Embedded System with Intel® Celeron® N3160 2.24 GHz, VGA/HDMI, 4 COM, 2 GbE LAN, 4 USB, 2 PCI Express Mini Card Slots and 9 to 36 VDC	140
	eBOX627-312-FL	Fanless Embedded System Intel® Celeron® N3350 2.4 GHz/ Pentium® N4200 2.5 GHz, HDMI, 2 GbE LAN, 6 USB, 4 COM and 9 to 36 VDC	141

NEW	eBOX630-528-FL	Fanless Embedded System with Intel® Core™ i7/i5/i3 & Celeron® ULT Processor, 2 HDMI, 1 VGA, 3 GbE LAN, 6 USB, Dual PCI Express Mini Card Slots and 9 to 36 VDC	142
	eBOX638-842-FL	Fanless Embedded System with Intel® Celeron® Processor J1900, VGA, HDMI, 4 COM, 6 USB, Dual Expansion Slots and 9 to 36 VDC Input	143
	eBOX640-500-FL	Fanless Embedded System with LGA1151 Socket 6th/7th Gen Intel® Core™ & Celeron® Processor, Intel® H110, 1 HDMI, DisplayPort, VGA, 6 USB, 4 COM, PCI Express Mini Card Slot and 10 to 30 VDC	144
NEW	eBOX640-521-FL	Fanless Embedded System with LGA1151 Socket 8th Gen Intel® Core™ & Celeron® Processor, Intel® H310, HDMI, DisplayPort, 6 USB, 2 COM and 8-CH DI/DO	145
	eBOX670-891-FL	Fanless Embedded System with LGA1151 Socket 6th/7th Gen Intel® Core™ i7/i5/i3 & Celeron® Processor, Intel® Q170, 2 HDMI, 1 DisplayPort, 4 GbE LAN, 8 USB, Dual PCI Express Mini Card Slots and Wide Range DC-in	146
	eBOX671-517-FL	Fanless Embedded System with LGA1151 Socket 7th/6th Gen Intel® Core™ i7/i5/i3 & Celeron® Processor, Intel® Q170, VGA/DVI-D/HDMI, 8-CH PoE, 6 USB and 9 to 36 VDC	147
NEW	eBOX671-521-FL	Fanless Embedded System with LGA1151 9th/8th Gen Intel® Core™ 133 i7/i5/i3 & Celeron® Processor, 4-CH PoE and Optional MXM Graphics Module Supported	148
	eBOX700-891-FL	Fanless Embedded System with LGA1151 Socket 6th/7th Gen Intel® Core™ i7/i5/i3 & Celeron® Processor, Intel® H110, 2 HDMI,1 DisplayPort, 4 GbE LAN, 6 USB, PCIe x4/PCI Slot and 9 to 36 VDC	149
	eBOX800-511-FL	Rugged IP67-rated Fanless Embedded System with Intel Core™ i5-7300U/Celeron® 3965U, VGA, GbE LAN, 2 USB, 2 COM and 9 to 36 VDC	150
	eBOX800-841-FL	Rugged IP67-rated Fanless Embedded System with Intel® Atom® Processor E3845 1.91 GHz, VGA, 2 GbE LAN, 2 USB, 2 COM and 9 to 36 VDC	151
	eBOX800-900-FL	Rugged IP67-rated Fanless Edge System with NVIDIA® Jetson™ TX2, HDMI, GbE LAN, 1-CH PoE, USB 2.0 and 100 to 240 VAC Power Input	152

Systems and Platforms

Embedded Systems

Selection Guide



NEW





Features\Models	eBOX100-312-FL	eBOX100-51R-FL	eBOX560-500-FL
CPU Level	Intel® Celeron® N3350 2.4 GHz Intel® Pentium® N4200 2.5 GHz	Intel® Core™ i5-7300U 2.6GHz Intel® Celeron® 3965U 2.2GHz	Intel® Core™ i7-6600U 3.4 GHz/ i5-6300U 3.0 GHz/i3-6100U 2.3 GHz & Celeron® 3955U 2.0 GHz
System Memory	1 x 204-pin DDR3L-1600 SO-DIMM, up to 8GB	1 x 260-pin DDR4-2133 SO-DIMM, up to 16G	1 x 260-pin DDR4-2133 SO-DIMM, up to 16GB
Chipset	SoC integrated	SoC integrated	SoC integrated
Serial	1 x RS-232	2 x RS-232/422/485	1 x RS-232/422/485 1 x RS-232
Display	2 x HDMI	1 x DisplayPort	2 x HDMI
Audio	N/A	N/A	N/A
PS/2	N/A	N/A	N/A
Ethernet	2 x 10/100/1000 Mbps Ethernet	2 x 10/100/1000 Mbps Ethernet	2 x 10/100/1000 Mbps Ethernet
USB	4 x USB 2.0 2 x USB 3.0	2 x USB 3.0 2 x USB 2.0	4 x USB 3.0
Expansion Interface	2 x Full-size PCI Express Mini Card slot (USB + PCIe) 1 x SIM slot	1 x M.2 Key E	1 x Full-size PCI Express Mini Card slot (USB + PCIe)
Storage	1 x 2.5" HDD drive bay	1 x M.2 Key B (SATA)	1 x 2.5" HDD drive bay 1 x mSATA (enabled in BIOS setting)
Watchdog Timer	255 levels, 1 to 255 sec.	65536 levels, 1 to 65535 sec.	255 levels, 1 to 255 sec.
Power Supply	12 VDC	12 VDC	12 VDC
Operating Temperature	-5°C to +60°C (+23°F to +140°F) (with W.T. SSD/DRAM)	-10°C to +50°C (+14°C to +122°C) (with W.T. SSD/DRAM)	-10°C to +55°C (+14°F to +131°F) (with W.T. SSD/DRAM)
Mounting	Wall mount VESA mount DIN-rail	Wall mount VESA mount DIN-rail	Wall mount VESA mount DIN-rail
Dimensions (W x D x H)	216 x 137.65 x 38 mm (8.5" x 5.41" x 1.49")	142 x 87 x 58 mm (5.59" x 3.42" x 2.28")	141.5 x 106 x 55 mm (5.57" x 4.17" x 2.17")
Weight (net/gross)	1.15 kg (2.53 lb)/1.5 kg (3.3 lb)	0.6 kg (1.32 lb)/1.5 kg (3.3 lb)	0.8 kg (1.76 lb)/1.67 kg (3.68 lb)
Certifications	CE, FCC Class A	CE, FCC Class A	CE
EOS Support	Win 10 IoT, Linux	Win 10 IoT, Linux	Win 10 IoT, WE8S, Linux
Software Support	N/A	AMS.AXView	N/A

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Features\Models	eBOX560-512-FL	eBOX560-900-FL	eBOX565-500-FL
CPU Level	IIntel® Core™ i5-7300U 2.6 GHz/i3-7100U 2.4 GHz & Celeron® 3965U 2.2 GHz	NVIDIA® Jetson™ TX2 SoM HMP Dual Denver 2/2 MB L2 + Quad ARM® A57/2 MB L2	Intel® Core™ i5-6300U 2.4 GHz/ i3-6100U 2.3 GHz & Celeron® 3955U 2.0 GHz
System Memory	1 x 260-pin DDR4-2133 SO-DIMM, up to 16GB	1 x 8GB 128-bit LPDDR4@1866 MHz onboard	1 x 260-pin DDR4-2133 SO-DIMM, up to 16GB
Chipset	SoC integrated	SoM integrated	SoC integrated
Serial	2 x RS-232/422/485	N/A	1 x RS-232/422/485 1 x RS-232
Display	2 x HDMI	1 x HDMI	2 x HDMI
Audio	N/A	N/A	N/A
PS/2	N/A	N/A	N/A
Ethernet	2 x 10/100/1000 Mbps Ethernet	2 x 10/100/1000 Mbps Ethernet (NVIDIA® + Intel® i210-IT)	2 x 10/100/1000 Mbps Ethernet
USB	4 x USB 3.0	1 x USB 2.0	4 x USB 3.0
Expansion Interface	1 x Full-size PCI Express Mini Card slot (USB + PCIe)	1 x Full-size PCI Express Mini Card slot (USB + PCIe)	1 x Full-size PCI Express Mini Card slot (USB + PCIe)
Storage	1 x 2.5" HDD drive bay 1 x mSATA (enabled in BIOS setting)	1 x SIM slot Onboard 32GB eMMC (via Jetson™ TX2) 1 x M.2 Key M 2280 with PCIe 2.0 x4 for NVMe SSD (optional)	1 x 2.5" HDD drive bay 1 x mSATA (enabled in BIOS setting)
Watchdog Timer	255 levels, 1 to 255 sec.	Built-in TX2	255 levels, 1 to 255 sec.
Power Supply	12 VDC	12 VDC	9 to 36 VDC
Operating Temperature	-10°C to +50°C (+14°F to +122°F) (with W.T. SSD/DRAM)	-30°C to +60°C (-22°F to +140°F)	-10°C to +50°C (-4°F to +122°F) (with W.T. SSD/DRAM)
Mounting	Wall mount VESA mount DIN-rail	Wall mount VESA mount DIN-rail	Wall mount VESA mount DIN-rail
Dimensions (W x D x H)	141.6 x 106 x 54.85 mm (5.57" x 4.17" x 2.15")	141.6 x 106 x 55 mm (5.57" x 4.17" x 2.17")	141.5 x 106 x 73 mm (5.57" x 4.17" x 2.87")
Weight (net/gross)	0.8 kg (1.76 lb)/1.67 kg (3.68 lb)	0.8 kg (1.76 lb)/1.5 kg (3.31 lb)	1.074 kg (1.76lb)/1.67 kg (3.68lb)
Certifications	CE, FCC Class A	CE, FCC Class A	CE
EOS Support	Win 10 IoT, Linux	Linux Ubuntu 18.04	Win 10 IoT, WE8S, Linux
Software Support	N/A	N/A	N/A

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Embedded Systems

Selection Guide







Features\Models	eBOX625-312-FL	eBOX625-853-FL	eBOX626-853-FL
CPU Level	Intel® Celeron® N3350 2.4 GHz Intel® Pentium® N4200 2.5 GHz	Intel® Celeron® N3160 2.24 GHz	Intel® Celeron® N3160 2.24 GHz
System Memory	1 x 204-pin DDR3L-1866 SO-DIMM, up to 8GB	1 x 204-pin DDR3L-1333/1600 SO-DIMM, up to 8GB	1 x 204-pin DDR3L-1333/1600 SO-DIMM, up to 8GB
Chipset	SoC integrated	SoC integrated	SoC integrated
Serial	2 x RS-232/422/485 1 x RS-232	1 x RS-232/422/485 3 x RS-232	1 x RS-232/422/485 3 x RS-232
Display	1 x HDMI (lockable) 1 x VGA	1 x VGA 1 x HDMI	1 x VGA 1 x HDMI
Audio	Yes	Yes	Yes
PS/2	N/A	N/A	N/A
Ethernet	2 x 10/100/1000 Mbps Ethernet	2 x 10/100/1000 Mbps Ethernet	2 x 10/100/1000Mbps Ethernet
USB	2 x USB 2.0 4 x USB 3.0	1 x USB 2.0 3 x USB 3.0	1 x USB 2.0 3 x USB 3.0
Expansion Interface	2 x Full-size PCI Express Mini Card slot (USB + PCIe) 1 x SIM slot	2 x Full-size PCI Express Mini Card slot (USB + PCIe) 1 x SIM slot	2 x Full-size PCI Express Mini Card slot (USB + PCIe) 1 x SIM slot
Storage	1 x 2.5" HDD drive bay 1 x mSATA (enabled in BIOS setting)	1 x 2.5" HDD drive bay 1 x mSATA (enabled in BIOS setting)	1 x 2.5" HDD drive bay 1 x mSATA (enabled in BIOS setting)
Watchdog Timer	65536 levels, 1 ~ 65535 sec.	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.
Power Supply	12 VDC	12 VDC	9 to 36 VDC
Operating Temperature	-20°C to +60°C (-4°F to +140°F) (with W.T. SSD/DRAM)	-20°C to +60°C (-4°F to +140°F) (with W.T. SSD/DRAM)	-20°C to +60°C (-4°F to +140°F) (with W.T. SSD/DRAM)
Mounting	Wall mount VESA mount DIN-rail	Wall mount VESA mount DIN-rail	Wall mount VESA mount DIN-rail
Dimensions (W x D x H)	200 x 120 x 46 mm (7.87" x 4.72" x 1.81")	200 x 120 x 46 mm (7.87" x 4.72" x 1.81")	200 x 120 x 46 mm (7.87" x 4.72" x 1.81")
Weight (net/gross)	1.1 kg (2.43 lb)/1.8 kg (3.97 lb)	1.2 kg (2.65 lb)/1.9 kg (4.19 lb)	1.2 kg (2.65 lb)/1.9 kg (4.19 lb)
Certifications	CE, FCC Class A	CE	CE
EOS Support	Win 10 IoT, Linux	WES7, WE8S, Win 10 IoT, Linux	WES7, WE8S, Linux
Software Support	AMS.AXView	N/A	N/A

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NEW





Features\Models	eBOX627-312-FL	eBOX630-528-FL	eBOX638-842-FL
CPU Level	Intel® Celeron® N3350 2.4 GHz Intel® Pentium® N4200 2.5 GHz	Intel® CoreTM i3-8145UE/i5-8365UE /i7-8665UE Celeron® 4305UE	Intel® Celeron® J1900 2.0 GHz
System Memory	1 x 204-pin DDR3L-1866 SO-DIMM, up to 8GB	2 x 260-pin DDR4-2400 SO-DIMM, up to 32GB	1 x 204-pin DDR3L-1066/1333 SO-DIMM, up to 8GB
Chipset	SoC integrated	SoC integrated	SoC integrated
Serial	2 x RS-232/422/485 2 x RS-232	2 x RS-232/422/485 2 x RS-232	2 x RS-232/422/485 2 x RS-232
Display	1 x HDMI (lockable)	1 x VGA 2 x HDMI (lockable)	1 x HDMI 1 x VGA
Audio	N/A	Yes	Yes
PS/2	N/A	N/A	Yes
Ethernet	2 x 10/100/1000 Mbps Ethernet	1 x 10/100/1000/2.5G Base-T Ethernet 2 x 10/100/1000 Mbps Ethernet	2 x 10/100/1000 Mbps Ethernet
USB	2 x USB 2.0 4 x USB 3.0	2 x USB 3.1 Gen2 2 x USB 3.1 Gen1 2 x USB 2.0	5 x USB 2.0 1 x USB 3.0
Expansion Interface	2 x Full-size PCI Express Mini Card slot (USB + PCIe) 1 x SIM slot	2 x Full-size PCI Express Mini Card slot (USB + PCIe + SATA) 1 x SIM slot	1 x Full-size PCI Express Mini Card slot (USB + PCIe) 2 PCI slot or 2 PCIe x1 slot 1 x SIM slot
Storage	1 x 2.5" HDD drive bay 1 x mSATA (enabled in BIOS setting)	2 x 2.5" HDD drive bay 1 x mSATA (enabled in BIOS setting)	1 x 2.5" HDD drive bay 1 x mSATA (enabled in BIOS setting)
Watchdog Timer	65536 levels, 1 to 65535 sec.	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.
Power Supply	9 to 36 VDC	9 to 36 VDC	9 to 36 VDC
Operating Temperature	-20°C to +70°C (-4°F to +158°F) (with W.T. SSD/DRAM)	-40°C to +70°C (-40°F to 158°F) (with W.T. SSD/DRAM)	-10°C to +55°C (14°F to +131°F) (with W.T. DRAM & SSD)
Mounting	Wall mount VESA mount DIN-rail	Wall mount VESA mount DIN-rail	Wall mount
Dimensions (W x D x H)	200 x 120 x 65 mm (7.87" x 4.72" x 2.55")	260 x 170 x 60 mm (9.84" x 6.69" x 2.36")	192 x 230 x 115.8 mm (7.56" x 9.05" x 4.56")
Weight (net/gross)	1.38 kg (3.04 lb)/2.08 kg (4.59 lb)	1.38 kg (3.04 lb)/2.08 kg (4.59 lb)	4.1 kg (9.03 lb) /4.8 kg (10.58 lb)
Certifications	CE, FCC Class A	CE, FCC Class A	CE
EOS Support	Win 10 IoT, Linux	Win 10 IoT, Linux	WES7, Win 10 IoT
Software Support	AMS.AXView	N/A	N/A

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Embedded Systems

Selection Guide



NEW





Features\Models	eBOX640-500-FL	eBOX640-521-FL	eBOX670-891-FL
CPU Level	LGA1151 7th/6th gen Intel® Core™ i7/i5/i3 & Celeron®	LGA1151 8th gen Intel® CoreTM i7/i5/i3/ & Celeron®	LGA1151 7th/6th gen Intel® Core™ i7/i5/i3 & Celeron®
System Memory	2 x 288-pin DDR4-2133 DIMM, up to 32GB	2 x 260-pin DDR4-2666/2400 SO-DIMM, up to 32GB	6th gen: 2 x 260-pin DDR4-1866/2133 SO-DIMM, up to 32GB 7th gen: 2 x 260-pin DDR4-2133/2400 SO-DIMM, up to 32GB
Chipset	Intel® H110	H310/Q370 (optional)	Intel® Q170
Serial	1 x RS-232/422/485 3 x RS-232	1 x RS-232/422/485 1 x RS-232	2 x RS-232/422/485
Display	1 x DisplayPort 1 x HDMI 1 x VGA	1 x HDMI 1 x DisplayPort	1 x DisplayPort 2 x HDMI
Audio	Yes	Yes	Yes
PS/2	N/A	N/A	N/A
Ethernet	2 x 10/100/1000 Mbps Ethernet	2 x 10/100/1000 Mbps Ethernet	4 x 10/100/1000 Mbps Ethernet
USB	2 x USB 2.0 4 x USB 3.0	4 x USB 2.0 2 x USB 3.0	2 x USB 2.0 6 x USB 3.0
Expansion Interface	1 x Full-size PCI Express Mini Card slot (USB + PCIe) 1 x SIM slot	1 x Full-size PCI-Express Mini Card slot (PCIe + SATA + USB) 1 x M.2 Key E 2230 (for Wi-Fi)	2 x Full-size PCI Express Mini Card slot (USB + PCIe) 1 x SIM slot
Storage	2 x 2.5" HDD drive bay 1 x mSATA (enabled in BIOS setting)	2 x 2.5" HDD drive bay 1 x M.2 Key M 2280 (for storage)	2 x 2.5" HDD drive bay 1 x CFast™ 1 x mSATA (enabled in BIOS setting)
Watchdog Timer	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.
Power Supply	10 to 30 VDC	12, 19 to 24 VDC	9 to 36 VDC
Operating Temperature	-10°C to +55°C (+14°F to +131°F) (with W.T. SSD/DRAM)	-10°C to +50°C (14°F to 122°F) (with W.T. SSD/DRAM)	-40°C to +60°C (-40°F to +140°F) (with W.T. SSD/DRAM)
Mounting	Wall mount	Wall mount VESA mount DIN-rail	Wall mount DIN-rail
Dimensions (W x D x H)	182 x 235.7 x 82 mm (7.16" x 9.27" x 3.23")	182 x 200 x 82 mm (7.16" x 7.87" x 3.23")	280 x 190 x 76 mm (11.02" x 7.4" x 2.99")
Weight (net/gross)	3 kg (6.61 lb)/3.6 kg (7.94 lb)	3 kg (6.61 lb)/3.6 kg (7.94 lb)	3.8 kg (8.37 lb)/4.6 kg (10.14 lb)
Certifications	CE	CE, FCC Class A	CE, FCC Class A
EOS Support	Win 10 IoT, WE8S, WES7, Linux	Win 10 IoT, Linux	WE8S, Win 10 IoT, Linux
Software Support	N/A	N/A	AMS.AXView

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NEW







Features\Models	eBOX671-517-FL	eBOX671-521-FL	eBOX700-891-FL
CPU Level	LGA1151 7th/6th gen Intel® Core™ i7/i5/i3 & Celeron® (35W/65W)	LGA1151 9th gen Intel® Core™ i7/i5/i3 & Celeron® (35W) LGA1151 8th gen Intel® Core™ i7/i5/i3 & Celeron® (35W/65W)	LGA1151 7th/6th gen Intel® Core™ i7/i5/i3 & Celeron®
System Memory	2 x 260-pin DDR4-2133 SO-DIMM, up to 32GB	2 x 260-pin DDR4-2666 SO-DIMM, up to 64GB	6th gen: 2 x 260-pin SO-DIMM DDR4-1866/2133, up to 32GB 7th gen: 2 x 260-pin SO-DIMM DDR4-2133/2400, up to 32GB
Chipset	Intel® Q170	Intel® Q370 Intel® C246 (optional)	Intel® H110
Serial	2 x RS-232/422/485	2 x RS-232/422/485	2 x RS-232/422/485
Display	1 x VGA 1 x DVI-D 1 x HDMI	1 x DisplayPort 1 x DVI-I 1 x HDMI 2 x DisplayPort via MXM (optional)	1 x DisplayPort 2 x HDMI
Audio	Yes	Optional	Yes
PS/2	N/A	N/A	N/A
Ethernet	8 x 10/100/1000 Mbps PoE, max. up to 120W	2 x 10/100/1000 Mbps Ethernet 4 x 10/100/1000 Mbps PoE, max. up to 60W	4 x 10/100/1000 Mbps Ethernet
USB	2 x USB 2.0 4 x USB 3.0	4 x USB 3.1 Gen1 2 x USB 3.1 Gen2	2 x USB 2.0 4 x USB 3.0
Expansion Interface	2 x Full-size PCI Express Mini Card slot (USB + PCIe) 1 x Half-size PCI Express Mini Card slot (USB only) 1 x Half-size PCI Express Mini Card slot (USB + mSATA) 2 x SIM slot	2 x Full-size PCI Express Mini Card slot (USB + PCIe signal) 2 x SIM slot 1 x internal MXM3.1 type A connector	2 x Full-size PCI Express Mini Card slot (USB + PCIe) 1 x PCIe x4 or 1 x PCI 1 x SIM slot
Storage	2 x 2.5" HDD drive bay 1 x mSATA (enabled in BIOS setting)	2 x 2.5" HDD drive bay 1 x mSATA (enabled in BIOS setting)	1 x 2.5" HDD drive bay 1 x mSATA (enabled in BIOS setting)
Watchdog Timer	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.
Power Supply	9 to 36 VDC	24 VDC	9 to 36 VDC
Operating Temperature	-40°C to +70°C (-40°F to +140°F) (with W.T. SSD/DRAM)	-40°C to +60°C (-40°F to +140°F) (with W.T. SSD/DRAM)	-40°C to +50°C (-40°F to +122°F) (with W.T. SSD/DRAM)
Mounting	Wall mount DIN-rail	Wall mount DIN-rail	Wall mount DIN-rail
Dimensions (W x D x H)	280 x 210 x 79.6 mm (11.02" x 8.26" x 3.13")	280 x 210 x 80.5 mm (11.02" x 8.26" x 3.16")	280 x 190 x 76 mm (11.02" x 7.4" x 2.99")
Weight (net/gross)	4.31 kg (9.5 lb)/5.1 kg (11.24 lb)	4.8 kg (10.58 lb)/5.6 kg (12.34 lb)	3.8 kg (8.37 lb)/4.6 kg (10.14 lb)
Certifications	CE, FCC Class A	CE, FCC Class A	CE, FCC Class A
EOS Support	Win 10 IoT, Linux	Win 10 IoT, Linux	Win 10 IoT, Linux
Software Support	AMS.AXView	AMS.AXView	AMS.AXView

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Features\Models	eBOX800-511-FL	eBOX800-841-FL	eBOX800-900-FL
CPU Level	Intel® Core™ i5-7300U & Celeron® 3965U	Intel® Atom® E3845 1.91 GHz	NVIDIAR Jetson™ TX2 SoM HMP Dual Denver 2/2 MB L2 + Quad ARM® A57/2 MB L2
System Memory	1 x 260-pin DDR4-2133 SO-DIMM, up to 16GB	1 x 204-pin DDR3L-1066/1333 SO-DIMM, up to 8GB	1 x 8GB 128-bit LPDDR4 @1866 MHz onboard
Chipset	SoC integrated	SoC integrated	SoM integrated
Serial	2 x RS-232/422/485 (M12)	2 x RS-232/422/485 (M12)	N/A
Display	1 x VGA (M12)	1 x VGA	1 x C3 HDMI (M12)
Audio	N/A	N/A	N/A
PS/2	N/A	N/A	N/A
Ethernet	1 x 10/100/1000 Mbps Ethernet (M12)	2 x 10/100/1000 Mbps Ethernet (M12)	1 x 10100/1000 Mbps Ethernet (M12) 1 x 10/100/1000 Mbps PoE (M12,30W)
USB	2 x USB 2.0 (M12)	2 x USB 2.0 (M12)	1 x USB 2.0 (M12)
Expansion Interface	1 x Full-size PCI Express Mini Card slot 1 x Half-size PCI Express Mini Card slot (USB + PCIe)	1 x Full-size PCI Express Mini Card slot 1 x Half-size PCI Express Mini Card slot (USB + PCIe)	1 x Full-size PCI Express Mini Card slot (USB + PCIe signal) 1 x SIM slot
Storage	1 x 2.5" HDD drive bay 1 x mSATA (enabled in BIOS setting)	1 x 2.5" HDD drive bay 1 x CFast™ 1 x mSATA (enabled in BIOS setting) 1 x SIM slot	Onboard 32GB eMMC (via Jetson™ TX2) 1 x M.2 Key M 2280 with PCIe 2.0 x4 for NVMe SSD (optional)
Watchdog Timer	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.	Built-in TX2
Power Supply	9 to 36 VDC (M12)	9 to 36 VDC (M12)	100 to 240 VAC with 10kV SPD
Operating Temperature	-30°C to +60°C (-22°F to +140°F) (with i5-7300U, W.T. SSD/DRAM)	-30°C to +60°C (-22°F to +140°F) (with W.T. SSD/DRAM)	-30°C to +60°C (-22°F to +140°F)
Mounting	Wall mount	Wall mount	Wall mount
Dimensions (W x D x H)	210 x 366.83 x 83 mm (8.27" x 14.44" x 3.27")	210 x 366.83 x 83 mm (8.27" x 14.44" x 3.27")	210 x 366.83 x 83 mm (8.27" x 14.44" x 3.27")
Weight (net/gross)	4.31 kg (9.5 lb)/5.1 kg (11.24 lb)	4.31 kg (9.5 lb)/5.1 kg (11.24 lb)	4.31 kg (9.5 lb)/5.1 kg (11.24 lb)
Certifications	CE, FCC Class A	CE	CE, FCC Class A
EOS Support	Win 10 IoT, Linux	Win 10 IoT, WE8S, WES7, Linux	Linux Ubuntu 18.04
Software Support	AMS.AXView	N/A	N/A

* All specifications and photos are subject to change without notice. www.axiomtek.com

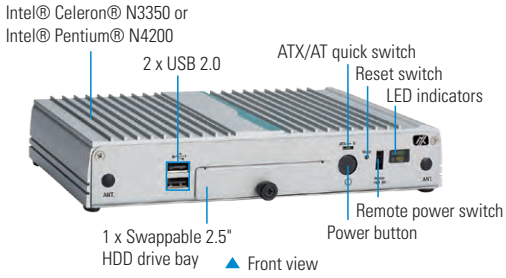
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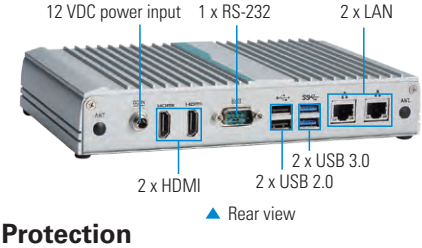
eBOX100-312-FL

Fanless Embedded System with Intel® Celeron® N3350 & Pentium® N4200, 2 HDMI, 2 GbE LAN and 6 USB

Features

- Intel® Celeron® N3350 2.4 GHz & Pentium® N4200 2.5 GHz
- Supports 2 HDMI, 1 COM, 6 USB and 2 GbE LAN
- 2 PCI Express Mini Card slots for WLAN and WWAN
- One swappable 2.5" SATA HDD drive bay
- Supports Jumbo Frame (9k), WoL, PXE Remote Boot
- Suitable for smart retail and light industries





Microsoft Azure Certified | 12 VDC | IP40 | Fanless | Low Power | 4K Ultra HD | DualView | USB 3.0

Specifications

Standard Color	Silver
Construction	Aluminum extrusion and heavy-duty steel, IP40
CPU	Intel® Celeron® N3350 2.4 GHz with turbo boost Intel® Pentium® N4200 2.5 GHz with turbo boost
System Memory	1 x 204-pin DDR3L-1600 SO-DIMM, up to 8GB
Chipset	SoC integrated
BIOS	AMI UEFI BIOS
System I/O Outlet	1 x RS-232 2 x HDMI 1.4b 2 x 10/100/1000 Mbps Ethernet (Intel® i211-AT) 2 x USB 3.0 4 x USB 2.0 4 x Antenna opening 1 x ATX power switch 1 x ATX/AT quick switch 1 x Reset button 1 x Remote power switch 1 x Screw type VDC power input connector
Watchdog Timer	255 levels, 1 to 255 sec.
Storage	1 x SATA HDD drive bay (max. up 9.5 mm height)
Expansion Interface	2 x Full-size PCI Express Mini Card slot (USB + PCIe) 1 x SIM slot
TPM	N/A
System Indicator	1 x Green LED for system power-on 1 x Orange LED for HDD active
Power Input	12 VDC
Operating Temperature	-5°C to +60°C (+23°F to +140°F) (with W.T. DRAM & SSD)
Storage Temperature	-20°C to +85°C (-4°F to +185°F)
Humidity	10% - 90%, non-condensing
Vibration Endurance	3 Grms with SSD (5 to 500 Hz, X, Y, Z directions)
Dimensions	216 mm (8.5") x 137.65 mm (5.41") x 38 mm (1.49")
Weight (net/gross)	1.15 kg (2.53 lb)/1.5 kg (3.3 lb)
Certifications	CE, FCC Class A
EOS Support	Win 10 IoT, Linux

* W.T.: Wide Temperature. All W.T. supported products have to be sorted by Axiomtek.

Packing List

1 x Quick manual
1 x Driver CD
1 x Screw pack
4 x Pre-installed foot pad
1 x HDD rubber
1 x Remote switch cable

Power Protection

AC Version
OVP (over voltage protection)
OCP (over current protection)
SCP (short circuit protection)

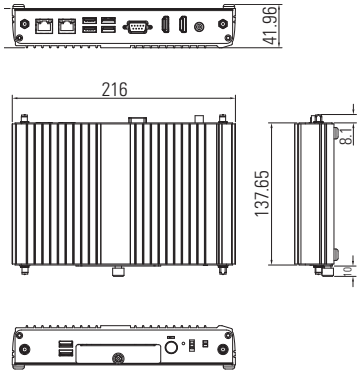
Ordering Information

Standard	
eBOX100-312-FL-DC-N3350	Fanless embedded system with Intel® Celeron® N3350 2.4 GHz, 2 HDMI, 2 GbE LAN and 6 USB (w/o adapter and power cord)
eBOX100-312-FL-DC-N4200	Fanless embedded system with Intel® Pentium® N4200 2.5 GHz, 2 HDMI, 2 GbE LAN and 6 USB (w/o adapter and power cord)

Optional	
2.5" SATA HDD	64GB or above
2.5" SATA SSD	100GB or above
DDR3L SO-DIMM	2GB to 8GB
88606200010E	Wall mount kit
8816K1000A0E	VESA mount kit
881606470A0E	DIN-rail kit
8816K1001A0E	Wi-Fi module 3G/LTE module
50956A24030E	12V 36W power adapter Power cord

* Specifications and certifications may vary based on different requirements.

Dimensions



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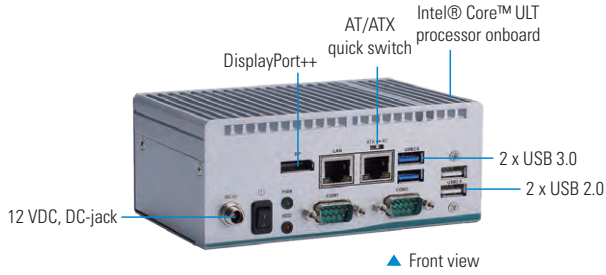
eBOX100-51R-FL NEW

Fanless Ultra Compact Embedded System with Intel® Core™ i5-7300U & Intel® Celeron® 3965U Processor, DisplayPort++, 2 COM, 4 USB and 2 GbE LAN

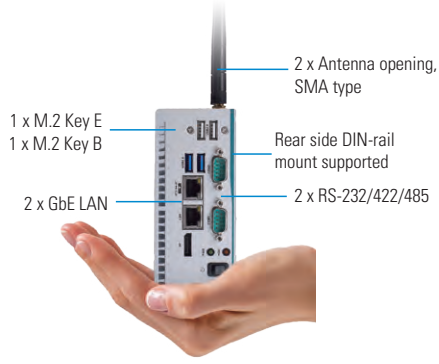
Features

- Ultra compact size with high performance
- Intel® Core™ i5-7300U or Celeron® 3965U
- M.2 Key E 2230 for Wi-Fi
- M.2 Key B 2242 for storage
- Azure certified and AMS.AXView supported
- Supports Intel® AMT 11
- Multiple mounting designs: Wall mount, DIN-rail and VESA mount

Microsoft Azure Certified | AMS.AXView | IP40 | Fanless | 4K Ultra HD | DisplayPort | USB 3.0 | 12 VDC



▲ Front view



Specifications

Standard Color	Silver
Construction	Aluminum extrusion and heavy-duty steel, IP40
CPU	Intel® Core™ i5-7300U 2.6 GHz Intel® Celeron® 3965U 2.2 GHz
System Memory	1 x 260-pin DDR4-2133 SO-DIMM, up to 16GB
Chipset	SoC integrated
BIOS	AMI UEFI BIOS
System I/O Outlet	2 x RS-232/422/485 2 x 10/100/1000 Mbps Ethernet (Intel® i219-LM, Intel® i211-AT) 2 x USB 3.0 2 x USB 2.0 1 x DisplayPort ++ 1 x ATX power switch 1 x AT/ATX quick switch 1 x Screw type VDC power input connector 2 x Antenna opening
Watchdog Timer	65535 levels, 1 to 65536 sec.
Storage	1 x M.2 Key B 2242 (for SATA storage)
Expansion Interface	1 x M.2 Key E 2230 (for Wi-Fi)
TPM	N/A
System Indicator	1 x Green LED for system power-on 1 x Orange LED for HDD active
Power Input	12 VDC
Operating Temperature	-10°C to +50°C (+14°F to +122°F) (with W.T. SSD/DRAM)
Storage Temperature	-20°C to +85°C (-4°F to +185°F)
Humidity	10% - 90%, non-condensing
Vibration Endurance	IEC 60068-2-64 (with SSD: 3Grms STD, random, 5 to 500 Hz, 1 hr/axis)
Shock Vibration	IEC 60068-2-27 (with SSD: 50G, half sine, 11 ms duration)
Dimensions	142 mm (5.59") x 87mm (3.42") x 58 mm (2.28")
Weight (net/gross)	0.6 kg (1.32 lb)/1.5 kg (3.3 lb)
Certifications	CE, FCC Class A
EOS Support	Win 10 IoT, Linux
Software Support	AMS.AXView

* W.T.: Wide Temperature. All W.T. supported products have to be sorted by Axiomtek.

Packing List

1 x Quick manual
1 x Screw pack
4 x Pre-installed foot pad
1 x HDD rubber

Power Protection

AC Version
OVP (over voltage protection)
OCP (over current protection)
SCP (short circuit protection)

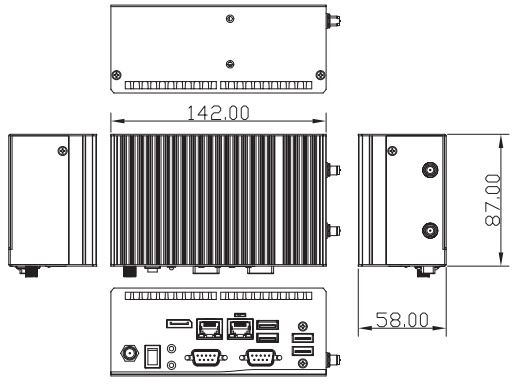
Ordering Information

Standard	
eBOX100-51R-DC-7300U	Fanless ultra compact embedded system with Intel® Core™ i5-7300U, DisplayPort++, 2 COM, 4 USB and 2 GbE LAN
eBOX100-51R-DC-3965U	Fanless ultra compact embedded system with Intel® Celeron® 3965U, DisplayPort++, 2 COM, 4 USB and 2 GbE LAN

Optional	
DDDR4 SO-DIMM	4G to 16GB
M.2 SATA SSD	128GB or above
	Wall mount kit
	DIN-rail kit
	VESA mount kit
	M.2 Wi-Fi module
50966124050E	12V/60W power adapter
	Power cord

* Specifications and certifications may vary based on different requirements.

Dimensions



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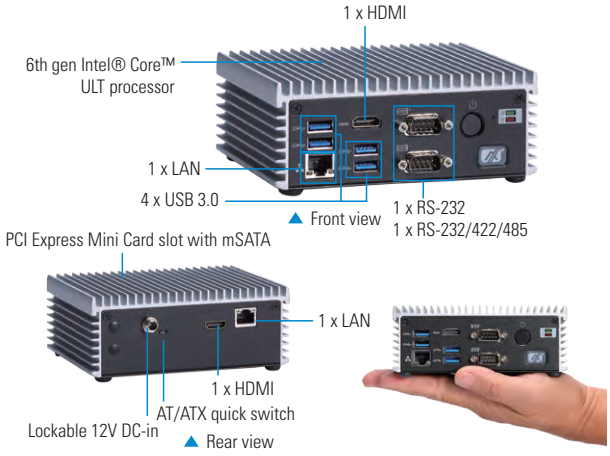
eBOX560-500-FL

Fanless Embedded System with Intel® Core™ i7-6600U/i5-6300U/i3-6100U & Celeron® 3955U, 2 HDMI, 2 GbE LAN, 4 USB 3.0, 2 COM and PCI Express Mini Card Slot

Features

- Intel® Core™ i7-6600U 3.4 GHz/i5-6300U 3 GHz/i3-6100U 2.3 GHz & Celeron® 3955U 2.0 GHz (Skylake ULT SoC)
- 260-pin DDR4 SO-DIMM for up to 16GB of memory
- 12 VDC power input
- Supports 2 HDMI, 2 GbE LAN, 2 COM and 4 USB 3.0
- Supports Jumbo Frame (9.5K), WoL, PXE and Teaming
- Ultra-compact enclosure design





Specifications

Standard Color	Silver-black
Construction	Aluminum extrusion and heavy-duty steel, IP40
CPU	Intel® Core™ i7-6600U 3.4 GHz/i5-6300U 3 GHz/i3-6100U 2.3 GHz & Celeron® 3955U 2.0 GHz (Skylake ULT SoC)
System Memory	1 x 260-pin DDR4-2133 SO-DIMM, up to 16GB
Chipset	SoC integrated
BIOS	AMI
System I/O Outlet	1 x RS-232/422/485 1 x RS-232 2 x HDMI 2 x 10/100/1000 Mbps Ethernet (Intel® i210-AT, i219-LM) 4 x USB 3.0 2 x SMA-type antenna connector 1 x AT/ATX quick switch 1 x ATX power switch 1 x Reset button 1 x Screw type VDC power input connector
Watchdog Timer	255 levels, 1 to 255 sec.
Storage	1 x 2.5" SATA HDD drive bay (max. up 9.5 mm height) 1 x mSATA (enabled in BIOS setting)
Expansion Interface	1 x Full-size PCI Express Mini Card slot (USB + PCIe signal)
TPM	N/A
System Indicator	1 x Green LED for system power-on 1 x Orange LED for HDD active
Power Input	12 VDC
Operating Temperature	-10°C to +55°C (-14°F to +131°F) (with W.T. DRAM/SSD)
Humidity	10% - 95%, non-condensing
Vibration Endurance	3 Grms with SSD™ (5 to 500 Hz, X, Y, Z directions)
Dimensions	141.5 mm (5.57") (W) x 106 mm (4.17") (D) x 55 mm (2.17") (H)
Weight (net/gross)	0.8 kg (1.76 lb)/1.67 kg (3.68 lb)
Certifications	CE
EOS Support	Win 10, WE8S, Linux

* W.T.: Wide Temperature. All W.T. supported products have to be sorted by Axiomtek.

Packing List

1 x Quick manual
1 x Driver CD
1 x Screw pack
4 x Pre-installed foot pad

Power Protection

AC Version
OVP (over voltage protection)
OCP (over current protection)
SCP (short circuit protection)
Reverse protection

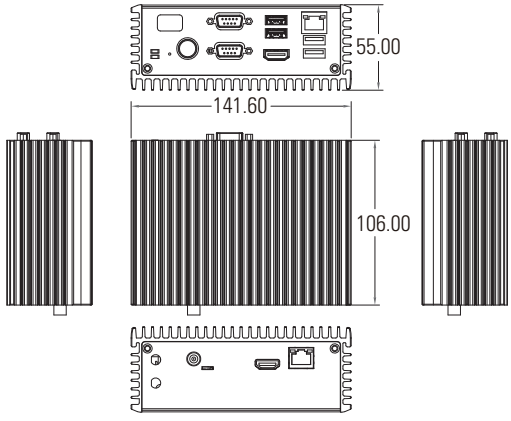
Ordering Information

Standard	
eBOX560-500-FL-DC-3955U	Fanless embedded system with 6th generation Intel® Celeron® 3955U Skylake ULT processor, 2 HDMI, 2 GbE LAN, 4 USB 3.0, 2 COM and PCI Express Mini Card (w/o adapter & power cord)
eBOX560-500-FL-DC-6600U	Fanless embedded system with 6th generation Intel® Core™ i7-6600U Skylake ULT processor, 2 HDMI, 2 GbE LAN, 4 USB 3.0, 2 COM and PCI Express Mini Card (w/o adapter & power cord)
eBOX560-500-FL-DC-6300U	Fanless embedded system with 6th generation Intel® Core™ i5-6300U Skylake ULT processor, 2 HDMI, 2 GbE LAN, 4 USB 3.0, 2 COM and PCI Express Mini Card (w/o adapter & power cord)
eBOX560-500-FL-DC-6100U	Fanless embedded system with 6th generation Intel® Core™ i3-6100U Skylake ULT processor, 2 HDMI, 2 GbE LAN, 4 USB 3.0, 2 COM and PCI Express Mini Card (w/o adapter & power cord)

Optional	
2.5" SATA HDD	64GB or above
2.5" SATA SSD	100GB or above
DDR4 SO-DIMM	2GB to 16GB
826K5601050E	Wall mount kit
8816K560AA0E	VESA arm kit
8816K560BA0E	DIN-rail kit
8816K5603A0E	Wi-Fi module
50966124050E	12V 60W power adapter Power cord

* Specifications and certifications may vary based on different requirements.

Dimensions



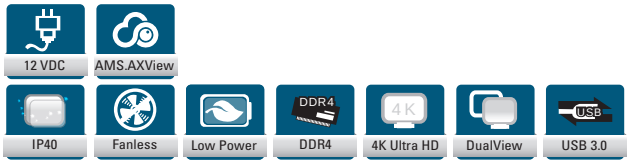
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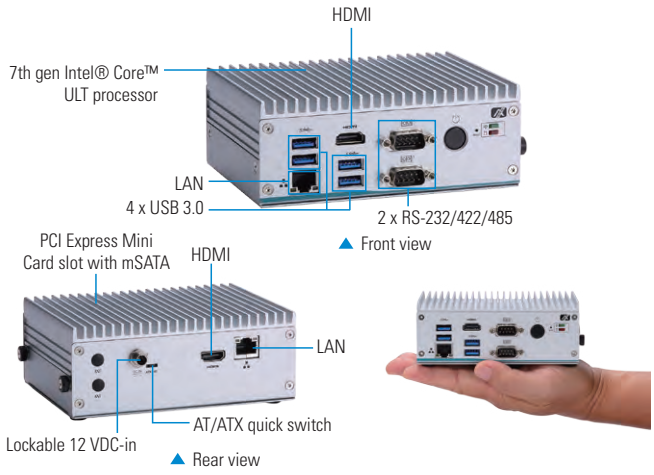
eBOX560-512-FL

Fanless Embedded System with Intel® Core™ i5-7300U/i3-7100U & Celeron® 3965U, 2 HDMI, 2 GbE LAN, 4 USB 3.0 and PCI Express Mini Card Slot

Features

- Intel® Core™ i5-7300U 2.6 GHz/i3-7100U 2.4 GHz & Celeron® 3965U 2.2 GHz
- Supports 2 COM, 2 GbE LAN and 4 USB 3.0
- One swappable 2.5" HDD drive bay
- 2 HDMI with dual-view supported
- AMS.AXView intelligent remote monitoring software for IIoT
- Ultra-compact enclosure design
- Trusted Platform Module 1.2 (TPM 1.2)





Specifications

Standard Color	Silver
Construction	Aluminum extrusion and heavy-duty steel, IP40
CPU	Intel® Core™ i5-7300U 2.6 GHz/i3-7100U 2.4 GHz & Celeron® 3965U 2.2 GHz
System Memory	1 x 260-pin DDR4-2133 SO-DIMM, up to 16GB
Chipset	SoC integrated
BIOS	AMI UEFI BIOS
System I/O Outlet	2 x RS-232/422/485 2 x HDMI 2 x 10/100/1000 Mbps Ethernet (Intel® i210-AT, i219-LM) 4 x USB 3.0 2 x SMA-type antenna connector 1 x AT/ATX quick switch 1 x ATX power switch 1 x Reset button 1 x Screw type VDC power input connector
Watchdog Timer	255 levels, 1 to 255 sec.
Storage	1 x 2.5" SATA HDD drive bay (max. up 9.5 mm height) 1 x mSATA (enabled in BIOS setting)
Expansion Interface	1 x Full-size PCI Express Mini Card slot (USB + PCIe signal)
TPM	TPM 1.2
System Indicator	1 x Green LED for system power-on 1 x Yellow LED for HDD active
Power Input	12 VDC
Operating Temperature	-10°C to +50°C (+14°F to +122°F) (with W.T. DRAM/SSD)
Humidity	10% - 90%, non-condensing
Vibration Endurance	3 Grms with SSD (5 to 500 Hz, X, Y, Z directions)
Dimensions	141.6 mm (5.57") (W) x 106 mm (4.17") (D) x 54.85 mm (2.15") (H)
Weight (net/gross)	0.8 kg (1.76 lb)/1.67 kg (3.68 lb)
Certifications	CE, FCC Class A
EOS Support	Win 10 IoT, Linux
Software Support	AMS.AXView

* W.T.: Wide Temperature. All W.T. supported products have to be sorted by Axiomtek.

Packing List

1 x Quick maunal
1 x Driver CD
1 x Screws pack
4 x Pre-installed foot pad

Power Protection

AC Version
OVP (over voltage protection)
OCP (over current protection)
SCP (short circuit protection)

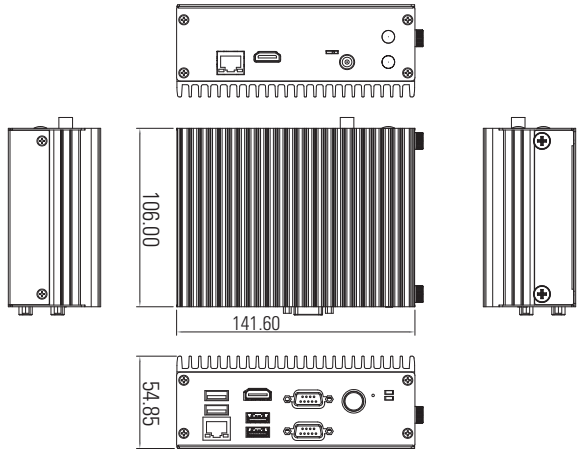
Ordering Information

Standard	
eBOX560-512-FL-DC-3965U	Fanless embedded system with Intel® Core™ i5-7300U 2.6 GHz, 2 HDMI, 2 GbE LAN, 4 USB 3.0 and PCI Express Mini Card slot
eBOX560-512-FL-DC-7300U	Fanless embedded system with Intel® Celeron® 3965U 2.2 GHz, 2 HDMI, 2 GbE LAN, 4 USB 3.0 and PCI Express Mini Card slot
eBOX560-512-FL-DC-7100U	Fanless embedded system with Intel® Core™ i3-7100U 2.4 GHz, 2 HDMI, 2 GbE LAN, 4 USB 3.0 and PCI Express Mini Card slot

Optional	
2.5" SATA HDD	64GB or above
2.5" SATA SSD	100GB or above
DDR4 SO-DIMM	2GB to 16GB
826K5601050E	Wall mount kit
8816K560AA0E	VESA arm kit
8816K560BA0E	DIN-rail kit
8816K5603A0E	Wi-Fi module
	Power cord

* Specifications and certifications may vary based on different requirements.

Dimensions



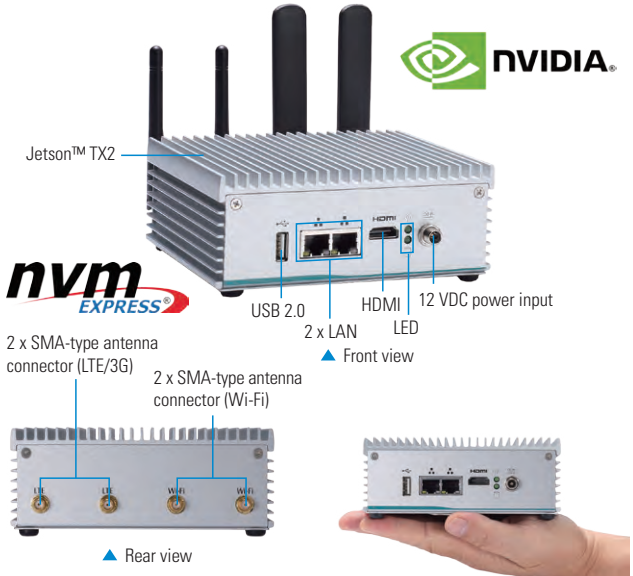
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eBOX560-900-FL

Fanless Edge System with NVIDIA® Jetson™ TX2, HDMI 2.0, 2 GbE LAN, and USB 2.0

Features

- NVIDIA® Jetson™ TX2 with Pascal™, 256 CUDA cores GPU
- High AI computing performance for GPU-accelerated processing
- Ideal for intelligent edge applications
- Supports M2. NVMe SSD
- JetPack support
- Ultra-compact enclosure design



NVIDIA TX2 available through to 2022*
The official end of life notice will be sent for at least 8 months before the last shipment.

IP40 | Fanless | Low Power | DDR4 | 4K Ultra HD | 12VDC | JETSON TX2

Specifications

Standard Color	Silver
Construction	Aluminum extrusion and heavy-duty steel, IP40
CPU Board	NVIDIA® Jetson™ TX2
CPU	HMP Dual Denver 2/2 MB L2 + Quad ARM® A57/2 MB L2
GPU	NVIDIA® Pascal™, 256 CUDA cores
System Memory	1 x 8GB 128-bit LPDDR4@1866 MHz onboard
Carried Board	SBC87900
System I/O Outlet	1 x HDMI 2.0 with 4K2K supported 2 x 10/100/1000 Mbps Ethernet (NVIDIA® + Intel® i210-IT) 1 x USB 2.0 1 x 12 VDC power input connector 4 x SMA-type antenna connector
Watchdog Timer	Built-in Jetson™ TX2
Storage	Onboard 32GB eMMC (via Jetson™ TX2) 1 x M.2 Key M 2280 with PCIe x4 Gen2 for NVMe SSD (optional)
Wireless Module	802.11ac WLAN, Bluetooth onboard with N Jack type antennas
Expansion Interface	1 x Full-size PCI Express Mini Card slot (USB + PCIe signal) *Either Mini PCIe connector or LAN Intel® i210-IT (Jumper Select) 1 x SIM slot
TPM	N/A
System Indicator	1 x Green LED for system power-on 1 x Green LED for storage
Power Supply	12 VDC screw type
Operating Temperature	-30°C to +60°C (-22°F to +140°F)
Humidity	10% - 95%, non-condensing
Vibration Endurance	3 Grms with M.2 (5 to 500Hz, X, Y, Z directions)
Dimensions	141.6 mm (5.57") (W) x 106 mm (4.17") (D) x 55 mm (2.17") (H)
Weight (net/gross)	0.8 kg (1.76 lb)/1.5 kg (3.31 lb)
Certifications	CE, FCC Class A
OS Support	Linux Ubuntu 18.04

Packing List

1 x Quick manual
1 x Screws pack
2 x Wi-Fi antenna

Power Protection

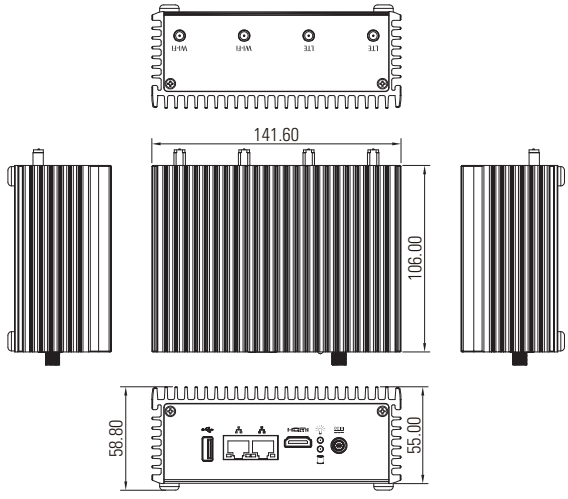
AC Version
OVP (over voltage protection)
OCP (over current protection)
SCP (short circuit protection)
UVP (under voltage protection)

Ordering Information

Standard	
eBOX560-900-FL-DC	Fanless embedded system with NVIDIA® Jetson™ TX2, HDMI 2.0, 2 GbE LAN, USB 2.0 w/STD Jetpack 3.2 image & Wi-Fi antenna (w/o adapter & power cord)
Optional	
826K5601050E	Wall mount kit
8816K560AA0E	VESA arm kit
8816K560BA0E	DIN-rail kit kit
M.2 NVMe	64GB or above
	LTE module
50966124050E	12V 60W power adapter
	Power cord

* Specifications and certifications may vary based on different requirements.

Dimensions



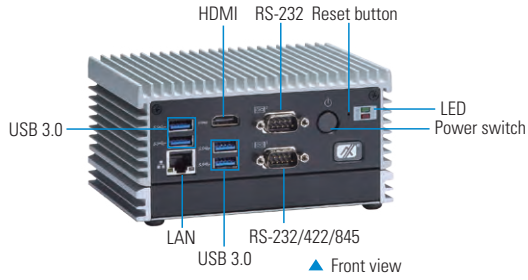
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eBOX565-500-FL

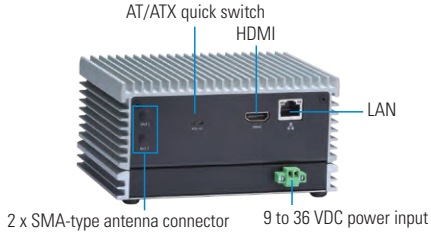
Fanless Embedded System with Intel® Core™ i5-6300U/i3-6100U & Celeron® 3955U, 2 HDMI, 2 GbE LAN, 4 USB 3.0, 2 COM and 9 to 36 VDC

Features

- Intel® Core™ i5-6300U 2.4 GHz/i3-6100U 2.3 GHz & Celeron® 3955U 2.0 GHz (Skylake ULT SoC)
- 260-pin DDR4-2133 SO-DIMM for up to 16GB of memory
- 9 to 36 VDC wide range input
- Supports 2 HDMI, 2 COM and 4 USB 3.0
- Supports Jumbo Frame (9.5K), WoL, PXE and Teaming
- Ultra-compact enclosure design



▲ Front view



▲ Rear view



Specifications

Standard Color	Silver-black
Construction	Aluminum extrusion and heavy-duty steel, IP40
CPU	Intel® Core™ i5-6300U 2.4 GHz/i3-6100U 2.3 GHz & Celeron® 3955U 2.0 GHz (Skylake ULT SoC)
System Memory	1 x 260-pin DDR4-2133 SO-DIMM, up to 16GB
Chipset	SoC integrated
BIOS	AMI
System I/O Outlet	1 x RS-232/422/485 1 x RS-232 2 x HDMI 2 x 10/100/1000 Mbps Ethernet (Intel® i210-AT, i219-LM) 4 x USB 3.0 2 x SMA-type antenna connector 1 x AT/ATX quick switch 1 x ATX power switch 1 x Reset button 1 x Phoenix type VDC power input connector
Watchdog Timer	255 levels, 1 to 255 sec.
Storage	1 x 2.5" SATA HDD drive bay (max. up 9.5 mm height) 1 x mSATA (enabled in BIOS setting)
Expansion Interface	1 x Full-size PCI Express Mini Card slot (USB + PCIe signal)
TPM	N/A
System Indicator	1 x Green LED for system power-on 1 x Orange LED for HDD active
Power Input	9 to 36 VDC
Operating Temperature	-10°C to +50°C (+14°F to +122°F) (with W.T. SSD)
Humidity	10% - 95%, non-condensing
Vibration Endurance	3 Grms with SSD™ (5 to 500Hz, X, Y, Z directions)
Dimensions	141.6 mm (5.57") (W) x 106 (4.17") mm (D) x 73 mm (2.87") (H)
Weight (net/gross)	1.074 kg (1.76lb)/1.67 kg (3.68lb)
Certifications	CE
EOS Support	Win 10 IoT, WE8S, Linux

* W.T.: Wide Temperature. All W.T. supported products have to be sorted by Axiomtek.

Packing List

DC Version

1 x Quick manual
1 x Driver CD
1 x Screws pack
4 x Pre-installed foot pad
1 x 2-pin terminal block connector

Power Protection

OVP (over voltage protection)
OCP (over current protection)
SCP (short circuit protection)
Reverse protection

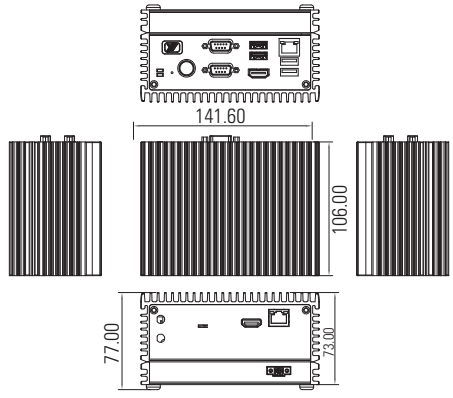
Ordering Information

Standard	
eBOX565-500-FL-DC-6300U	Fanless embedded system with Intel® Core™ i5-6300U, 2 HDMI, 2 GbE LAN, 4 USB 3.0, 2 COM, PCI Express Mini Card slot and 9 to 36 VDC
eBOX565-500-FL-DC-6100U	Fanless embedded system with Intel® Core™ i3-6100U, 2 HDMI, 2 GbE LAN, 4 USB 3.0, 2 COM, PCI Express Mini Card slot and 9 to 36 VDC
eBOX565-500-FL-DC-3955U	Fanless embedded system with Intel® Celeron® 3955U, 2 HDMI, 2 GbE LAN, 4 USB 3.0, 2 COM, PCI Express Mini Card slot and 9 to 36 VDC

Optional	
2.5" SATA HDD	64GB or above
2.5" SATA SSD	100GB or above
DDR4 SO-DIMM	2GB to 16GB
826K5601050E	Wall mount kit
8816K560AA0E	VESA arm kit
8816K560BA0E	DIN-rail kit
50906D24000E	24V 120W power adapter
8816K5603A0E	Wi-Fi module

* Specifications and certifications may vary based on different requirements.

Dimensions



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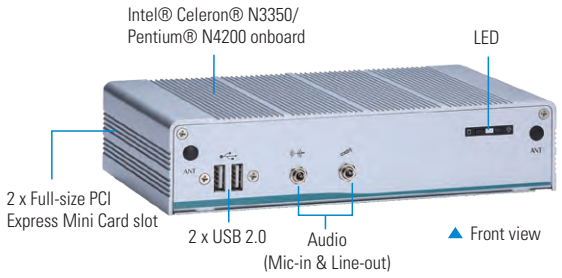
eBOX625-312-FL

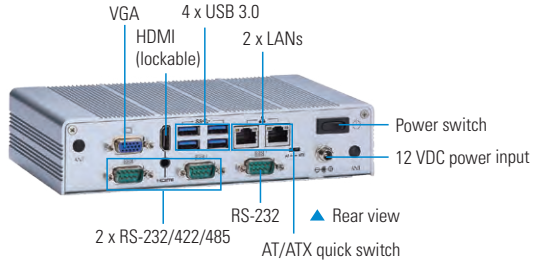
Fanless Embedded System with Intel® Celeron® N3350 2.4 GHz/ Pentium® N4200 2.5 GHz, HDMI, VGA, 2 GbE LAN, 6 USB and 3 COM

Features

- Intel® Celeron® N3350/Pentium® N4200 onboard
- 204-pin DDR3L-1866 SO-DIMM for up to 8GB of memory
- Supports 2 GbE LAN, 3 COM and 6 USB
- One 2.5" SATA drive bay and mSATA supported
- Trusted Platform Module (TPM) 1.2
- 2 PCI Express Mini Card slots and 1 SIM slot
- -20°C to +65°C operating temperature range
- AMS.AXView intelligent remote monitoring software for IIoT

IP40 | Fanless | Low Power | DDR3L | AiRD | 12 VDC | AMS.AXView





Specifications

Standard Color	Silver	
Construction	Aluminum extrusion and heavy-duty steel, IP40	
CPU	Intel® Celeron® Processor N3350 2.4 GHz Intel® Pentium® Processor N4200, 2.5 GHz	
System Memory	1 x 204-pin DDR3L-1866 SO-DIMM, up to 8GB	
Chipset	SoC integrated	
BIOS	AMI	
System I/O Outlet	2 x RS-232/422/485 1 x RS-232 1 x HDMI (lockable) 1 x VGA 1 x Audio (Mic-in/Line-out) 2 x 10/100/1000 Mbps Ethernet (Intel® i211-AT) 4 x USB 3.0 2 x USB 2.0 4 x SMA-type antenna connector 1 x Screw type VDC power input connector 1 x AT/ATX switch 1 x ATX power switch	
Watchdog Timer	65536 levels, 1 to 65535 sec.	
Storage	1 x 2.5" SATA HDD drive bay (max. up 9.5 mm height) 1 x mSATA (enabled in BIOS setting)	
Expansion Interface	2 x Full-size PCI Express Mini Card slot (USB + PCIe signal) 1 x SIM slot	
TPM	TPM 1.2	
System Indicator	1 x Green LED for system power-on 1 x Yellow LED for HDD/SSD active	
Power Supply	Input AC 90 to 264V, AC 60W adapter with lock Output: 12 VDC, 5A	
Operating Temperature	Turbo Mode	-20°C to +60°C (-4°F to +140°F) (with W.T. SSD/DRAM for 9 to 36 VDC) (default)
	Non-turbo Mode	-20°C to +65°C (-4°F to +149°F) (with W.T. SSD/DRAM for 12 or 24 VDC)
Humidity	10% - 95%, non-condensing	
Shock Vibration	IEC 60068-2-27 (with SSD: 50G, half sine, 11 ms duration)	
Vibration Endurance	IEC 60068-2-64 (with SSD: 3Grms STD, random, 5 to 500 Hz, 1 hr/axis)	
Dimensions	200 mm (7.87") (W) x 120 mm (4.72") (D) x 46 mm (1.81") (H)	
Weight (net/gross)	1.1 kg (2.43 lb)/1.8 kg (3.97 lb)	
Certifications	CE, FCC Class A	
EOS Support	Win10 IoT, Linux	
Software Support	AMS.AXView	

* W.T.: Wide Temperature. All W.T. supported products have to be sorted by Axiomtek.

Packing List

1 x Quick manual
1 x Screws pack
1 x DRAM thermal pad
1 x Driver CD
4 x Pre-installed foot pad

Power Protection

AC Version
OVP (over voltage protection)
UVP (under voltage protection)
SCP (short current protection)

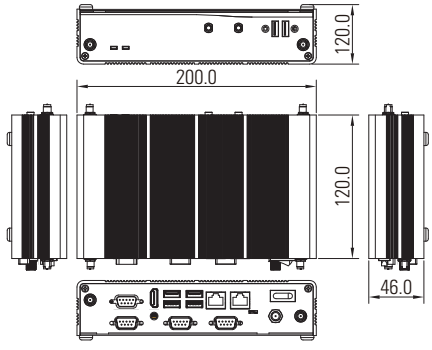
Ordering Information

Standard	
eBOX625-312-FL-DC-N3350	Fanless embedded system with Intel® Celeron® N3350 2.4 GHz, HDMI, VGA, 2 GbE LANs, 6 USB and 3 COM (w/o 12V/60W adapter and power cord)
eBOX625-312-FL-DC-N4200	Fanless embedded system with Intel® Pentium® N4200 2.5 GHz, HDMI, VGA, 2 GbE LANs, 6 USB and 3 COM (w/o 12V/60W adapter and power cord)

Optional	
2.5" SATA HDD	64GB or above
2.5" SATA SSD	100GB or above
DDR3L SO-DIMM	2GB to 8GB
mSATA	64MB or above
8816K6271A0E	Wall mount Kit
8816K6272A0E	VESA mount kit
8816K6273A0E	DIN-rail kit
881606208A0E	Wi-Fi module 3G/LTE module
50966124050E	12V/60W power adapter

* Specifications and certifications may vary based on different requirements.

Dimensions



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eBOX625-853-FL

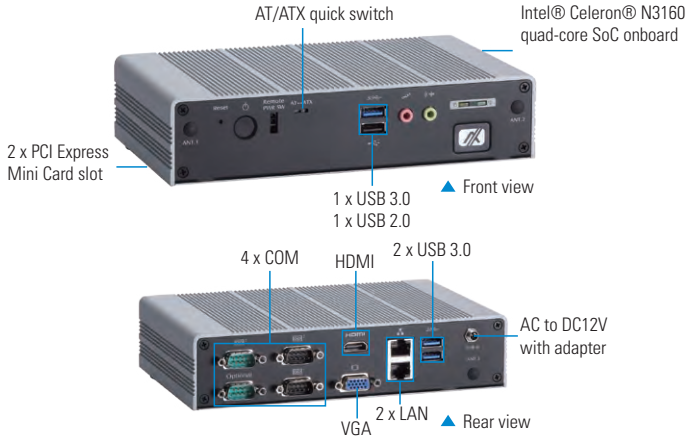
Fanless Embedded System with Intel® Celeron® Processor N3160, VGA, HDMI, 4 COM, 2 GbE LAN, 4 USB, and 2 PCI Express Mini Card Slots

Features

- Intel® Celeron® Processor N3160 2.24 GHz (Braswell)
- HDMI and VGA with dual view supported
- Supports 4 COM and 4 USB
- 2 GbE LAN support WoL, Teaming and PXE
- 2 PCI Express Mini Card slots for WLAN/WWAN/mSATA modules
- -20°C to +60°C operating temperature range
- Intel® Virtualization Technology (Intel® VT-x)

Microsoft Azure Certified

IP40 | Fanless | Low Power | DDR3L | DualView | AiRD | EN60950



Specifications

Standard Color	Silver-black
Construction	Aluminum extrusion and heavy-duty steel, IP40
CPU	Intel® Celeron® processor N3160 2.24 GHz (2M Cache, up to 2.24 GHz)
System Memory	1 x 204-pin DDR3L-1333/1600 SO-DIMM, up to 8GB
Chipset	SoC integrated
BIOS	AMI
System I/O Outlet	2 x 10/100/1000 Mbps Ethernet (Intel® i211-AT) 1 x RS-232/422/485 3 x RS-232 3 x USB 3.0 1 x USB 2.0 1 x Audio (Mic-in/Line-out) 1 x HDMI (4K supported) 1 x VGA 1 x Screw type VDC power input connector 1 x ATX power switch 1 x Remote power switch 1 x Reset switch 1 x AT/ATX quick switch 3 x Antenna opening 8-CH programmable DIO (optional)
Watchdog Timer	255 levels, 1 to 255 sec.
Storage	1 x 2.5" HDD drive bay (max. up 15 mm height) 1 x mSATA (enabled in BIOS setting)
Expansion Interface	1 x Full-size PCI Express Mini Card slot (USB + PCIe signal) 1 x Full-size PCI Express Mini Card slot (USB + PCIe signal) 1 x SIM slot
TPM	N/A
System Indicator	1 x Green LED for system power-on 1 x Yellow LED for HDD active
Power Supply	Input: AC 90-264V, AC 36 W adapter with lock Output: DC 12V@3A
Operating Temperature	-20°C to +60°C (-4°F to +140°F) (with W.T. SSD/DRAM)
Humidity	10% - 95%, non-condensing
Vibration Endurance	3 Grms with SSD (5 to 500Hz, X, Y, Z directions)
Dimensions	200 mm (7.87") (W) x 120 mm (4.72") (D) x 46 mm (1.81") (H)
Weight (net/gross)	1.2 kg (2.65 lb)/1.9 kg (4.19 lb)
Certifications	CE
EOS Support	WES7, WE8S, Win 10 IoT, Linux

* W.T.: Wide Temperature. All W.T. supported products have to be sorted by Axiomtek.

Power Protection

AC Version

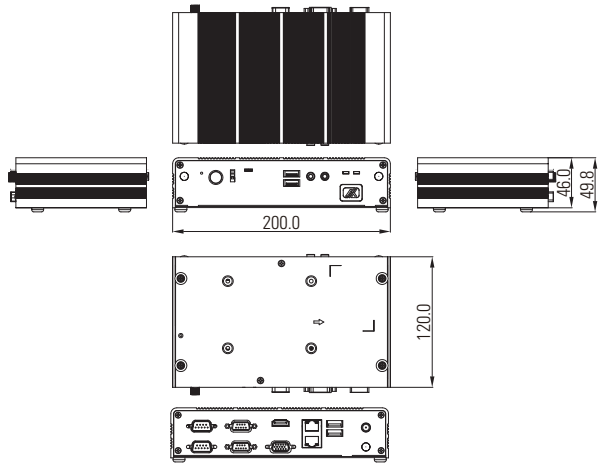
OVP (over voltage protection)
UVP (under voltage protection)
SCP (short current protection)

Ordering Information

Standard	
eBOX625-853-FL-DC-N3160	Fanless embedded system with Intel® Celeron® N3160, VGA, HDMI, 4 COM, 2 GbE LAN, 4 USB and 2 PCI Express Mini Card slots
Optional	
2.5" SATA HDD	64GB or above
2.5" SATA SSD	100GB or above
DDR3L SO-DIMM	2GB to 8GB
mSATA	64MB or above
8816K6271A0E	Wall mount kit
8816K6272A0E	VESA mount kit
8816K6273A0E	DIN-rail kit
8816K6603A0E	Wi-Fi module 3G/LTE module
50956A24030E	12V 36W power adapter Power cord

* Specifications and certifications may vary based on different requirements.

Dimensions



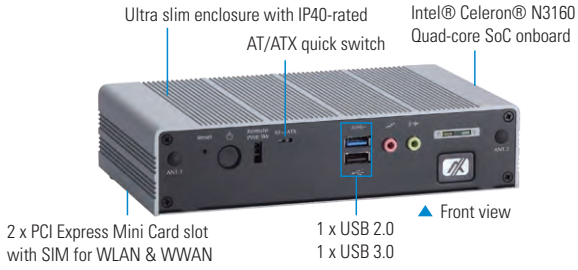
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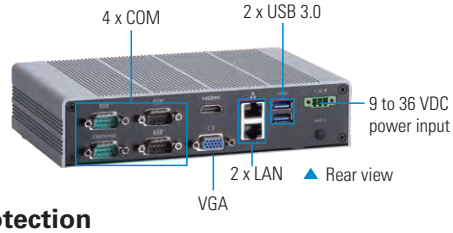
eBOX626-853-FL

Fanless Embedded System with Intel® Celeron® Processor N3160, VGA, HDMI, 4 COM, 2 GbE LAN, 4 USB, 2 PCI Express Mini Card Slots and 9 to 36 VDC

Features

- Intel® Celeron® processor N3160 2.24 GHz (Braswell)
- HDMI and VGA with dual independent displays
- Supports 4 COM and 4 USB
- 2 GbE LAN support WoL, Teaming and PXE
- 2 PCI Express Mini Card slots for WLAN/WWAN/mSATA modules
- 9 to 36 VDC wide range power input
- -20°C to +60°C operating temperature range





Microsoft Azure Certified | 9 - 36 VDC | IP40 | Fanless | Low Power | DDR3L | DualView | AiRD

Specifications

Standard Color	Silver-black
Construction	Aluminum extrusion and heavy-duty steel, IP40
CPU	Intel® Celeron® processor N3160 2.24 GHz (2M up to 2.24 GHz)
System Memory	1 x 204-pin DDR3L-1333/1600 SO-DIMM, up to 8GB
Chipset	SoC integrated
BIOS	AMI
System I/O Outlet	2 x 10/100/1000 Mbps Ethernet (Intel® i211-AT) 1 x RS-232/422/485 3 x RS-232 3 x USB 3.0 1 x USB 2.0 1 x Audio (Mic-in/Line-out) 1 x HDMI (4K supported) 1 x VGA 1 x Phoenix type VDC power input connector 1 x ATX power switch 1 x Remote power switch 1 x Reset switch 1 x AT/ATX quick switch 3 x Antenna opening 8-CH programmable DIO (optional)
Watchdog Timer	255 levels, 1 to 255 sec.
Storage	1 x 2.5" SATA HDD drive bay (max. up 15 mm height) 1 x mSATA (enabled in BIOS setting)
Expansion Interface	1 x Full-size PCI Express Mini Card slot (USB + PCIe signal) 1 x Full-size PCI Express Mini Card slot (USB + PCIe signal) 1 x SIM slot
TPM	N/A
System Indicator	1 x Green LED for system power-on 1 x Yellow LED for HDD active
Power Input	42.5 W, 9 to 36 VDC
Operating Temperature	Standard: -20°C to +60°C (-4°F to +140°F) Boost mode: -20°C to +55°C (-4°F to +131°F) (with W.T. SSD/DRAM)
Humidity	10% - 95%, non-condensing
Vibration Endurance	3 Grms with SSD (5 to 500Hz, X, Y, Z directions)
Dimensions	200 mm (7.87") (W) x 120 mm (4.72") (D) x 46 mm (1.81") (H)
Weight (net/gross)	1.2 kg (2.65 lb)/1.9 kg (4.19 lb)
Certifications	CE
EOS Support	WES7, WE8S, Linux

* W.T.: Wide Temperature. All W.T. supported products have to be sorted by Axiomtek.

Power Protection

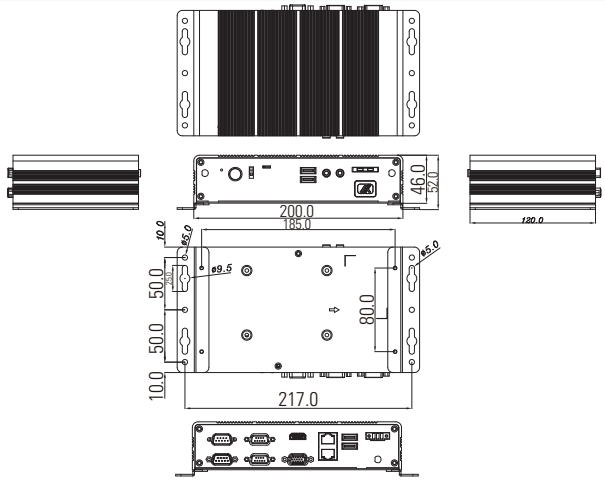
DC Version
OVP (over voltage protection)
UVP (under voltage protection)
OCP (over current protection)
Reverse protection

Ordering Information

Standard	
eBOX626-853-FL-N3160-DC	Fanless embedded system with Intel® Celeron® N3160, VGA, HDMI, 4 COM, 2 GbE LAN, 4 USB, 2 PCI Express Mini Card slots and 9 to 36 VDC
eBOX626-853-FL-N3160-DC-DIO	Fanless embedded system with Intel® Celeron® N3160, VGA, HDMI, 3 COM, 1 DIO, 2 GbE LAN, 4 USB, 2 PCI Express Mini Card slots and 9 to 36 VDC
Optional	
2.5" SATA HDD	64GB or above
2.5" SATA SSD	100GB or above
DDR3L SO-DIMM	2GB to 8GB
mSATA	64MB or above
8816K6271A0E	Wall mount kit
8816K6272A0E	VESA mount kit
8816K6273A0E	DIN-rail kit
8816K6603A0E	Wi-Fi module
	3G/LTE module

* Specifications and certifications may vary based on different requirements.

Dimensions



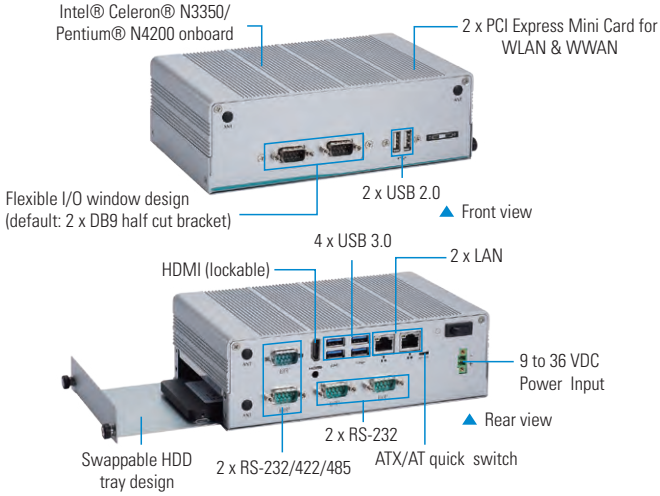
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eBOX627-312-FL

Fanless Embedded System with Intel® Celeron® N3350 2.4 GHz/Pentium® N4200 2.5 GHz, HDMI, 2 GbE LAN, 6 USB, 4 COM and 9 to 36 VDC

Features

- Intel® Celeron® N3350/Pentium® N4200 onboard
- 204-pin DDR3L-1866 SO-DIMM for up to 8GB of memory
- Support HDMI, 2 GbE LAN, 4 COM and 6 USB
- Flexible I/O Window supported
- Trusted Platform Module 1.2 (TPM 1.2)
- -20°C to +70°C operating temperature range
- 9 to 36 VDC wide range DC input
- AMS.AXView 2.0 intelligent remote monitoring software for IIoT



IP40 | Fanless | Low Power | DDR3L | AiRD | 9 - 36 VDC | AMS.AXView

Specifications

Standard Color	Silver	
Construction	Aluminum extrusion and heavy-duty steel, IP40	
CPU	IntelR CeleronR Processor N3350 2.4 GHz Intel® Pentium® Processor N4200, 2.5 GHz	
System Memory	1 x 204-pin DDR3L-1866 SO-DIMM, up to 8GB	
Chipset	SoC integrated	
BIOS	AMI	
System I/O Outlet	2 x RS-232/422/485 2 x RS-232 1 x HDMI (lockable) 2 x 10/100/1000 Mbps Ethernet (Intel® i211-AT) 2 x USB 2.0 4 x USB 3.0 4 x SMA-type antenna connector 1 x Phoenix type VDC power input connector 1 x AT/ATX switch 1 x ATX power switch 1 x Flexible I/O Window (default : 2 x DB9 half cut bracket)	
Watchdog Timer	65536 levels, 1 to 65535 sec.	
Storage	1 x 2.5" HDD/SSD bay (max. up 9.5 mm height) 1 x mSATA (enabled in BIOS setting)	
Expansion Interface	2 x Full-size PCI Express Mini Card slot (USB + PCIe signal) 1 x SIM slot	
TPM	TPM 1.2	
System Indicator	1 x Green LED for system power-on 1 x Yellow LED for HDD/SSD active	
Power Input	9 to 36 VDC	
Operating Temperature	Turbo Mode	-20°C to +65°C (-4°F to +149°F) (with W.T. SSD/DRAM for 9 to 36 VDC) (default)
	Non-turbo Mode	-20°C to +70°C (-4°F to +158°F) (with W.T. SSD/DRAM for 12 or 24 VDC)
Humidity	10% - 95%, non-condensing	
Shock	IEC 60068-2-27 (with SSD: 50G, half sine, 11 ms duration)	
Dimensions	200 mm (7.87") (W) x 120 mm (4.72") (D) x 65 mm (2.55") (H)	
Weight (net/gross)	1.38 kg (3.04 lb)/2.08 kg (4.59 lb)	
Certifications	CE, FCC Class A	
EOS support	Win 10 IoT, Linux	
Software Support	AMS.AXView	

* W.T.: Wide Temperature. All W.T. supported products have to be sorted by Axiomtek.

Packing List

1 x Quick manual
1 x Driver CD
1 x Screws pack
1 x DRAM thermal pad
4 x Pre-installed foot pad
1 x 2-pin terminal block connector

Power Protection

AC Version
OVP (over voltage protection)
UVP (under voltage protection)
SCP (short current protection)

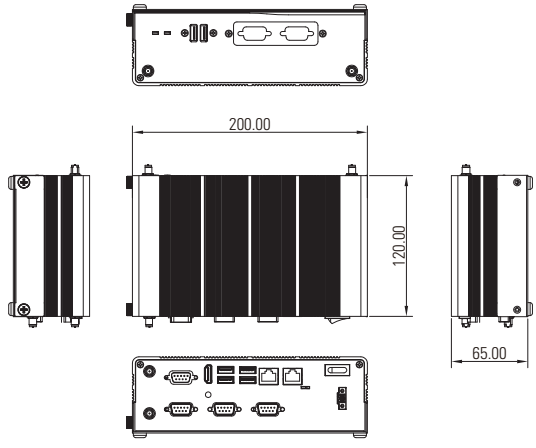
Ordering Information

Standard	
eBOX627-312-FL-DC-N3350	Fanless embedded system with Intel® Celeron® N3350 2.4 GHz, 1 HDMI, 2 GbE LAN, 6 USB, 4 COM and 9 to 36 VDC
eBOX627-312-FL-DC-N4200	Fanless embedded system with Intel® Celeron® N4200 2.5 GHz, 1 HDMI, 2 GbE LAN, 6 USB, 4 COM and 9 to 36 VDC

Optional	
2.5" SATA HDD	64GB or above
2.5" SATA SSD	100GB or above
DDR3L SO-DIMM	2GB to 8GB
mSATA	64GB or above
8816K6271A0E	Wall mount Kit
8816K6272A0E	VESA mount kit
8816K6273A0E	DIN-rail kit
50906D24000E	24V 120W adapter
881606209A0E	Wi-Fi module 3G/LTE module
E392903102	AX92903 CANbus PCI Express Mini module
E392903103	AX92903 CAN module with CANOpen
E392902103	AX92902 LAN PCI Express Mini module
E392906101	AX92906 COM PCI Express Mini module
E392904102	AX92904 DIO PCI Express Mini module

* Specifications and certifications may vary based on different requirements.

Dimensions



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eBOX630-528-FL NEW

Fanless Embedded System with Intel® Core™ i7/i5/i3 & Celeron® ULT Processor, 2 HDMI, 1 VGA, 3 GbE LAN, 6 USB, Dual PCI Express Mini Card Slots and 9 to 36 VDC

Features

- Intel® Core™ i7/i5/i3 & Celeron® ULT processor
- 240-pin DDR4-2400 SO-DIMM for up to 32GB of memory
- Supports HDMI, VGA, 3 GbE LAN, 2 COM and 6 USB
- Trusted Platform Module 2.0 (TPM 2.0)
- -40°C to +70°C wide operating temperature
- 9 to 36 VDC wide range DC input
- AMS.AXView 3.0 intelligent remote monitoring software supported





Specifications

Standard Color	Silver
Construction	Aluminum extrusion and heavy-duty steel, IP40
CPU	Intel® Core™ i3-8145UE/i5-8365UE /i7-8665UE & Celeron® 4305UE (CPU TDP up to 15W)
System Memory	1 x 240-pin DDR4-2400 SO-DIMM, up to 32GB
Chipset	SoC integrated
BIOS	AMI
System I/O Outlet	2 x RS-232/422/485 2 x RS-232 2 x HDMI (lockable) 1 x VGA 2 x 10/100/100 Mbps Ethernet 1 x 2.5G Ethernet 2 x USB 3.1 Gen2 2 x USB 3.1 Gen1 2 x USB 2.0 1 x Phoenix type VDC power input connector 1 x Audio (Mic-in/Line-out) 1 x AT/ATX switch 1 x ATX power switch 1 x Remote power switch 1 x Front-access SIM slot 4 x SMA-type antenna opening
Watchdog Timer	65536 levels, 1 to 65535 sec.
Storage	2 x 2.5" hot swappable HDD drive bay (max. up 9.5 mm height) 1 x mSATA (enabled in BIOS setting)
Expansion Interface	2 x Full-size PCI Express Mini Card (USB + PCIe + SATA) 1 x SIM slot
TPM	TPM 2.0
System Indicator	1 x Green LED for system power-on 1 x Yellow LED for HDD/SSD active
Power Input	9 to 36 VDC
Operating Temperature	-40°C to +70°C (-40°F to 158°F) (with W.T. SSD/DRAM)
Humidity	10% - 95%, non-condensing
Shock Vibration	IEC 60068-2-27 (with SSD: 50G, half sine, 11 ms duration)
Vibration Endurance	IEC 60068-2-64 (with SSD: 3Grms STD, random, 5 to 500 Hz, 1 hr/axis)
Dimensions	260 mm (9.84") (W) x 170 mm (6.69") (D) x 60 mm (2.36") (H)
Weight (net/gross)	1.38 kg (3.04 lb)/2.08 kg (4.59 lb)
Certifications	CE, FCC Class A
EOS Support	Win 10 IoT, Linux
Software Support	AMS.AXView

* W.T.: Wide Temperature. All W.T. supported products have to be sorted by Axiomtek.

Packing List

1 x Screws pack
4 x Foot pad

Power Protection

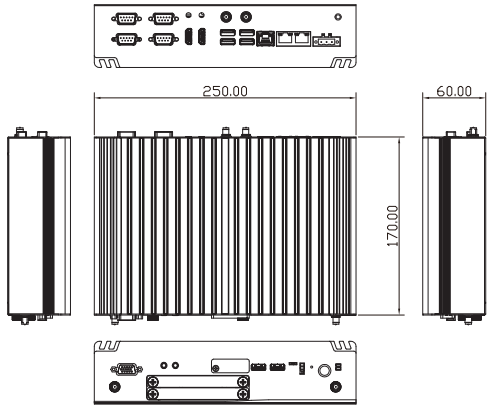
AC Version
OVP (over voltage protection)
UVP (under voltage protection)
SCP (short current protection)

Ordering Information

Standard	
eBOX630-528-FL-DC	Fanless embedded system with Intel® Core™ i7/i5/i3 & Celeron® ULT processor, 2 HDMI, 1 VGA, 3 GbE LAN, 6 USB and 9 to 36 VDC
Optional	
2.5" SATA HDD	64GB or above
2.5" SATA SSD	100GB or above
DDR4 SO-DIMM	4GB to 32GB
mSATA	64GB or above
	Wall mount kit
	VESA mount kit
	DIN-rail kit
50906D24000E	24V 120W power adapter
	Wi-Fi module
	3G/LTE module

* Specifications and certifications may vary based on different requirements.

Dimensions



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eBOX638-842-FL

Fanless Embedded System with Intel® Celeron® Processor J1900, VGA, HDMI, 4 COM, 6 USB, Dual Expansion Slots and 9 to 36 VDC Input

Features

- Intel® Celeron® Processor J1900 2.0 GHz
- Fanless operation design with full feature I/O
- HDMI and VGA with dual-view supported
- 6 USB, 2 LAN and 4 COM
- PCI Express Mini Card slot
- Flexible I/O window design
- Dual PCI or PCIe x1 expansion slots
- 9 to 36 VDC wide range power input





Specifications

Standard Color	Silver
Construction	Aluminum extrusion and heavy-duty steel, IP40
CPU	Intel® Celeron® Quad-Core J1900 2.0 GHz
System Memory	1 x 204-pin DDR3L-1066/1333 SO-DIMM, up to 8GB
Chipset	SoC integrated
BIOS	AMI
System I/O Outlet	2 x RS-232/422/485 2 x RS-232 2 x 10/100/1000Mbps Ethernet (Realtek 8111F) 5 x USB 2.0 1 x USB 3.0 1 x Audio (Mic-in/Line-out) 1 x PS/2 keyboard & mouse 1 x HDMI 1 x VGA 1 x VDC power input connector 1 x ATX power switch 1 x Reset switch 2 x SMA-type antenna connector 1 x Flexible I/O window (default: 2 x DB9 half cut bracket)
Watchdog Timer	255 levels, 1 to 255 sec.
Storage	1 x 2.5" SATA HDD drive bay (max. up 15 mm height) 1 x mSATA (enabled in BIOS setting)
Expansion Interface	2 x PCI or 2 x PCIe x1 slot 1 x Full-size PCI Express Mini Card slot (PCIe + USB signal) 1 x SIM slot
TPM	N/A
System Indicator	1 x Green LED for system power 1 x Yellow LED for HDD active
Power Input	9 to 36 VDC
Operating Temperature	-10°C to +55°C (14°F to +131 F) (with W.T. DRAM & SSD)
Humidity	10% - 90%, non-condensing
Vibration Endurance	2 Grms with SSD (5 to 500 Hz, X, Y, Z directions)
Dimensions	192mm (7.56") (W) x 230 mm (9.05") (D) x 115.8 mm (4.56") (H)
Weight (net/gross)	4.1 kg (9.03 lb) /4.8 kg (10.58 lb)
Certifications	CE compliance
EOS Support	WES7, Win 10 IoT

* W.T.: Wide Temperature. All W.T. supported products have to be sorted by Axiomtek.

Packing List

1 x Quick manual
1 x Driver CD
1 x Screw pack
1 x 2-pin terminal block connector
1 x PCI riser card or 1 x PCIe riser card

Power Protection

DC Version
OCP (over current protection)
OVP (over voltage protection)
SCP (short circuit protection)

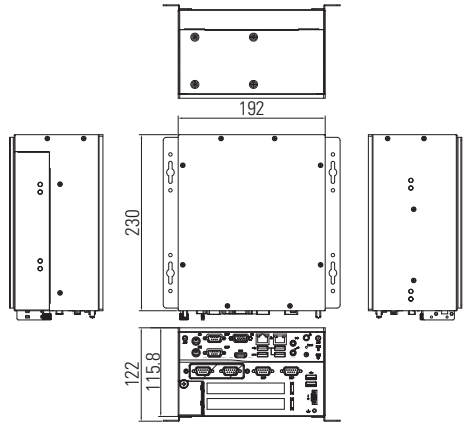
Ordering Information

Standard	
eBOX638-842-FL-2 PCI	Fanless embedded system with Intel® Celeron® processor J1900 2.0 GHz, VGA, HDMI, 4 COM, 6 USB, 2 PCI slots and 9 to 36 VDC input
eBOX638-842-FL-2 PCIe	Fanless embedded system with Intel® Celeron® processor J1900 2.0 GHz, VGA, HDMI, 4 COM, 6 USB, 2 PCIe x1 slots and 9 to 36 VDC input

Optional	
2.5" SATA HDD	64GB or above
2.5" SATA SSD	100GB or above
DDR3L SO-DIMM	2GB to 8GB
mSATA	64MB or above
8816K6601A0E	Wi-Fi module 3G/LTE module
881606390A0E	Wall mount Kit
E392903102	AX92903 CANbus PCI Express Mini module
E392903103	AX92903 CAN module with CANopen
E392902103	AX92902 LAN PCI Express Mini module
E392904102	AX92904 DIO PCI Express Mini module
59406382110E	RS-232 cable, P=2.54, L=300MM
50906D24000E	24V 120W power adapter

* Specifications and certifications may vary based on different requirements.

Dimensions



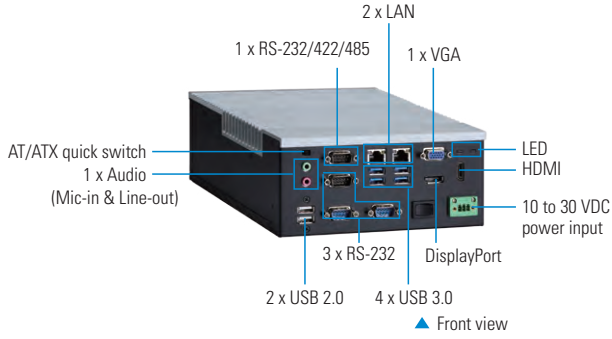
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eBOX640-500-FL

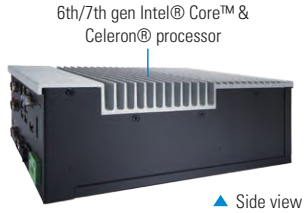
Fanless Embedded System with LGA1151 Socket 7th/6th Gen Intel® Core™ & Celeron® Processor, Intel® H110, HDMI, DisplayPort, VGA, 6 USB, 4 COM, PCI Express Mini Card Slot and 10 to 30 VDC

Features

- LGA1151 socket 7th/6th gen Intel® Core™ i7/i5/i3 & Celeron® processor (Kaby Lake/Skylake)
- Supports 4 COM, 6 USB and 2 GbE LAN
- Two 2.5" SATA drive bay
- PCI Express Mini Card slot and SIM slot
- Front I/O connectivity design
- 10 to 30 VDC wide range power input



▲ Front view



▲ Side view

IP40 | Fanless | DDR4 | DualView | USB 3.0 | 10 - 30 VDC

Specifications

Standard Color	Silver-black
Construction	Aluminum extrusion and heavy-duty steel, IP40
CPU	7th/6th gen Intel® Core™ i7/i5/i3 & Celeron® processor (CPU TDP max. up to 35W)
System Memory	2 x 288-pin DDR4-2133 DIMM, up to 32GB
Chipset	Intel® H110
BIOS	AMI
System I/O Outlet	1 x RS-232/422/485 3 x RS-232 2 x 10/100/1000Mbps Ethernet (Intel® i219-LM, i211-AT) 2 x USB 2.0 4 x USB 3.0 1 x Audio (Mic-in/Line-out) 1 x DisplayPort 1 x HDMI 1 x VGA 1 x Phoenix type VDC power input connector 1 x AT/ATX quick switch 2 x SMA-type antenna connector 1 x ATX power switch
Watchdog Timer	255 levels, 1 to 255 sec.
Storage	2 x 2.5" SATA HDD drive bay (max. up 15 mm height) 1 x mSATA (enabled in BIOS setting)
Expansion Interface	1x Full-size PCI Express Mini Card slot with mSATA supported (PCI Express + USB signal) 1 x SIM slot
TPM	N/A
System Indicator	1 x Green for system power 1 x Orange LED for HDD active
Power Input	10 to 30 VDC
Operating Temperature	-10°C to +55°C (+14°F to +131°F) (with W.T. DRAM/ SSD for Skylake) -10°C to +50°C (+14°F to +122°F) (with W.T. DRAM/ SSD for Kaby Lake)
Humidity	10% - 90%, non-condensing
Vibration Endurance	2 Grms with SSD (5 to 500 Hz, X, Y, Z directions)
Dimensions	182 mm (7.16") (W) x 235.7mm (9.27") (D) x 82 mm (3.23") (H)
Weight (net/gross)	3 kg (6.61 lb)/3.6 kg (7.94 lb)
Certifications	CE
EOS Support	Win 10 IoT, WE8S Linux

* W.T.: Wide Temperature. All W.T. supported products have to be sorted by Axiomtek.

Packing List

1 x Quick manual
1 x Driver CD
1 x Screw pack
4 x Pre-installed foot pad
1 x 3-pin terminal block connector

Power Protection

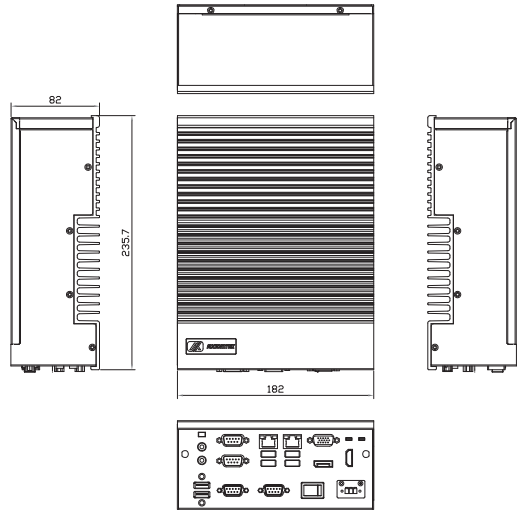
DC Version
OCP (over current protection)
UVP (under voltage protection)

Ordering Information

Standard	
eBOX640-500-FL-DC	Fanless embedded system with LGA1151 7th/6th gen Intel® Core™ i7/i5/i3 & Celeron® processor, Intel® H110, HDMI/DisplayPort/ VGA, 4 USB 3.0, 4 COM, PCI Express Mini Card slot and 10 to 30 VDC
Optional	
2.5" SATA HDD	64GB or above
2.5" SATA SSD	100GB or above
DDR4 RAM	2GB to 16GB
mSATA	64MB or above
8816K6400A0E	Wall mount kit
8816K6401A0E	DIN-rail kit
	Wi-Fi module
	3G/LTE module
50906D24000E	24V 120W power adapter

* Specifications and certifications may vary based on different requirements.

Dimensions



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eBOX640-521-FL NEW

Fanless Embedded System with LGA1151 Socket 8th Gen Intel® Core™ & Celeron® Processor, Intel® H310, HDMI, DisplayPort, 6 USB, 2 COM and 8-CH DI/DO

Features

- LGA1151 socket 8th gen Intel® Core™ i7/i5/i3 & Celeron® processor (Coffee Lake)
- Supports 2 COM, 6 USB and 8-CH DI/DO
- Two 2.5" SATA drive bay
- M.2 slot for storage & Wi-Fi
- Front I/O connectivity design
- 12, 19 to 24 VDC power input via DC-Jack





Specifications

Standard Color	Silver
Construction	Aluminum extrusion and heavy-duty steel, IP40
CPU	LGA1151 socket 8th gen Intel® Core™ i7/i5/i3 & Celeron® processor (CPU TDP max. up to 35W)
System Memory	2 x 260-pin DDR4-2400 SO-DIMM, up to 32GB
Chipset	Intel® H310
BIOS	AMI
System I/O Outlet	1 x RS-232/422/485 1 x RS-232 2 x 10/100/1000Mbps Ethernet (Intel® i219V-LM, i211-AT) 2 x USB 3.0 4 x USB 2.0 1 x Audio (Line-out) 1 x DisplayPort 1 x HDMI 1 x DC-jack power input 1 x 8-CH DIO (4-in/4-out) 4 x SMA-type antenna connector 1 x Flexible I/O window
Watchdog Timer	255 levels, 1 to 255 sec.
Storage	2 x 2.5" SATA HDD drive bay (max. up 9.5 mm height) 1 x M.2 Key M 2280 (for storage)
Expansion Interface	1 x Full-size PCI-Express Mini Card slot (PCIe + SATA + USB) 1 x M.2 Key E 2230 (for Wi-Fi)
TPM	TPM 2.0
System Indicator	1 x Green for system power 1 x Orange LED for HDD active
Power Input	12, 19 to 24 VDC, 9.02-5.2A
Operating Temperature	-10°C to +50°C (14°F to 122°F) (with W.T. SSD/DRAM)
Humidity	10% - 90%, non-condensing
Vibration Endurance	IEC 60068-2-64 (w/SSD: 3Grms STD, random, 5 - 500 Hz, 1 hr/axis)
Shock Vibration	IEC 60068-2-27 (w/SSD: 50G@wall mount,half sine, 11 ms duration)
Dimensions	182 mm (7.16") (W) x 200 mm (7.87") (D) x 82 mm (3.23") (H)
Weight (net/gross)	3 kg (6.61 lb)/3.6 kg (7.94 lb)
Certifications	CE, FCC Class A
EOS Support	Win 10 IoT, Linux

* W.T.: Wide Temperature. All W.T. supported products have to be sorted by Axiomtek.

Packing List

1 x Screw pack
4 x Foot pad

Power Protection

DC Version
SCP (short circuit protection)
OVP (over voltage protection)

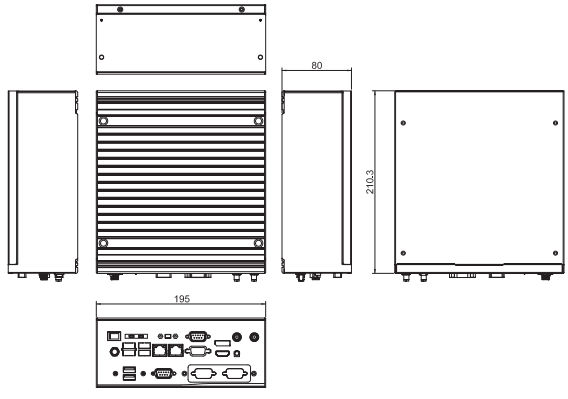
Ordering Information

Standard	
eBOX640-521-FL-DC	Fanless embedded system with LGA1151 8th gen Intel® Core™ i7/i5/i3 & Celeron® processor, Intel® H310, HDMI/DisplayPort, 6 USB, 2 COM, M.2 slot and 19 VDC

Optional	
2.5" SATA HDD	64GB or above
2.5" SATA SSD	100GB or above
DDR4 SO-DIMM	4GB to 32GB
	Wall mount kit
	DIN-rail kit
	Wi-Fi module
	3G/LTE module
	19V 120W power adapter

* Specifications and certifications may vary based on different requirements.

Dimensions



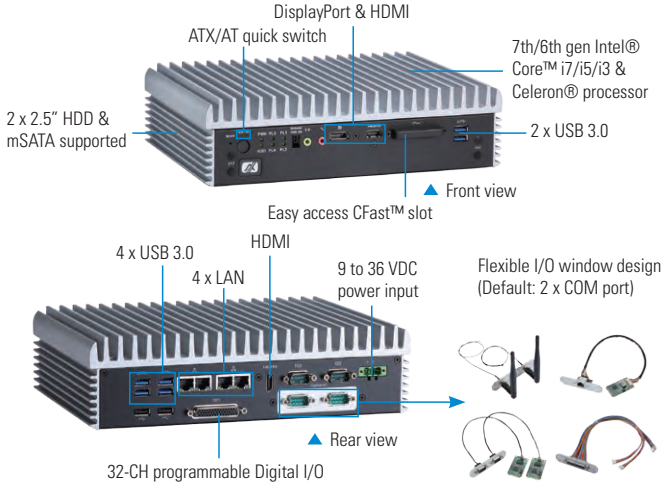
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eBOX670-891-FL

Fanless Embedded System with LGA1151 Socket 7th/6th Gen Intel® Core™ & Celeron® Processor, Intel® Q170, 2 HDMI, DisplayPort, 4 GbE LAN, 8 USB, 2 PCI Express Mini Card Slots

Features

- LGA1151 socket 7th/6th gen Intel® Core™ i7/i5/i3 & Celeron® processors (Kaby Lake/Skylake)
- 1 DisplayPort and 2 HDMI (1 HDMI 2.0) with triple view supported
- Supports Jumbo Frame (9.5k), WoL, PXE Remote Boot, Teaming
- 9 to 36 VDC wide range power input
- Flexible I/O window design
- AMS.AXView intelligent remote monitoring software for IIoT



IP40 | Fanless | TripleView | USB 3.0 | 4K Ultra HD | 9 - 36 VDC | AMS.AXView

Specifications

Standard Color	Silver-black
Construction	Aluminum extrusion and heavy-duty steel, IP40
CPU	LGA1151 socket 7th/6th gen Intel® Core™ i7/i5/i3 & Celeron® processor (CPU TDP max. up to 35W)
System Memory	6th gen: 2 x 260-pin SO-DIMM DDR4-1866/2133, up to 32GB 7th gen: 2 x 260-pin SO-DIMM DDR4-2133/2400, up to 32GB
Chipset	Intel® Q170
BIOS	AMI
System I/O Outlet	2 x RS-232/422/485 (onboard) 2 x RS-232/422/485 (via cable on flexible IO window) 2 x HDMI (1 x HDMI 2.0 & 1 x HDMI 1.4b) 1 x DisplayPort 1 x Audio (Mic-in/Line-out) 4 x 10/100/1000 Mbps Ethernet (Intel® i210-IT, i219-LM) 6 x USB 3.0 & 2 x USB 2.0 32-channel programmable DI/DO 4 x SMA-type antenna connector 1 x Phoenix type VDC power input connector 1 x ATX power switch 1 x Remote power switch 1 x AT/ATX quick switch 1 x Reset switch 1 x Flexible I/O window (default : 2 x COM port)
Watchdog Timer	255 levels, 1 to 255 sec.
Storage	2 x 2.5" SATA HDD drive bay (max. up 15 mm height & Supports RAID 0 & 1) 1 x CFast™ 1 x mSATA (enabled in BIOS setting)
Expansion Interface	2 x Full-size PCI Express Mini Card slot (USB + PCI Express signal) 1 x SIM slot
System Indicator	1 x Green LED for power-on 1 x Yellow LED for HDD active 4 x Green LED for programmable
TPM	N/A
Power Input	9 to 36 VDC
Operating Temperature	-40°C to +60°C (-40°F to +140°F) (with W.T. DRAM/SSD for Skylake) -40°C to +55°C (-40°F to +131°F) (with W.T. DRAM/SSD for Kaby Lake)
Humidity	10% - 95%, non-condensing
Vibration Endurance	3 Grms with CFast™ (5 to 500 Hz, X, Y, Z directions)
Dimensions	280 mm (11.02") (W) x 190 mm (7.48") (D) x 76 mm (2.99") (H)
Weight (net/gross)	3.8 kg (8.37 lb)/4.6 kg (10.14 lb)
Certifications	CE, FCC Class A
EOS Support	WE8S, Win 10 IoT, Linux
Software Support	AMS.AXView

* W.T.: Wide Temperature. All W.T. supported products have to be sorted by Axiomtek.

Packing List

1 x Quick manual
1 x Driver CD
1 x Screw pack
4 x Pre-installed foot pad
1 x Terminal block connector
1 x Remote switch cable
2 x HDD bracket
1 x CPU thermal pad

Power Protection

DC Version
OVP (over voltage protection)
UVP (under voltage protection)
OCP (over current protection)
SCP (short circuit protection)
Reverse protection

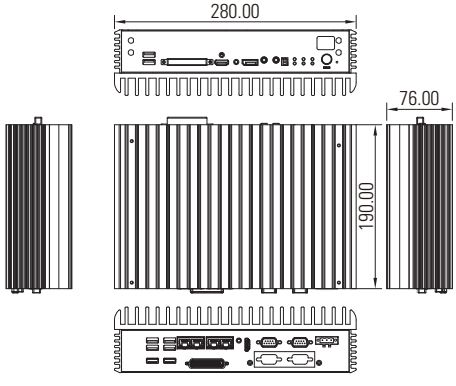
Ordering Information

Standard	
eBOX670-891-FL-DC-Flexible IO	Fanless embedded system with LGA1151 socket 7th/6th gen Intel® Core™ i7/i5/i3 & Celeron® processor, Intel® Q170, 2 HDMI, DisplayPort, 4 GbE LAN, 8 USB, CFast™, dual PCI Express Mini Card slots and 9 to 36 VDC

Optional	
2.5" SATA HDD	64GB or above
2.5" SATA SSD	100GB or above
DDR4 SO-DIMM	2GB to 16GB
CFast™	64GB (W.T.)
8816K6603A0E	Wi-Fi module
	3G/LTE module
8816K6701A0E	Wall mount kit
8816K6702A0E	DIN-rail kit
50906D24000E	24V 120W power adapter
E392903102	AX92903 CANbus PCI Express Mini module
E392903103	AX92903 CAN module with CANopen
E392902103	AX92902 LAN PCI Express Mini module
E392904102	AX92904 DIO PCI Express Mini module

* Specifications and certifications may vary based on different requirements.

Dimensions



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eBOX671-517-FL

Fanless Embedded System with LGA1151 Socket 7th/6th Gen Intel® Core™ i7/i5/i3 & Celeron® Processor, Intel® Q170, HDMI, DVI-D, VGA, 8-CH PoE, 6 USB and 24 VDC

Features

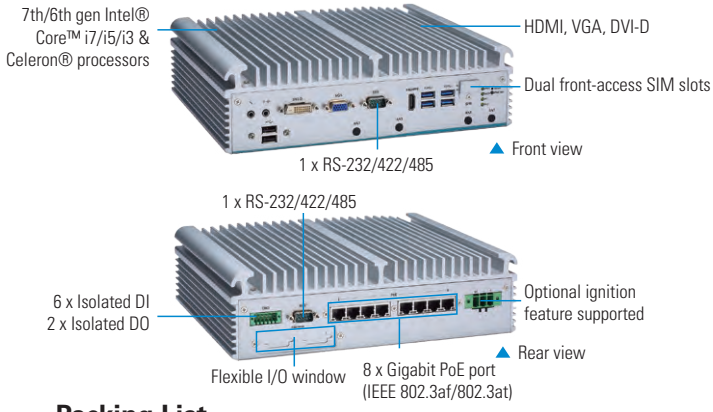
- 7th/6th gen Intel® Core™ i7/i5/i3 & Celeron® processors (35W/65W) and Intel® Q170
- 8-CH PoE/GbE onboard
- 2 front-access SIM slots
- Supports 6-in/2-out isolated DIO
- -40°C to +70°C extended operating temperature
- Optional ignition feature supported



Specifications

Standard Color	Silver
Construction	Aluminum extrusion and heavy-duty steel, IP40
CPU	LGA1151 socket 7th/6th gen Intel® Core™ i7/i5/i3 & Celeron® processors (35W/65W)
System Memory	2 x 260-pin SO-DIMM DDR4-2133 , up to 32GB
Chipset	Intel® Q170
BIOS	AMI UEFI BIOS
System I/O Outlet	2 x RS-232/422/485 1 x HDMI 1.4b, 1 x VGA, 1 x DVI-D 1 x Audio (Line-out & MIC-in) 8 x Gigabit PoE (IEEE 802.3af/802.3at) port (Intel® i211-AT, max. up to 90W) 4 x USB 3.0, 2 x USB 2.0 4 x SMA-type antenna connector 1 x Phoenix type VDC power input connector 1 x 6-in/2-out isolated DIO 1 x Power switch 1 x Reset switch 1 x Flexible I/O window (default: 2 x DB9 half cut bracket)
Watchdog Timer	255 levels, 1 to 255 sec.
Storage	2 x SATA HDD drive bay (max. up 15 mm height & RAID 0 & 1) 1 x mSATA (enabled in BIOS setting)
Expansion Interface	2 x Full-size PCI Express Mini Card slot (USB + PCI Express signal) 1 x Half-size PCI Express Mini Card slot (mSATA + USB + PCI Express signal) 1 x Half-size PCI Express Mini Card (USB signal) 2 x External accessible SIM slot
TPM	N/A
System Indicator	1 x Green LED for system power-on 1 x Yellow LED for HDD active 2 x Programmable green LED
Power Input	24 VDC (ACC is disabled by default)
Operating Temperature	35W Tj=100°C CPU: -40°C to +70°C (-40°F to +158°F) with W.T. SSD 65W Tj=100°C CPU: -40°C to +55°C (-40°F to +131°F) with W.T. SSD 35W Tj=80°C CPU: -40°C to +50°C (-40°F to +122°F) with W.T. SSD
Humidity	10% - 90%, non-condensing
Shock	IEC 60068-2-27 (with SSD: 50G, half sine, 11 ms duration)
Vibration Endurance	IEC 60068-2-64 (with SSD: 3Grms STD, random, 5 - 500 Hz, 1 hr/axis)
Dimensions	280 mm (11.2") (W) x 210 mm (8.26") (D) x 79.6 mm (3.13") (H)
Weight (net/gross)	4.31 kg (9.5 lb)/5.1 kg (11.24 lb)
Certifications	CE, FCC Class A
EOS Support	Win 10 IoT, Linux
Software Support	AMS.AXView

* W.T.: Wide Temperature. All W.T. supported products have to be sorted by Axiomtek.



Packing List

1 x Quick manual
1 x Driver CD
1 x Terminal block connector
4 x Pre-installed foot pad

Power Protection

DC Version
OVP (over voltage protection)
UVP (under voltage protection)
SCP (short current protection)

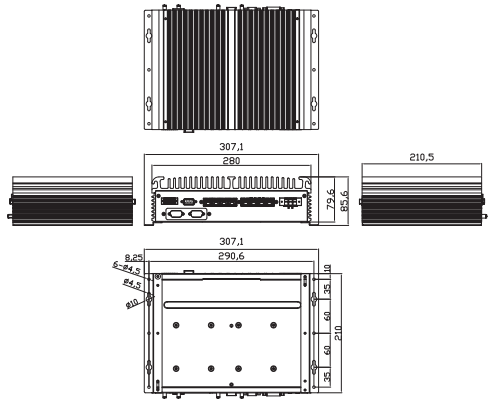
Ordering Information

Standard	
eBOX671-517-FL-DC	Fanless embedded system with LGA1151 socket 7th/6th gen Intel® Core™ i7/i5/i3 & Celeron® processors, Intel® Q170, VGA, DVI-D, HDMI, 8-CH PoE, 6 USB and 24 VDC

Optional	
2.5" SATA HDD	80GB or above
2.5" SATA SSD	100GB or above
DDR4 SO-DIMM	4GB to 16GB
mSATA	64GB or above
	Wi-Fi module
	3G/LTE module
	Wall mount kit
	DIN-rail kit
50906D24000E	24V 120W power adapter
E392903102	AX92903 CANbus PCI Express Mini module
E392903103	AX92903 CAN module with CANopen
E392902103	AX92902 LAN PCI Express Mini module
E392906101	AX92906 COM PCI Express Mini module
E392904102	AX92904 DIO PCI Express Mini module

* Specifications and certifications may vary based on different requirements.

Dimensions



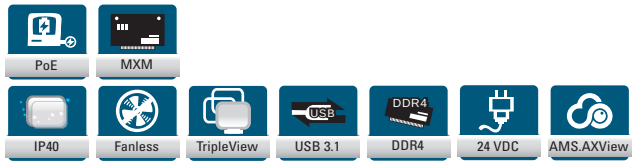
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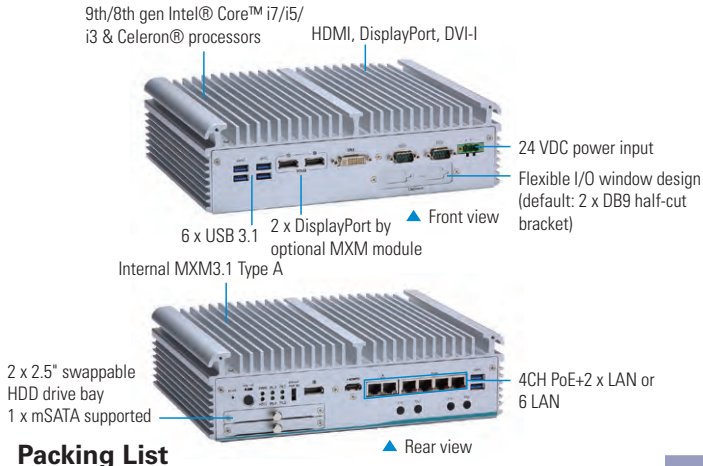
eBOX671-521-FL NEW

Fanless Embedded System with LGA1151 9th/8th Gen Intel® Core™ i7/i5/i3 & Celeron® Processor, 4-CH PoE and MXM 3.1 Type A

Features

- 9th/8th gen Intel® Core™ i7/i5/i3 & Celeron® with Intel® Q370 chipset (Coffee Lake/Coffee Lake Refresh-S)
- 4-CH PoE (IEEE802.3at compliance)
- Dual swappable 2.5" SATA HDD drive bays with RAID 0 &1
- Supports MXM 3.1 type A graphics module (optional)
- DVI-I, HDMI, and DisplayPort with triple-view supported
- AMS.AXView intelligent remote monitoring software for IIoT





Specifications

Standard Color	Silver
Construction	Aluminum extrusion and heavy-duty steel, IP40
CPU	LGA1151 9th gen Intel® Core™ i7/i5/i3 & Celeron® processors (35W) LGA1151 8th gen Intel® Core™ i7/i5/i3 & Celeron® processors (35W/65W)
System Memory	2 x 260-pin DDR4-2666 SO-DIMM, up to 64GB (ECC supported by Intel® C246 PCH)
Chipset	Intel® Q370/optional Intel® C246 PCH
BIOS	AMI
System I/O Outlet	2 x RS-232/422/485 2 x DisplayPort via optional MXM kit 1 x HDMI, 1 x DisplayPort, 1 x DVI-I 4 x Power over Ethernet (IEEE802.2at), up to 60W 2 x 10/100/1000 Mbps Ethernet (i210-IT & i219-LM) 4 x USB 3.1 Gen2, 2 x USB 3.1 Gen1 1 x Phoenix type VDC power input connector 1 x AT/ATX quick switch 1 x ATX power switch 1 x Reset switch 1 x Remote switch 1 x Flexible I/O window (Default : 2 x DB9 half-cut bracket) 4 x SMA-type antenna connector
Watchdog Timer	255 levels, 1 to 255 sec.
Storage	2 x 2.5" HDD drive bay (max. up 9.5 mm height) 1 x mSATA (enabled in BIOS setting)
Expansion Interface	2 x Full-size PCI Express Mini Card slot (USB + PCIe signal) 2 x SIM slot 1 x internal MXM3.1 type A connector
TPM	TPM 2.0
System Indicator	1 x Green LED for system power-on 1 x Green LED for HDD active 4 x Green LED for programmable
Power Input	24 VDC
Operating Temperature	Without MXM module: -40°C to 60°C (-40°F to +140°F) (with W.T. DRAM & SSD, CPU TDP 35W) -40°C to 50°C (-40°F to +122°F) (with W.T. DRAM & SSD, CPU TDP 65W) With MXM module: -40°C to 50°C (-40°F to +122°F) (with W.T. DRAM & SSD & MXM kit, CPU TDP 35W)
Humidity	10% - 90%, non-condensing
Shock Vibration	IEC 60068-2-27 (w/ SSD: 50G@wall mount, half-sine, 11 ms duration)
Vibration Endurance	IEC 60068-2-64 (w/ SSD: 3Grms STD, random, 5 - 500 Hz, 1 hr/axis)
Dimensions	280 mm (11.02") (W) x 210 mm (8.26") (D) x 80.5 mm (3.16") (H)
Weight (net/gross)	4.8 kg (10.58 lb)/5.6 kg (12.34 lb)
Certifications	CE, FCC Class A
EOS Support	Win 10 IoT, Linux
Software Support	AMS.AXView

* W.T.: Wide Temperature. All W.T. supported products have to be sorted by Axiomtek.

Packing List

1 x Quick manual
1 x Driver CD
1 x Screw pack
4 x Pre-installed foot pad
1 x 3-pin terminal block connector
1 x Remote switch cable

Power Protection

DC Version
OVP (over voltage protection)
UVP (under voltage protection)
OCP (over current protection)
SCP (short circuit protection)
Reserve protection

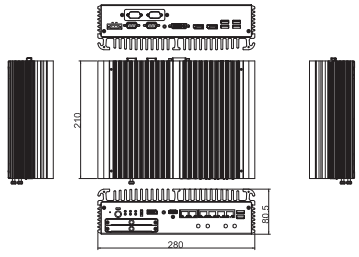
Ordering Information

Standard	
eBOX671-521-FL-DC-4PoE	Fanless embedded system with LGA1151 9th/8th gen Intel® Core™ i7/i5/i3 & Celeron® processor, Intel® Q370, DVI-I, HDMI, dual HDD, 4 PoE, 2 GbE LAN, 6 USB, 2 COM and 24 VDC
eBOX671-521-FL-DC-6GbE	Fanless embedded system with LGA1151 9th/8th gen Intel® Core™ i7/i5/i3 & Celeron® processor, Intel® Q370, DVI-I, HDMI, dual HDD, 6 GbE LAN, 6 USB, 2 COM and 24 VDC

Optional	
2.5" SATA HDD	80GB or above
2.5" SATA SSD	100GB or above
DDR4 SO-DIMM	4GB to 32GB
mSATA	64GB or above
8816K6718A0E	Wall mount kit
8816K6719A0E	DIN-rail kit
8816K6603A0E	Wi-Fi module 3G/LTE module MXM 3.1 type A module
50906D24000E	24V 120W power adapter
E392903102	AX92903 CANbus PCI Express Mini module
E392903103	AX92903 CAN module with CANOpen
E392902103	AX92902 LAN PCI Express Mini module
59406392140E	RS-232 cable, L=200 mm for COM3/4
E392904102	AX92904 DIO PCI Express Mini module

* Specifications and certifications may vary based on different requirements.

Dimensions



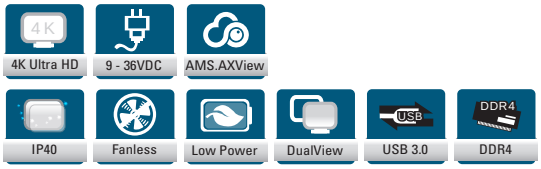
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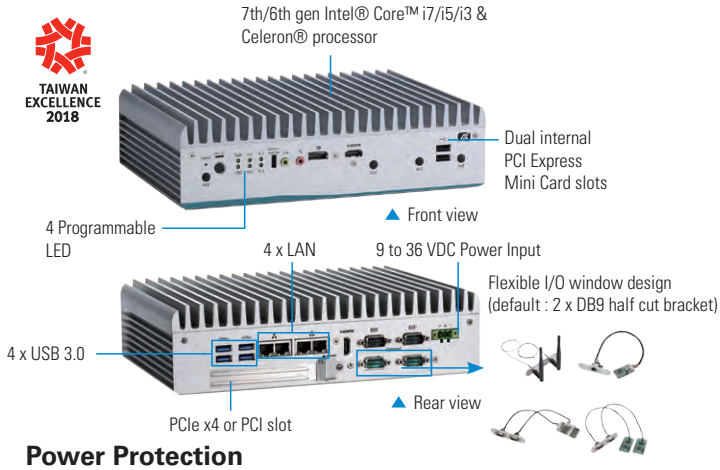
eBOX700-891-FL

Fanless Embedded System with LGA1151 Socket 7th/6th Gen Intel® Core™ i7/i5/i3 & Celeron® Processor, Intel® H110, 2 HDMI, DisplayPort, 4 GbE LAN, 6 USB, PCIe x4/PCI Slot and 9 to 36 VDC

Features

- Wide operating temperature range from -40°C to +50°C
- 7th/6th gen Intel® Core™ i7/i5/i3 & Celeron® processors
- PCIe x 4 or PCI slot supported
- Supports 6 USB ports and 4 GbE LAN
- 2 PCI Express Mini Card slots for WLAN/WWAN/mSATA modules
- 1 internal USB Type A connector for Dongle kit
- AMS.AXView intelligent remote monitoring software for IIoT





Specifications

Standard Color	Silver
Construction	Aluminum extrusion and heavy-duty steel, IP40
CPU	LGA1151 socket 7th/6th gen Intel® Core™ i7/i5/i3 & Celeron® processor (CPU TDP max. up to 35 W)
System Memory	6th gen: 2 x 260-pin SO-DIMM DDR4-1866/2133, up to 32GB 7th gen: 2 x 260-pin SO-DIMM DDR4-2133/2400, up to 32GB
Chipset	Intel® H110
BIOS	AMI UEFI BIOS
System I/O Outlet	2 x RS-232/422/485 2 x HDMI (1 x HDMI 2.0 & 1 x HDMI 1.4b) 1 x DisplayPort 1 x Audio (Mic-in/Line-out) 4 x 10/100/1000 Mbps Ethernet (Intel® i210-IT, i219-LM) 4 x USB 3.0, 2 x USB 2.0 4 x SMA-type antenna connector 1 x Phoenix type VDC power input connector 1 x ATX power switch 1 x Remote power switch 1 x ATX/AT quick switch 1 x Reset switch 1 x Flexible I/O window (default: 2 x DB9 half cut bracket)
Watchdog Timer	255 levels, 1 to 255 sec.
Storage	1 x 2.5" SATA HDD drive bay (max. up 15 mm height) 1 x mSATA (enabled in BIOS setting)
Expansion Interface	2 x Full-size PCI Express Mini Card slot (USB+PCIe signal) 1 x SIM slot 1 x PCIe x4 slot or 1 x PCI slot 1 x Internal USB Type A for license dongle kit usage
TPM	N/A
System Indicator	1 x Green LED for system power-on 1 x Yellow LED for HDD active 4 x Programmable green LED
Power Input	9 to 36 VDC
Operating Temperature	-40°C to +50°C (-40°F to +122° F) (with W.T. SSD/DRAM)
Humidity	10% - 90%, non-condensing
Vibration Endurance	3 Grms with SSD (5 to 500Hz, X, Y, Z directions)
Dimensions	280 mm (11.02") (W) x 190 mm (7.48") (D) x 76 mm (2.99") (H)
Weight (net/gross)	3.8 kg (8.37 lb)/4.6 kg (10.14 lb)
Certifications	CE, FCC Class A
EOS Support	Win 10 IoT, Linux
Software Support	AMS.AXView

* W.T.: Wide Temperature. All W.T. supported products have to be sorted by Axiomtek.

Packing List

1 x Quick manual
1 x Driver CD
1 x Remote power cable
1 x Terminal block connector
4 x Pre-installed foot pad

Power Protection

DC Version
OVP (over voltage protection)
UVP (under voltage protection)
SCP (short current protection)

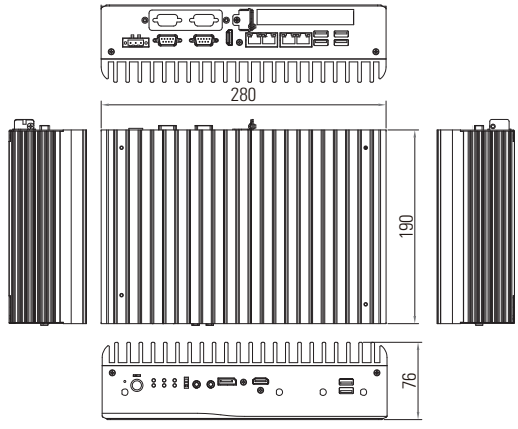
Ordering Information

Standard	
eBOX700-891-FL-PCIe-DC	Fanless embedded system with LGA1151 socket 7th/6th gen Intel® Core™ i7/i5/i3 & Celeron® processor, Intel® H110, 2 HDMI, DisplayPort, 4 GbE LAN, 6 USB, PCIe x4 and 9 to 36 VDC
eBOX700-891-FL-PCI-DC	Fanless embedded system with LGA1151 socket 7th/6th gen Intel® Core™ i7/i5/i3 & Celeron® processor, Intel® H110, 2 HDMI, DisplayPort, 4 GbE LAN, 6 USB, PCI and 9 to 36 VDC

Optional	
2.5" SATA HDD	80GB or above
2.5" SATA SSD	100GB or above
DDR4 SO-DIMM	4GB to 16GB
8816K6603A0E	Wi-Fi module 3G/LTE module
8816K7000A0E	Wall mount kit
8816K6702A0E	DIN-rail kit
50906D24000E	24V 120W power adapter
E392903102	AX92903 CANbus PCI Express Mini module
E392903103	AX92903 CAN module with CANOpen
E392902103	AX92902 LAN PCI Express Mini module
E392906101	AX92906 COM PCI Express Mini module
E392904102	AX92904 DIO PCI Express Mini module

* Specifications and certifications may vary based on different requirements.

Dimensions



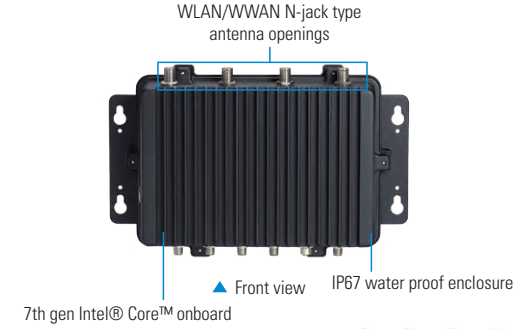
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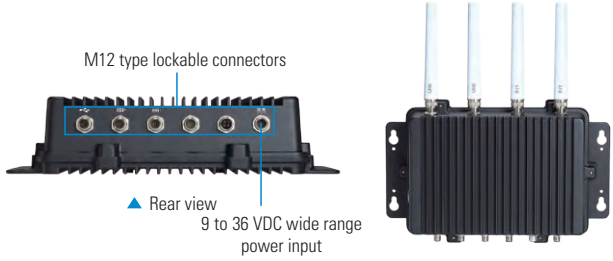
eBOX800-511-FL

Rugged IP67-rated Fanless Embedded System with Intel® Core™ i5-7300U & Celeron® 3965U, VGA, GbE LAN, 2 USB, 2 COM and 9 to 36 VDC

Features

- IP67-rating for outdoor use
- Intel® Core™ i5-7300U & Celeron® 3965U onboard
- 4 N-jack antenna openings with water proof design
- 9 to 36 VDC wide range power input
- -30°C to +60°C operating temperature range
- Features M12 lockable I/Os
- Trusted Platform Module 1.2 (TPM 1.2)





AMS.AXView

IP67 | Fanless | Low Power | DDR4 | 9 - 36VDC | AiRD

Specifications

Standard Color	Black
Construction	Aluminum die-casting and heavy-duty steel, IP67
CPU	Intel® Core™ i5-7300U/Celeron® 3965U onboard
System Memory	1 x 260-pin DDR4-2133 SO-DIMM, up to 16GB
Chipset	SoC integrated
BIOS	AMI
System I/O Outlet	2 x RS-232/422/485 (M12) 1 x 10/100/1000 Mbps Ethernet (Intel® i219-LM, M12) 2 x USB 2.0 (M12) 1 x VGA (M12) 1 x 9 to 36VDC power input (M12) 1 x ATX power switch w/indicator 4 x N-jack antenna opening with water proof design
Watchdog Timer	255 levels, 1 to 255 sec.
Storage	1 x 2.5" HDD drive bay (max. up 9.5 mm height) 1 x mSATA (enabled in BIOS setting)
Expansion Interface	1 x Full-size PCI Express Mini Card slot (USB + PCIe signal) 1 x Half-size PCI Express Mini Card slot (USB + PCIe signal)
TPM	TPM 1.2
System Indicator	1 x Green LED for system power-on
Power Input	9 to 36 VDC
Operating Temperature	-30°C to +60°C (-22°F to +140°F) (with i5-7300U, W.T. SSD/DRAM)
Humidity	10% - 95% , non-condensing
Vibration Endurance	3 Grms with SSD (5 to 500Hz, X, Y, Z directions)
Dimensions	210 mm (8.27") x 366.83 mm (14.44") x 83 mm (3.27")
Weight (net/gross)	4.31 kg (9.5 lb)/5.1 kg (11.24 lb)
Certifications	CE, FCC Class A
EOS Support	Win 10 IoT & Linux
Software Support	AMS.AXView

* W.T.: Wide Temperature. All W.T. supported products have to be sorted by Axiomtek.

Packing List

1 x Quick manual
1 x Driver CD
1 x Water-proof PWR cable (180 cm)
1 x Water-proof VGA cable (180 cm)
1 x Water-proof USB 2.0 cable (180 cm)

Power Protection

DC Version
OVP (over voltage protection)
OCP (over current protection)
SCP (short circuit protection)

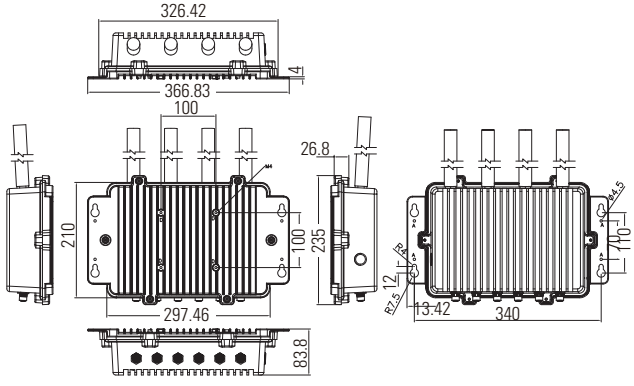
Ordering Information

Standard	
eBOX800-511-FL-DC-7300U	Rugged IP67-rated Fanless Embedded System with Intel® Core™ i5-7300U, VGA, GbE LAN, 2 USB, 2 USB, 2 COM and 9 to 36 VDC
eBOX800-511-FL-DC-3965U	Rugged IP67-rated Fanless Embedded System with Intel® Celeron® 3965U, VGA, GbE LAN, 2 USB, 2 COM and 9 to 36 VDC

Optional	
2.5" SATA HDD (W.T.)	80GB or above
2.5" SATA SSD (W.T.)	100GB or above
DDR4 SO-DIMM (W.T.)	2GB to 16GB
8816K8006A0E	Wi-Fi module 3G/LTE module
594B8122100E	RS-232 serial cable,180 cm
594B8152710E	LAN cable,180 cm
50966224010E	24V 90W M12 power adapter

* Specifications and certifications may vary based on different requirements.

Dimensions



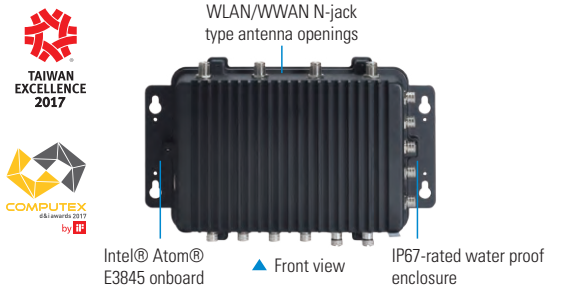
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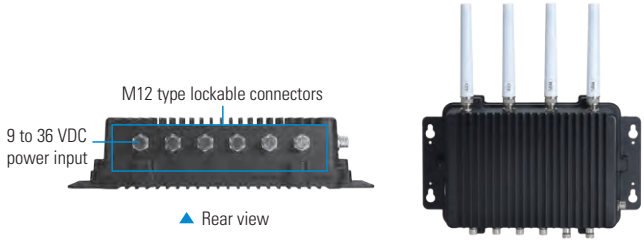
eBOX800-841-FL

Rugged IP67-rated Fanless Embedded System with Intel® Atom® Processor E3845, VGA, 2 GbE LAN, 2 USB, 2 COM and 9 to 36 VDC

Features

- IP67-rating for outdoor use
- Intel® Atom® processor E3845 onboard
- 4 N-jack antenna openings with water proof design
- -30°C to +60°C operating temperature range
- 9 to 36 VDC wide range power input
- Features M12 lockable I/O
- Trusted Platform Module 1.2 (TPM 1.2)





IP67 | Fanless | Low Power | DDR3L | 9 - 36VDC | AiRD

Specifications

Standard Color	Black
Construction	Aluminum die-casting and heavy-duty steel, IP67
CPU	Intel® Atom® processor E3845 1.91 GHz
System Memory	1 x 204-pin DDR3L-1066/1333 SO-DIMM, up to 8GB
Chipset	SoC integrated
BIOS	AMI
System I/O Outlet	2 x RS-232/422/485 (M12) 1 x VGA (M12) 2 x 10/100/1000 Mbps Ethernet (Intel® i210-IT, M12) 2 x USB 2.0 (M12) 1 x 9 to 36 VDC power input (M12) 1 x ATX power switch with indicator 4 x N-jack antenna opening with water proof design
Watchdog Timer	255 levels, 1 to 255 sec.
Storage	1 x 2.5" HDD drive bay (max. up 9.5 mm height) 1 x mSATA (enabled in BIOS setting) 1 x CFast™
Expansion Interface	1 x Full-size PCI Express Mini Card slot (USB + PCI Express signal) 1 x Half-size PCI Express Mini Card slot (USB + PCI Express signal) 1 x SIM slot
TPM	TPM 1.2
System Indicator	1 x Green LED for system power-on
Power Input	9 to 36 VDC
Operating Temperature	-30°C to +60°C (-22°F to +140°F) (with E3845, W.T. SSD/DRAM)
Humidity	10% - 95% , non-condensing
Vibration Endurance	3 Grms with SSD (5 to 500Hz, X, Y, Z directions)
Dimensions	210 mm (8.27") x 366.83 mm (14.44") x 83 mm (3.27")
Weight (net/gross)	4.31 kg (9.5 lb)/5.1 kg (11.24 lb)
Certifications	CE,FCC Class A
EOS Support	Win 10 IoT, WE8S, WES7, Linux

* W.T.: Wide Temperature. All W.T. supported products have to be sorted by Axiomtek.

Packing List

1 x Quick manual
1 x Driver CD
1 x Water-proof PWR cable (180 cm)
1 x Water-proof VGA cable (180 cm)
1 x Water-proof USB 2.0 cable (180 cm)

Power Protection

DC Version
OVP (over voltage protection)
OCP (over current protection)
SCP (short circuit protection)

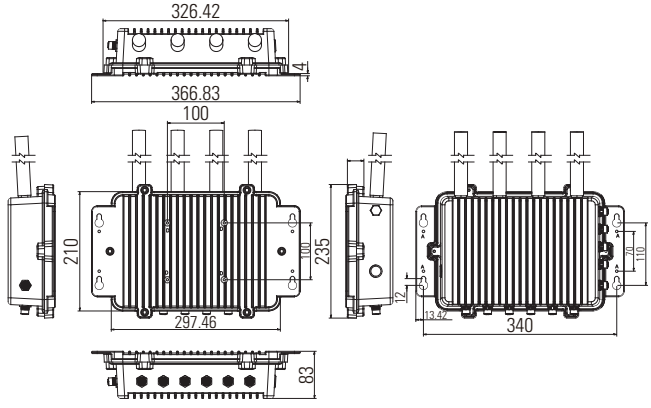
Ordering Information

Standard	
eBOX800-841-FL-DC	Rugged IP67-rated fanless embedded system with Intel® Atom® E3845 1.91 GHz, VGA, 2 GbE LAN, 2 USB, 2 COM and 9 to 36 VDC

Optional	
2.5" SATA HDD (W.T.)	80GB or above
2.5" SATA SSD (W.T.)	100GB or above
DDR3L SO-DIMM (W.T.)	2GB to 8GB
CFast™	64GB or above
mSATA	64GB or above
8816K8002A0E	Wi-Fi module 3G/LTE module
594B8122100E	RS-232 serial cable, 180 cm
594B8152710E	LAN cable, 180 cm
50966224010E	24V 90W M12 power adapter

* Specifications and certifications may vary based on different requirements.

Dimensions



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eBOX800-900-FL

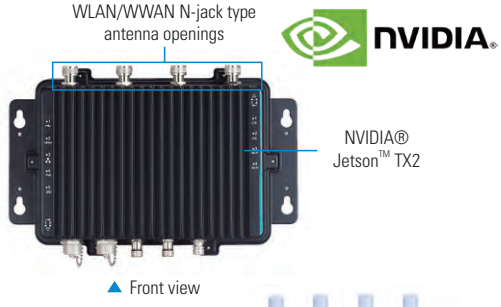
Rugged IP67-rated Fanless Edge System with NVIDIA® Jetson™ TX2, HDMI, GbE LAN, 1-CH PoE, USB 2.0 and 100 to 240 VAC Power Input

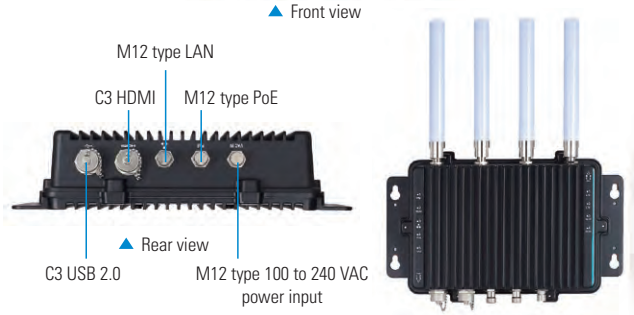
Features

- IP67-rating for outdoor use
- NVIDIA® Jetson™ TX2 with Pascal™, 256 CUDA cores GPU
- High AI computing performance for GPU-accelerated processing
- -30°C to +60°C operating temperature range
- 100 to 240 VAC wide range power input with 10kV surge protection
- 4 N-jack antenna openings with water proof design
- Features M12 lockable I/Os
- 1 IEEE 802.3at Gigabit LAN port (30W)

NVIDIA TX2 available through to 2022*
The official end of life notice will be sent for at least 8 months before the last shipment.







Specifications

Standard Color	Black
Construction	Aluminum die-casting and heavy-duty steel, IP67
CPU Board	NVIDIA® Jetson™ TX2
CPU	HMP dual Denver 2/2 MB L2 + quad ARM® A57/2 MB L2
GPU	NVIDIA® Pascal™, 256 CUDA cores
System Memory	8GB 128-bit LPDDR4 @ 1866 MHz onboard
Carried Board	SBC87900
System I/O Outlet	1 x C3 USB 2.0 1 x M12 X-Code GbE LAN 1 x M12 X-Code Gigabit PoE (IEEE 802.3at) port (30W) 1 x C3 HDMI with FHD supported 1 x M12 S-Code 3-pos AC in power input 4 x N-jack antenna opening with water proof design
Watchdog Timer	Watchdog timer embedded in NVIDIA® Jetson™ TX2
Storage	Onboard 32GB eMMC (via Jetson™ TX2) 1 x M.2 Key M 2280 with PCIe 2.0 x4 for NVMe SSD (optional)
Wireless Module	802.11ac WLAN, Bluetooth onboard with N-jack type antennas
Expansion Interface	1 x Full-size PCI Express Mini Card slot (USB + PCI Express signal) 1 x SIM slot
TPM	N/A
Power Input	100 to 240 VAC with 10kV SPD
Operating Temperature	-30°C to +60°C (-22°F to +140°F)
Humidity	10% - 95% , non-condensing
Vibration Endurance	3 Grms with SSD (5 to 500Hz, X, Y, Z directions)
Dimensions	210 mm (8.27") x 366.83 mm (14.44") x 83 mm (3.27")
Weight (net/gross)	4.31 kg (9.5 lb)/5.1 kg (11.24 lb)
Certifications	CE, FCC Class A
OS Support	Linux Ubuntu 18.04

Packing List

1 x Quick manual
1 x Screws pack
2 x Wi-Fi antenna

Power Protection

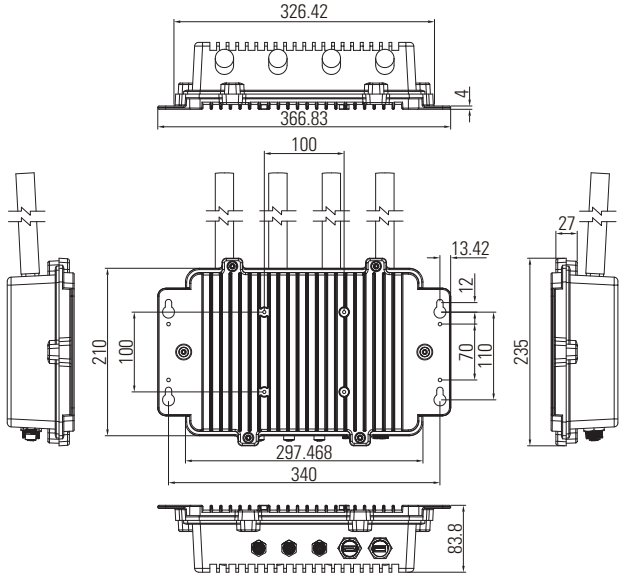
DC Version
OVP (over voltage protection)
OCP (over current protection)
SCP (short circuit protection)
SPD (surge protection device)

Ordering Information

Standard	
eBOX800-900-FL	Rugged IP67-rated fanless edge system with NVIDIA® Jetson™ TX2, HDMI, GbE LAN, Gigabit PoE, USB 2.0 and 100 to 240 VAC power input
Optional	
M.2 NVMe	64GB or above
594B8152710E	LAN/PoE cable,180 cm
594K2303810E	HDMI cable, 100 cm
594K2302810E	USB cable, 200 cm
59902000040E	US AC power cord, 180 cm
	LTE module

* Specifications and certifications may vary based on different requirements.

Dimensions



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Embedded Systems

Edge AI Systems

Transportation Embedded Systems & Switch

DIN-rail Embedded Systems

Embedded MicroBoxes

Industrial Systems

Machine Vision Systems

Industrial Chassis

Digital Signage Players

Systems and Platforms

2 Edge AI Systems

Axiomtek's AIE series of edge AI embedded systems is designed for AI inference, GPU computing, machine learning, image processing, the artificial intelligence of things, and much more. This product line is dedicated to achieving operational excellence, efficiency, reliability in manufacturing, transportation, agriculture, smart city, and retail applications.

	Selection Guide		155
NEW	AIE500-901-FL	Fanless Edge AI System with NVIDIA® JETSON™ TX2 Series SoM, 1 HDMI, 2 GbE LAN, 2 USB, 2 COM or 2 CAN and 12 or 24 VDC	156
NEW	AIE900-902-FL	Fanless Edge AI System with NVIDIA® JETSON™ Xavier SoM, 2 HDMI, 2 GbE LAN, 4 PoE LAN, 6 USB, 2 COM or 2 CAN and 8-CH DI/DO	157

Edge AI Systems

Selection Guide

NEW



NEW



Features\Models	AIE500-901-FL	AIE900-902-FL
CPU Level	NVIDIA® Jetson™ TX2 SoM HMP Dual Denver 2/2 MB L2 + Quad ARM® A57/2 MB L2	NVIDIA® Jetson™ Xavier SoM 8-core Carmel ARM v8.2 64-bit CPU, 8MB L2 + 4MB L3
GPU	NVIDIA® Pascal™, 256 CUDA cores	512-core NVIDIA Volta™ GPU with 64 Tensor cores
System Memory	1 x 8GB 128-bit LPDDR4 onboard	1 x 16GB 256-bit LPDDR4x onboard
Chipset	SoM integrated	SoM integrated
Serial	2 x RS-232 default (or 2 x CAN by jumper settings)	2 x RS-232/485 default (or 2 x CAN by jumper settings)
Display	1 x HDMI	2 x HDMI (lockable)
Ethernet	2 x 10/100/1000 Mbps Ethernet	2 x 10/100/1000 Mbps Ethernet 4 x PoE
USB	2 x USB 3.1 Gen1 1 x Micro USB	2 x USB 3.1 Gen2 2 x USB 3.1 Gen1 2 x USB 2.0 1 x Micro USB
Expansion Interface	1 x Full-size PCI Express Mini Card slot (USB + PCIe) 1 x SIM slot	1 x Full-size PCI Express Mini Card slot (USB + PCIe) 1 x M.2 Key E 2230 slot 1 x SIM slot
Storage	Onboard 32GB eMMC (built-in TX2) 1 x M.2 Key M 2280 with PCIe x1 and SATA SSD slot 1 x Micro SD slot	Onboard 32GB eMMC (built-in Xavier) 1 x M.2 Key M 2280 with PCIe x4 NVMe SSD slot 1 x Micro SD slot 1 x 2.5" SSD/HDD drive bay
Watchdog Timer	Built-in TX2	Built-in Xavier
Power Supply	12 or 24 VDC	24 VDC default (9 to 36 VDC without PoE feature)
Operating Temperature	-30°C to +60°C (-22°F to +140°F)	-30°C to +55°C (-22°F to +131°F)
Mounting	Wall mount VESA mount DIN-rail	Wall mount DIN-rail
Dimensions (W x D x H)	171 x 110 x 57 mm (6.73" x 4.33" x 2.24")	TBC
Weight (net/gross)	0.9 kg (1.98 lb)/1.6 kg (3.52 lb)	TBC
Certifications	CE, FCC Class A	CE, FCC Class A
EOS Support	Linux Ubuntu 18.04	Linux Ubuntu 18.04

* All specifications and photos are subject to change without notice. www.axiomtek.com

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AIE500-901-FL NEW

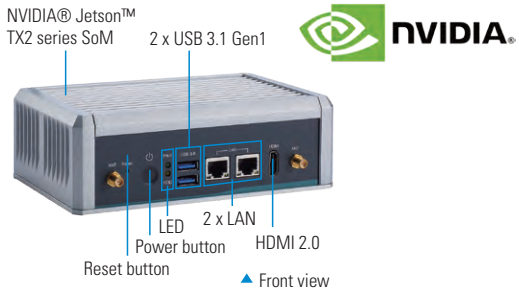
Fanless Edge AI System with NVIDIA® JETSON™ TX2 Series SoM, 1 HDMI, 2 GbE LAN, 2 USB, 2 COM or 2 CAN and 12 or 24 VDC

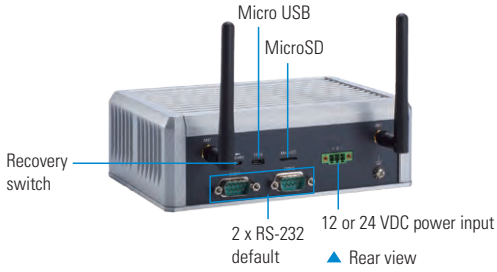
Features

- NVIDIA® Jetson™ TX2 with Pascal™, 256 CUDA cores GPU
- High performance AI computing for GPU-accelerated processing
- Ideal for intelligent edge applications, machine learning and computer vision
- Supports M.2 PCIe & SATA SSD and MicroSD slot
- Supports 2 USB 3.1 Gen 1 and 2 COM or 2 CAN
- Wide operating temperature from -30°C to +60°C
- JetPack supported

NVIDIA TX2 available through to January 2025*
The official end of life notice will be sent for at least 8 months before the last shipment.

IP40 | Fanless | Low Power | DDR4 | 4K Ultra HD | 12-24VDC | JETSON TX2





Specifications

Standard Color	Silver
Construction	Aluminum extrusion and heavy-duty steel, IP40
CPU Board	NVIDIA® Jetson™ TX2
CPU	HMP Dual Denver 2/2 MB L2 + Quad ARM® A57/2 MB L2
GPU	NVIDIA® Pascal™, 256 CUDA cores
System Memory	1 x 8GB 128-bit LPDDR4@1866 MHz onboard
Carried Board	SBC87901
System I/O Outlet	1 x HDMI 2.0 with 4K2K supported 2 x 10/100/1000 Mbps Ethernet (NVIDIA® + Intel® i210-IT) 2 x USB 3.1 Gen1 1 x Micro USB 2 x RS-232 default (or 2 x CAN by jumper settings) 1 x Recovery switch 1 x Reset button 1 x Power button 1 x 12 or 24 VDC power input connector 4 x SMA-type antenna connector
Watchdog Timer	Built-in TX2
Storage	Onboard 32GB eMMC (via Jetson™ TX2 8GB) 1 x M.2 Key M 2280 with PCIe x1 and SATA SSD slot 1 x Micro SD slot
Wireless Module	802.11ac WLAN, Bluetooth onboard (TX2 8GB only)
Expansion Interface	1 x Full-size PCI Express Mini Card slot (USB + PCI Express signal) *Either Mini PCIe connector or Micro USB (select by recovery switch) 1 x SIM slot
System Indicator	1 x Green LED for system power-on 1 x Yellow LED for M.2 storage
Power Supply	12 or 24 VDC
Operating Temperature	-30°C to +60°C (-22°F to +140°F)
Humidity	10% - 95%, non-condensing
Vibration Endurance	3 Grms with M.2 (5 to 500Hz, X, Y, Z directions)
Dimensions	171 mm (6.73") (W) x 110 mm (4.33") (D) x 57 mm (2.24") (H)
Weight (net/gross)	0.9 kg (1.98 lb)/1.6 kg (3.52 lb)
Certifications	CE, FCC Class A
OS Support	Linux Ubuntu 18.04

Packing List

1 x Terminal block connector
1 x Screw pack
4 x Foot pad
2 x Antennas for WLAN (TX2 8GB only)

Power Protection

DC Version
OVP (over voltage protection)
OCP (over current protection)

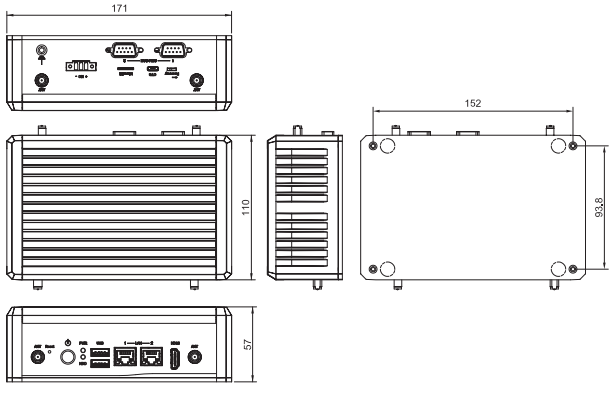
Ordering Information

Standard	
AIE500-901-FL	Fanless edge AI system with NVIDIA® JETSON™ TX2 series SoM, 1 HDMI 2.0, 2 GbE LAN, 2 USB, 2 COM or 2 CAN and 12 or 24 VDC

Optional	
826K5601050E	Wall mount kit
8816K560AA0E	VESA arm kit
8816K560BA0E	DIN-rail kit
M.2 PCIe SSD	64GB or above
M.2 SATA SSD	64GB or above
	LTE module
50906D24000E	24V, 120W adapter

* Specifications and certifications may vary based on different requirements.

Dimensions



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AIE900-902-FL NEW

Fanless Edge AI System with NVIDIA® JETSON™ Xavier SoM, 2 HDMI, 2 GbE LAN, 4 PoE LAN, 6 USB, 2 COM or 2 CAN and 8-CH DI/DO

Features

- NVIDIA® Jetson™ Xavier with 512-core Volta GPU with 64 Tensor cores GPU
- High AI computing performance for GPU-accelerated processing
- Ideal for intelligent edge applications, machine learning and computer vision
- Supports M.2 NVMe SSD
- Wide operating temperature from -30°C to +55°C
- JetPack supported



NVIDIA Xavier available through to*
The official end of life notice will be sent for at least 8 months before the last shipment.



Specifications

Standard Color	Silver
Construction	Aluminum extrusion and heavy-duty steel, IP40
CPU Board	NVIDIA® Jetson™ Xavier
CPU	8-core Carmel ARM v8.2 64-bit CPU, 8MB L2 + 4MB L3
GPU	512-Core NVIDIA Volta™ GPU with 64 Tensor Cores
System Memory	1 x 16GB 256-Bit LPDDR4x onboard
Carried Board	SBC87902
System I/O Outlet	2 x Lockable HDMI 2.0 with 4K2K supported 2 x 10/100/1000 Mbps Ethernet (NVIDIA® + Intel® i210-IT) 4 x PoE (Intel® i210-IT) 2 x USB 3.1 Gen2, 2 x USB 3.1 Gen1, 2 x USB 2.0 1 x Micro USB 1 x 8-CH DI/DO 2 x RS-232/485 default (or 2 x CAN by jumper settings) 1 x 24 VDC power input connector 4 x SMA-type antenna connector
Watchdog Timer	Built-in Xavier
Storage	Onboard 32GB eMMC (via Jetson™ Xavier) 1 x M.2 Key M 2280 with PCIe x4 NVMe SSD slot 1 x Micro SD slot 1 x 2.5" SSD/HDD drive bay
Expansion Interface	1 x Full-size PCI Express Mini Card slot (USB + PCI Express signal) 1 x M.2 Key E 2230 slot 1 x SIM slot
System Indicator	1 x Green LED for system power-on 1 x Green LED for storage 2 x Green LED for LAN status 4 x Green LED for PoE status
Power Supply	24 VDC default (9 to 36 VDC without PoE feature)
Operating Temperature	-30°C to +55°C (-22°F to +131°F)
Humidity	10% - 95%, non-condensing
Vibration Endurance	3 Grms with M.2 (5 to 500Hz, X, Y, Z directions)
Dimensions	TBC
Weight (net/gross)	TBC
Certifications	CE, FCC Class A
OS Support	Linux Ubuntu 18.04

Packing List

1 x Terminal block connector
1 x Screw pack
4 x Foot pad

Power Protection

DC Version
OVP (over voltage protection)
OCP (over current protection)
UVP (under voltage protection)
Reserve protection

Ordering Information

Standard	
AIE900-902-FL	Fanless edge AI system with NVIDIA® JETSON™ Xavier SoM, 2 HDMI, 2 GbE LAN, 4 PoE LAN, 6 USB, 2 COM or 2 CAN and 8-CH DI/DO

Optional	
M.2 NVMe	Wall mount kit DIN-rail kit 64GB or above LTE module

* Specifications and certifications may vary based on different requirements.

Dimensions

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NOTES

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3 Transportation Embedded Systems & Switch

Axiomtek is committed to providing its reliable transportation embedded system for transportation PC applications such as vehicle, railway, marine or other station and facility usage. The stability and reliability of the tBOX series and UST series have helped earn the product an ISO 7637-2 rating and an E-Mark certificate for vehicle applications; meanwhile, the tBOX series has qualified for either EN 50155, EN 50121 and EN 45545 certification for railway applications, or DNV 2.4 and IEC 60945 for marine applications. Axiomtek newly launched transportation layer 2 managed/ unmanaged (PoE) switch, TEN series, is dedicated for transportation market requiring harsh EMC and environment (temperature,vibration...) resistance, which is qualified with EN 50155 and EN 45545-2 for railway market.

	Selection Guide		161
	Certification Guide		164
	Transportation Embedded Systems		
	tBOX300-510-FL	Fanless Embedded System with 7th Gen Intel® Core™ i7/i5/i3 & Celeron® Processor for Railway and Marine PC	165
NEW	tBOX400-510-FL	Fanless Embedded System with 7th Gen Intel® Core™ i7/i5/i3 & Celeron® Processor, Built-in Layer 2 Managed PoE Switch for Railway PC	167
	tBOX500-510-FL	Fanless Embedded System with 7th Gen Intel® Core™ i7/i5/i3 & Celeron® Processor for Railway, Vehicle and Marine PC	169
	tBOX100-838-FL	Fanless Embedded System with Intel® Atom® Processor E3845 for Railway, Vehicle and Marine PC	171
	tBOX810-838-FL	Fanless Embedded System with Intel® Atom® Processor E3845/ E3827 for Railway, Vehicle and Marine PC	173
	tBOX324-894-FL	Fanless Embedded System with 7th/6th Gen Intel® Core™ i7/i5/i3 & Celeron® Processor for Railway, Vehicle and Marine PC	175
NEW	UST100-504-FL	Fanless Embedded System with 7th/6th Gen Intel® Core™, Pentium® and Celeron® Processor, Compact Size for Video Analytics in Vehicle PC Market	177
	UST500-517-FL	Fanless Embedded System with 7th/6th Gen Intel® Core™, Pentium® and Celeron® Processor for Railway and Vehicle PC	179
NEW	Agent336	Fanless Embedded System with i.MX 8M Processor, COM, LAN, USB, DIO (2-in/2-out), 2 PCIe Mini Card Slots, Power Design with ACC Ignition and E-Mark Certification for Vehicle Box PC	181
	Transportation Ethernet Switch		
NEW	TEN710MW/UW	Transportation EN 50155 & EN 45545-2 Certified Layer 2 Managed/ Unmanaged Switch with 10-port LAN, and PoE Supported	183

Anti-Vibration Kit 185

Value-add Modules (VAMs)

VAM100 & VAM101 186
VAM200 & VAM400 187
VAM600 & VAM900 188
VAM700/VAM701 & VAM702/VAM703 189
VAM704/VAM705 & VAM706/VAM707 190

Power Supply Unit (PSU)

NEW PSU120-259 PoE Power Sourcing Equipment for tBOX300/tBOX400/tBOX500 Series 191

Systems and Platforms

Transportation Embedded Systems & Switch

Selection Guide







Features\Models	tBOX300-510-FL	tBOX400-510-FL	tBOX500-510-FL
CPU Level	Intel® Core™ i7-7600U 2.8 GHz Intel® Core™ i5-7300U 2.6 GHz Intel® Core™ i3-7100U 2.4 GHz Intel® Celeron® 3965U 2.2 GHz	Intel® Core™ i7-7600U 2.8 GHz Intel® Core™ i5-7300U 2.6 GHz Intel® Core™ i3-7100U 2.4 GHz Intel® Celeron® 3965U 2.2 GHz	Intel® Core™ i7-7600U 2C @ 2.8 GHz Intel® Core™ i5-7300U 2C @ 2.6 GHz Intel® Core™ i3-7100U 2C @ 2.4 GHz Intel® Celeron® 3965U 2C @ 2.2 GHz
System Memory	2 x DDR4-1866/2133 SO-DIMM, up to 32GB	2 x DDR4-1866/2133 SO-DIMM, up to 32GB	2 x DDR4-1866/2133 SO-DIMM, up to 32GB
Chipset	SoC integrated	SoC integrated	SoC integrated
TPM	TPM 2.0 (optional)	TPM 2.0 (optional)	TPM 2.0 (optional)
Serial	1 x Serial console or RS-232/422/485	1 x Serial console or RS-232/422/485	1 x Serial console or RS-232/422/485
CANBus	N/A	N/A	N/A
Display	1 x DVI-I (1 x VGA and 1 x DVI)	1 x DVI-I (1 x VGA and 1 x DVI)	1 x DVI-I (1 x VGA and 1 x DVI)
Audio	1 x Mic-in, 1 x Line-out	1 x Mic-in, 1 x Line-out	1 x Mic-in, 1 x Line-out
Ethernet	1 x RJ-45 10/100/1000 Mbps Ethernet	8 x M12 D-coded 10/100 Mbps Ethernet 2 x M12 A-coded 10/100/1000 Mbps Ethernet 1 x RJ-45 10/100/1000 Mbps Ethernet	1 x RJ-45 10/100/1000 Mbps Ethernet
USB	4 x USB 3.0	4 x USB 3.0	4 x USB 3.0
DIO	N/A	N/A	N/A
Expansion Interface	3 x Full-size PCI Express Mini Card slot 2 x SIM card slot 1 x Value-added module slot	3 x Full-size PCI Express Mini Card slot 2 x SIM card slot	3 x Full-size PCI Express Mini Card slot 2 x SIM card slot 2 x Value-added module slot
Storage	4 x Swappable 2.5" SATA drive 1 x mSATA (occupied 1 PCIe Mini card)	2 x Swappable 2.5" SATA drive 1 x mSATA (occupied 1 PCIe Mini card)	2 x Swappable 2.5" SATA drive 1 x mSATA (occupied 1 PCIe Mini card)
RAID function	Marvell HW RAID 0/1/10	Intel® RAID 0/1	Intel® RAID 0/1
Watchdog Timer	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.
Power Supply	Railway: 24 - 110 VDC (M12) Marine: 24 VDC (terminal block)	Railway: 24 - 110 VDC (M12)	Railway: 24 VDC (M12) Vehicle: 12/24 VDC (ACC ignition, terminal block) Marine: 24 VDC (terminal block)
Operating Temperature	-25°C to +70°C (-13°F to +158°F) with W.T. peripheral -25°C to +60°C (-13°F to +140°F) with PSU120 & W.T. peripheral	-40°C to +70°C (-40°F to +158°F) with W.T. peripheral -40°C to +60°C (-40°F to +140°F) with PSU120 & W.T. peripheral	-40°C to +70°C (-40°F to +158°F) with W.T. peripheral -40°C to +60°C (-40°F to +140°F) with PSU120 & W.T. peripheral
Mounting	Wall mount	Wall mount	Wall mount
Dimensions (W x D x H) without Mounting	321 x 210.2 x 105.33 mm (12.64" x 8.28" x 4.15")	321 x 210.2 x 73.3 mm (12.64" x 8.28" x 2.89")	321 x 210.2 x 73.3 mm (12.64" x 8.28" x 2.89")
Weight (net/gross)	5.5 kg (12.13 lb)/6.7 kg (14.77 lb)	3.5 kg (7.72 lb)/5.17 kg (11.40 lb)	3.5 kg (7.72 lb)/5.1 kg (11.24 lb)
Certifications	CE (Class A), LVD, FCC (Class A) and EN 50155 certified; EN 45545-2 and IEC 60945 compliant	CE (Class A), LVD and FCC (Class A) certified; EN 50155 and EN 45545-2 compliant	CE (Class A), LVD, FCC (Class A), EN 50155, EN 45545-2, and IEC 60945 certified; ISO 7637-2 compliant
EOS Support	Windows® 10 64-bit, Ubuntu 18.04	Windows® 10 64-bit, Ubuntu 18.04	Windows® 10 64-bit, Ubuntu 16.042.1
Software Support	AMS.AXView	AMS.AXView	AMS.AXView

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Features\Models	tBOX100-838-FL	tBOX810-838-FL	tBOX324-894-FL
CPU Level	Intel® Atom® E3845 4C @ 1.91 GHz	Intel® Atom® E3845 4C @ 1.91 GHz Intel® Atom® E3827 2C @ 1.75 GHz	Intel® Core™ i7-7600U 2.8 GHz/i7-6600U 2.6 GHz Intel® Core™ i5-7300U 2.4 GHz/i5-6300U 2.4 GHz Intel® Core™ i3-7100U 2.4 GHz/i3-6100U 2.3 GHz Intel® Celeron® 3965U 2.2 GHz/3955U 2.0 GHz
System Memory	DDR3L-1333 4GB DRAM	DDR3L-1333 4GB DRAM	2 x DDR4-1866/2133 SO-DIMM, up to 32GB
Chipset	SoC integrated	SoC integrated	SoC integrated
TPM	N/A	N/A	N/A
Serial	1 x Serial console or RS-232/422/485	2 x Serial console or RS-232/422/485	3 x Isolated RS-232/422/485
CANBus	N/A	N/A	1 x Isolated CANBus 2.0 A/B
Display	1 x VGA	1 x VGA	1 x DVI-I (1 x VGA and 1 x DVI) 1 x VGA
Audio	5 x BNC (4 x Video-in & 1 x Audio-in)	1 x Mic-in, 1 x Line-out, 1 x Line-in (optional, occupied 1 x PCIe Mini Card slot)	1 x Mic-in, 1 x Line-out
Ethernet	2 x 10/100/1000 Mbps Ethernet (M12 A-coded/RJ-45 optional)	2 x 10/100/1000 Mbps Ethernet (M12 A-coded/RJ-45 optional)	4 x 10/100/1000 Mbps Ethernet (M12 A-coded/RJ-45 optional)
USB	2 x USB 2.0	2 x USB 2.0	4 x USB 3.0
DIO	N/A	1 x 8-bit programmable DIO	1 x Isolated DIO 4-in/4-out
Expansion Interface	1 x Full-size PCI Express Mini Card slot 1 x SIM card slot	2 x Full-size PCI Express Mini Card slot 1 x SIM card slot	3 x Full-size PCI Express Mini Card slot 1 x SIM card slot
Storage	1 x 2.5" SATA HDD/SSD 1 x mSATA (occupied 1 PCIe Mini card)	1 x 2.5" SATA HDD/SSD 1 x mSATA (occupied 1 PCIe Mini card)	2 x Swappable 2.5" SATA HDD/SSD 1 x CFast™
RAID Function	N/A	N/A	Intel® RAID 0/1
Watchdog Timer	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.
Power Supply	Railway: 24 VDC (M12) Vehicle: 12/24 VDC (ACC ignition, terminal block)	Railway: 24 VDC (M12) Vehicle: 12/24 VDC (ACC ignition, terminal block) Marine: 24 VDC (terminal block)	Railway: 24 VDC (M12) Vehicle: 12/24 VDC (ACC ignition, terminal block) Marine: 24 VDC (terminal block)
Operating Temperature	-40°C to +60°C (-40°F to +140°F) with W.T. peripheral	-40°C to +70°C (-40°F to +158°F) with W.T. peripheral	-40°C to +70°C (-40°F to +158°F) with W.T. peripheral
Mounting	Wall mount DIN-rail	Wall mount DIN-rail	Wall mount
Dimensions (W x D x H) without Mounting	163.8 x 108 x 56.3 mm (6.44" x 4.25" x 2.22")	164.1 x 108 x 44 mm (6.46" x 4.25" x 1.73")	288.5 x 211.3 x 85.75 mm (11.36" x 8.32" x 3.38")
Weight (net/gross)	0.77 kg (1.70 lb)/1.44 kg (3.17 lb)	0.77 kg (1.70 lb)/2 kg (4.41 lb)	5 kg (11.02 lb)/6.65 kg (14.66 lb)
Certifications	CE (Class A), FCC (Class A), EN 50155, EN 45545-2, IEC 60945 and ISO 7637-2 compliant	CE (Class A), FCC (Class A), EN 50155, EN 45545-2, E-Mark, DNV 2.4 and IEC 60945 certified	CE (Class A), LVD, FCC (Class A), EN 50155, EN 45545-2, E-Mark, IEC 60945 and DNV 2.4 certified
EOS Support	Windows® 10, WE8S, WES 7, VxWorks7, Ubuntu 16.10	Windows® 10 64-bit, WE8S, WES 7, VxWorks7, Ubuntu 15.10	Windows® 10 64-bit, Ubuntu 18.04
Software Support	AMS.AXView	AMS.AXView	AMS.AXView

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Transportation Embedded Systems & Switch

Selection Guide







Features\Models	UST100-504-FL	UST500-517-FL	Agent336
CPU Level	7th gen Intel® Kaby Lake 35W (socket type) 6th gen Intel® Skylake 35W (socket type)	7th gen Intel® Kaby Lake 35 - 65W (socket type) 6th gen Intel® Skylake 35 - 65W (socket type)	NXP i.MX 8M Arm® Cortex®-A53, QUAD/QuadLite 1.3GHz
System Memory	1 x DDR4-1866/2133/2400 SO-DIMM, up to 16GB	2 x DDR4-1866/2133/2400, up to 32GB	1 x LPDDR4 3GB onboard
Chipset	Intel® H110	Intel® Q170	SoC integrated
TPM	TPM 2.0	TPM 2.0 (optional)	N/A
Serial	1 x DB9 Serial console or RS-232/422/485 (optional)	2 x Serial console or RS-232/422/485	2 x RS-232/422/485 (selected by software)
CANBus	N/A	N/A	1 x Isolated CANBus B
Display	1 x HDMI 1.4b	1 x VGA, 1 x DVI-D, 1 x HDMI	1 x HDMI
Audio	1 x Mic-in, 1 x Line-out (optional)	1 x Mic-in, 1 x Line-out	N/A
Ethernet	2 x RJ-45 10/100/1000 Mbps Ethernet (Intel® i211-IT)	8 x RJ-45 GbE LAN (with 2 SATA) 16 x RJ-45 GbE LAN (with 4 SATA or 2 SATA) 8 x RJ-45, 8 x M12 A-coded GbE LAN (with 4 SATA) 8 x M12 A-coded GbE LAN (with 4 SATA) (Intel® i211-AT)	1 x 10/100/1000 Mbps (isolation 1.5 kV)
USB	4 x USB 3.0	4 x USB 3.0	2 x USB 3.0 Type A
DIO	1 x 4-in/4-out programmable DIO (optional)	1 x Isolated DIO 6-in/2-out	1 x Isolated DIO 2-in/2-out (TB 2 x 4P)
Expansion Interface	2 x Full-size Rev.1.2 PCI Express Mini Card slot 1 x Half-size Rev.1.2 PCI Express Mini Card slot:	2 x Full-size PCI Express Mini Card slot 2 x Half-size PCI Express Mini Card slot 2 x External accessible SIM card slot	1 x PCIe Mini Card socket (USB & PCIe interface) 1 x PCIe Mini Card socket with 1 SIM socket (USB & PCIe interface)
Storage	1 x Internal 2.5" SATA drive 1 x Full-sized mSATA (occupied PCIe Mini card) 1 x Half-sized mSATA (occupied PCIe Mini card)	2 x 2.5" internal SATA drive (with 2 SATA) 2 x 2.5" swappable SATA drive (with 2 SATA) 4 x 2.5" swappable SATA drive (with 4 SATA) 1 x mSATA (occupied 1 PCIe Mini card)	1 x eMMC 8GB onboard 1 x Micro SD card socket
RAID function	N/A	Intel® RAID 0/1/5/10	N/A
Watchdog Timer	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.	256 levels, 0 to 128 sec.
Power Supply	24 VDC (ACC ignition, terminal block)	24 VDC (ACC ignition, terminal block)	9 to 36 VDC (ACC ignition)
Operating Temperature	-40°C to +60°C (-40°F to +140°F) with W.T. peripheral	-40°C to +70°C (-40°F to +158°F) with W.T. peripheral	-40°C to +70°C (-40°F to +158°F)
Mounting	Wall mount	Wall mount	Wall mount
Dimensions (W x D x H) without Mounting	185 x 150 x 65.15 mm (7.09" x 5.91" x 2.56")	2 internal SATA SKU: 280 x 210.5 x 70 mm (11.02" x 8.27" x 2.76") 2 swappable SATA SKU: 280 x 210.5 x 83.7 mm (11.02" x 8.27" x 3.30") 4 swappable SATA SKU: 280 x 210.5 x 99.2 mm (11.02" x 8.27" x 3.91")	163.8 x 118 x 44 mm (6.4" x 4.6" x 1.7")
Weight (net/gross)	1.71 kg (3.77 lb)/2.19 kg (4.83 lb)	2 internal SATA SKU: 3.95 kg (8.71 lb)/4.97 kg (10.96 lb) 2 swappable SATA SKU: 4.92 kg (10.85 lb)/5.75 kg (12.68 lb) 4 swappable SATA SKU: 4.92 kg (10.85 lb)/5.74 kg (12.65 lb)	1.0 kg (2.2 lb)/1.20 kg (1.10 lb)
Certifications	CE, FCC certified; and ISO 7637-2 compliant	CE (Class A), FCC (Class A) certified; EN 50155, ISO 7637-2 compliant	CE Class A, E-Mark
EOS Support	Windows® 10 64-bit, Windows® 7 64-bit, Ubuntu 18.04	Windows® 10 64-bit, Windows® 7 64/32-bit (for 6th gen Intel CPU)	Yocto Linux, Kernel L4.9.51, Android O8.1.0 (Linux Kernel 4.9.78)
Software Support	AMS.AXView	AMS.AXView	N/A

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Certification Guide

V:Certified △: Compliant






Features\Models		tBOX300-510-FL	tBOX400-510-FL	tBOX500-510-FL	tBOX324-894
IP Rating		△ (IP30)	△ (IP30)	△ (IP30)	△ (IP30)
CE		V	V	V	V
LVD		V	V	V	V
FCC		V	V	V	V
Railway	**EN 50155**	V	△	V	V
	EN 50121-3-2	V	△	V	V
	IEC 62236-3-2	V	△	V	V
	EN 61373	V	△	V	V
	EN 45545-2**	△	△	V	V
Marine	**DNV 2.4**				V
	IEC 60945	△		V	V
	IEC 61000-4	△		V	V
	CISPR 16-1	△		V	V
	IEC 60068-2	△		V	V
Vehicle	**E-Mark (ECE-R10)**			△ (ISO 7637-2)	V (E24)

V:Certified △: Compliant







Features\Models		tBOX100-838-FL	tBOX810-838	UST100-504-FL	UST500-517-FL	TEN710MW/UW
IP Rating		△ (IP30)	V (IP40)	△ (IP30)	△ (up to IP40)***	△ (IP54)
CE		△	V	V	V	V
LVD						
FCC		△	V	V	V	V
Railway	**EN 50155**	△	V		△	V
	EN 50121-3-2	△	V		△	V
	IEC 62236-3-2	△	V		△	V
	EN 61373	△	V		△	V
	EN 45545-2**	△	V			V
Marine	**DNV 2.4**		V			
	IEC 60945	△	V			
	IEC 61000-4	△	V			
	CISPR 16-1	△	V			
	IEC 60068-2	△	V			
Vehicle	**E-Mark (ECE-R10)**	△ (ISO 7637-2)	V (E13)	△ (ISO 7637-2)	△ (ISO 7637-2)	

*Please refer to system datasheets and getting more certification standards info.
**For EN45545-2, test report is available exclusively.
***Please check datasheet for more detail.

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tBOX300-510-FL

Fanless Embedded System with 7th Gen Intel® Core™ i7/i5/i3 & Celeron® Processor for Railway and Marine PC

Features

- CE, LVD, FCC and EN 50155 certified; EN 45545-2 and IEC 60945 compliant
- 7th gen Intel® Core™ i7/i5/i3 & Celeron® processors (Kaby Lake)
- Fanless and wide operating temperatures from -25°C to +70°C
- Power Input:
  24 to 110 VDC for railway version
  24 VDC for marine version
- External PoE PSU (optional), up to 60W power supply
- Value-added modules available for various I/O requirements (COM/LAN/DIO/PoE/CAN/BNC)
- 4 swappable 2.5" SATA drives, Supports Marvell Hardware RAID 0/1/10



▲ Front view



▲ Rear view

Fanless | Ext. Temp | DDR4 | EN 50155 | IEC 60945 | EN 45545-2 | AMS.AXView

Specifications

Standard Color	Silver	
Construction	Aluminum extrusion and heavy-duty steel, IP30	
CPU	Intel® Core™ i7-7600U 2C @2.8 GHz TDP: 15W Intel® Core™ i5-7300U 2C @2.6 GHz TDP: 15W Intel® Core™ i3-7100U 2C @2.4 GHz TDP: 15W Intel® Celeron® 3965U 2C @2.2 GHz TDP: 15W	
Chipset	SoC integrated	
System Memory	2 x DDR4-1866/2133 SO-DIMM, up to 32GB	
BIOS	AMI	
TPM	TPM 2.0 (optional)	
System I/O Outlet	Serial	1 x DB9 serial console or RS-232/422/485
	Display	1 x DVI-I (up to 1920 x1200 @60Hz, 1 x VGA and 1 x DVI included)
	Audio	1 x Mic-in, 1 x Line-out
	Ethernet	1 x RJ-45 10/100/1000 Mbps Ethernet (Intel® i210-IT)
	USB	4 x USB 3.0
	Others	1 x Reset button 1 x Remote switch 4 x Antenna opening
Expansion Interface	3 x Full-size Rev.1.2 PCI Express Mini Card slot: • 1 x mSATA/PCIe • 2 x USB/PCIe with SIM socket 1 x Value-added module slot	
Storage	SATA Drive	4 x Swappable 2.5" SATA drive (9.5 mm height), Marvell HW RAID 0/1/10 supported
	mSATA	1 x mSATA (occupied 1 x PCI Express Mini Card slot)
Watchdog Timer	255 levels, 1 to 255 sec.	
Power	Power Supply	Railway: 1 x M12, 24 to 110 VDC Marine: 1 x terminal block, 24 VDC
	Power Consumption	24V - 110V, 3.5A - 0.7A
PoE (PSE, Power Sourcing Equipment)	PoE Power Source	1 x Terminal block PoE power-in with PSU120-259 (optional, see Ordering info)
	PoE Performance	Up to 4 x configurable M12/RJ-45 PoE output max. 60W supports PoE & PoE+ • PoE (802.3af 15.4W/port) • PoE+ (802.3at 30W/port) To be used with VAM PoE series and PSU120-259 series (optional, see Ordering info)

System Indicator	1 x LED indicator for mSATA activity 1 x LED indicator for power 4 x LED indicator for SATA drive activity 2 x programmable	
Operating Temperature	-25°C to +70°C (-13°F to +158°F) with W.T. peripheral* -25°C to +60°C (-13°F to +140°F) with external PoE PSU & W.T. peripheral	
Humidity	0% to 95%, non-condensing	
Dimensions	321 mm (12.64") (W) x 210.2 mm (8.28") (D) x 105.33 mm (4.15") (H) (without wall mount)	
Mounting	Wall mount	
Weight (net/gross)	5.5 kg (12.13 lb)/6.7 kg (14.77 lb)	
Certifications	CE (Class A), LVD, FCC (Class A) and EN 50155 certified; EN 45545-2 and IEC 60945 compliant	
EMC	CE/FCC	EN 61000-6-4 (Class A), EN 61000-6-2, FCC Part 15 B (Class A)
	EN 50155	EN 50121-3-2, IEC 62236-3-2
	IEC 60945	IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, CISPR 16-1-1, CISPR 16-1-2, CISPR 16-1-4
LVD	EN 60950-1	
Vibration Endurance	3 Grms w/ SSD (5 to 500Hz, X/Y/Z direction; random, operating) 1 Grms w/ HDD (5 to 500Hz, X/Y/Z direction; random, operating) 2 Grms w/ HDD & Anti-Vibration Kit (5 to 500Hz, X/Y/Z direction; random, operating) MIL-STD-810G, Method 514.6C-VL Category 4 compliant	
	EN 50155	EN (IEC) 61373 category 1 class B
	IEC 60945	IEC 60068-2-6
Shock	EN 50155	EN (IEC) 61373 category 1 class B, half-sine pulse, 5g, 30ms (longitudinal direction), 3g, 30ms (vertical/transverse direction)
EOS Support	Windows® 10 64-bit, Ubuntu 18.04	
Software Support	AMS.AXView	

*Wide Temperature. All W.T. supported products have to be sorted by Axiomtek.

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Ordering Information

System	
tBOX300-510-FL-Celeron®/i3/ i5/i7-24-110MRDC (P/N: E26N300100) for i7-7600U (P/N: E26N300101) for i5-7300U (P/N: E26N300102) for i3-7100U (P/N: E26N300103) for 3965U	Fanless railway embedded system, Intel® Celeron® 3965U/Core™ i3-7100U/i5-7300U/ i7-7600U processor, 4 USB 3.0, DVI-I, LAN, serial console or RS-232/422/485, Mic-in & Line-out, four 2.5" SATA trays, M12 A-code DC-in, and 24 to 110 VDC
tBOX300-510-FL-Celeron®/i3/ i5/i7-TMDC (By request)	Fanless marine embedded system, Intel® Celeron® 3965U/Core™ i3-7100U/i5-7300U/ i7-7600U processor, 4 USB 3.0, DVI-I, LAN, serial console or RS-232/422/485, Mic-in & Line-out, four 2.5" SATA trays, terminal block DC-in, and 14 to 32 VDC

*MRDC: M12 DC-in connector, railway SKU, DC voltage input
*TMDC: Terminal block DC-in connector, marine SKU, DC voltage input

Value-Added Modules (VAMs) & PSU120-259

VAM100 (P/N: E277100100)	4 x Terminal block 4-wire isolated RS-232/422/485 COM Isolation voltage: 2 kV
VAM101 (P/N: E277101100)	4 x Terminal block isolated CANBus 2.0A/B Isolation voltage: 2 kV
VAM200 (P/N: E277200100)	1 x Terminal block isolated DIO 8-in/8-out Isolation voltage: 2 kV
VAM400 (P/N: E277400100)	4 x BNC video-in & 1 x BNC audio-in • Supports FPS: NTSC/PAL (up to 120fps @960/720 x 480/100fps @960/720 x 576), H.264 video recording 2 x Full size Rev. 1.2 PCI Express Mini Card slot • 1 x USB with SIM socket • 1 x USB/PCIe with SIM socket (occupied by 1 x Capture Card)
VAM600 (P/N: E277600100)	2 x Full size Rev. 1.2 PCI Express Mini card slot • 1 x USB/PCIe with SIM socket • 1 x USB with SIM socket 4 x Antenna opening
VAM700/VAM701 (P/N: E277700100/E277701100) VAM702/VAM703 (P/N: E277702100/E277703100) VAM704/VAM705 (P/N: E277704100/E277705100) VAM706/VAM707 (P/N: E277706100/E277707100)	VAM700/701 (PoE): 4 x M12 A-code GbE (PoE optional*) VAM702/703 (PoE): 4 x RJ45 GbE (PoE optional*) VAM704/705 (PoE): 4 x M12 D-code 10/100 Mbps Ethernet (PoE optional*) VAM706/707 (PoE): 4 x M12 X-code GbE (PoE optional*) *PSU120-259 is required if select VAM701/703/705/707
VAM900 P/N: E277900100	2 x Full-size Rev.1.2 PCI Express Mini Card slot • 2 x USB with SIM socket 1 x Half-size Rev.1.2 PCI Express Mini Card slot • 1 x PCIe 1 x Terminal block 4-wire isolated RS-232/422/485 COM (isolation Voltage: 2 kV) 1 x Terminal block isolated CANBus 2.0A/B (isolation Voltage: 2 kV) 1 x Terminal block isolated DIO 8-in/8-out (isolation Voltage: 1.5 kV)
PSU120-259 series Railway-24VDC (P/N: E276120101) Railway-48VDC (P/N: E276120102) Railway-96/110VDC (P/N: E276120103)	Fanless IEC 60945 certified/EN 50155 compliant DC-DC adapter • Support 24/48/96/110V-in • Power output max. 120W • 40°C to +60°C (-40°F to +140°F)

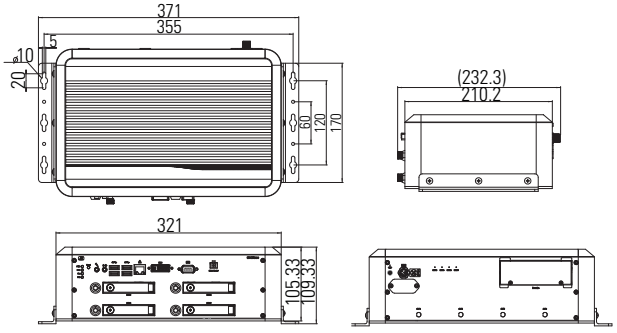
Optional		
Anti-vibration Kit (P/N: 8816N5008A0E)	For in-vehicle/rolling stock which improves HDD stability in NVR applications	
Communication Modules	8816N3239A0E	3G UC20GKit for tBOX/UST (3G ANT) (E)
	8816N3235A0E	3G/GPS UC20GKit tBOX/UST (3G/GPS ANT) (E)
	8816N5003A0E	AP12356 WT Wi-Fi kit for tBOX/UST SFP (E)
	8816N5002A0E	LTE MC7455(US) kit for tBOX/UST SFP (E)
	8816N5000A0E	LTE SIM7100JC kit for tBOX, JPN SFP (E)
	8816N5006A0E	LTE+GPS SIM7100 (JPE) kit tBOX (30) SFP (E)
	88160620BA0E	LTE SIMCOM SIM7100 (EU) for tBOX/UST SFP (E)
	881745000A0E	LTE+GPS SIM7100EU kit for tBOX/UST SFP (E)
	8816N5004A0E	LTE+GPS SIM7100C (TW) kit tBOX (30) SFP (E)
AC to DC Adapter	50966224010E	Aadpter 24V 90W, M12 A-code 5P FSP090AAAN3

*Specifications and certifications may vary based on different requirements.

Power Protection

OCP (over current protection)
OVP (over voltage protection)
UVP (under voltage protection)
RPP (reverse polarity protection)

Dimensions



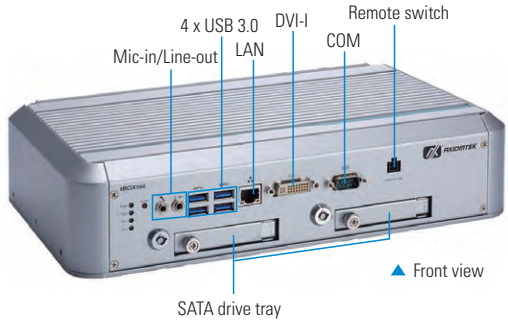
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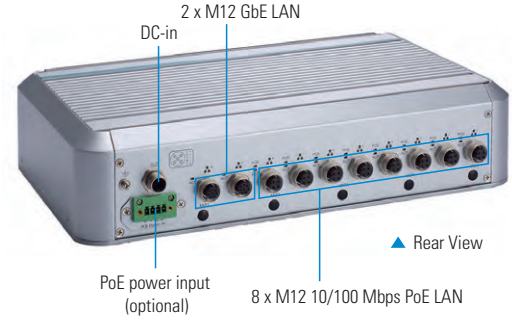
tBOX400-510-FL NEW

Fanless Embedded System with 7th Gen Intel® Core™ i7/i5/i3 & Celeron® Processors, Built-in Layer 2 Managed PoE Switch for Railway PC

Features

- CE, LVD and FCC certified; EN 50155 and EN 45545-2 compliant
- 7th gen Intel® Core™ i7/i5/i3 & Celeron® processors (Kaby Lake)
- Fanless and wide operating temperature from -40°C to 70°C
- Power supply: 24 to 110 VDC for Railway version
- Built-in layer 2 managed PoE switch
- PoE power budget up to 120W by 8 ports
- Optimized network performance with QoS, VLAN and PoE scheduling, etc.





Fanless | Ext. Temp | DDR4 | Compliant EN 50155 | Compliant EN 45545-2 | AMS.AXView

Specifications

Standard Color	Silver	
Construction	Aluminum extrusion and heavy-duty steel, IP30	
CPU	Intel® Core™ i7-7600U 2C @2.8 GHz TDP: 15W Intel® Core™ i5-7300U 2C @2.6 GHz TDP: 15W Intel® Core™ i3-7100U 2C @2.4 GHz TDP: 15W Intel® Celeron® 3965U 2C @2.2 GHz TDP: 15W	
Chipset	SoC integrated	
System Memory	2 x DDR4-1866/2133 SO-DIMM slot, up to 32G	
BIOS	AMI	
TPM	TPM 2.0 (optional)	
System I/O Outlet	Serial	1 x DB9 serial console or RS-232/422/485
	Display	1 x DVI-I (up to 1920 x1200 @60Hz,1 x VGA and 1 x DVI included)
	Audio	1 x Mic-in, 1 x Line-out
	Ethernet	8 x M12 D-coded 10/100 Mbps Ethernet 2 x M12 A-coded 10/100/1000 Mbps Ethernet 1 x RJ-45 10/100/1000 Mbps Ethernet (Intel® i210-IT)
	USB	4 x USB 3.0
	Others	1 x Reset button 1 x Remote switch 5 x Antenna opening
Expansion Interface	3 x Full-size Rev.1.2 PCI Express Mini Card slot: • 1 x mSATA/PCIe • 2 x USB/PCIe with SIM socket	
Storage	SATA Drive	2 x Swappable 2.5" SATA drive (9.5 mm height), Intel® RAID 0/1 supported
	mSATA	1 x mSATA (occupied 1 x PCI Express Mini Card slot)
Watchdog Timer	255 levels, 1 to 255 sec.	
Power	Power Supply	Railway: 1 x M12, 24 to 110 VDC
	Power Consumption	24V - 110V, 3.5A - 0.7A

PoE (PSE, Power Sourcing Equipment)	PoE Power Source	1 x M12 PoE power-in with PSU120-259 (optional, see ordering info)
	PoE Performance (Layer 2 Managed PoE Switch)	Broadcom processor onboard 8 x configurable M12 D-coded PoE output max. 120W supports PoE & PoE+ • PoE (802.3af 15.4W/port) • PoE+ (802.3at 30W/port) To be used with PSU120-259 series (optional, see ordering info)
System Indicator	1 x LED indicator for SATA drive activity 1 x LED indicator for power 2 x Programmable	
Operating Temperature	-40°C to +70°C (-40°F to +158°F) with W.T. peripheral* -40°C to +60°C (-40°F to +140°F) with external PoE PSU & W.T. peripheral*	
Humidity	0% to 95%, non-condensing	
Dimensions	321 mm (12.64") (W) x 210.2 mm (8.28") (D) x 73.3 mm (2.89") (H) (without wall mount)	
Mounting	Wall mount	
Weight (net/gross)	3.5 kg (7.72 lb)/5.17 kg (11.40 lb)	
Certifications	CE (Class A), LVD and FCC (Class A) certified; EN 50155 and EN 45545-2 compliant	
EMC	CE/FCC	EN 61000-6-4 (Class A), EN 61000-6-2, FCC part 15 B (Class A)
	EN 50155	EN 50121-3-2, IEC 62236-3-2
LVD	EN 62368-1	
Vibration Endurance	3 Grms w/ SSD (5 to 500Hz, X/Y/Z direction; random, operating) 2 Grms w/ HDD & Anti-Vibration Kit (5 to 500Hz, X/Y/Z direction; random, operating) MIL-STD-810G, Method 514.6C-VL Category 4 compliant	
	EN 50155	EN (IEC) 61373 category 1 class B
Shock	EN 50155	EN (IEC) 61373 category 1 class B, half-sine pulse, 5g, 30ms (longitudinal direction), 3g, 30ms (vertical/transverse direction)
EOS Support	Windows® 10 64-bit, Ubuntu 18.04	
Software Support	AMS.AXView	

*Wide Temperature. All W.T. supported products have to be sorted by Axiomtek.

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Ethernet Software Features

Management	Interface: CLI, Telnet and Web Browser, SNMP v1/v2c/v3 Firmware and configuration upgrade and backup via TFTP Supports DHCP Server/Client RMON (Remote monitoring): group 1, 2, 3, 9 Port mirroring: TX/RX and both NTP (Network Time Protocol) time synchronization IEEE 802.1ab LLDP (Link Layer Discovery Protocol)
Security	MAC address filtering Enable/disable port Storm control (broadcast and multicast types) IEEE 802.1x LAN access control Remote authentication through RADIUS SSH for CLI and Telnet security SSL for web security System log (remote/local) ACL
Quality of Service (QoS)	Priority Queues: 4 queues per port Traffic classification based on IEEE 802.1p CoS, DSCP, WRR (weighted round robin) and strict mode Rate Limiting (ingress/egress)
Network Redundant	IEEE 802.1D Spanning Tree Protocol (STP) IEEE 802.1w Rapid Spanning Tree Protocol (RSTP) IEEE 802.1s Multiple Spanning Tree Protocol (MSTP) EtherWAN's Alpha-Ring network fault recovery (<15ms)
Software	Auto-negotiation for port speed and duplex mode: Flow Control IEEE 802.3x full duplex mode Back-Pressure half duplex mode VLANs: IEEE 802.1Q Tag VLANs (128 groups, 4096 VID) GVRP (GARP VLAN Registration Protocol) GMRP (GARP Multicast Registration Protocol) Link Aggregation: Static Trunk (4 groups, support MAC base) IEEE 802.3ad Link Aggregation Control Protocol IGMP Snooping: IGMP snooping v1/v2/v3

Ordering Information

System

tBOX400-510-FL-Celeron/i3/i5/i7-24-110MRDC (P/N: E26N400100) for i7-7600U (P/N: E26N400101) for i5-7300U (P/N: E26N400102) for i3-7100U (P/N: E26N400103) for 3965U	Fanless railway embedded system, layer 2 managed PoE switch, Intel® Celeron® 3965U/Core™ i3-7100U/ i5-7300U/ i7-7600U processor, 4 USB 3.0, DVI-I, LAN, serial console or RS-232/422/485, Mic-in & Line-out, two 2.5" SATA trays, M12 A-code DC-in, and 24 to 110 VDC

*MRDC: M12 DC-IN connector, Railway SKU, DC voltage input

PSU120-259

Railway-24VDC (P/N: E276120105) Railway-48VDC (P/N: E276120106) Railway-96/110VDC (P/N: E276120107)	Fanless IEC 60945 certified/EN 50155 compliant DC-DC adapter • Supports 24/48/96/110V-in • Power output max. 120W • -40°C to +60°C (-40°F to +140°F) • For tBOX400



Optional

Anti-vibration Kit (P/N: 8816N5008A0E)	For in-vehicle/rolling stock which improves HDD stability in NVR applications	
Communication Modules	8816N3239A0E	3G UC20GKit for tBOX/UST (3G ANT) (E)
	8816N3235A0E	3G/GPS UC20GKit tBOX/UST (3G/GPS ANT) (E)
	8816N5003A0E	AP12356 WT Wi-Fi kit for tBOX/UST SFP (E)
	8816N5002A0E	LTE MC7455(US) kit for tBOX/UST SFP (E)
	8816N5000A0E	LTE SIM7100JC kit for tBOX, JPN SFP (E)
	8816N5006A0E	LTE+GPS SIM7100 (JPE) kit tBOX (30) SFP (E)
	88160620BA0E	LTE SIMCOM SIM7100 (EU) for tBOX/UST SFP (E)
	881745000A0E	LTE+GPS SIM7100EU kit for tBOX/UST SFP (E)
	8816N5004A0E	LTE+GPS SIM7100C (TW) kit tBOX (30) SFP (E)
AC to DC Adapter	50966224010E	Adapter 24V 90W, M12 A-code 5P FSP090AAAN3

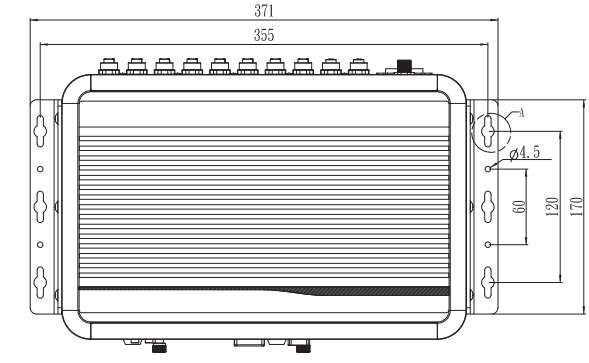


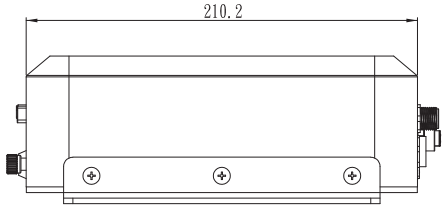
*Specifications and certifications may vary based on different requirements.

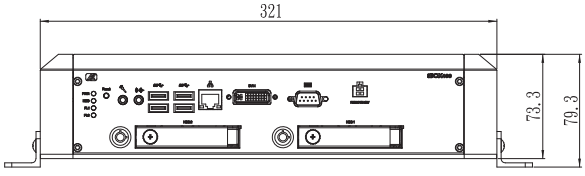
Power Protection

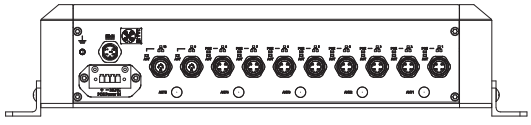
SCP (short circuit protection)
OVP (over voltage protection)
UVP (under voltage protection)
RVP (reverse voltage protection)

Dimensions









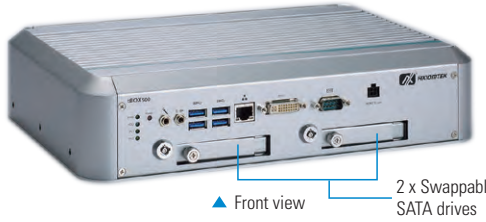
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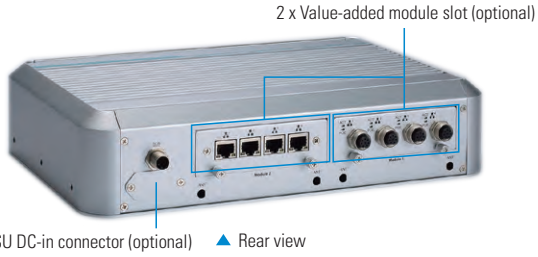
tBOX500-510-FL

Fanless Embedded System with 7th Gen Intel® Core™ i7/i5/i3 & Celeron® Processor for Railway, Vehicle and Marine PC

Features

- CE, LVD, FCC, EN 50155, EN 45545-2, and IEC 60945 certified; ISO 7637-2 compliant
- 7th gen Intel® Core™ i7/i5/i3 or Celeron® processor (Kaby Lake)
- Power supply:
  24 to 110 VDC for Railway version
  12/24 VDC for Vehicle version
  24 VDC for Marine version
- External PoE PSU (optional), up to 120W power supply
- Value-added modules available for various I/O requirements (COM/LAN/DIO/PoE/CAN/BNC)
- Intelligent solution of vehicle power management (ACC ignition)
- 2 swappable 2.5" SATA drives





Fanless | Ext. Temp | DDR4 | EN 50155 | ISO 7637-2 | IEC 60945 | EN 45545-2 | AMS.AXView

Specifications

Standard Color	Silver	
Construction	Aluminum extrusion and heavy-duty steel, IP30	
CPU	Intel® Core™ i7-7600U 2C@2.8 GHz, TDP: 15W Intel® Core™ i5-7300U 2C@2.6 GHz, TDP: 15W Intel® Core™ i3-7100U 2C@2.4 GHz, TDP: 15W Intel® Celeron® 3965U 2C@2.2 GHz, TDP: 15W	
Chipset	SoC integrated	
System Memory	2 x DDR4-1866/2133 SO-DIMM, up to 32GB	
BIOS	AMI	
TPM	TPM 2.0 (optional)	
System I/O Outlets	Serial	1 x DB9 serial console or RS-232/422/485
	Display	1 x DVI-I (up to 1920 x1200 @60Hz, 1 x VGA & 1 x DVI included)
	Audio	1 x Mic-in, 1 x Line-out
	Ethernet	1 x RJ-45 10/100/1000 Mbps Ethernet (Intel® i210-IT)
	USB	4 x USB 3.0
	Others	1 x Reset button 1 x Remote switch 4 x Antenna opening
Expansion Interface	3 x Full-size Rev.1.2 PCI Express Mini Card slot • 1 x mSATA/PCIe • 2 x USB/PCIe with SIM socket 2 x Value-added module slot	
Storage	SATA Drive	2 x Swappable 2.5" SATA drive (9.5 mm height), Intel® RAID 0/1 supported
	mSATA	1 x mSATA (occupied 1 x PCI Express Mini Card slot)
Watchdog Timer	255 levels, 1 to 255 sec.	
Power	Power Supply	Railway: 1 x M12, 24 to 110 VDC Vehicle: 1 x terminal block, 12/24 VDC with ACC ignition Marine: 1 x terminal block, 24 VDC
	Power Consumption	24V - 110V, 3A - 0.6A
PoE (PSE, Power Sourcing Equipment)	PoE Power Source	1 x Terminal block PoE power-in with PSU120-259 (optional, see ordering info)
	PoE Performance	Up to 8 x configurable M12/RJ-45 PoE output max. 120W supports PoE & PoE+ • PoE (802.3af 15.4W/port) • PoE+ (802.3at 30W/port) To be used with VAM PoE and PSU120-259 series (optional, see ordering info)

System Indicator	1 x LED indicator for power 1 x LED indicator for SATA drive activity 2 x Programmable	
Operating Temperature	-40°C to +70°C (-104°F to +158°F) with W.T. peripheral* -40°C to +60°C (-104°F to +140°F) with external PoE PSU & W.T. peripheral	
Humidity	0% to 95%, non-condensing	
Dimensions	321 mm (12.64") (W) x 210.2 mm (8.28") (D) x 73.3 mm (2.89") (H) (without wall mount)	
Mounting	Wall mount	
Weight	3.5 kg (7.72 lb)/5.1 kg (11.24 lb)	
Certifications	CE (Class A), LVD, FCC (Class A), EN 50155, EN 45545-2**, and IEC 60945 certified; ISO 7637-2 compliant	
EMC	CE/FCC	EN 61000-6-4 (Class A), EN 61000-6-2, FCC part 15 B (Class A)
	EN 50155	EN 50121-3-2, IEC 62236-3-2
	IEC 60945	IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, CISPR 16-1-1, CISPR 16-1-2, CISPR 16-1-4
LVD	EN 60950-1	
Vibration Endurance	3 Grms w/ SSD (5 to 500Hz, X/Y/Z direction; random, operating) 1.5 Grms w/ HDD (5 to 500Hz, X/Y/Z direction; random, operating) 2 Grms w/ HDD & Anti-Vibration Kit (5 to 500Hz, X/Y/Z direction; random, operating) MIL-STD-810G, Method 514.6C-VL Category 4 compliant	
	EN 50155	EN 61373 category 1 class B
	IEC 60945	IEC 60068-2-6
Shock	EN 50155	EN(IEC) 61373 category 1 class B, half-sine pulse, 5g, 30ms (longitudinal direction), 3g, 30ms (vertical/transverse direction)
EOS Support	Windows® 10 64-bit, Ubuntu 16.04	
Software Support	AMS.AXView	

*Wide Temperature. All W.T. supported products have to be sorted by Axiomtek.
**For EN45545-2, test report is available exclusively

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Ordering Information

System	
tBOX500-510-FL-Celeron/i3/i5/ i7-24-110MRDC (P/N: E26N500100) for i7-7600U (P/N: E26N500101) for i5-7300U (P/N: E26N500102) for i3-7100U (P/N: E26N500103) for 3965U	Fanless railway embedded system, Intel® Celeron® 3965U/Core™ i3-7100U/i5-7300U/ i7-7600U processor, 4 USB 3.0, DVI-I, LAN, serial console or RS-232/422/485, Mic-in & Line-out, two 2.5" SATA trays, M12 A-code DC-in, and 24 to 110 VDC
tBOX500-510-FL-Celeron/i3/i5/ i7-TVDC (P/N: E26N500104) for i7-7600U (P/N: E26N500105) for i5-7300U (P/N: E26N500106) for i3-7100U (P/N: E26N500107) for 3965U	Fanless vehicle embedded system, Intel® Celeron® 3965U/Core™ i3-7100U/i5-7300U/ i7-7600U processor, 4 USB 3.0, DVI-I, LAN, serial console or RS-232/422/485, Mic-in & Line-out, two 2.5" SATA trays, terminal block DC-in, and ACC ignition *Not supporting PoE function
tBOX500-510-FL-Celeron/i3/i5/ i7-TMDC (P/N: E26N500108) for i7-7600U (P/N: E26N500109) for i5-7300U (P/N: E26N500110) for i3-7100U (P/N: E26N500111) for 3965U	Fanless marine embedded system, Intel® Celeron®3965U/Core™ i3-7100U/i5-7300U/ i7-7600U processor, 4 USB 3.0, DVI-I, LAN, serial console or RS-232/422/485, Mic-in & Line-out, two 2.5" SATA trays, and terminal block DC-in

*MRDC: M12 DC-in connector, railway SKU, DC voltage input
*TVDC: Terminal block DC-in connector, vehicle SKU, DC voltage input
*TMDC: Terminal block DC-in connector, marine SKU, DC voltage input

Value-Added Modules (VAMs) & PSU120-259	
VAM100 (P/N: E277100100)	4 x Terminal block 4-wire isolated RS-232/422/485 COM Isolation voltage: 2 kV
VAM101 (P/N: E277101100)	4 x Terminal block isolated CANbus 2.0A/B Isolation voltage: 2 kV
VAM200 (P/N: E277200100)	1 x Terminal block isolated DIO 8-in/8-out Isolation voltage: 2 kV
VAM400 (P/N: E277400100)	4 x BNC video-in & 1 x BNC audio-in • Supports FPS: NTSC/PAL (up to 120fps @960/720 x 480 / 100fps @960/720 x 576), H.264 video recording 2 x Full size Rev. 1.2 PCI Express Mini Card slot • 1 x USB with SIM socket • 1 x USB/PCIe with SIM socket (occupied by 1 x Capture Card)
VAM600 (P/N: E277600100)	2 x Full size Rev. 1.2 PCI Express Mini Card slot • 1 x USB/PCIe with SIM socket • 1 x USB with SIM socket 4 x Antenna opening
VAM700/VAM701 (P/N: E277700100/E277701100) VAM702/VAM703 (P/N: E277702100/E277703100) VAM704/VAM705 (P/N: E277704100/E277705100) VAM706/VAM707 (P/N: E277706100/E277707100)	VAM700/701(PoE): 4 x M12 A-code GbE (PoE optional*) VAM702/703(PoE): 4 x RJ-45 GbE (PoE optional*) VAM704/705(PoE): 4 x M12 D-code 10/100 Mbps Ethernet (PoE optional*) VAM706/707(PoE): 4 x M12 X-code GbE (PoE optional*) *PSU120-259 is required if select VAM701/703/705/707
VAM900 (P/N: E277900100)	2 x Full-size Rev.1.2 PCI Express Mini Card slot • 2 x USB with SIM socket 1 x Half-size Rev.1.2 PCI Express Mini Card slot • 1 x PCIe 1 x Terminal block 4-wire isolated RS-232/422/485 COM (isolation Voltage: 2 kV) 1 x Terminal block isolated CANBus 2.0A/B (isolation Voltage: 2 kV) 1 x Terminal block isolated DIO 8-in/8-out (isolation Voltage: 1.5 kV)

PSU120-259 series Railway-24VDC (P/N: E276120101) Railway-48VDC (P/N: E276120102) Railway-96/110VDC (P/N: E276120103) Marine-24VDC (P/N: E276120104)	Fanless IEC 60945 certified/EN 50155 compliant DC-DC adapter • Supports 24/48/96/110V-in • Power output max. 120W • -40°C to +60°C (-40°F to +140°F)

Optional

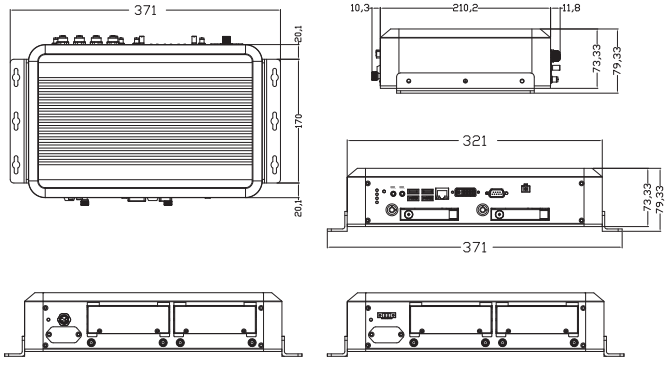
Anti-vibration Kit (P/N: 8816N5008A0E)	For in-vehicle/rolling stock which improves HDD stability in NVR applications	
Communication Modules	8816N3239A0E	3G UC20GKit for tBOX/UST (3G ANT) (E)
	8816N3235A0E	3G/GPS UC20GKit tBOX/UST (3G/GPS ANT) (E)
	8816N5003A0E	AP12356 WT Wi-Fi kit for tBOX/UST SFP (E)
	8816N5002A0E	LTE MC7455(US) kit for tBOX/UST SFP (E)
	8816N5000A0E	LTE SIM7100JC kit for tBOX, JPN SFP (E)
	8816N5006A0E	LTE+GPS SIM7100 (JPE) kit tBOX (30) SFP (E)
	88160620BA0E	LTE SIMCOM SIM7100 (EU) for tBOX/UST SFP (E)
	881745000A0E	
	8816N5004A0E	LTE+GPS SIM7100EU kit for tBOX/UST SFP (E)
AC to DC Adapter	50906D24000E	LTE+GPS SIM7100C (TW) kit tBOX (30) SFP (E) Adapter 24V/120W, wire only, FSP120-AAAN3
	50966224010E	Adapter 24V 90W, M12 A-code 5P FSP090AAAN3

*Specifications and certifications may vary based on different requirements.

Power Protection

OCP (over current protection)
OVP (over voltage protection)
UVP (under voltage protection)
RPP (reverse polarity protection)
ISO 7637-2 pulse 1, 2a, 2b, 3a, 3b, 4 (vehicle version)
Setting for in-vehicle battery protection: system will be automatically turned down at low voltage level
Setting for ignition control: system will activate a counter while in-vehicle battery at low voltage, ACC-ON delay and shut down delay

Dimensions



#M12 DC-in

#Terminal block DC-in

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tBOX100-838-FL

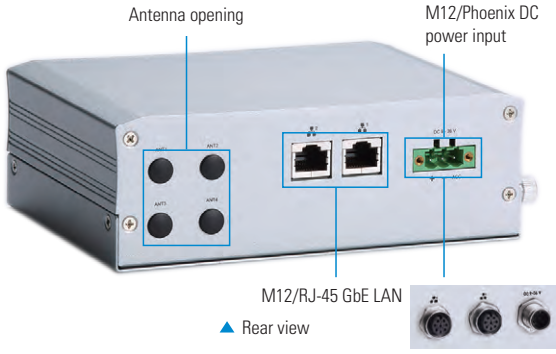
Fanless Embedded System with Intel® Atom® Processor E3845 for Railway, Vehicle and Marine PC

Features

- CE, FCC, EN 50155, EN 45545-2, ISO 7637-2 and IEC 60945 compliant
- Intel® Atom® processor E3845 4C @ 1.91 GHz
- Fanless and Wide operating temperatures from -40°C to +60°C
- 4GB DDR3L-1333 memory onboard
- Compact size with multiple I/Os
- Intelligent solution of vehicle power management (ACC ignition)
- 1 PCI Express Mini Card slot and 1 SIM card slot



▲ Front view



▲ Rear view

Low Power | Fanless | Ext. Temp | DDR3L | Compliant EN50155 | Compliant ISO 7637-2 | Compliant IEC 60945 | Compliant EN 45545-2

Specifications

Standard Color	Silver	
Construction	Aluminum extrusion and heavy-duty steel, IP30	
CPU	Intel® Atom® E3845 4C @1.91 GHz, TDP: 10W	
Chipset	SoC integrated	
System Memory	DDR3L-1333, 4GB memory onboard	
BIOS	AMI	
System I/O Outlet	Serial	1 x DB9 serial console or RS-232/422/485
	Display	1 x VGA (supports up to 1920 x 1080 @60Hz)
	Video/Audio	5 x BNC (4 x video-in/1 x audio-in)
	Ethernet	Railway: 2 x M12 A-coded 10/100/1000 Mbps Ethernet (Intel® i210-IT) Vehicle: 2 x RJ-45 10/100/1000 Mbps Ethernet (Intel® i210-IT)
	USB	2 x USB 2.0
	Others	1 x Reset button 1 x Remote switch 4 x Antenna opening
Expansion Interface	1 x Full-size Rev.1.2 PCI Express Mini Card slot: • 1 x mSATA/USB/PCIe with SIM socket	
Storage	SATA Drive	1 x Swappable 2.5" SATA drive (9.5 mm height)
	mSATA	1 x mSATA (occupied 1 x PCI Express Mini Card slot)
Watchdog Timer	255 levels, 1 to 255 sec.	
Power	Power Supply	Railway: 1 x M12, 24 VDC Vehicle: 1 x terminal block, 12/24 VDC with ACC ignition
	Power Consumption	24V, 1A
System Indicator	1 x LED indicator for SATA drive activity 1 x LED indicator for power 2 x LED indicator for LAN activity 2 x Programmable	

Operating Temperature	-40°C to +60°C (-40°F to +140°F) with W.T. peripheral*	
Humidity	0% to 95%, non-condensing	
Dimensions	163.8 mm (6.44") (W) x 108 mm (4.25") (D) x 56.3 mm (2.22") (H) (without wall mount)	
Mounting	Wall mount, Din-rail	
Weight (net/gross)	0.77 kg (1.70 lb)/1.44 kg (3.17 lb)	
Certifications	CE (Class A), FCC (Class A), EN 50155, EN 45545-2, IEC 60945 and ISO 7637-2 compliant	
EMC	CE/FCC	EN 55022 (Class A), EN 55024, FCC Part 15 B (Class A)
	EN 50155	EN 50121-3-2, IEC 62236-3-2
	IEC 60945	IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, CISPR 16-1-1, CISPR 16-1-2, CISPR 16-1-4
Vibration Endurance	2 Grms w/ SSD (5 to 500Hz, X/Y/Z direction; random) 2 Grms w/ HDD & Anti-Vibration Kit (5 to 500Hz, X/Y/Z direction; random, operating)	
	EN 50155	EN (IEC) 61373 category 1 class B
	IEC 60945	IEC 60068-2-6
Shock	EN 50155	EN (IEC) 61373 category 1 class B, half-sine pulse, 5g,30ms (longitudinal direction), 3g, 30ms (vertical/transverse direction)
EOS Support	Windows® 10 64-bit, Windows® 8, Windows® 7 64/32-bit, VxWorks7, Ubuntu 16.10	

*Wide Temperature. All W.T. supported products have to be sorted by Axiomtek.

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Ordering Information

System	
tBOX100-838-FL-E3845-MRDC (P/N: E26N100101)	Fanless railway embedded system with Intel® Atom® processor E3845, 4GB RAM, 2 M12 GbE LANs, M12 DC-in, COM, VGA, 5 BNC (capture card, 4 x video-in/1 x audio-in), and 24 VDC
tBOX100-838-FL-E3845-TVDC (P/N: E26N100100)	Fanless vehicle embedded system with Intel® Atom® processor E3845, 4GB RAM, 2 RJ-45 GbE LANs, Terminal block DC-in, COM, VGA, 5 BNC (capture card, 4 x video-in/1 x audio-in), with ACC ignition, andd 12/24 VDC

*MRDC: M12 DC-in connector, railway SKU, DC voltage input
*TMDC: terminal block DC-in connector, marine SKU, DC voltage input

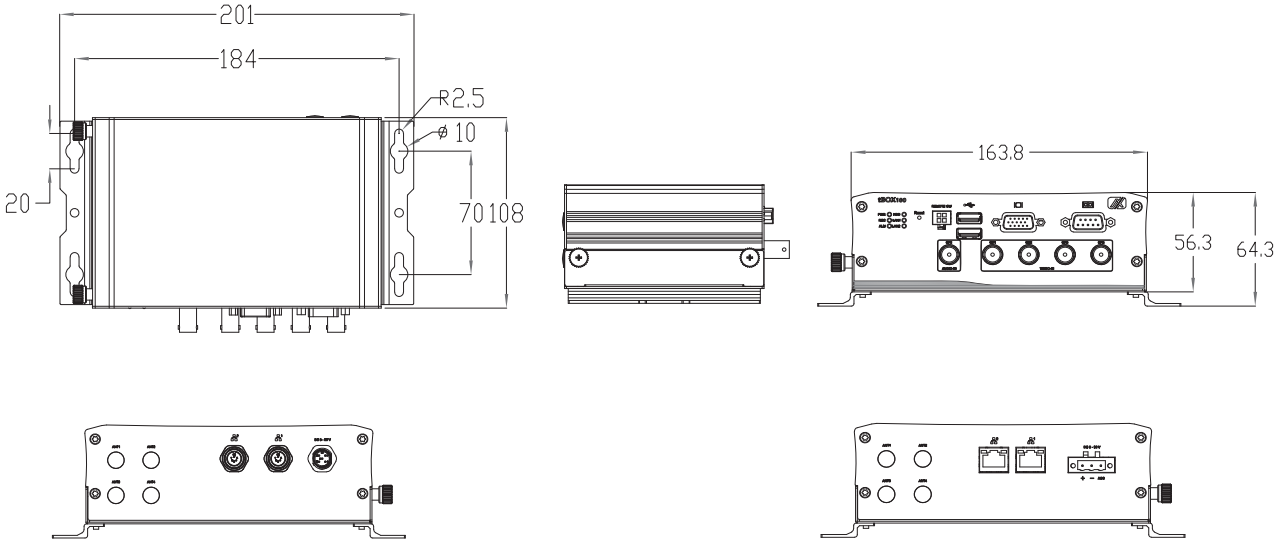
Optional	
Anti-vibration Kit (P/N: 8816N1000A0E)	For in-vehicle/rolling stock applicable systems which improves HDD/SSD stability
AC to DC Adapter	50906D24000E Adapter 24V/120W, wire only, FSP120-AAAN3 50966224010E Adapter 24V 90W, M12 A-code 5P FSP090AAAN3

*Specifications and certifications may vary based on different requirements.

Power Protection

OCP (over current protection)
OVP (over voltage protection)
UVP (under voltage protection)
RPP (reverse polarity protection)
ISO 7637-2 pulse 1, 2a, 2b, 3a, 3b, 4 (vehicle version)
Setting for in-vehicle battery protection: system will be automatically turned down at low voltage level
Setting for ignition control: system will activate a counter while in-vehicle battery at low voltage, ACC-ON delay and shut down delay

Dimensions



#M12 LAN/DC-in

#RJ-45 LAN, terminal block DC-in

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tBOX810-838-FL

Fanless Embedded System with Intel® Atom® Processor E3845/E3827 for Railway, Vehicle and Marine PC

Features

- CE, FCC, EN 50155, EN 45545-2, E-Mark, DNV 2.4 and IEC 60945 certified
- Intel® Atom® processor E3845 or E3827
- Fanless and Wide operating temperatures from -40°C to +70°C
- DDR3L-1333 4GB memory onboard
- Compact size with multiple I/Os
- Intelligent solution of vehicle power management (ACC ignition)
- 2 PCI Express Mini Card slots and 1 SIM card slot

TAIWAN EXCELLENCE 2016



▲ Front view



Mic-in, Line-out, Line-in (optional)

M12/Phoenix DC power input



M12/RJ-45 GbE LAN

▲ Rear view

Antenna opening



EN 45545-2 | Low Power | AMS.AXView | Fanless | Ext. Temp | DDR3L | EN50155 | E-Mark (E13) | DNV 2.4 | IEC 60945

Specifications

Standard Color	Silver black	
Construction	Aluminum extrusion and heavy-duty steel, IP40	
CPU	Intel® Atom® E3845 4C @1.91 GHz, TDP: 10W Intel® Atom® E3827 2C @1.75 GHz, TDP: 8W	
Chipset	SoC integrated	
System Memory	DDR3L-1333, 4GB memory onboard	
BIOS	AMI	
System I/O Outlet	Serial	2 x DB9 serial console or RS-232/422/485
	Display	1 x VGA (supports up to 1920 x 1080 @60Hz)
	Audio	1 x Mic-in, 1 x Line-out, 1 x Line-in (optional, occupied 1 x PCIe Mini Card slot)
	Ethernet	Railway: 2 x M12 A-coded 10/100/1000 Mbps Ethernet (Intel® i210-IT) Marine/Vehicle: 2 x RJ-45 10/100/1000 Mbps Ethernet (Intel® i210-IT)
	USB	2 x USB 2.0
	DIO	1 x DB9 8-bit programmable DIO
	Others	1 x Reset button 1 x Remote switch 4 x Antenna opening
Expansion Interface	2 x Full-size Rev.1.2 PCI Express Mini Card slot: • 1 x USB/PCIe with SIM socket • 1 x mSATA/USB/PCIe	
Storage	SATA Drive	1 x Internal 2.5" SATA drive (9.5 mm height)
	mSATA	1 x mSATA (occupied 1 x PCI Express Mini Card slot)
Watchdog Timer	255 levels, 1 to 255 sec.	
Power	Power Supply	Railway: 1 x M12, 24 VDC Vehicle: 1 x terminal block, 12/24 VDC with ACC ignition Marine: 1 x terminal block, 24 VDC
	Power Consumption	24V, 1A

System Indicator	1 x LED indicator for SATA drive activity 1 x LED indicator for power 2 x LED indicator for LAN activity 2 x Programmable	
Operating Temperature	-40°C to +70°C (-40°F to +158°F) with W.T. peripheral*	
Humidity	0% to 95%, non-condensing	
Dimensions	164.1 mm (6.46") (W) x 108 mm (4.25") (D) x 44 mm (1.73") (H) (without wall mount)	
Mounting	Wall mount, Din-rail	
Weight (net/gross)	0.77 kg (1.70 lb)/2 kg (4.41 lb)	
Certifications	CE (Class A), FCC (Class A), EN 50155, EN 45545-2**, E-Mark, DNV 2.4 and IEC 60945 certified	
EMC	CE/FCC	EN 55022 (Class A), EN 55024, FCC part 15 B (Class A)
	EN 50155	EN 50121-3-2, IEC 62236-3-2
	E-Mark	ECE-R10
	DNV 2.4/IEC 60945	IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, CISPR 16-1-1, CISPR 16-1-2, CISPR 16-1-4
Vibration Endurance	3 Grms w/ SSD (5 to 500Hz, X/Y/Z direction; random, operating) 1 Grms w/ HDD (5 to 500Hz, X/Y/Z direction; random, operating) 2 Grms w/ HDD & Anti-Vibration Kit (5 to 500Hz, X/Y/Z direction; random, operating) MIL-STD-810G, Method 514.6C-VL Category 4 compliant	
	EN 50155	EN (IEC) 61373 category 1 class B
	DNV 2.4/IEC 60945	IEC 60068-2-6
Shock	EN 50155	EN (IEC) 61373 category 1 class B, half-sine pulse, 5g, 30ms (longitudinal direction), 3g, 30ms (vertical/transverse direction)
	DNV 2.4	IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-6, IEC 60068-2-30
EOS Support	Windows® 10 64-bit, Windows® 8, Windows® 7 64/32-bit, VxWorks7, Ubuntu 15.10	
Software Support	AMS.AXView	

*Wide Temperature. All W.T. supported products have to be sorted by Axiomtek.
**For EN45545-2, test report is available exclusively

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Ordering Information

System	
tBOX810-838-FL-E3827/E3845-MRDC (P/N: E26N810106*) for E3845 (P/N: E26N810107*) for E3827 (P/N: E26N810109) for E3845 & Audio *without Audio & CAN connector	Fanless railway grade embedded system with Intel® Atom® processor E3827/E3845, 4GB DRAM, 2 M12 GbE LANs, M12 DC-in, 2 USB, VGA, 2 COM, DIO, audio mic-in/line-in/line-out, and 24 VDC
tBOX810-838-FL-E3827/E3845-TVDC/MVDC (P/N: E26N810104*) for E3845 (P/N: E26N810105*) for E3827 (P/N: E26N810110) for E3845 & Audio (P/N: E26N810121) for E3845 & CAN (P/N: E26N810122) for E3827 & CAN (P/N: E26N810100*) for E3845 & M12 DC-in (P/N: E26N810102*) for E3827 & M12 DC-in *without Audio & CAN connector	Fanless vehicle grade embedded system with Intel® Atom® processor E3827/E3845, 4GB DRAM, 2 RJ-45/M12 GbE LANs, terminal block/M12 DC-in, 2 USB, VGA, 2 COM, DIO, CAN, audio mic-in/line-in/line-out, with ACC ignition, and 12/24 VDC
tBOX810-838-FL-E3827/E3845-TMDC (P/N: E26N810114*) for E3845 (P/N: E26N810115*) for E3827 (P/N: E26N810119) for E3827 & CAN (P/N: E26N810120) for E3845 & CAN *without Audio & CAN connector	Fanless marine grade embedded system with Intel® Atom® processor E3827/E3845, 4GB DRAM, 2 RJ-45 GbE LANs, terminal block DC-in, 2 USB, VGA, 2 COM, DIO, CAN, and 24 VDC

*MRDC: M12 DC-in connector, railway SKU, DC voltage input
*TVDC: terminal block DC-in connector, vehicle SKU, DC voltage input
*MVDC: M12 DC-in connector, vehicle SKU, DC voltage input
*TMDC: terminal block DC-in connector, marine SKU, DC voltage input

Optional

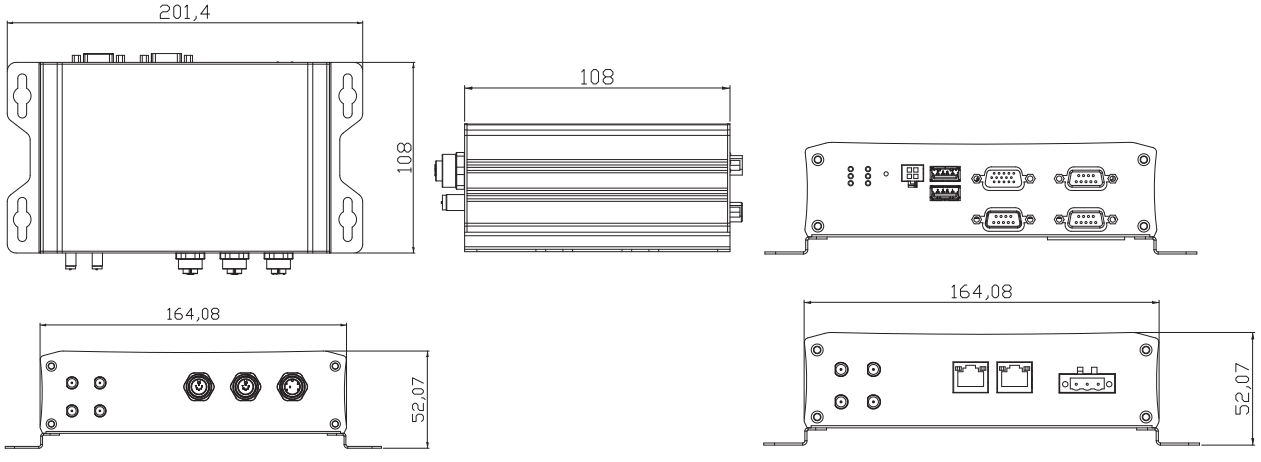
Anti-vibration Kit (P/N: 8816N1000A0E)	For in-vehicle/rolling stock applicable systems which improves HDD/SSD stability	
Communication Modules	8816N3239A0E	3G UC20GKit for tBOX/UST (3G ANT) (E)
	8816N3235A0E	3G/GPS UC20GKit for tBOX (3G/GPS ANT)
	8812C300CA0E	AP12356WT Wi-Fi kit for ICO300 SFP (E)
	8816N8105A0E	GPS kit M8N w/o adapter for tBOX SFP (E)
	8816N8108A0E	LTE MC7430 (EU) kit for tBOX (E)
	8816N8107A0E	LTE MC7430 (EU) w/GPS kit for tBOX (E)
	8816N5002A0E	LTE MC7455 (US) kit for tBOX/UST SFP (E)
	8816N5001A0E	LTE MC7455 (US) W/GPS kit for UST SFP (E)
AC to DC Adapter	50906D24000E	Adapter 24V/120W, wire only, FSP120-AAAN3
	50966224010E	Adapter 24V 90W, M12 A-code 5P FSP090AAAN3

*Specifications and certifications may vary based on different requirements.

Power Protection

OCP (over current protection)
OVP (over voltage protection)
UVP (under voltage protection)
RPP (reverse polarity protection)
ISO 7637-2 pulse 1, 2a, 2b, 3a, 3b, 4 (vehicle version)
Setting for in-vehicle battery protection: system will be automatically turned down at low voltage level
Setting for ignition control: system will activate a counter while in-vehicle battery at low voltage, ACC-ON delay and shut down delay

Dimensions



#M12 LAN/DC-in

#RJ-45 LAN, terminal block DC-in

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tBOX324-894-FL

Fanless Embedded System with 7th/6th Gen Intel® Core™ i7/i5/i3 & Celeron® Processor for Railway, Vehicle and Marine PC

Features

- CE, LVD, FCC, EN 50155, EN 45545-2, E-Mark, DNV 2.4 and IEC 60945 certified
- 7th/6th gen Intel® Core™ i7/i5/i3 & Celeron® processors
- Fanless and wide operating temperatures from -40°C to +70°C
- 2 DDR4-1866/2133 SO-DIMM for up to 32GB of memory
- Typical 12/24/110 VDC power supply
- Intelligent solution of vehicle power management (ACC ignition)
- 2 swappable 2.5" SATA drives
- 3 PCI Express Mini Card slots and 1 SIM card slot



▲ Front view



▲ Rear view

EN 45545-2 | AMS.AXView | Fanless | Ext. Temp | DDR4 | EN50155 | E-Mark (E24) | DNV2.4 | IEC 60945

Specifications

Standard Color	Silver black	
Construction	Aluminum extrusion and heavy-duty steel, IP30	
CPU (supports Kaby Lake-U & Skylake-U platform)	Intel® Core™ i7-7600U 2.8 GHz*/i7-6600U 2.6 GHz* Intel® Core™ i5-7300U 2.6 GHz*/i5-6300U 2.4 GHz* Intel® Core™ i3-7100U 2.4 GHz*/i3-6100U 2.3 GHz* Intel® Celeron® 3965U 2.2 GHz*/3955U 2.0 GHz* *2 Core @TDP: 15W	
Chipset	SoC integrated	
System Memory	2 x DDR4-1866/2133 SO-DIMM, up to 32GB	
BIOS	AMI	
System I/O Outlet	Serial	1 x DB9 isolated RS-232/422/485 2 x Terminal block isolated RS-232/422/485 (isolation voltage: 2 kV)
	CANBus	1 x DB9 isolated CANBus 2.0 A/B (isolation voltage: 2 kV)
	Display	1 x DVI-I (up to 1920 x 1200 @60Hz, 1 x VGA and 1 x DVI-D included) 1 x VGA
	Audio	1 x Mic-in, 1 x Line-out
	Ethernet	Railway: 4 x M12 A-coded 10/100/1000 Mbps Ethernet (Intel® i210-IT) Marine/Vehicle: 4 x RJ-45 10/100/1000 Mbps Ethernet (Intel® i210-IT)
	USB	4 x USB 3.0
	DIO	1 x Terminal block isolated DIO 4-in/4-out (isolation voltage: 2 kV)
	Others	1 x Reset button 1 x Remote switch 3 x Antenna opening
Expansion Interface	3 x Full-size Rev.1.2 PCI Express Mini Card slot: • 2 x USB/PCIe • 1 x USB/PCIe with SIM socket	
Storage	SATA Drive	2 x Swappable 2.5" SATA drive (9.5 mm height), Intel® RAID 0/1 supported
	CFast	1 x CFast™
Watchdog Timer	255 levels, 1 to 255 sec.	
Power	Power Supply	Railway: 1 x M12, 24/110 VDC Vehicle: 1 x terminal block, 12/24 VDC with ACC ignition Marine: 1 x terminal block, 24 VDC
	Power consumption	24V/2.2A, 110V/0.7A

System Indicator	4 x LED indicator for LAN activity 4 x LED indicator for LAN linked 1 x LED indicator for SATA drive activity 1 x LED indicator for power	
Operating Temperature	-40°C to +70°C (-40°F to +158°F) with W.T. peripheral*	
Humidity	0% to 95%, non-condensing	
Dimensions	288.5 mm (11.36") (W) x 211.3 mm (8.32") (D) x 85.75 mm (3.38") (H) (without wall mount)	
Mounting	Wall mount	
Weight (net/gross)	5 kg (11.02 lb)/6.65 kg (14.66 lb)	
Certifications	CE (Class A), FCC (Class A), EN 50155, EN 45545-2**, E-Mark, DNV 2.4 and IEC 60945 certified	
EMC	CE/FCC	EN 61000-6-4 (Class A), EN 61000-6-2, FCC part 15 B (Class A)
	EN 50155	EN 50121-3-2, IEC 62236-3-2
	DNV 2.4 IEC 60945	IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, CISPR 16-1-1, CISPR 16-1-2, CISPR 16-1-4
	E-Mark	ECE-R10
LVD	EN 60950-1	
Vibration Endurance	3 Grms w/ SSD (5 to 500Hz, X/Y/Z direction; random, operating) 1 Grms w/ HDD (5 to 500Hz, X/Y/Z direction; random, operating) 2 Grms w/ HDD & Anti-Vibration Kit (5 to 500Hz, X/Y/Z direction; random, operating) MIL-STD-810G, Method 514.6C-VL Category 4 compliant	
	EN 50155	EN(IEC) 61373 category 1 class B
	DNV 2.4/IEC 60945	IEC 60068-2-6
Shock (operating)	EN 50155	EN (IEC) 61373 category 1 class B, half-sine pulse, 5g, 30ms (longitudinal direction), 3g, 30ms (vertical/transverse direction)
	DNV 2.4 IEC 60945	IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-6, IEC 60068-2-30
EOS Support	Windows® 10 64-bit, Windows® 7 64/32-bit (for 6th gen Intel® CPU), Ubuntu 18.04	
Software Support	AMS.AXView	

*Wide Temperature. All W.T. supported products have to be sorted by Axiomtek.
**For EN45545-2, test report is available exclusively

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Ordering Information

Standard	
tBOX324-894-FL-Cel/i3/i5/i7-DIO-24MRDC-CAN (P/N: E26N324103) for i7-7600U (P/N: E26N324102) for i5-7300U (P/N: E26N324101) for i3-7100U (P/N: E26N324100) for 3965U tBOX324-894-FL-Cel/i3/i5/i7-DIO-110MRDC-CAN-G (P/N: E26N324121) for i7-7600U (P/N: E26N324120) for i5-7300U (P/N: E26N324119) for i3-7100U (P/N: E26N324118) for 3965U	Fanless embedded system with 7th gen Intel® Kaby Lake Core™ i7/i5/i3 & Celeron® for railway PC, 4 USB 3.0, DVI-I, 4 M12 GbE LANs, 3 COM, CAN, DIO, Mic-in & Line-out, two 2.5" SATA trays, M12 DC-in, and 24/110 VDC *Kaby Lake Platform*
tBOX324-894-FL-Cel/i3/i5/i7-DIO-110MRDC-CAN-G (P/N: E26N324133) for i7-6600U (P/N: E26N324132) for i5-6300U (P/N: E26N324131) for i3-6100U (P/N: E26N324130) for 3955U	Fanless embedded system with 6th gen Intel® Skylake Core™ i7/i5/i3 & Celeron® for railway PC, 4 USB 3.0, DVI-I, 4 M12 GbE LANs, 3 COM, CAN, DIO, Mic-in & Line-out, two 2.5" SATA trays, M12 DC-in, and 110 VDC *Skylake Platform*
tBOX324-894-FL-Cel/i3/i5/i7-DIO-TVDC-CAN-GND (P/N: E26N324112) for i7-7600U (P/N: E26N324111) for i5-7300U (P/N: E26N324110) for i3-7100U (P/N: E26N324109) for 3965U	Fanless embedded system with 7th gen Intel® Kaby Lake Core™ i7/i5/i3 & Celeron® for vehicle PC, 4 USB 3.0, DVI-I, 4 RJ-45 GbE LANs, 3 COM, CAN, DIO, Mic-in & Line-out, two 2.5" SATA trays, terminal block DC-in, ACC ignition, and 12/24 VDC
tBOX324-894-FL-Cel/i3/i5/i7-DIO-TMDC-CAN-GND (P/N: E26N324117) for i7-7600U (P/N: E26N324115) for i5-7300U (P/N: E26N324114) for i3-7100U (P/N: E26N324113) for 3965U	Fanless embedded system with 7th gen Intel® Kaby Lake Core™ i7/i5/i3 & Celeron® for marine PC, 4 USB 3.0, DVI-I, 4 RJ-45 GbE LANs, 3 COM, CAN, DIO, Mic-in & Line-out, two 2.5" SATA trays, terminal block DC-in, and 24 VDC

*MRDC: M12 DC-in connector, railway SKU, DC voltage input
*TVDC: terminal block DC-in connector, vehicle SKU, DC voltage input
*TMDC: terminal block DC-in connector, marine SKU, DC voltage input
*GND or G: with grounding openning & screw

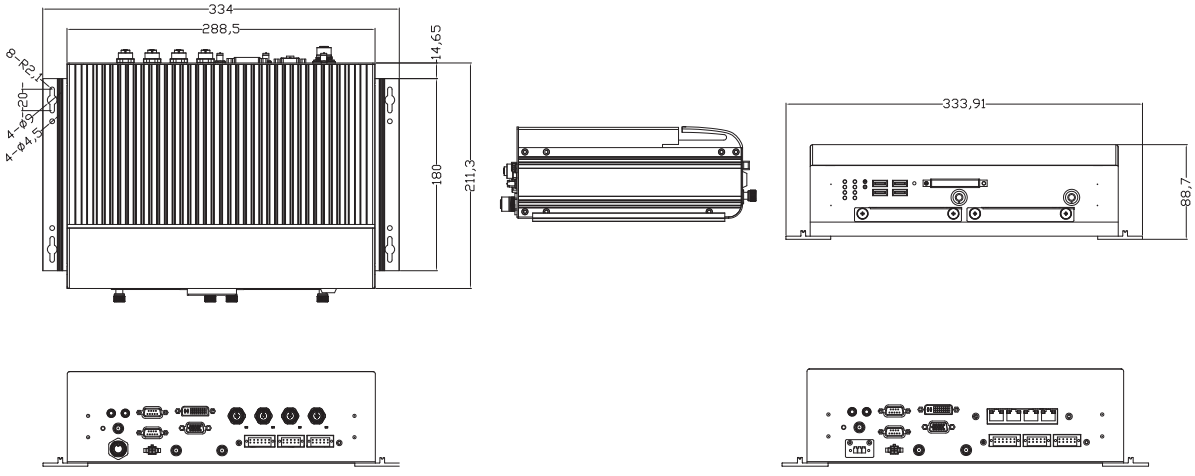
Optional		
Anti-vibration Kit (P/N: 8816N5008A0E)	For in-vehicle/rolling stock which improves HDD stability in NVR applications	
Communication Modules	8816N3239A0E	3G UC20GKit for tBOX/UST (3G ANT) (E)
	8816N3235A0E	3G/GPS UC20GKit tBOX/UST (3G/GPS ANT) (E)
	8812C1200A0E	AP12356 Wi-Fi kit for tBOX/ICO (E)
	8812C1201A0E	AP12356 with WT Wi-Fi kit for tBOX/ICO SFP (E)
	881745001A0E	GPS Kit M8N w/o adapter for tBOX/UST SFP (E)
	88160620BA0E	LTE SIMCOM SIM7100 (EU) for tBOX/UST
	881745000A0E	SFP (E)
	8816N5005A0E	LTE+GPS SIM7100EU kit for tBOX/UST SFP (E)
	8816N5007A0E	LTE+GPS SIM7100C (TW) kit tBOX(20) SFP (E)
		LTE+GPS SIM7100 (JPE) kit tBOX (20) SFP (E)
AC to DC Adapter	50906D24000E	Adapter 24V/120W, wire only, FSP120-AAAN3
	50966224010E	Adapter 24V 90W, M12 A-code 5P FSP090AAAN3

*Specifications and certifications may vary based on different requirements.

Power Protection

OCP (over current protection)
OVP (over voltage protection)
UVP (under voltage protection)
RPP (reverse polarity protection)
ISO 7637-2 pulse 1, 2a, 2b, 3a, 3b, 4 (vehicle version)
Setting for in-vehicle battery protection: system will be automatically turned down at low voltage level
Setting for ignition control: system will activate a counter while in-vehicle battery at low voltage, ACC-ON delay and shut down delay

Dimensions



#M12 LAN/DC-in

#RJ-45 LAN, terminal block DC-in

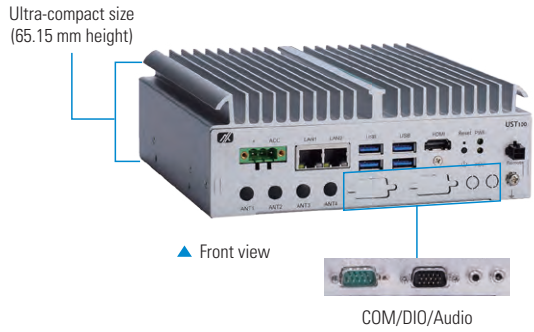
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UST100-504-FL NEW

Fanless Embedded System with 7th/6th Gen Intel® Core™, Pentium® and Celeron® Processor, Compact Size for Video Analytics in Vehicle PC Market

Features

- CE, FCC certified; ISO 7637-2 compliant
- LGA1151 7th/6th gen Intel® Core™ & Pentium® processors (up to 35W) with Intel® H110
- Fanless and Wide operating temperatures from -40°C to +60°C
- 12/24 VDC power input, with power management (ACC ignition)
- Single-sided I/O design for easy maintenance
- Expansion capability for three PCI Express Mini Card slot and two internal SIM card slot



Fanless | Ext. Temp | DDR4 | Compliant ISO 7637-2 | AMS.AXView

Specifications

Standard Color	Silver	
Construction	Aluminum extrusion and heavy-duty steel, IP30	
CPU	LGA1151 7th gen Intel® Kaby Lake processors, TDP: 35W LGA1151 6th gen Intel® Skylake processors, TDP: 35W	
Chipset	Intel® H110	
System Memory	1 x DDR4-1866/2133/2400 SO-DIMM, up to 16GB	
BIOS	AMI	
TPM	TPM 2.0	
System I/O Outlet	Serial	1 x DB9 Serial console or RS-232/422/485
	Display	1 x HDMI 1.4b supports up to 4K/2K @60Hz
	Audio	1 x Mic-in, 1 x Line-out
	Ethernet	2 x RJ-45 10/100/1000 Mbps Ethernet (Intel® i211-IT)
	USB	4 x USB 3.0
	DIO	1 x DB9 4-in/4-out programmable DIO
	Others	1 x Reset button 1 x Power switch 1 x Remote switch 4 x Antenna opening
Expansion Interface	2 x Full-size Rev.1.2 PCI Express Mini Card slot: • 1 x USB/PCIe with SIM socket • 1 x mSATA/USB/PCIe with SIM socket 1 x Half-size Rev.1.2 PCI Express Mini Card slot: • 1 x mSATA/USB	
Storage	SATA drive	1 x Internal 2.5" SATA drive (9.5 mm height)
	mSATA	1 x Full-sized mSATA (occupied 1 x PCI Express Mini Card slot) 1 x half-sized mSATA (occupied 1 x PCI Express Mini Card slot)
Watchdog Timer	255 levels, 1 to 255 sec.	
Power	Power Supply	1 x Terminal block, 12/24 VDC with ACC ignition
	Power Consumption	12V, 5.06A; 24V,2.72A
System Indicator	1 x LED indicator for SATA drive activity 1 x LED indicator for power	
Operating Temperature	-40°C to +60°C (-40°F to +140°F) with W.T. peripheral*	
Humidity	0% to 95%, non-condensing	

Dimensions	185 mm (7.09") (W) x 150 mm (5.91") (D) x 65.15 mm (2.56") (H) (without wall mount)	
Mounting	Wall mount	
Weight (net/gross)	1.71 kg (3.77 lb)/2.19 kg (4.83 lb)	
Certifications	CE (Class A), FCC (Class A) certified; and ISO 7637-2 compliant	
EMC	CE/FCC	EN 55032 (Class A), EN 55024, FCC part 15 B (Class A)
Vibration Endurance	3 Grms w/ SSD (5 to 500Hz, X/Y/Z direction; random, operating) 1 Grms w/ HDD (5 to 500Hz, X/Y/Z direction; random, operating) 2 Grms w/ HDD & Anti-Vibration Kit (5 to 500Hz, X/Y/Z direction; random, operating) MIL-STD-810G, Method 514.6C-VL Category 4 compliant	
EOS Support	Windows® 10 64-bit, Windows® 7 64/32-bit (for 6th gen Intel® CPU), Ubuntu 18.04	
Software Support	AMS.AXView	

*Wide Temperature. All W.T. supported products have to be sorted by Axiomtek.

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Ordering Information

System		
UST100-504-FL-i7-TDC (P/N: E274100101) UST100-504-FL-i5-TDC (P/N: E274100102)	Fanless embedded system with LGA1151 7th gen Intel® i7-7700T/i5-7500T desktop processor, H110, HDMI, 4 USB 3.0, 2 RJ-45 GbE LAN, RS-232/422/485, Mic-in/ Line-out, DIO, SATA drive and ACC ignition	

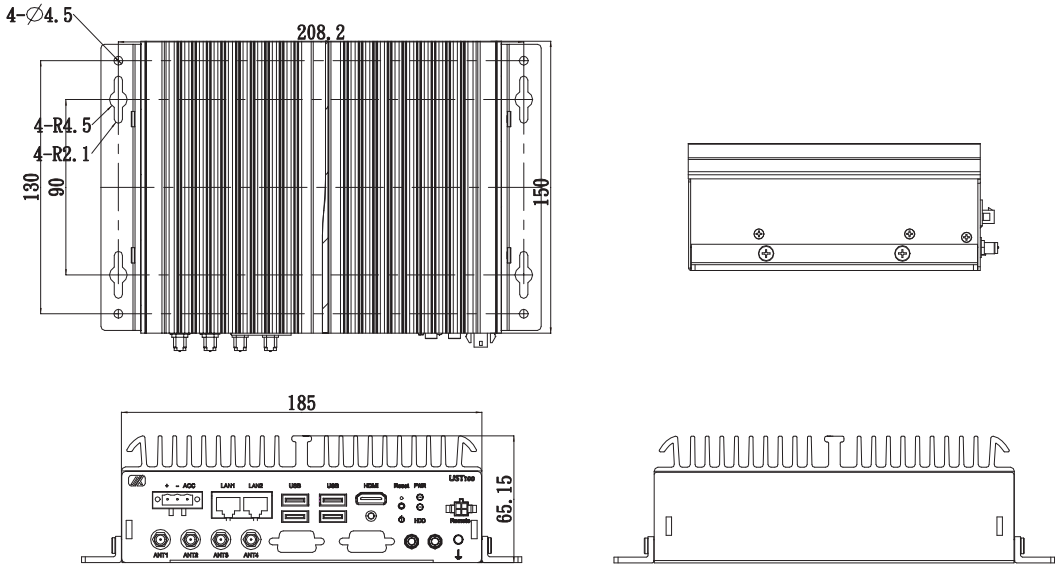
*TDC: terminal block DC-in connector, DC voltage input

Optional		
Anti-vibration Kit (P/N: 8816N1000A0E)	For in-vehicle/rolling stock applicable systems which improves HDD/SSD stability	
Communication Modules	8816K6603A0E 8816N5003A0E	AMPAK AP12356 Wi-Fi kit (E) AP12356 WT Wi-Fi kit for tBOX/ UST SFP (E)
AC to DC Adapter	50906D24000E	Adaptor 24V/120W, wire only, FSP120-AAAN3

Power Protection

OCP (over current protection)
OVP (over voltage protection)
UVP (under voltage protection)
RPP (reverse polarity protection)
ISO 7637-2 pulse 1, 2a, 2b, 3a, 3b, 4(vehicle version)
Setting for in-vehicle battery protection: system will be automatically turned down at low voltage level
Setting for ignition control: system will activate a counter while in-vehicle battery at low voltage, ACC-on delay and shut down delay

Dimensions



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UST500-517-FL

Fanless Embedded System with 7th/6th Gen Intel® Core™, Pentium® and Celeron® Processor for Railway and Vehicle PC

Features

- CE, FCC certified; EN 50155, ISO 7637-2 compliant
- 7th/6th gen Intel® Core™ & Pentium® processors (LGA1151 up to 65W) with Intel® Q170
- Fanless and Wide operating temperatures from -40°C to +70°C
- Flexible LAN selection, up to 16 RJ-45 GbE PoE LAN ports
- 24 VDC power input
- Intelligent solution of vehicle power management (ACC ignition)
- Convenient and Accessible Storage, two/four 2.5" SATA drive, 1 mSATA



▲ Front view



▲ Rear View

Fanless | Ext. Temp | DDR4 | Compliant EN 50155 | Compliant ISO7637-2 | AMS.AXView

Specifications

Standard Color	Silver	
Construction	Aluminum extrusion and heavy-duty steel, supports up to IP40**	
CPU (LGA1151 socket type)	7th gen Intel® Kaby Lake processor, TDP: 35 - 65W 6th gen Intel® Skylake processor, TDP: 35 - 65W	
Chipset	Intel® Q170	
System Memory	2 x DDR4-1866/2133/2400 SO-DIMM, up to 32GB	
BIOS	AMI	
TPM	TPM 2.0 (optional)	
System I/O Outlet	Serial	2 x DB9 serial console or RS-232/422/485
	Display	1 x VGA (supports up to 1920 x 1200 @60Hz) 1 x DVI-D (supports up to 4K/2K @60Hz) 1 x HDMI (supports up to 4K/2K @60Hz)
	Audio	1 x Mic-in, 1 x Line-out
	Ethernet	Flexible LAN selection: • 8 x RJ-45 GbE LAN with 2 SATA (Intel® i211-AT) • 8 x M12 A-coded GbE LAN with 4 SATA (Intel® i211-AT) • 8 x RJ-45, 8 x M12 A-coded GbE LAN with 4 SATA (Intel® i211-AT) • 16 x RJ-45 GbE LAN with 4 SATA or 2 SATA (Intel® i211-AT)
	USB	4 x USB 3.0
	DIO	1 x Terminal block isolated 6-in/2-out DIO (isolation voltage: 5 kV)
	Others	1 x Reset button 5 x Antenna opening 2 x External accessible SIM card socket
Expansion Interface	2 x Full-size Rev.1.2 PCI Express Mini Card slot: • 2 x USB/PCIe with external SIM socket 2 x Half-size Rev.1.2 PCI Express Mini Card slot: • 1 x mSATA/USB/PCIe • 1 x USB	
Storage	SATA Drive	• 2 x 2.5" 15 mm internal SATA drive with 2 SATA, Intel® RAID 0/1 supported • 2 x 2.5" 15 mm swappable SATA drive with 2 SATA, Intel® RAID 0/1 supported • 4 x 2.5" 15 mm swappable SATA drive with 4 SATA, Intel® RAID 0/1/5/10 supported
	mSATA	1 x Half-sized mSATA (occupied 1 x PCI Express Mini Card slot)

Watchdog Timer	255 levels, 1 to 255 sec.	
Power in	Power Supply	1 x Terminal block, 24 VDC with ACC ignition
	Power Consumption	24V,10A
PoE (PSE, Power Sourcing Equipment)	PoE Performance	Up to 16 x RJ-45/8 x RJ-45 & 8 x M12 PoE output max. 200W supports PoE & PoE+ • PoE (802.3af 15.4W/port) • PoE+ (802.3at 30W/port)
System Indicator	1 x LED indicator for SATA drive activity 1 x LED indicator for power 2 x Programmable	
Operating Temperature	-40°C to +70°C (-40°F to +158°F) with W.T. peripheral*	
Humidity	0% to 95%, non-condensing	
Dimensions	2 internal SATA SKU: 280 mm (11.02") (W) x 210.5 mm (8.27") (D) x 70 mm (2.76") (H)* 2 swappable SATA SKU: 280 mm (11.02") (W) x 210.5 mm (8.27") (D) x 83.7 mm (3.30") (H)* 4 swappable SATA SKU: 280 mm (11.02") (W) x 210.5 mm (8.27") (D) x 99.2 mm (3.91") (H)* *Without wall mount	
Mounting	Wall mount	
Weight (net/gross)	2 internal SATA SKU: 3.95 kg (8.71 lb)/4.97 kg (10.96 lb) 2 swappable SATA SKU: 4.92 kg (10.85 lb)/5.74 kg (12.65 lb) 4 swappable SATA SKU: 4.92 kg (10.85 lb)/5.74 kg (12.65 lb)	
Certifications	CE (Class A), FCC (Class A) certified; EN 50155, ISO 7637-2 compliant	
EMC	CE/FCC	EN 55032 (Class A), EN 55024, FCC part 15 B (Class A)
	EN 50155	EN 50121-3-2, IEC 62236-3-2
Vibration Endurance	3 Grms w/ SSD (5 to 500Hz, X/Y/Z direction; random, operating) 1 Grms w/ HDD (5 to 150Hz, X/Y/Z direction; random, operating) 2 Grms w/ HDD & Anti-Vibration Kit (5 to 500Hz, X/Y/Z direction; random, operating) MIL-STD-810G, Method 514.6C-VL Category 4 compliant	
	EN 50155	EN (IEC) 61373 category 1 class B
Shock	EN 50155	EN (IEC) 61373 category 1 class B, Half-sine pulse, 5g, 30ms (longitudinal direction), 3g, 30ms (vertical/transverse direction)
EOS Support	Windows® 10 64-bit, Windows® 7 64/32-bit (for 6th gen Intel CPU), Ubuntu 16.04	
Software Support	AMS.AXView	

*Wide Temperature. All W.T. supported products have to be sorted by Axiomtek.
**Please refer the IP rating in ordering information

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Ordering Information

System	
UST500-517-FL-16RJ/8RJ8M12/8M12-4SATA-TDC (P/N: E274500100) for 16 x RJ-45 LAN (P/N: E274500101) for 8 x RJ-45 8 x M12 LAN (P/N: E274500102) for 8 x M12 LAN	Fanless embedded IP40-rated system with 6/7th gen Intel® desktop processor (LGA1151), Q170, VGA, DVI-D, HDMI, 6-in/2-out DIO, 2 COM, 4 USB 3.0, 16 RJ-45/8 RJ-45, 8 M12/8 M12 PoE GbE LAN, 4 SATA drive and ACC ignition *4 Swappable SATA Drive SKUs*
UST500-517-FL-8RJ-2SATA-TDC (P/N: E274500103) for 8 x RJ45 LAN	Fanless embedded IP40-rated system with 6/7th gen Intel® desktop processor (LGA1151), Q170, VGA, DVI-D, HDMI, 6-in/2-out DIO, 2 COM, 4 USB 3.0, 8 RJ-45/16 RJ-45 PoE GbE LAN, 2 internal SATA drive and ACC ignition *2 Internal SATA Drive SKUs*
UST500-517-FL-16RJ/8RJ-2SATA-TRAY-TDC (P/N: E274500104) for 16 x RJ-45 LAN (P/N: E274500105) for 8 x RJ-45 LAN (P/N: E274500103) for 8 x RJ45 LAN	Fanless embedded IP30-rated system with 6/7th gen Intel® desktop processor (LGA1151), Q170, VGA, DVI-D, HDMI, 6-in/2-out DIO, 2 COM, 4 USB 3.0, 8 RJ-45/16 RJ-45 PoE GbE LAN, 2 swappable SATA drive and ACC ignition *2 Swappable SATA Drive SKUs*

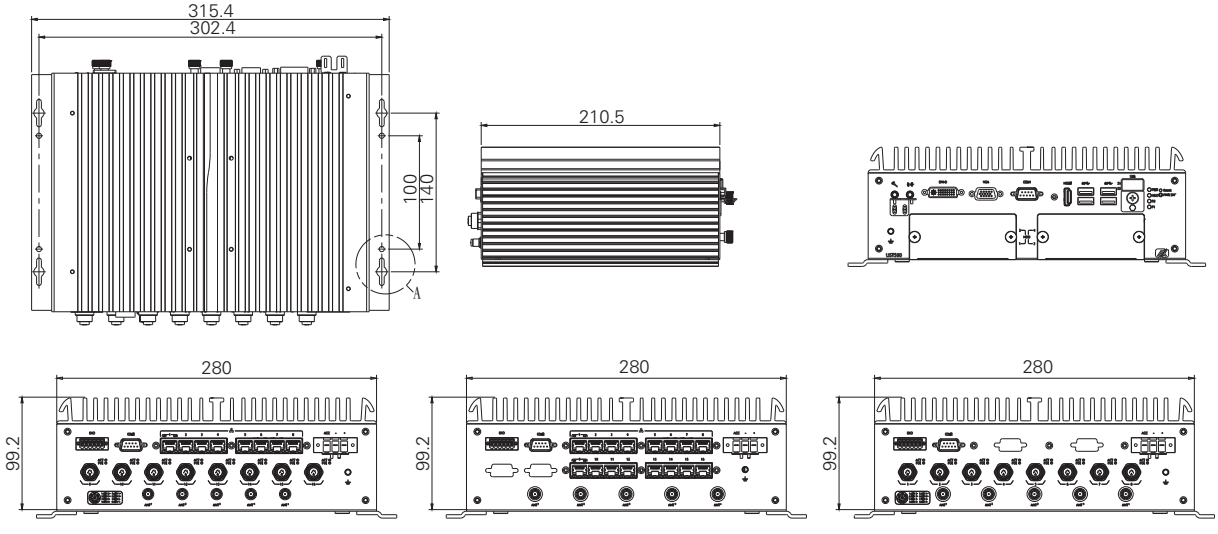
Optional		
Anti-vibration Kit (P/N: 8816N5008A0E)	For in-vehicle/rolling stock which improves HDD stability in NVR applications	
Communication Modules	8816N3239A0E	3G UC20GKit for tBOX/UST (3G ANT) (E)
	8816N3235A0E	3G/GPS UC20GKit for tBOX (3G/GPS ANT)
	8816K6603A0E	AMPAK AP12356 Wi-Fi kit (E)
	8816N5003A0E	AP12356 w/WT Wi-Fi kit for tBOX/UST SFP (E)
	881745001A0E	GPS Kit M8N w/o adpater for tBOX/UST SFP (E)
	8816N5002A0E	LTE MC7455 (US) kit for tBOX/UST SFP (E)
	8816N5001A0E	LTE MC7455 (US) w/ GPS kit for UST SFP (E)
	88160620BA0E	LTE SIMCOM SIM7100 (EU) for tBOX/UST SFP (E)
	881745000A0E	
	8816N5000A0E	LTE+GPS SIM7100EU kit for tBOX/UST SFP (E)
	8816N5006A0E	LTE SIM7100JC kit for tBOX500, JPN SFP (E)
	8816N5004A0E	LTE+GPS SIM7100 (JPE) kit tBOX (30) SFP (E)
AC to DC Adapter	50906D24000E	LTE+GPS SIM7100C (TW) kit tBOX (30) SFP (E) Adapter 24V/120W, wire only, FSP120-AAAN3

*Specifications and certifications may vary based on different requirements.

Power Protection

OCP (over current protection)
OVP (over voltage protection)
UVP (under voltage protection)
RPP (reverse polarity protection)
ISO 7637-2 pulse 1, 2a, 2b, 3a, 3b, 4 (vehicle version)
Setting for in-vehicle battery protection: system will be automatically turned down at low voltage level
Setting for ignition control: system will activate a counter while in-vehicle battery at low voltage, ACC-ON delay and shut down delay

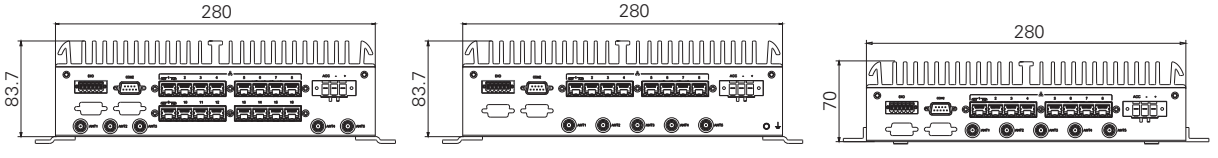
Dimensions



#4SATA swappable drive, 8 RJ-45/8 M12 LAN

#4SATA swappable drive, 16 RJ-45 LAN

#4SATA swappable drive, 8 M12 LAN



#2SATA swappable drive, 16 RJ-45 LAN

#2SATA swappable drive, 8 RJ-45 LAN

#2SATA internal drive, 8 RJ-45 LAN

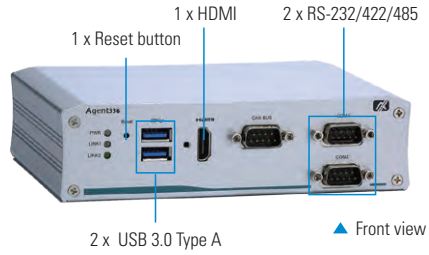
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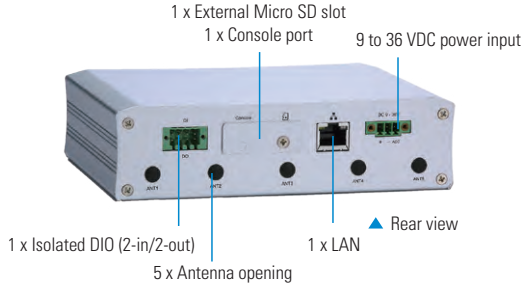
Agent336 NEW

Fanless Embedded System with i.MX 8M Processor, COM, LAN, USB, DIO (2-in/2-out), 2 PCIe Mini Card Slots, Power Design with ACC Ignition and E-Mark Certification for Vehicle Box PC

Features

- RISC-based module (i.MX 8M) processor
- 3GB LPDDR4 memory onboard
- 8GB eMMC onboard
- 9 to 36 VDC wide range power input with terminal block
- Ready-to-run embedded Linux/Android operating system
- Wide operating temperature range from -40°C to +70°C
- E-Mark Certified
- Intelligent solution of vehicle power management (ACC ignition)





i.MX8 | IP40 | Fanless | Low Power | Isolation | E-Mark

Specifications

Construction	Extruded aluminum and heavy-duty steel, IP40
CPU	NXP i.MX 8M Arm® Cortex®-A53, Quad 1.5GHz
System Memory	1 x 3GB LPDDR4 onboard
Chipset	SoC integrated
System I/O Outlet	2 x RS-232/422/485 1 x HDMI 1 x 10/100/1000 Mbps Ethernet 2 x USB 3.0 Type A 1 x Isolated DIO (2-in/2-out,TB 2 x 4P) 1 x RTC battery (for CR2032) *more than 5 years 1 x Reset button 1 x Console port 1 x Buzzer 5 x Antenna opening 1 x Isolated CANBus B
Watchdog Timer	256 levels, 0 to 128 sec.
Storage	1 x eMMC 8GB onboard 1 x Micro SD card socket
Expansion Interface	1 x PCI Express Mini Card socket (USB & PCIe interface) 1 x PCI Express Mini Card socket with 1 SIM socket inside (USB & PCIe interface)
TPM	N/A

System Indicator	1 x Green LED for system power-on 2 x LED for wireless
Power input	9 to 36 VDC, typical: 12/24 VDC
Operating Temperature	-40°C to +70°C (-40°F to +158°F)
Humidity	5% - 95%, non-condensing
Vibration Endurance	3 Grms (5-500Hz, X, Y, Z directions)
Dimensions	163.8 mm (6.4") (W) x 118 mm (4.6") (D) x 44 mm (1.7") (H)
Weight (net/gross)	1.0 kg (2.2 lb)/1.20 kg (1.10 lb)
Certifications	CE Class A, E-Mark
OS Support	Yocto Linux ,Kernel L4.9.51, Linux 4.9.88_2.0.0 Android O8.1.0 (Linux Kernel 4.9.78)

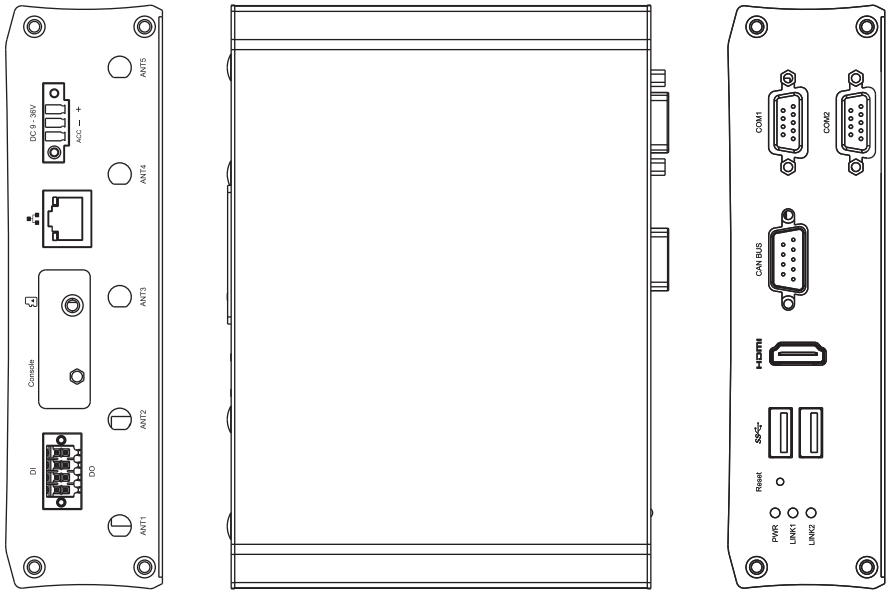
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Ordering Information

Standard	
Agent336	Fanless embedded system with i.MX 8M processor, COM, LAN, USB, DIO (2-in/2-out), and 2 PCIe Mini Card slots, power design with ACC ignition and E-Mark certification for vehicle box PC

Optional
GPS + Gyro sensor
G sensor
PCIe Mini Card (Wi-Fi/3G/4G/LTE/GPS)

Dimensions



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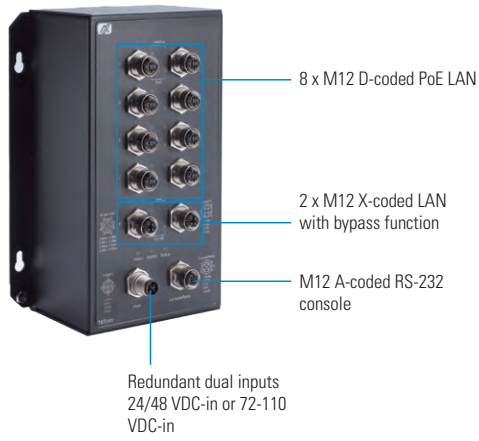
TEN710MW/UW

NEW

Transportation EN 50155 & EN 45545-2 Certified Layer 2 Managed/Unmanaged Switch with 10-port LAN, and PoE Supported

Features

- EN 50155 layer 2 managed/unmanaged Ethernet switch
- Power boost for PoE+, max. budget 150W
- Wide operating temperature range from -40°C to 75°C
- Supports ERPS/QoS/LACP and more network control, and security features
- Reliable IP54 & 5 years warranty



Fanless | Ext. Temp | IP54 | PoE | EN 50155 | EN 45545-2

Specifications

Standard Color	Black	
Construction	SECC enclosure, IP54	
System Performance	Packet buffer 12 Mbits MAC address table size 16K Switching capacity 5.6Gbps Forwarding rate 4.166Mbps	
Interface	2 x M12 X-Coded 10/100/1000Mbps LAN with bypass function 8 x M12 D-Coded 10/100Mbps PoE* LAN 1 x M12 A-coded RS-232 console Light indicator for unit power/Status, port link/active, PoE	
PoE Performance*	• Max.150W@24V output supports PoE & PoE+ -PoE (IEEE 802.3af 15.4W/port) -PoE+ (IEEE 802.3at 30W/port) • Supports Power management**: -Per port enable/disable, priority setting, overloading protection -PD active check/PoE scheduling, PD classification -Power feeding detecting capacity on PD	
Alarm Relay	Relay with current carrying capacity of 1A @ 24 VDC	
Power Input	Redundant dual inputs of 24/48 VDC-in or 72-110 VDC-in	
Operating Temperature	-40°C to +75°C (-40°F to +167°F)	
Dimensions	143 mm (5.63") (W) x 77 mm (3.03") (D) x 209 mm (8.23") (H)	
Mounting	Wall mount and DIN-rail	
Weight (net/gross)	2.2 kg (4.85 lb)/2.5 kg (5.51 lb)	
Certifications	CE (Class A), FCC (Class A), EN 50155, EN 45545-2 certified	
EMC	CE/FCC	EN 55032 (Class A), EN 55024, FCC part 15 B (Class A)
	EN 50155	EN 50121-3-2, IEC 62236-3-2
Vibration Endurance	EN 50155	EN 61373 category 1 class B
Shock	EN 50155	EN(IEC) 61373 category 1 class B, half-sine pulse, 5g, 30ms (longitudinal direction), 3g, 30ms (vertical/transverse direction)

*Only for PoE Switch SKUs, see ordering info
**Only for Managed Switch SKUs, see ordering info
***Available for non-PoE SKUs, see ordering info

Layer 2 Features	• Auto-negotiation	• VLAN port-based **
	• Auto MDI/MDIX	• VLAN Q-in-Q **
	• Flow control (duplex) 802.3x (full)	• IEEE 802.3ad with LACP **
	• Flow control (duplex) back-pressure (half)	• IGMP Snooping v1/v2/v3 supports 1023 IGMP groups **
	• IEEE 802.1D (STP)**	• IGMP static multicast addresses **
	• IEEE 802.1w (RSTP)**	• Querier, immediate leave **
	• IEEE 802.1s (MSTP)**	• Storm control **
	• VLAN group**	• G.8032 - Ethernet Ring Protection Switching (ERPS) **
	• VLAN tagged based**	• Jumbo Frame supports 9216 bytes ***
QoS Features**	• CoS	• WRR/SPQ queuing
	• DSCP	• Storm protection
Security**	• Management system user name/password protection	• TACACS+ RADIUS (authentication, authorization, accounting)
	• IEEE 802.1x port-based access control	• HTTP & SSL (secure web) • SSH v2.0 (secured telnet session)
Management**	• Command Line Interface (CLI)	• DHCP (client/relay) System event/error log
	• Web based management	• SNMP (v1/v2c/v3)
	• Telnet	• NTP/LLDP
	• Firmware Upgraded via HTTP/TFTP	• Port mirroring
	• Configuration download/ upload	• Industrial profiles Ethernet/IP, Modbus TCP
Supported Standard	• IEEE 802.3 – 10BaseT • IEEE 802.3u – 100BaseTX	• IEEE 802.1s – multiple spanning tree **
	• IEEE 802.3ab – 1000BaseT • IEEE 802.3af Power over Ethernet (PoE)* • IEEE 802.3at Power over Ethernet (PoE+)*	• IEEE 802.3ad – Link Aggregation Control Protocol (LACP) ** • IEEE 802.1AB – Link Layer Discovery Protocol (LLDP) **
	• IEEE 802.3x – flow control**	• IEEE 802.1X – access control**
	• IEEE 802.1Q – VLAN ** • IEEE 802.1p – class of service ** • IEEE 802.1D – spanning tree ** • IEEE 802.1w – rapid spanning tree **	• ITU-T G.8032/Y.1344 - Ethernet Ring Protection Switching (ERPS) **

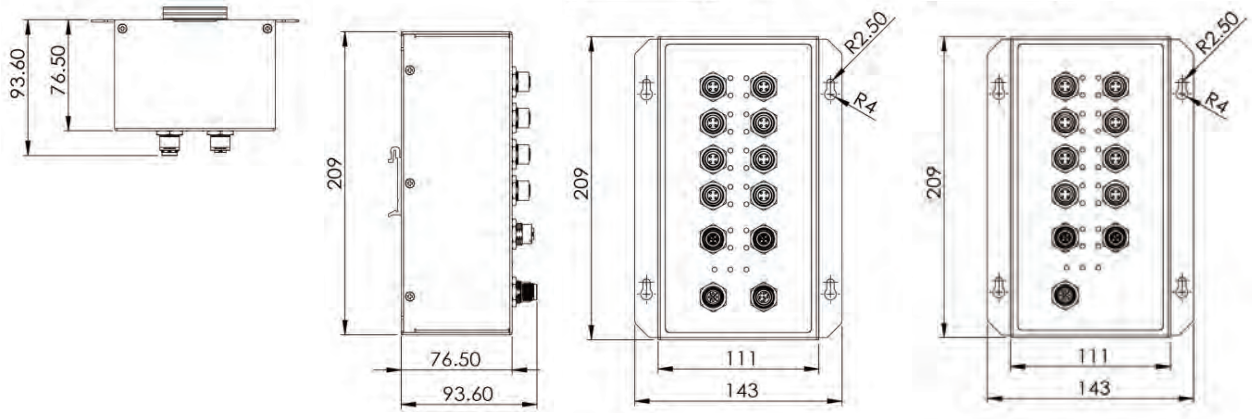
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Ordering Information

Standard	
TEN710MW-2G8TP-B-24V TEN710MW-2G8TP-B-48V TEN710MW-2G8TP-B-HV	Transportation EN 50155/EN 45545-2 certified, IP54-rated managed Ethernet switch with 8 M12 (D) 10/100 Mbps PoE LAN, 2 M12(X) GbE LAN with bypass function, supports ERPS/QoS/LACP and more network control, security features, and dual power input of 24/48 VDC or 72-110 VDC *Managed Switch with PoE*
TEN710MW-2G8T-B-LV TEN710MW-2G8T-B-HV	Transportation EN 50155/EN 45545-2 certified, IP54-rated managed Ethernet switch with 8 M12 (D) 10/100 Mbps LAN, 2 M12(X) GbE LAN with bypass function, supports ERPS/QoS/LACP and more network control, security features, and dual power input of 24-48 VDC or 72-110 VDC *Managed Switch without PoE*
TEN710UW-2G8TP-B-24V TEN710UW-2G8TP-B-48V TEN710UW-2G8TP-B-HV	Transportation EN 50155/EN 45545-2 certified, IP54-rated unmanaged Ethernet switch with 8 M12 (D) 10/100 Mbps PoE LAN, 2 M12 (X) GbE LAN with bypass function, and dual power input of 24/48 VDC or 72-110 VDC *Unmanaged Switch with PoE*
TEN710UW-2G8T-B-LV TEN710UW-2G8T-B-HV	Transportation EN 50155/EN 45545-2 certified, IP54-rated unmanaged Ethernet switch with 8 M12 (D) 10/100 Mbps LAN, 2 M12 (X) GbE LAN with bypass function, and dual power input of 24/48 VDC or 72-110 VDC *Unmanaged Switch without PoE*

*MW: Managed and wall mount/DIN-rail installation
*UW: Unmanaged and wall mount/DIN-rail installation
*B: with Bypass function
*LV: 24-48 VDC power input
*HV: 72-110 VDC power input

Dimensions



#TEN710MW #TEN710UW

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Anti-Vibration Kit NEW

Features

- Equips multidirectional dampers
- Withstands extreme temperatures
- Extends product lifetimes
- Improves HDD stability
- Available for tBOX and UST Series
- Easy installation as wall mount
- Customisable for different application



Ext. Temp

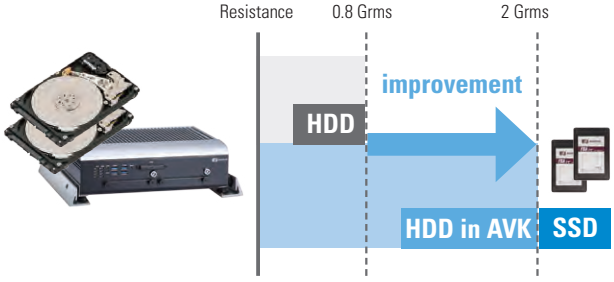
Specifications

Standard Color	Silver
Construction	Aluminum extrusion and heavy-duty steel and damper
Operating Temperature	-10°C to +60°C (32°F to +140°F)
Vibration Reliability	2Grm with tBOX/UST systems equipping HDD(5 to 500Hz, X/Y/Z direction; random pulse shape, operating)

Ordering Information

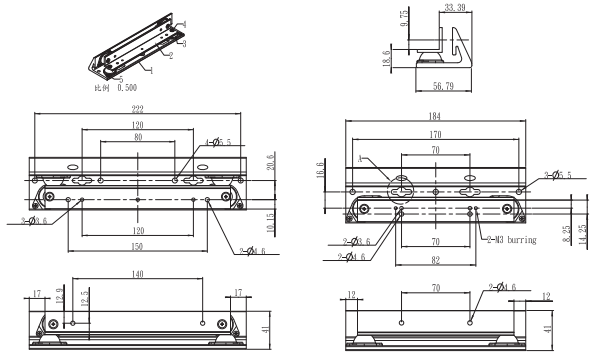
Anti-vibration Kit (P/N: 8816N5008A0E)	• For in-vehicle/rolling stock applicable systems which improves HDD/SSD stability • To be used with tBOX300/324/400/500 & UST500 series
Anti-vibration Kit (P/N: 8816N1000A0E)	• For in-vehicle/rolling stock applicable systems which improves HDD/SSD stability • To be used with UST100/tBOX810/tBOX100

HDD Anti-Vibration Improvement



*For more information of vibration test, please contact Axiomtek 's regional distributor

Dimensions

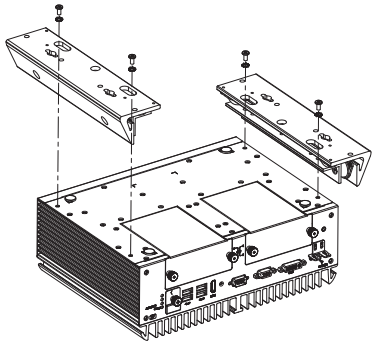


8816N5008A0E

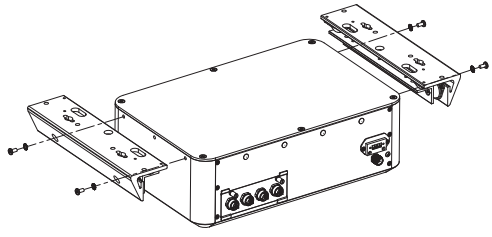
8816N1000A0E

Installation Diagram

*Simply fasten the screw with the Anti-Vibration Kit in the wall mount screw holes on the system as illustration below.



UST500 installation



tBOX300 installation

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VAM100 NEW

Specifications

I/O Outlet	4 x Terminal block 4-wire isolated RS-232/422/485 COM	
Isolation Voltage	2kV	
Operating Temperature	-40°C to +70°C (-40°F to +158°F) with tBOX500 series & Wide operating temperature peripheral -25°C to +70°C (-13°F to +158°F) with tBOX300 series & Wide operating temperature peripheral	
Certications	LVD, FCC, EN 50155 and IEC 60945 certied; CE compliant	
EMC	CE/FCC	EN 61000-6-4 (Class A), EN 61000-6-2 FCC part 15 B (Class A)
	EN 50155	EN 50121-3-2, IEC 62236-3-2
	IEC 60945	IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, CISPR 16-1-1, CISPR 16-1-2, CISPR 16-1-4
LVD	EN 60950-1	
Vibration	3Grm with tBOX300/tBOX500 series (5 to 500Hz, X/Y/Z direction; random, operating)	
	EN 50155	EN 61373 category 1 class B
	IEC 60945	IEC 60068-2-6
Shock	EN 50155	half-sine pulse, 5g, 30ms (longitudinal direction), 3g, 30ms (vertical/transverse direction) compliant

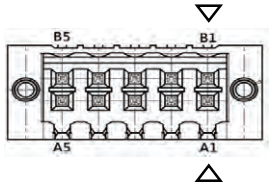
*For more information of certication/EMC/Vibration/Shock as above, please contact Axiomtek 's regional distributor

Ordering Information

VAM100 (P/N: E277100100)	Value-added module with 4 terminal block 4-wire isolated RS-232/422/485 COM and to be used with tBOX300/500 series



Pin Definition



Pin	Signal	RS-422	Signal
A1	GND	GND	GND
A2	RTS	RXN	NC
A3	TXD	RXP	NC
A4	CTS	TXN	DN
A5	RXD	TXP	DP
B1	GND	GND	GND
B2	RTS	RXN	NC
B3	TXD	RXP	NC
B4	CTS	TXN	DN
B5	RXD	TXP	DP

VAM101 NEW

Specifications

I/O Outlet	4 x Terminal block isolated CANBus 2.0A/B	
Isolation Voltage	2kV	
Operating Temperature	-40°C to +70°C (-40°F to +158°F) with tBOX500 series & Wide operating temperature peripheral -25°C to +70°C (-13°F to +158°F) with tBOX300 series & Wide operating temperature peripheral	
Certications	LVD, FCC, EN 50155 and IEC 60945 certied; CE compliant	
EMC	CE/FCC	EN 61000-6-4 (Class A), EN 61000-6-2 FCC part 15 B (Class A)
	EN 50155	EN 50121-3-2, IEC 62236-3-2
	IEC 60945	IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, CISPR 16-1-1, CISPR 16-1-2, CISPR 16-1-4
LVD	EN 60950-1	
Vibration	3Grm with tBOX300/tBOX500 series (5 to 500Hz, X/Y/Z direction; random, operating)	
	EN 50155	EN 61373 category 1 class B
	IEC 60945	IEC 60068-2-6
Shock	EN 50155	Half-sine pulse, 5g, 30ms (longitudinal direction), 3g, 30ms (vertical/transverse direction)

*For more information of certication/EMC/Vibration/Shock as above, please contact Axiomtek 's regional distributor

Ordering Information

VAM101 (P/N: E277101100)	Value-added module with 4 terminal block isolated CANBus 2.0A/B and to be used with tBOX300/500 series



Pin Definition



Pin	Signal	Pin	Signal
1	CAN1_HO	7	CAN3_HO
2	CAN1_LO	8	CAN3_LO
3	ISO1_GND	9	ISO3_GND
4	CAN2_HO	10	CAN4_HO
5	CAN2_LO	11	CAN4_LO
6	ISO2_GND	12	ISO4_GND

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VAM200 NEW

Specifications

I/O Outlet	1 x Terminal block isolated DIO 8-in/8-out	
Isolation Voltage	2kV	
Operating Temperature	-40°C to +70°C (-40°F to +158°F) with tBOX500 series & Wide operating temperature peripheral -25°C to +70°C (-13°F to +158°F) with tBOX300 series & Wide operating temperature peripheral	
Certications	LVD, FCC, EN 50155 and IEC 60945 certified; CE compliant	
EMC	CE/FCC	EN 61000-6-4 (Class A), EN 61000-6-2 FCC part 15 B (Class A)
	EN 50155	EN 50121-3-2, IEC 62236-3-2
	IEC 60945	IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, CISPR 16-1-1, CISPR 16-1-2, CISPR 16-1-4
LVD	EN 60950-1	
Vibration	3Grm with tBOX300/tBOX500 series (5 to 500Hz, X/Y/Z direction; random, operating)	
	EN 50155	EN 61373 category 1 class B
	IEC 60945	IEC 60068-2-6
Shock	EN 50155	Half-sine pulse, 5g, 30ms (longitudinal direction), 3g, 30ms (vertical/transverse direction)

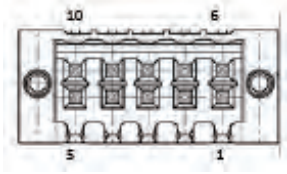
*For more information of certification/EMC/Vibration/Shock as above, please contact Axiomtek 's regional distributor

Ordering Information

VAM200 (P/N: E277200100)	Value-added module with 1 terminal block isolated DIO 8-in/8-out and to be used with tBOX300/500 series



Pin Definition



Pin	CN2	CN3
1	External power	COM+
2	DI_GND	COM-
3	DI0	DO0
4	DI1	DO1
5	DI2	DO2
6	DI3	DO3
7	DI4	DO4
8	DI5	DO5
9	DI6	DO6
10	DI7	DO7

VAM400 NEW

Specifications

I/O Outlet	4 x BNC video-in and 1 x BNC audio-in Supports FPS: NTSC/PAL (up to 120fps @960/720 x 480/100fps @960/720 x 576), H.264 video recording	
Expansion interface	2 x Full size Rev. 1.2 PCI Express Mini Card slot • 1 x USB with SIM socket • 1 x USB/PCIe with SIM socket (occupied by 1 x Capture Card)	
Operating Temperature	-40°C to +70°C (-40°F to +158°F) with tBOX500 series & Wide operating temperature peripheral -25°C to +70°C (-13°F to +158°F) with tBOX300 series & Wide operating temperature peripheral	
Certications	EN 50155 and IEC 60945 certified; CE, LVD and FCC compliant	
EMC	CE/FCC	EN 61000-6-4 (Class A), EN 61000-6-2, FCC part 15 B (Class A)
	EN 50155	EN 50121-3-2, IEC 62236-3-2
	IEC 60945	IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, CISPR 16-1-1, CISPR 16-1-2, CISPR 16-1-4
	FCC	FCC part 15 B (Class A)
LVD	EN 60950-1	
Vibration	3Grm with tBOX300/tBOX500 series (5 to 500Hz, X/Y/Z direction; random, operating)	
	EN 50155	EN 61373 category 1 class B
	IEC 60945	IEC 60068-2-6
Shock	EN 50155	Half-sine pulse, 5g, 30ms (longitudinal direction), 3g, 30ms (vertical/transverse direction)

*For more information of certication/EMC/Vibration/Shock as above, please contact Axiomtek 's regional distributor



Ordering Information

VAM400 (P/N: E277400100)	Value-added module with 4 BNC video-in and 1 BNC audio-in and to be used with tBOX300/500 series

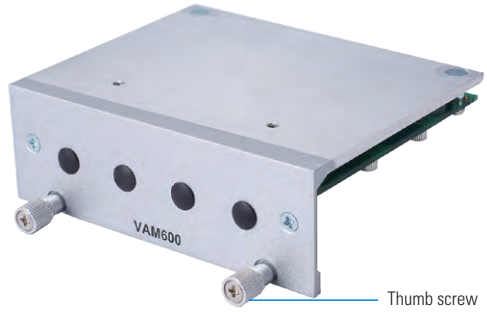
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VAM600 NEW

Specifications

I/O Outlet	4 x Antenna opening	
Expansion interface	2 x Full size Rev. 1.2 PCI Express Mini Card slot • 1 x USB/PCIe with SIM socket • 1 x USB with SIM socket	
Operating Temperature	-40°C to +70°C (-40°F to +158°F) with tBOX500 series & Wide operating temperature peripheral -25°C to +70°C (-13°F to +158°F) with tBOX300 series & Wide operating temperature peripheral	
Certications	LVD, FCC and EN 50155 certified; CE compliant	
EMC	CE/FCC	EN 61000-6-4 (Class A), EN 61000-6-2 FCC part 15 B (Class A)
	EN 50155	EN 50121-3-2, IEC 62236-3-2
LVD	EN 60950-1	
Vibration	3Grm with tBOX300/tBOX500 series (5 to 500Hz, X/Y/Z direction; random, operating)	
	EN 50155	EN 61373 category 1 class B
Shock	EN 50155	Half-sine pulse, 5g, 30ms (longitudinal direction), 3g, 30ms (vertical/transverse direction)

*For more information of certication/EMC/Vibration/Shock as above, please contact Axiomtek 's regional distributor



Ordering Information

VAM600 (P/N: E277600100)	Value-added module with 4 antenna opening and 2 Full size Rev. 1.2 PCI Express Mini Card slot and to be used with tBOX300/500 series

VAM900 NEW

Specifications

I/O Outlet	1 x Terminal block 4-wire isolated RS-232/422/485 COM 1 x Terminal block isolated CANBus 2.0A/B (isolation voltage: 2 kV) 1 x Terminal block isolated DIO 8-in/8-out	
Isolation Voltage	COM & CANBus: 2 kV DIO: 1.5 kV	
Expansion interface	2 x Full-size Rev.1.2 PCI Express Mini Card slot • 2 x USB with SIM socket 1 x Half-size Rev.1.2 PCI Express Mini Card slot • 1 x PCIe	
Operating Temperature	-40°C to +70°C (-40°F to +158°F) with tBOX500 series & Wide operating temperature peripheral -25°C to +70°C (-13°F to +158°F) with tBOX300 series & Wide operating temperature peripheral	
Certications	EN 50155 certified; CE, LVD and FCC compliant	
EMC	CE/FCC	EN 61000-6-4 (Class A), EN 61000-6-2, FCC part 15 B (Class A)
	EN 50155	EN 50121-3-2, IEC 62236-3-2
LVD	EN 60950-1	
Vibration	3Grm with tBOX300/tBOX500 series (5 to 500Hz, X/Y/Z direction; random, operating)	
	EN 50155	EN 61373 category 1 class B
Shock	EN 50155	Half-sine pulse, 5g, 30ms (longitudinal direction), 3g, 30ms (vertical/transverse direction)

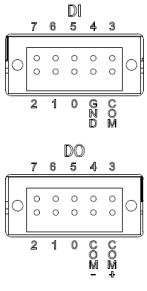
*For more information of certication/EMC/Vibration/Shock as above, please contact Axiomtek 's regional distributor



Ordering Information

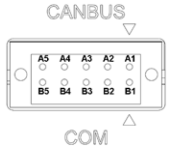
VAM900 (P/N: E277900100)	Value-added module with COM/CAN/DIO and 3 Rev.1.2 PCI Express Mini Card slot and to be used with tBOX300/500 series

Pin Definition



Pin	DI
COM	External power
GND	DI_GND
0	DI0
1	DI1
2	DI2
3	DI3
4	DI4
5	DI5
6	DI6
7	DI7

Pin	DO
COM	COM+
COM-	COM-
0	DO0
1	DO1
2	DO2
3	DO3
4	DO4
5	DO5
6	DO6
7	DO7



Pin	RS232	RS422	RS485
B1	GND	GND	GND
B2	RTS	RXN	RSVD
B3	TXD	RXP	RSVD
B4	CTS	TXN	DN
B5	RXD	TXP	DP

Pin	CANBus
A1	CAN_GND
A2	CAN_H
A3	CAN_L
A4	CAN_GND
A5	RSVD

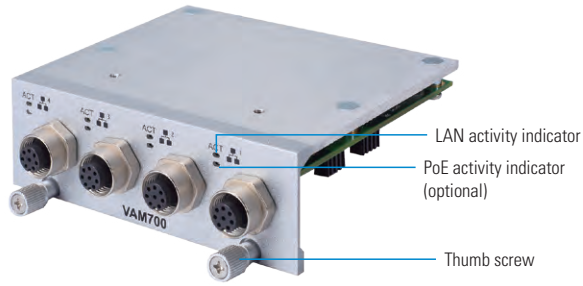
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VAM700/VAM701 NEW

Specifications

I/O Outlet	4 x M12 A-coded GbE LAN	
PoE Performance	4 x manageable M12 output max. 60W supports PoE & PoE+ • PoE (802.3af 15.4W/port), PoE+ (802.3at 30W/port) • manageability in total power budget, port enable/disable • Available with VAM701 and optional external PoE PSU120-259	
Operating Temperature	-40°C to +70°C (-40°F to +158°F) with tBOX500 series & Wide operating temperature peripheral -25°C to +70°C (-13°F to +158°F) with tBOX300 series & Wide operating temperature peripheral	
Certications	LVD, FCC and EN 50155 certified; CE compliant	
EMC	CE/FCC	EN 61000-6-4 (Class A), EN 61000-6-2 FCC part 15 B (Class A)
	EN 50155	EN 50121-3-2, IEC 62236-3-2
	IEC 60945	IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, CISPR 16-1-1, CISPR 16-1-2, CISPR 16-1-4
LVD	EN 60950-1	
Vibration	3Grm with tBOX300/tBOX500 series (5 to 500Hz, X/Y/Z direction; random, operating)	
	EN 50155	EN 61373 category 1 class B
Shock	EN 50155	Half-sine pulse, 5g, 30ms (longitudinal direction), 3g, 30ms (vertical/transverse direction)

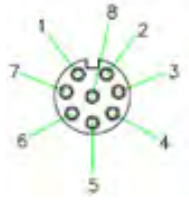
*For more information of certification/EMC/Vibration/Shock as above, please contact Axiomtek 's regional distributor



Ordering Information

VAM700 (P/N: E277700100)	• Value-added module with 4 M12 A-coded GbE LAN and to be used with tBOX300/500 series
VAM701 (P/N: E277701100)	• Value-added module with 4 M12 A-coded GbE LAN and PoE, to be used with tBOX300/500 series • Supports PoE (with optional external PoE PSU120-259)

Pin Definition



M12 A-coded
8-Pin/ Female

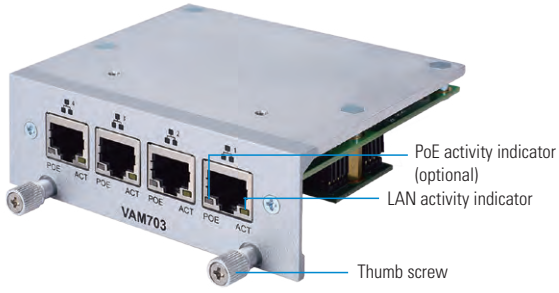
Pin	10/100 Mbps	1000 Mbps
1	--	MDI 2+
2	--	MDI 3+
3	--	MDI 3-
4	TX -	MDI 0-
5	RX +	MDI 1+
6	TX +	MDI 0+
7	--	MDI 2 -
8	RX -	MDI 1 -

VAM702/VAM703 NEW

Specifications

I/O Outlet	4 x RJ-45 GbE LAN	
PoE Performance	4 x manageable RJ-45 output max. 60W supports PoE & PoE+ • PoE (802.3af 15.4W/port), PoE+ (802.3at 30W/port) • manageability in total power budget, port enable/disable • Available with VAM703 and optional external PoE PSU120-259	
Operating Temperature	-40°C to +70°C (-40°F to +158°F) with tBOX500 series & Wide operating temperature peripheral -25°C to +70°C (-13°F to +158°F) with tBOX300 series & Wide operating temperature peripheral	
Certications	LVD, FCC, EN 50155 and IEC 60945 certified; CE compliant	
EMC	CE/FCC	EN 61000-6-4 (Class A), EN 61000-6-2 FCC part 15 B (Class A)
	EN 50155	EN 50121-3-2, IEC 62236-3-2
	IEC 60945	IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, CISPR 16-1-1, CISPR 16-1-2, CISPR 16-1-4
LVD	EN 60950-1	
Vibration	3Grm with tBOX300/tBOX500 series (5 to 500Hz, X/Y/Z direction; random, operating)	
	EN 50155	EN 61373 category 1 class B
	IEC 60945	IEC 60068-2-6
Shock	EN 50155	Half-sine pulse, 5g, 30ms (longitudinal direction), 3g, 30ms (vertical/transverse direction)

*For more information of certication/EMC/Vibration/Shock as above, please contact Axiomtek 's regional distributor



Ordering Information

VAM702 (P/N: E277702100)	• Value-added module with 4 RJ-45 GbE LAN and to be used with tBOX300/500 series
VAM703 (P/N: E277703100)	• Value-added module with 4 RJ-45 GbE LAN and PoE, to be used with tBOX300/500 series • Supports PoE (with optional external PoE PSU120-259)

Pin Definition



Pin	Description	10/100Base-T	1000Base-T
1	Transmits Data+ or Bidirectional	TX+	BI_DA+
2	Transmits Data- or Bidirectional	TX-	BI_DA-
3	Receives Dtata+ or Bidirectional	RX+	BI_DB+
4	Not Connected or Bidirectional	N.C.	BI_DC+
5	Not Connected or Bidirectional	N.C.	BI_DC-
6	Receive Dtata- or Bidirectional	RX-	BI_DB-
7	Not Connected or Bidirectional	N.C.	BI_DD+
8	Not Connected or Bidirectional	N.C.	BI_DD-
ACT	Activity Link LED (Yellow)	OFF : No LinkBlinking: Data activity detected	

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VAM704/VAM705 NEW

Specifications

I/O Outlet	4 x M12 D-coded 10/100 Mbps Ethernet	
PoE Performance	4 x manageable M12 output max. 60W supports PoE & PoE+ • PoE (802.3af 15.4W/port), PoE+ (802.3at 30W/port) • manageability in total power budget, port enable/disable • Available with VAM705 and optional external PoE PSU120-259	
Operating Temperature	-40°C to +70°C (-40°F to +158°F) with tBOX500 series & Wide operating temperature peripheral -25°C to +70°C (-13°F to +158°F) with tBOX300 series & Wide operating temperature peripheral	
Certications	CE, LVD, FCC and EN 50155 compliant	
EMC	CE/FCC	EN 61000-6-4 (Class A), EN 61000-6-2, FCC part 15 B (Class A)
	EN 50155	EN 50121-3-2, IEC 62236-3-2
LVD	EN 60950-1	
Vibration	3Grm with tBOX300/tBOX500 series (5 to 500Hz, X/Y/Z direction; random, operating)	
	EN 50155	EN 61373 category 1 class B
Shock	EN 50155	Half-sine pulse, 5g, 30ms (longitudinal direction), 3g, 30ms (vertical/transverse direction)

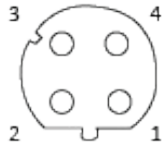
*For more information of certication/EMC/Vibration/Shock as above, please contact Axiomtek 's regional distributor

Ordering Information

VAM704 (P/N: E277704100)	• Value-added module with 4 M12 D-coded 10/100 Mbps Ethernet and to be used with tBOX300/500 series
VAM705 (P/N: E277705100)	• Value-added module with 4 M12 D-coded 10/100 Mbps LAN and PoE, to be used with tBOX300/500 series • Supports PoE (with optional external PoE PSU120-259)



Pin Definition



M12 D-coded
4-Pin/ Female

Pin	10/100 Mbps
1	TxData+
2	RxData+
3	TxData-
4	RxData-

VAM706/VAM707 NEW

Specifications

I/O Outlet	4 x M12 X-coded GbE LAN	
PoE Performance	4 x manageable M12 output max. 60W supports PoE & PoE+ • PoE (802.3af 15.4W/port), PoE+ (802.3at 30W/port) • manageability in total power budget, port enable/disable • Available with VAM707 and optional external PoE PSU120-259	
Operating Temperature	-40°C to +70°C (-40°F to +158°F) with tBOX500 series & Wide operating temperature peripheral -25°C to +70°C (-13°F to +158°F) with tBOX300 series & Wide operating temperature peripheral	
Certications	CE, LVD, FCC and EN 50155 compliant	
EMC	CE/FCC	EN 61000-6-4 (Class A), EN 61000-6-2, FCC part 15 B (Class A)
	EN 50155	EN 50121-3-2, IEC 62236-3-2
LVD	EN 60950-1	
Vibration	3Grm with tBOX300/tBOX500 series (5 to 500Hz, X/Y/Z direction; random, operating)	
	EN 50155	EN 61373 category 1 class B
Shock	EN 50155	Half-sine pulse, 5g, 30ms(longitudinal direction), 3g, 30ms (vertical/transverse direction)

*For more information of certication/EMC/Vibration/Shock as above, please contact Axiomtek 's regional distributor

Ordering Information

VAM706 (P/N: E277706100)	• Value-added module with 4 M12 X-coded GbE LAN and PoE, to be used with tBOX300/500 series
VAM707 (P/N: E277707100)	• Value-added module with 4 M12 X-coded GbE LAN and PoE, to be used with tBOX300/500 series • Supports PoE (with optional external PoE PSU120-259)



Pin Definition



M12 X-coded
8-Pin/ Female

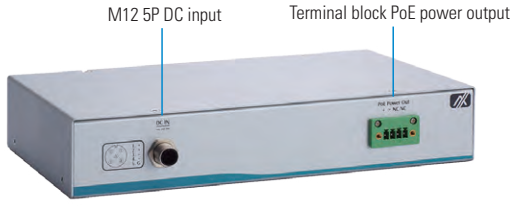
Pin	10/100 Mbps	1000 Mbps
1	TX +	MDI 0+
2	TX -	MDI 0-
3	RX +	MDI 1+
4	RX -	MDI 1-
5	--	MDI 3+
6	--	MDI 3-
7	--	MDI 2 -
8	--	MDI 2+

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PSU120-259 NEW

PoE Power Sourcing Equipment for tBOX300/tBOX400/tBOX500 Series

Fanless | Ext. Temp | Compliant EN 50155 | Compliant IEC 60945



PSU120-259 series

Specifications

Power Source	1 x M12 5P DC input	
PoE Performance	1 x Terminal block PoE power output, maximum 120W (to be used with tBOX300/400/500 series and VAM PoE LAN series)	
Operating Temperature	-40°C to +60°C (-40°F to +140°F) with tBOX400/500 series & wide operating temperature peripheral -25°C to +60°C (-13°F to +140°F) with tBOX300 series & wide operating temperature peripheral	
Certications	CE, FCC, EN 50155 and IEC 60945 compliant	
EMC	CE/FCC	EN 61000-6-4 (Class A), EN 61000-6-2, FCC part 15 B (Class A)
	EN 50155	EN 50121-3-2, IEC 62236-3-2
	IEC 60945	IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, CISPR 16-1-1, CISPR 16-1-2, CISPR 16-1-4
Vibration	3Grm with tBOX300/tBOX500 series (5 to 500Hz, X/Y/Z direction; random, operating)	
	EN 50155	EN 61373 category 1 class B
	IEC 60945	IEC 60068-2-6
Shock	EN 50155	half-sine pulse, 5g, 30ms (longitudinal direction), 3g, 30ms (vertical/transverse direction)

*For more information of certication/EMC/Vibration/Shock as above, please contact Axiomtek 's regional distributor

Ordering Information

Standard	
PSU120-259 Railway-24VDC (P/N: E276120101) Railway-48VDC (P/N: E276120102) Railway-96/110VDC (P/N: E276120103)	Fanless EN 50155 compliant PoE power sourcing equipment with 24/48/96/110 VDC-in supported *For tBOX500/tBOX300 Railway series*
PSU120-259 Railway-24VDC-400 (P/N: E276120105) Railway-48VDC-400 (P/N: E276120106) Railway-96/110VDC-400 (P/N: E276120107)	Fanless EN 50155 compliant PoE power sourcing equipment with 24/48/96/110 VDC-in supported *For tBOX400 Railway series*
PSU120-259 Marine-24VDC (P/N: E276120104)	Fanless IEC 60945 certied PoE power sourcing equipment with 24 VDC-in supported *For tBOX500 Marine series*

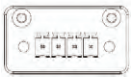
Pin Definition



M12 5P DC input

Pin	Signal
1	VCC
2	VCC
3	System GND
4	System GND
5	Chassis GND

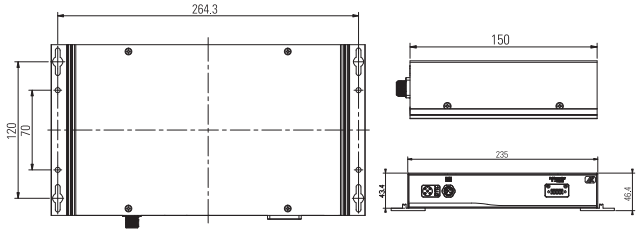
PoE Power Out
+ - NC NC



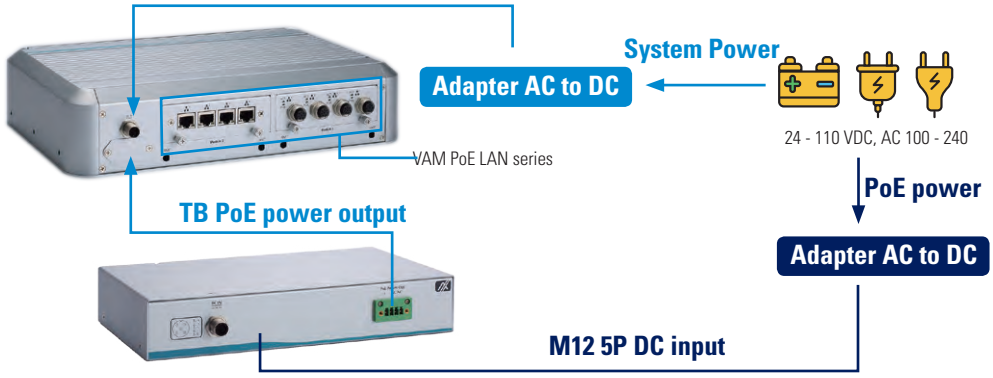
TB PoE power output

Pin	Signal
1	VCC
2	System GND
3	NC
4	NC

Dimensions



Application Diagram



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NOTES

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4 DIN-rail Embedded Systems

Axiomtek's rBOX series, ICO series, IFB series and IRU series provide solutions as industrial IoT gateways, specifically designed for intelligent computing and communication applications like power plant automation, intelligent transportation systems, unmanned control room and more. When it comes to Industrial IoT or Industry 4.0 solution, one of the important factors is the gateway solution. The Industrial IoT gateway collects data from sensor and sends the data to cloud. Axiomtek provides a variety of gateway products which have passed heavy industrial EMI/EMS (Electro-Magnetic Susceptibility/Electro-Magnetic Interference) tests, and are also in compliance with multiple safety standards including ATEX and C1D2 certifications (anti-explosion).

	Selection Guide		195
	x86-based Series		
	ICO100-839	Robust DIN-rail Fanless Embedded System with Intel® Celeron® Processor N3350, 2 COM, LAN, 2 USB and DIO	201
	ICO120-83D	Robust DIN-rail Fanless Embedded System with Intel® Celeron® Processor N3350, COM or CAN, 2 LAN, 2 USB and DIO	203
	ICO300	Robust DIN-rail Fanless Embedded System with Intel® Atom® Processor E3815/E3827, 4 COM, 2 LAN, DIO and RTC	205
	ICO300-83B	Robust DIN-rail Fanless Embedded System with Intel® Celeron® Processor N3350/Pentium® Processor N4200, Isolated COM, LAN and DIO	207
	ICO310	Robust DIN-rail Fanless Embedded System with Intel® Celeron® Processor N3060/N3160, 2 COM, 4 USB, 2 GbE LAN (1 PoE PD), DIO and RTC	209
	ICO320-83C	Robust DIN-rail Fanless Embedded System with Intel® Celeron® Processor N3350/Pentium® Processor N4200, COM or CAN, PoE LAN and DIO	211
NEW	ICO500-518	Robust DIN-rail Fanless Embedded System with 7th Gen Intel® Core™ i7/i5/i3 & Celeron® Processor and Dual Modular I/O Expansion Design	213
	rBOX510-6COM (ATEX/C1D2)	ATEX & CID2 Anti-Explosion Certified Robust DIN-rail Fanless Embedded System with Intel® Atom® Processor E3827	215
	ARM-based Series		
NEW	Agent200-FL-DC	Robust RISC-based DIN-rail Fanless Embedded System with i.MX 6UL Processor, 1 COM, 1 LAN and DIO (4-in/4-out), Optional CANbus	217

IRU131	Robust RISC-based DIN-rail Fanless Embedded System with i.MX 6UL Processor, COM, LAN, DIO (2-in/2-out) and 2 PCIe Mini Card Slots	219
IRU151	Robust RISC-based DIN-rail Fanless Embedded System with i.MX 6UL Processor, COM, LAN, DIO (2-in/2-out), 4 AI Channels (16-bit, 100 S/s) and 2 PCIe Mini Card Slots	221
IRU152	Robust RISC-based DIN-rail Fanless Embedded System with i.MX 6UL Processor, COM, LAN, DIO (2-in/2-out), 4 AI Channels (16-bit, 250 kS/s) and 2 PCIe Mini Card Slots	223
IFB112	Robust RISC-based DIN-rail Fanless Embedded System with i.MX 6UL Processor, COM, CANbus, 2 LAN and DIO (2-in/1-out)	225
IFB122	Robust RISC-based DIN-rail Fanless Embedded System with i.MX 6UL Processor, 2 COM, 2 LAN and DIO (2-in/1-out)	227
IFB125	Robust RISC-based DIN-rail Fanless Embedded System with i.MX 6UL Processor, COM, SPI, I2C, 2 LAN and DIO (2-in/1-out)	229

Systems and Platforms

x86-based DIN-rail Embedded Systems

Selection Guide







Features\Models	ICO100-839	ICO120-83D	ICO300
CPU Level	Intel® Celeron® N3350 1.1 GHz	Intel® Celeron® N3350 1.1 GHz	Intel® Atom® E3815 1.46 GHz Intel® Atom® E3827 1.75 GHz
System Memory	1 x DDR3L-1866 SODIMM, up to 8GB	1 x DDR3L-1866 SO-DIMM, up to 8GB	1 x DDR3L 1333/1600 SO-DIMM, up to 8GB
Chipset	SoC integrated	SoC integrated	SoC integrated
TPM	TPM 1.2 (optional)	TPM 1.2 (optional)	TPM 1.2 (optional)
Serial	2 x Serial console or RS-232/422/485	1 x Serial console or RS-232/422/485 (ICO120-COM)	4 x Serial console or RS-232/422/485
CANbus	N/A	1 x CANBus 2.0 A/B (ICO120-CAN)	N/A
Display	1 x VGA	1 x VGA	1 x VGA
Ethernet	1 x 10/100/1000 Mbps Ethernet (Intel® i210-IT/Intel® i211-AT)	1 x 10/100/1000 Mbps Ethernet (Intel® i210-IT/Intel® i211-AT)	2 x 10/100/1000 Mbps Ethernet (Intel® i211-AT)
PoE	N/A	N/A	N/A
Expansion Interface	2 x Full-size PCI Express Mini Card slot	1 x Half-size PCI Express Mini Card slot 1 x Full-size PCI Express Mini Card slot	1 x Full-size PCI Express Mini Card slot
DIO	1 x 8-bit programmable DIO	1 x 8-bit programmable DIO	1 x 8-bit programmable DIO
USB	2 x USB 2.0	2 x USB 2.0	2 x USB 2.0
Storage	1 x Full-size mSATA (occupied 1 PCI Express Mini Card slot) 1 x eMMC flash onboard (optional)	1 x Half-size mSATA (occupied 1 PCI Express Mini Card slot) 1 x eMMC flash onboard (optional	1 x Full-size mSATA (occupied 1 PCI Express Mini Card slot, mSATA/wireless module either one) 1 x CF™ (mSATA/CF™ either one) 1 x 2.5" SATA SSD/HDD
Watchdog Timer	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.
Power Input	12 to 24 VDC (terminal block)	12 to 24 VDC (terminal block)	12 to 24 VDC (terminal block)
Operating Temperature	-20°C to +70°C (-4°F to +158°F) -40°C to +70°C (-40°F to +158°F) (ICO100-WT)	-20°C to +70°C (-4°F to +158°F) -40°C to +70°C (-40°F to +158°F) (ICO120-WT)	-20°C to +70°C (-4°F to +158°F)
Dimensions (W x D x H)	31 x 100 x 125 mm (1.22" x 3.93" x 4.92")	31 x 100 x 125 mm (1.22" x 3.93" x 4.92")	48 x 110 x 155 mm (1.88" x 4.33" x 6.1")
Weight (net/gross)	0.3 kg (0.67 lb)/0.46 kg (1 lb)	0.3 kg (0.67 lb)/0.46 kg (1 lb)	1.0 kg (2.2 lb)/1.50 kg (3.3 lb)
Certifications	CE, FCC	CE, FCC	CE, FCC, UL
Mounting	DIN-rail/wall mount (optional)	DIN-rail/wall mount (optional)	DIN-rail/wall mount (optional)
EOS Support	Windows® 10 IoT, Linux	Windows® 10 IoT, Linux	Windows® 10 IoT, Linux
Software Support	AMS.AXView	AMS.AXView	N/A

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Features\Models	ICO300-83B	ICO310	ICO320-83C
CPU Level	Intel® Celeron® N3350 1.1 GHz Intel® Pentium® N4200 1.1 GHz	Intel® Celeron® N3060 1.6 GHz Intel® Celeron® N3160 1.6 GHz	Intel® Celeron® N3350 1.1 GHz Intel® Pentium® N4200 1.1 GHz (by request)
System Memory	1 x DDR3L 1866 SO-DIMM, up to 8GB	1 x DDR3L-1600 SODIMM, up to 8GB	1 x DDR3L 1866 SO-DIMM, up to 8 GB
Chipset	SoC integrated	SoC integrated	SoC integrated
TPM	TPM 1.2 (optional)	N/A	TPM 1.2 (optional)
Serial	4 x isolated serial console or RS-232/422/485 (ICO300-83B-4COM) (ICO300-83B-4ICOM) 2 x isolated serial console or RS-232/422/485 (ICO300-83B-2ICOM) (ICO300-83B-2COM)	2 x Serial console or RS-232/422/485 (ICO300-83B-4 COM)	2 x Serial console or RS-232/422/485 (ICO320-2COM) 1 x Serial console or RS-232/422/485 (ICO320-COM-CAN)
CANbus	N/A	N/A	1 x CANBus 2.0 A/B (ICO320-COM-CAN)
Display	1 x VGA or 1 x HDMI (optional)	1 x VGA	1 x VGA
Ethernet	2 x 10/100/1000 Mbps Ethernet (Intel® i210-IT/Intel® i211-AT)	2 x 10/100/1000 Mbps Ethernet (Intel® i211-AT)	4 x 10/100/1000 Mbps Ethernet (Intel® i211-AT)
PoE	N/A	PoE+ (PD, 802.3at 25.5W/port)	4 x RJ-45 PoE output max. 120W: PoE+ (802.3at 30W/port)
Expansion Interface	2 x Full-size PCI Express Mini Card slot	2 x Full-size PCI Express Mini Card slot	1 x Half-size PCI Express Mini Card slot 1 x Full-size PCI Express Mini Card slot
DIO	N/A	1 x 8-bit programmable DIO	1 x 8-bit programmable DIO (optional)
USB	4 x USB 3.0	2 x USB 3.0 2 x USB 2.0	2 x USB 3.0
Storage	1 x Full-size mSATA (occupied 1 PCI Express Mini Card slot, mSATA/wireless module either one) 1 x 2.5" SATA SSD/HDD	1 x Full-size mSATA (occupied 1 PCI Express Mini Card slot, mSATA/wireless module either one) 1 x 2.5" SATA SSD/HDD	1 x Half-size mSATA (occupied 1 PCI Express Mini Card slot, mSATA/wireless module either one) 1 x 2.5" SATA SSD/HDD
Watchdog Timer	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.
Power Input	12 to 24 VDC (terminal block)	12 to 24 VDC (terminal block)	12 to 24 VDC (terminal block)
Operating Temperature	-20°C to +70°C (-4°F to +158°F) (ICO300-83B-N3350) -40°C to +70°C (-40°F to +158°F) (ICO300-83B-N3350-WT) -40°C to +60°C (-4°F to +140°F) (ICO300-83B-N4200-WT)	-20°C to +60°C (-4°F to +140°F) (ICO310-N3060, ICO310-N3060-PD, ICO310-N3160) or over +50°C (ICO310-N3160-PD)	-40°C to +70°C (-4°F to +158°F)
Dimensions (W x D x H)	48 x 110 x 155 mm (1.88" x 4.33" x 6.1")	48 x 110 x 155 mm (1.88" x 4.33" x 6.1")	48 x 110 x 155 mm (1.88" x 4.33" x 6.1") (ICO320-4LAN) 77 x 110 x 155 mm (3.03" x 4.33" x 6.1") (ICO320-4PoE)
Weight (net/gross)	1.0 kg (2.2 lb)/1.50 kg (3.3 lb)	1.0 kg (2.2 lb)/1.50 kg (3.3 lb)	1.2 kg (2.2 lb)/1.70 kg (3.3 lb) (ICO320-4PoE) 1.0 kg (2.2 lb)/1.50 kg (3.3 lb) (ICO320-4LAN)
Certifications	CE, FCC	CE, FCC	CE, FCC
Mounting	DIN-rail/wall mount (optional)	DIN-rail/wall mount (optional)	DIN-rail/wall mount (optional)
EOS Support	Windows® 10 IoT, Linux	Windows® 10 IoT, Linux	Windows® 10 IoT, Linux
Software Support	N/A	AMS.AXView	N/A

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x86-based DIN-rail Embedded Systems

Selection Guide

NEW





Features\Models	ICO500-518	rBOX510-6COM(ATEX/CID2)
CPU Level	Intel® Core™ i7-7600U 2.8 GHz Intel® Core™ i5-7300U 2.6 GHz Intel® Core™ i3-7100U 2.4 GHz Intel® Celeron® 3965U 2.2 GHz	Intel® Atom® E3827 1.75 GHz Intel® Atom® E3845 1.91 GHz
System Memory	DDR4-2133 SO-DIMM, up to 16GB	DDR3L 4GB onboard
Chipset	N/A	SoC integrated
TPM	TPM 2.0 (optional)	N/A
Serial	1 x Serial console or RS-232/422/485	2 x Serial console or RS-232/422/485 4 x Serial console or isolated RS-232/422/485 (terminal block)
CANbus	N/A	N/A
Display	1 x VGA	1 x VGA
Ethernet	2 x 10/100/1000 Mbps Ethernet (Intel® i210-IT)	2 x 10/100/1000 Mbps Ethernet (Intel® i210-IT)
PoE	N/A	N/A
Expansion Interface	2 x Full-size PCI Express Mini Card slot 1 x External SIM card slot	1 x Full-size PCI Express Mini Card slot 2 x Full-size PCI Express Mini Card slot
DIO	1 x Isolated 4-in/4-out DIO (terminal block)	1 x Isolated 8-in/8-out DIO (terminal block)
USB	4 x USB 3.0	1 x USB 3.0 1 x USB 2.0
Storage	1 x External CFast™ 1 x 2.5" SATA SSD/HDD	1 x Full-size mSATA (occupied 1 PCI Express Mini Card slot, mSATA/ wireless module either one) 1 x CF™ 1 x 2.5" SATA SSD/HDD
Watchdog Timer	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.
Power Input	12 to 48 VDC (terminal block)	12 to 48 VDC (terminal block)
Operating Temperature	-40°C to +70°C (-40°F to +158°F) with 2 PIM (PIM700 excluded) -40°C to +60°C (-40°F to +140°F) with 1 PIM700, 1 the other PIM -40°C to +50°C (-40°F to +122°F) with 2 PIM700	-40°C to +70°C (-40°F to +158°F)
Dimensions (W x D x H)	145 x 125 x 155 mm (5.70" x 4.92" x 6.10")	85.6 x 110 x 155 mm (3.37" x 4.33" x 6.1")
Weight (net/gross)	2.11 kg (4.65 lb)/3.3 kg (7.27 lb) (PIM module excluded)	1.5 kg (3.3 lb)/1.88 kg (4.14 lb)
Certifications	CE, FCC	CE, FCC, ATEX, C1D2
Mounting	DIN-rail	DIN-rail/wall mount (optional)
EOS Support	Windows® 10 IoT, Linux	Windows® 10 IoT, Linux
Software Support	AMS.AXView	AMS.AXView

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ARM-based DIN-rail Embedded Systems

Selection Guide







Features\Models	Agnet200-FL-DC	IRU131	IRU151
CPU Level	NXP i.MX 6UltraLite, ARM® Cortex®-A7, 528 MHz	NXP i.MX 6UltraLite, ARM® Cortex®-A7, 528 MHz	NXP i.MX 6UltraLite, ARM® Cortex®-A7, 528 MHz
System Memory	1 x DDR3 256MB onboard	1 x DDR3 512MB onboard	1 x DDR3 512MB onboard
Serial	1 x RS-232/422/485 (selected by software)	1 x RS-232/422/485 (selected by software)	1 x RS-232/422/485 (selected by software)
CANBus	N/A	N/A	N/A
Console Port	Yes For user setting with debug	Yes For user setting with debug	Yes For user setting with debug
Ethernet	1 x 10/100 Mbps (isolation 1.5 kV)	1 x 10/100 Mbps (isolation 1.5 kV)	1 x 10/100 Mbps (isolation 1.5 kV)
Wireless	2 x PCI Express Mini Card slot (USB signal only) 1 x SIM card socket	2 x PCI Express Mini Card slot (USB signal only) 1 x SIM card socket	2 x PCI Express Mini Card slot (USB signal only) 1 x SIM card socket
DIO	1 x DIO (4-in/4-out)	1 x DIO (2-in/2-out)	1 x DIO (2-in/2-out)
USB	1 x USB 2.0	1 x USB 2.0	1 x USB 2.0
Expansion Interface	N/A	N/A	4 AI channels (16-bit, 100 S/s)
Storage	1 x eMMC 4GB ¬ash onboard	1 x eMMC 8GB onboard	1 x eMMC 8GB onboard
Watchdog Timer	0.5 to 128 sec. (time resolution of 0.5 sec.)	0.5 to 128 sec. (time resolution of 0.5 sec.)	0.5 to 128 sec. (time resolution of 0.5 sec.)
Power Input	9 to 48 VDC	9 to 48 VDC	9 to 48 VDC
Operating Temperature	-40°C to +70°C (-40°F to +158°F)	-40°C to +70°C (-40°F to +158°F)	-40°C to +70°C (-40°F to +158°F)
Dimensions (W x D x H)	31 x 100 x 125 mm (1.22" x 3.94" x 4.92")	55 x 82 x 108 mm (2.16" x 3.23" x 4.25")	55 x 82 x 108 mm (2.16" x 3.23" x 4.25")
Weight (net/gross)	0.3 kg (0.66 lb)/0.44 kg (0.97 lb)	0.3 kg (0.66 lb)/0.50 kg (1.10 lb)	0.32 kg (0.71 lb)/0.53 kg (1.17 lb)
Certifications	Heavy industrial CE, FCC part 15	Heavy industrial CE, FCC part 15	Heavy industrial CE, FCC part 15
OS Support	Yocto 2.4 (rocko), Kernel 4.9.88	Yocto (Linux Kernel : 3.14.52)	Yocto (Linux Kernel : 3.14.52)

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ARM-based DIN-rail Embedded Systems

Selection Guide







Features\Models	IRU152	IFB112	IFB122
CPU Level	NXP i.MX 6UltraLite, ARM® Cortex®-A7, 528 MHz	NXP i.MX 6UltraLite, ARM® Cortex®-A7, 528 MHz	NXP i.MX 6UltraLite, ARM® Cortex®-A7, 528 MHz
System Memory	1 x DDR3 512MB onboard	1 x DDR3 256MB onboard	1 x DDR3 256MB onboard
Serial	1 x RS-232/422/485 (selected by software)	1 x RS-232/422/485 (selected by software)	2 x RS-232/422/485 (selected by software)
CANBus	N/A	1 x CAN 2.0 B	N/A
Console Port	Yes For user setting with debug	Yes	Yes
Ethernet	1 x 10/100 Mbps (isolation 1.5 kV)	2 x 10/100 Mbps (isolation 1.5 kV)	2 x 10/100 Mbps (isolation 1.5 kV)
Wireless	2 x PCI Express Mini Card slot (USB signal only) 1 x SIM card socket	1 x PCI Express Mini Card slot (USB signal only) 1 x SIM card socket	1 x PCI Express Mini Card slot (USB signal only) 1 x SIM card socket
DIO	1 x DIO (2-in/2-out)	1 x DIO (2-in/1-out)	1 x DIO (2-in/1-out)
USB	1 x USB 2.0	1 x USB 2.0	1 x USB 2.0
Expansion Interface/ Analog Input	4 AI channels (16-bit, 250 kS/s)	N/A	N/A
Storage	1 x eMMC 8GB onboard	1 x eMMC 4GB onboard	1 x eMMC 4GB onboard
Watchdog Timer	0.5 to 128 sec. (time resolution of 0.5 sec.)	0.5 to 128 sec. (time resolution of 0.5 sec.)	0.5 to 128 sec. (time resolution of 0.5 sec.)
Power Input	9 to 48 VDC	9 to 48 VDC	9 to 48 VDC
Operating Temperature	-40°C to +70°C (-40°F to +158°F)	-40°C to +70°C (-40°F to +158°F)	-40°C to +70°C (-40°F to +158°F)
Dimensions (W x D x H)	55 x 82 x 108 mm (2.16" x 3.23" x 4.25")	31 x 100 x 125 mm (1.22" x 3.94" x 4.92")	31 x 100 x 125 mm (1.22" x 3.94" x 4.92")
Weight (net/gross)	0.32 kg (0.71 lb)/0.53 kg (1.17 lb)	0.3 kg (0.66 lb)/0.44 kg (0.97 lb)	0.3 kg (0.66 lb)/0.44 kg (0.97 lb)
Certifications	Heavy industrial CE, FCC part 15	Heavy industrial CE, FCC part 15	Heavy industrial CE, FCC part 15
OS Support	Yocto (Linux Kernel : 3.14.52)	Yocto (Linux Kernel : 3.14.52)	Yocto (Linux Kernel : 3.14.52)

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Features\Models	IFB125
CPU Level	NXP i.MX 6UltraLite, ARM® Cortex®-A7, 528 MHz
System Memory	1 x DDR3 256MB onboard
Serial	1 x RS-232/422/485
CANBus	N/A
Console Port	Yes
Ethernet	2 x 10/100 Mbps (isolation 1.5 kV)
Wireless	1 x PCI Express Mini Card slot (USB signal only) 1 x SIM card socket
DIO	1 x DIO (2-in/1-out)
USB	1 x USB 2.0
Expansion Interface	1 x I2C (with 3.3V @ 0.5A powered) 1 x SPI (with 3.3V @ 0.5A powered) (DB9 connector)
Storage	1 x eMMC 8GB flash onboard
Watchdog Timer	0.5 to 128 sec. (time resolution of 0.5 sec.)
Power Input	9 to 48 VDC
Operating Temperature	-40°C to +70°C (-40°F to +158°F)
Dimensions (W x D x H)	31 x 100 x 125 mm (1.22" x 3.94" x 4.92")
Weight (net/gross)	0.3 kg (0.66 lb)/0.44 kg (0.97 lb)
Certifications	Heavy industrial CE, FCC part 15
OS Support	Yocto (Linux Kernel : 3.14.52)

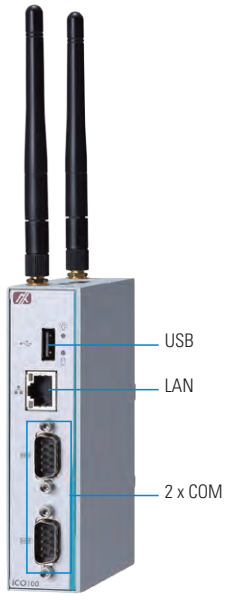
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ICO100-839

Robust DIN-rail Fanless Embedded System with Intel® Celeron® Processor N3350, 2 COM, LAN, 2 USB and DIO

Features

- Extreme cost-effective with fanless and cableless design
- Intel® Celeron® processor N3350
- 2 COM, 2 USB and GbE LAN
- 8-bit programmable DIO for IoT gateway applications
- Wide operating temperature range from -40°C to +70°C
- 12 to 24 VDC wide range power input
- OVP, UVP, OCP, RPP power protection design
- AMS.AXView intelligent remote monitoring software for IIoT



▲ Front view



▲ Rear view





EN60950 | Ext. Temp | IP40 | Fanless | Low Power | AMS.AXView

Specifications

Standard Color	Sliver	
Construction	Extruded aluminum and heavy-duty steel, IP40	
CPU	Intel® Celeron® processor N3350 (1.1 GHz, Dual Core)	
System Board	SBC87839	
System Memory	1 x DDR3L-1866 SO-DIMM, up to 8GB	
BIOS	AMI UEFI BIOS	
System I/O Outlet	Serial	2 x RS-232/422/485 Interface select by BIOS Supports Auto Flow Control in RS-485 mode
	RTC	Battery onboard
	USB	2 x USB 2.0
	Storage	mSATA shared with mPCIe slot (option eMMC flash onboard)
	LAN	1 x 10/100/1000 Mbps Ethernet (Intel® i211-AT for ICO100) (Intel® i210-IT for ICO100-WT) Magnetic isolation protection 1.5kV
	Display	1 x VGA (DB15 connector)
	DIO	1 x DI/DO (8-bit programmable, DB9 female connector) Voltage is 5V TTL-level Programming: I/O sink current is 10mA (max.) Input/output can be programming
	Power Input	1 x DC power input with terminal block

Extension Interface	1 x Full-size PCI Express Mini Card slot with SIM slot (for wireless module) 1 x Full-size PCI Express Mini Card slot with mSATA (for wireless module or mSATA)
Watchdog Timer	255 levels, 1 to 255 sec.
System Indicator	Power, active
Power Supply	Power Input Range: 12 to 24 VDC, 1.15 to 0.62A (13.80 to 14.88W) Protection: OVP (±20%), reverse protection
Operating Temperature	-20°C to +70°C (-4°F to +158°F) -40°C to +70°C (-40°F to +158°F) (ICO100-WT)
Humidity	10% to 95%
Vibration Endurance	2 Gms (5 to 500Hz, amplitude 0.35 mm; operation/storage/transport)
Weight (net/gross)	0.3 kg (0.67 lb)/0.46 kg (1 lb)
Certifications	CE, FCC Class A
Dimensions	31 mm (1.22") (W) x 100 mm (3.93") (D) x 125 mm (4.92") (H)
EOS Support	Windows® 10 IoT, Linux support package (by request)
Software Support	AMS.AXView

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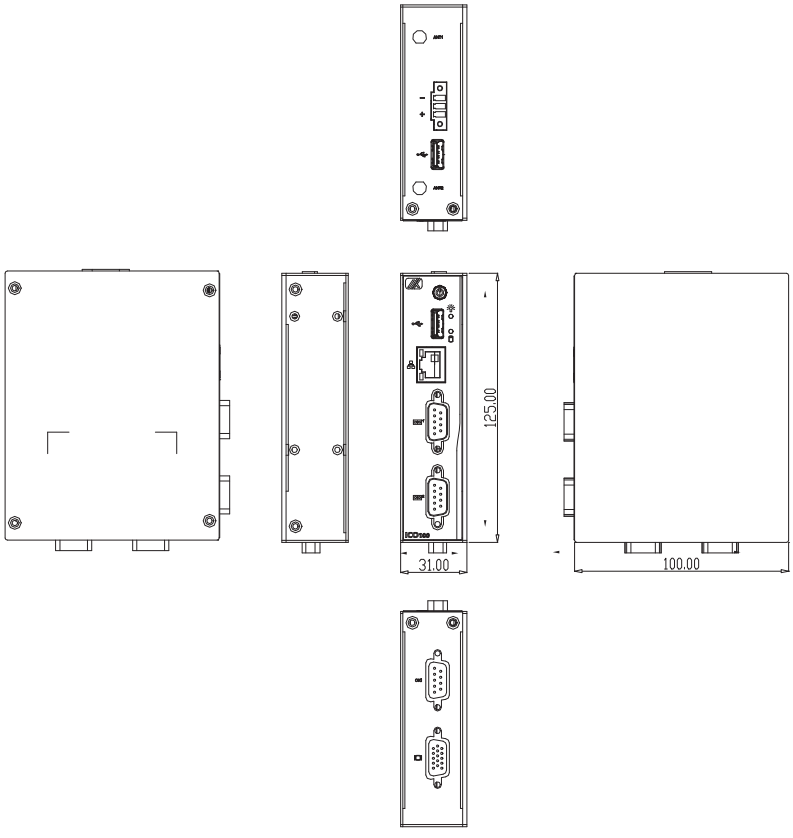
Ordering Information

Standard	
ICO100-839-N3350-DC (P/N: E22C100104)	Robust DIN-rail fanless embedded system with Intel® Celeron® processor N3350, 2 COM, LAN, 2 USB and DIO (-20°C to +70°C)
ICO100-839-N3350-WT-DC (P/N: E22C100105)	Robust DIN-rail fanless embedded system with Intel® Celeron® processor N3350, 2 COM, LAN, 2 USB and DIO (-40°C to +70°C)

Optional	
mSATA	
8812C1003A0E	ICO100/ICO120 wall mount bracket kit SFP
8816N3234A0E	3G/GPS UC20G kit for tBOX (3G ANT) (E)
8816N3235A0E	3G/GPS UC20G kit for tBOX (3G/GPS ANT) (E)
8812C3003A0E	SparkLAN WPEA-152GN Wi-Fi kit ICO SFP (E)
8812C3004A0E	SparkLAN WPEA-251N Wi-Fi kit ICO SFP (E)
822C3001060E	LTE SIMCOM SIM7100C (TW) for ICO300 SFP

* Specifications and certifications may vary based on different requirements.

Dimensions



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ICO120-83D

Robust DIN-rail Fanless Embedded System with Intel® Celeron® Processor N3350, COM or CAN, 2 LAN, 2 USB and DIO

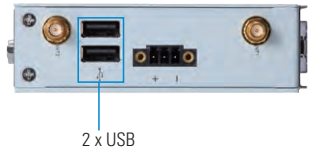
Features

- Extreme cost-effective with fanless and cableless design
- Intel® Celeron® processor N3350
- 1 COM or CAN, 2 USB, 2 GbE LAN
- 8-bit programmable DIO for IoT gateway applications
- Wide operating temperature range from -40°C to +70°C
- 12 to 24 VDC wide range power input
- OVP, UVP, OCP, RPP power protection design
- AMS.AXView intelligent remote monitoring software for IIoT



▲ Front view


▲ Rear view



EN60950 | Ext. Temp | IP40 | Fanless | Low Power | AMS.AXView

Specifications

Standard Color	Sliver	
Construction	Extruded aluminum and heavy-duty steel, IP40	
CPU	Intel® Celeron® processor N3350 (1.1 GHz, Dual Core)	
System Board	SBC8783D	
System Memory	1 x DDR3L-1866 SO-DIMM, up to 8GB	
BIOS	AMI UEFI BIOS	
System I/O Outlet	Serial	1 x RS-232/422/485 Interface select by BIOS Supports Auto Flow Control in RS-485 mode
	RTC	Battery onboard
	USB	2 x USB 2.0
	Storage	Half-size mSATA shared with half-size mPCIe slot (option eMMC flash onboard)
	LAN	2 x 10/100/1000 Mbps Ethernet (Intel® i211-AT for ICO120) (Intel® i210-IT for ICO120-WT) Magnetic isolation protection 1.5kV
	Display	1 x VGA (DB15 connector)
	DIO	1 x DI/DO (8-bit programmable, DB9 female connector) Voltage is 5V TTL-level Programming: I/O sink current is 10mA (max.) Input/output can be programming
	CAN	1 x CAN 2.0 A/B (DB9 connector) (ICO120-CAN)
	Power Input	1 x DC power input with terminal block

Extension Interface	1 x Full-size PCI Express Mini Card slot with SIM slot (for wireless module) 1 x Half-size PCI Express Mini Card slot with mSATA (for wireless module or half-size mSATA)
Watchdog Timer	255 levels, 1 to 255 sec.
System Indicator	Power, active
Power Supply	Power input range: 12 to 24 VDC, 1.39 to 0.72A (16.68 to17.28W) Protection: OVP (±20%), reverse protection
Operating Temperature	-20°C to +70°C (-4°F to +158°F) -40°C to +70°C (-40°F to +158°F) (ICO120-WT)
Humidity	10% to 95%
Vibration Endurance	2 Gms (5 to 500Hz, amplitude 0.35 mm; operation/storage/transport)
Weight (net/gross)	0.3 kg (0.67 lb)/0.46 kg (1 lb)
Certifications	CE, FCC Class A
Dimensions	31 mm (1.22") (W) x 100 mm (3.93") (D) x 125 mm (4.92") (H)
EOS Support	Windows® 10 IoT, Linux support package (by request)
Software Support	AMS.AXView

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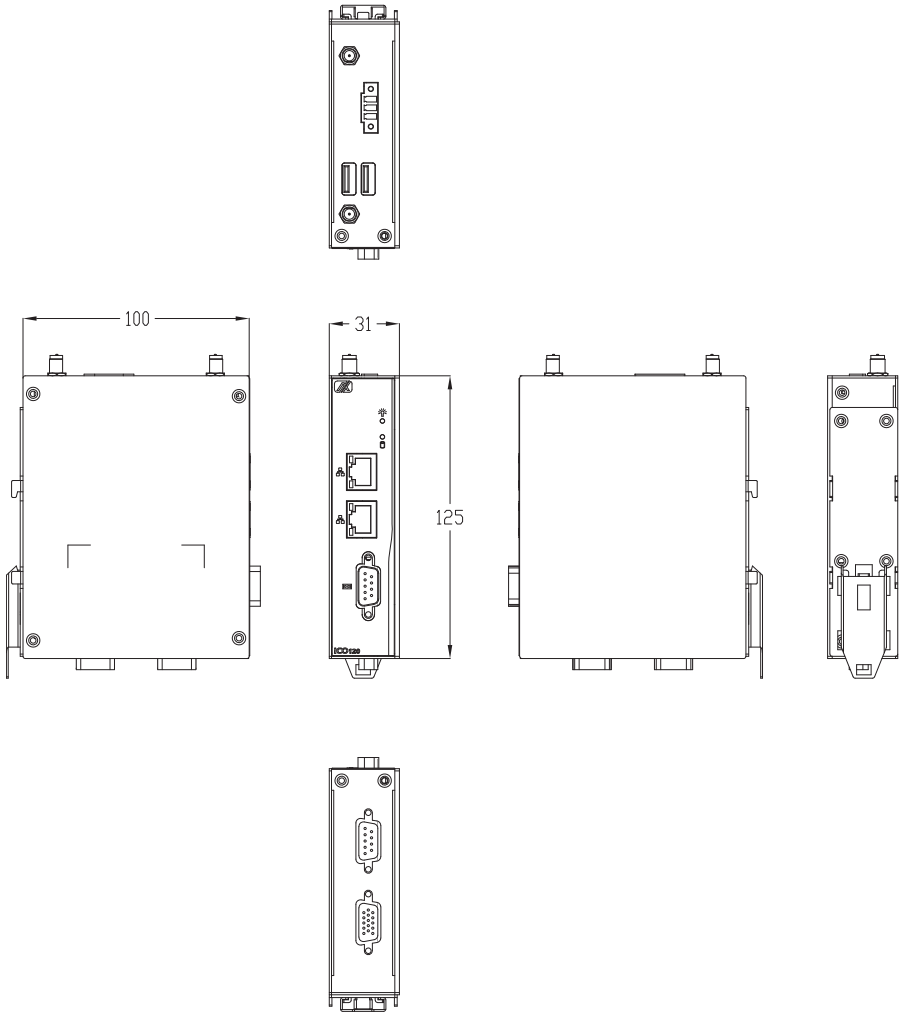
Ordering Information

Standard	
ICO120-83D-N3350-COM (P/N: E22C120101)	Robust DIN-rail fanless embedded system with Intel® Celeron® processor N3350, COM, 2 LAN, 2 USB and DIO (-20°C to +70°C)
ICO120-83D-N3350-CAN (P/N: E22C120100)	Robust DIN-rail fanless embedded system with Intel® Celeron® processor N3350, CAN, 2 LAN, 2 USB and DIO (-20°C to +70°C)
ICO120-83D-N3350-COM-WT (P/N: E22C120102)	Robust DIN-rail fanless embedded system with Intel® Celeron® processor N3350, COM, 2 LAN, 2 USB and DIO (-40°C to +70°C)
ICO120-83D-N3350-CAN-WT (P/N: E22C120103)	Robust DIN-rail fanless embedded system with Intel® Celeron® processor N3350, CAN, 2 LAN, 2 USB and DIO (-40°C to +70°C)

Optional	
mSATA	
8812C1003A0E	ICO100/ICO120 wall mount bracket kit SFP
8816N3234A0E	3G/GPS UC20G kit for tBOX (3G ANT) (E)
8816N3235A0E	3G/GPS UC20G kit for tBOX (3G/GPS ANT) (E)
8812C3003A0E	SparkLAN WPEA-152GN Wi-Fi kit ICO SFP (E)
8812C3004A0E	SparkLAN WPEA-251N Wi-Fi kit ICO SFP (E)
82606200390E	LTE module SIERRA MC7304KIT for EU SFP
822C3001060E	LTE SIMCOM SIM7100C (TW) for ICO300 SFP

* Specifications and certifications may vary based on different requirements.

Dimensions



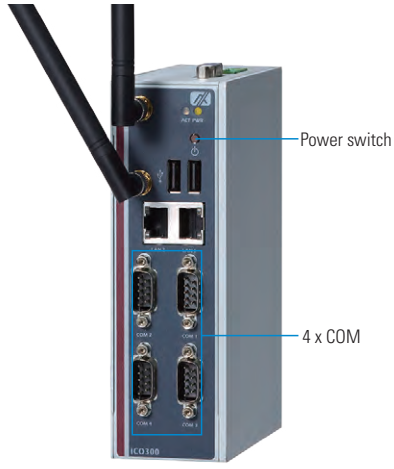
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ICO300

Robust DIN-rail Fanless Embedded System with Intel® Atom® Processor E3815/E3827, 4 COM, 2 LANs, DIO and RTC

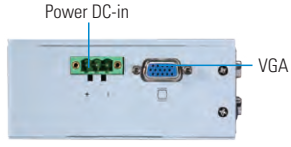
Features

- Cost-effective with fanless and cableless design
- Intel® Atom® processor E3815 or E3827
- 4 RS-232/422/485 ports
- 2 isolated 10/100/1000 Mbps Ethernet ports
- 1 DIO port
- 1 PCI Express Mini Card slot (3G/GPRS or Wi-Fi)
- 1 CompactFlash (or mSATA) and SATA SSD (or HDD)
- 12 to 24 VDC wide range power input
- Supports Windows® 10 IoT solution

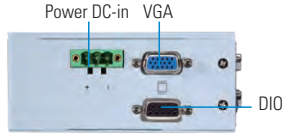


▲ Front view


▲ Rear view



▲ ICO300



▲ ICO300-DIO

EN60950 | Ext. Temp | IP40 | Fanless | Low Power | c UL us LISTED

Specifications

Standard Color	Silver	
Construction	Extruded aluminum and heavy-duty steel, IP40	
CPU	Intel® Atom® processor E3815 (1.46 GHz) or E3827 (1.75 GHz)	
System Board	SBC87842	
System Memory	1 x DDR3L-1333/1600 SO-DIMM, up to 4GB (E3815) or up to 8GB (E3827)	
BIOS	AMI UEFI BIOS	
System I/O Outlet	Serial	4 x RS-232/422/485 (COM 1 to 4) Interface select by BIOS Supports Auto Flow Control in RS-485 mode
	RTC	Battery onboard
	USB	2 x USB 2.0
	Storage	1 x CompactFlash™ (or mSATA*) 1 x SATA SSD (or HDD)
	LAN	2 x 10/100/1000 Mbps Ethernet (Intel® i211-AT for ICO300) (Intel® i210-IT for ICO300-WT)
	Display	1 x VGA
	DIO (ICO300-DIO)	1 x DI/DO (8-bit programmable, DB9 female connector) Voltage is 5V TTL-level ESD protection corresponds to IEC6100-4-2 (± 8KV (Air); ± 4kV (contact) Programming: I/O sink current is 10mA (max.) Input/output can be programming
	Power Input	1 x DC power input with terminal block
	Wireless	1 x Full-size PCI Express Mini Card slot 1 x SIM Card socket 2 x Antenna

Watchdog Timer	255 levels, 1 to 255 sec.
System Indicator	Power, active
Power Supply	Power input range: 12 to 24 VDC
	Power input rating: 12 to 24 VDC, 1.21 to 0.66A (ICO300-E3815) 12 to 24 VDC, 1.42 to 0.74A (ICO300-E3827)
	Power protection: DC version, OVP, Reverse protection
Operating Temperature	-20°C to +70°C (-4°F to +158°F)
Humidity	10% to 95%
Vibration Endurance	2 Gms (5 to 500Hz, amplitude 0.35 mm; operation/storage/transport)
Weight (net/gross)	1.0 kg (2.2 lb)/1.50 kg (3.3 lb)
Certifications	CE, FCC, UL
Dimensions	48 mm (1.88") (W) x 110 mm (4.33") (D) x 155 mm (6.1") (H)
EOS Support	Windows® 7 embedded Windows® 8 embedded Linux support package Windows® 10 IoT core pro

* mSATA and wireless can be either one.
** mSATA and CF can be either one.

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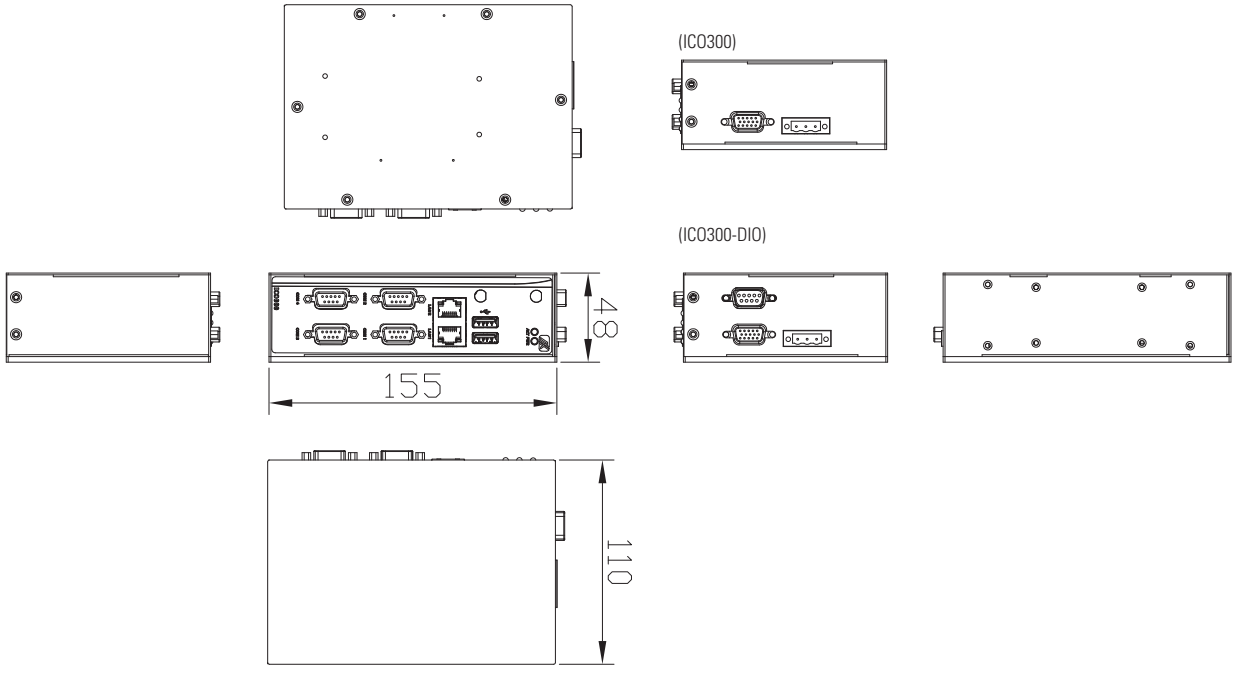
Ordering Information

Standard	
ICO300-E3815-PB-DC (P/N: E22C300109)	Robust DIN-rail fanless embedded system with Intel® Atom® processor E3815 1.46 GHz and 4 COM (-20°C to +70°C)
ICO300-E3827-PB-DC (P/N: E22C300110)	Robust DIN-rail fanless embedded system with Intel® Atom® processor E3827 1.75 GHz and 4 COM (-20°C to +70°C)
ICO300-E3815-DIO-PB-DC (P/N: E22C300111)	Robust DIN-rail fanless embedded system with Intel® Atom® processor E3815 1.46 GHz, 4 COM and DIO (-20°C to +70°C)
ICO300-E3827-DIO-PB-DC (P/N: E22C300112)	Robust DIN-rail fanless embedded system with Intel® Atom® processor E3827 1.75 GHz, 4 COM and DIO (-20°C to +70°C)

Optional	
CompactFlash™	4GB or above (with W.T. CF)
2.5" SATA SSD or HDD (with W.T. SSD or HDD)	
DDR3L SO-DIMM	2GB to 8GB (with W.T. memory)
8812C3000A0E	ICO300/310/320 wall mount bracket kit
8816N3234A0E	3G/GPS UC20G kit for tBOX (3G ANT) (E)
8816N3235A0E	3G/GPS UC20G kit for tBOX (3G/GPS ANT) (E)
8812C3003A0E	SparkLAN WPEA-152GN Wi-Fi kit ICO SFP (E)
8812C3004A0E	SparkLAN WPEA-251N Wi-Fi kit ICO SFP (E)
82606200390E	LTE module SIERRA MC7304 kit for EU SFP
822C3001070E	LTE SIM7100C with EXT ANT for ICO300 SFP
826N3230060E	tBOX series Bointec CPE902A Wi-Fi SFP

* Specifications and certifications may vary based on different requirements.

Dimensions



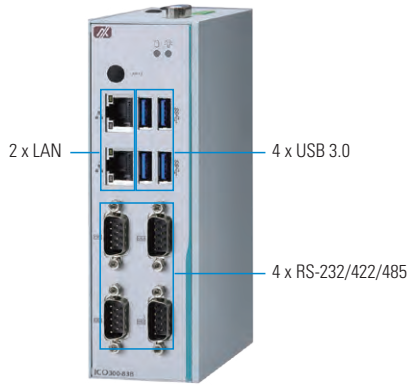
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ICO300-83B

Robust DIN-rail Fanless Embedded System with Intel® Celeron® Processor N3350/ Pentium® Processor N4200, Isolated COM, LAN and DIO

Features

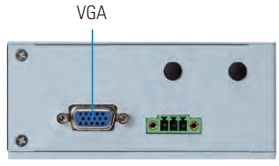
- Cost-effective with fanless and cableless design
- Intel® Celeron® processor N3350/Pentium® processor N4200
- 2 or 4 isolated COM, 4 USB, 2 GbE LAN
- 8-bit programmable DIO for IoT gateway applications (optional)
- Wide operating temperature range from -40°C to +70°C
- 12 to 24 VDC wide range power input
- OVP, UVP, OCP, RPP power protection design
- AMS.AXView intelligent remote monitoring software for IIoT



▲ Front view



▲ Rear view



▲ Top view

AMS.AXView

EN60950 | Ext. Temp | IP40 | Fanless | Low Power | Isolation

Specifications

Standard Color	Silver	
Construction	Extruded aluminum and heavy-duty steel, IP40	
CPU	Intel® Celeron® processor N3350 (1.1 GHz, Dual Core) Intel® Pentium® processor N4200 (1.1 GHz, Quad Core) (by request)	
System Board	SBC8783B	
System Memory	1 x DDR3L-1866 SO-DIMM, up to 8GB	
BIOS	AMI UEFI BIOS	
System I/O Outlet	Serial	4 x isolated RS-232/422/485 (ICO300-83B-4I COM) 2 x isolated RS-232/422/485 (ICO300-83B-2I COM) 4 x RS-232/422/485 (ICO300-83B-4 COM) COM port support High-speed mode up to 1.5M baud rate Interface select by BIOS Supports Auto Flow Control in RS-485 mode
	USB	4 x USB 3.0
	RTC	Battery onboard
	Storage	2.5" SATA drive (9.5 mm height) mSATA shared with mPCIe slot
	LAN	2 x 10/100/1000 Mbps Ethernet (Intel® i211-AT for ICO300-83B) (Intel® i210-IT for ICO300-83B-WT)
	Display	1 x VGA or 1 x HDMI
	DIO	1 x DI/DO (8-bit programmable, DB9 female connector, optional) Voltage is 5V TTL-level Programming: I/O sink current is 10mA (max.) Input/output can be programming
	Power Input	1 x DC power input with terminal block

Extension Interface	1 x Full-size PCI Express Mini Card slot with SIM slot (for wireless module) 1 x Full-size PCI Express Mini Card slot with mSATA (for wireless module or mSATA)
Watchdog Timer	255 levels, 1 to 255 sec.
System Indicator	Power, Active
Power Supply	12 to 24 VDC, 2.82 to 1.34A (ICO300-83B-N3350) 12 to 24 VDC, 3.27 to 1.62A (ICO300-83B-N4200) Protection: OVP (±20%), reverse protection
Operating Temperature	-20°C to +70°C (-4°F to +158°F) (ICO300-83B-N3350) -40°C to +70°C (-4°F to +158°F) (ICO300-83B-N3350-WT) -40°C to +60°C (-4°F to +140°F) (ICO300-83B-N4200-WT)
Humidity	10% to 95%
Vibration Endurance	2 Gms (5 to 500Hz, amplitude 0.35 mm; operation/storage/ transport)
Weight (net/gross)	1.0 kg (2.2 lb)/1.50 kg (3.3 lb)
Certifications	CE, FCC
Dimensions	48 mm (1.88") (W) x 110 mm (4.33") (D) x 155 mm (6.1") (H)
EOS Support	Windows® 10 IoT, Linux support package (by request)
Software Support	AMS.AXView

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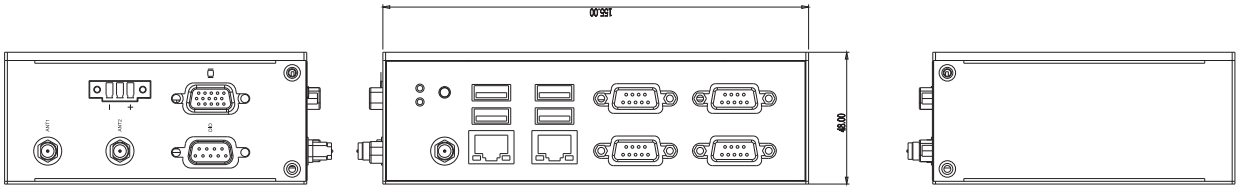
Ordering Information

Standard	
ICO300-83B-N3350-4ICOM-WT-DC (P/N: E22C300119)	Robust DIN-rail fanless embedded system with Intel® Celeron® processor N3350, 4 isolated COM, 2 LAN, 4 USB and VGA (-40°C to +70°C)
ICO300-83B-N4200-4ICOM-WT-DC (P/N: E22C300120)	Robust DIN-rail fanless embedded system with Intel® Pentium® processor N4200, 4 isolated COM, 2 LAN, 4 USB and VGA (-40°C to +60°C)
ICO300-83B-N3350-4COM-DC (P/N: E22C300121)	Robust DIN-rail fanless embedded system with Intel® Celeron® processor N3350, 4 COM, 2 LAN, 4 USB and VGA (-20°C to +70°C)
ICO300-83B-N3350-4ICOM-DC (P/N: E22C300123)	Robust DIN-rail fanless embedded system with Intel® Celeron® processor N3350 1.1 GHz, 4 isolated COM, 2 LAN, 4 USB and VGA (-20°C to +70°C)
ICO300-83B-N3350-2ICOM-HDMI-DC (P/N: E22C300124)	Robust DIN-rail fanless embedded system with Intel® Celeron® processor N3350 1.1 GHz, 2 isolated COM, 2 LAN, 4 USB and HDMI (-20°C to +70°C)
ICO300-83B-N3350-4ICOM-WT-HDMI-DC (P/N: E22C300126)	Robust DIN-rail fanless embedded system with Intel® Celeron® processor N3350 1.1 GHz, 4 isolated COM, 2 LAN, 4 USB and HDMI (-40°C to +70°C)
ICO300-83B-N3350-2ICOM-DC (P/N: E22C300127)	Robust DIN-rail fanless embedded system with Intel® Celeron® processor N3350, 2 isolated COM, 2 LAN, 4 USB and VGA (-20°C to +70°C)
ICO300-83B-N3350-4COM-HDMI-DC (P/N: E22C300128)	Robust DIN-rail fanless embedded system with Intel® Celeron® processor N3350, 4 COM, 2 LAN, 4 USB and HDMI (-20°C to +70°C)
ICO300-83B-N3350-4ICOM-DIO-DC (P/N: E22C300137)	Robust DIN-rail fanless embedded system with Intel® Celeron® processor N3350, 4 isolated COM, 2 LAN, 4 USB, DIO and VGA (-20°C to +70°C)
ICO300-83B-N3350-4COM-DIO-DC (P/N: E22C300138)	Robust DIN-rail fanless embedded system with Intel® Celeron® processor N3350, 4 COM, 2 LAN, 1 DIO, 4 USB and VGA (-20°C to +70°C)
ICO300-83B-N3350-2COM-2CAN-DC (P/N: E22C300143)	Robust DIN-rail fanless embedded system with Intel® Celeron® processor N3350, 2 COM, 2 LAN, 2 CAN, 4 USB and VGA (-20°C to +70°C)

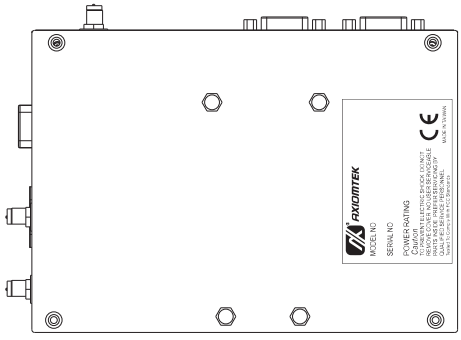
Optional	
mSATA	4GB and above
2.5" SATA drive	
DDR3L SO-DIMM	2GB to 8GB
8812C3000A0E	ICO300/310/320 wall mount bracket kit
8816N3235A0E	3G/GPS UC20G kit for tBOX (3G/GPS ANT) (E)

* Specifications and certifications may vary based on different requirements.

Dimensions



(ICO300-83B-DIO)



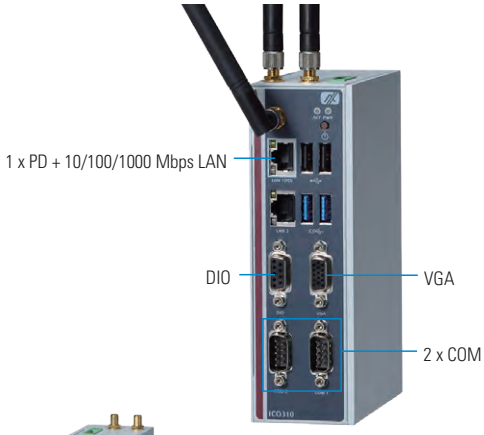
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ICO310

Robust DIN-rail Fanless Embedded System with Intel® Celeron® Processor N3060/N3160, 2 COM, 4 USB, 2 GbE LAN (1 PoE PD), DIO and RTC

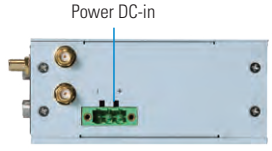
Features

- Cost-effective with fanless and cableless design
- Intel® Celeron® processor N3060 (1.6 GHz/2-core) or N3160 (1.6 GHz/4-core)
- 2 RS-232/422/485 ports
- 4 USB ports
- 2 isolated 10/100/1000 Mbps Ethernet ports
- 1 PoE PD compliant with IEEE 802.3at standard through LAN 1
- 1 DIO port
- 2 PCI Express Mini Card slots (3G/GPRS & Wi-Fi)
- 1 mSATA & SATA SSD (or HDD)
- 12 to 24 VDC wide range power input
- AMS.AXView intelligent remote monitoring software for IIoT



▲ Front view


▲ Rear view



▲ Top view

Fanless | Low Power | Ext. Temp | IP40 | EN60950 | AMS.AXView

Specifications

Standard Color	Silver	
Construction	Extruded aluminum and heavy-duty steel, IP40	
CPU	Intel® Celeron® processor N3060 (1.6 GHz/2-core) or N3160 (1.6 GHz/4-core)	
System Board	SBC87887	
System Memory	1 x DDR3L-1600 SO-DIMM, up to 8GB	
BIOS	AMI UEFI BIOS	
System I/O Outlet	Serial	2 x RS-232/422/485 with DB9 connectors Interface select by BIOS Supports Auto Flow Control in RS-485 mode
	USB	2 x USB 3.0 2 x USB 2.0
	RTC	Battery onboard
	Storage	1 x mSATA 1 x SATA SSD (or HDD)
	LAN	2 x 10/100/1000 Mbps Ethernet (Intel® i211AT) 1 x PoE PD compliant with IEEE 802.3at standard through LAN 1 (ICO310-N3060-PD-DC, ICO310-N3160-PD-DC)
	Power Input	DC terminal block: 12 to 24V DC-In PoE: IEEE 802.3at
	Display	VGA (DB15 connector)
	Wireless	1 x Full-size PCI Express Mini Card slot 1 x Full-size PCI Express Mini Card slot with mSATA 1 x SIM card socket 3 x Antenna
	DIO	1 x DIO - DB9 8-bit programming connector - The voltage of TTL is 5V - Without isolation function - The programming is as follow: 1. I/O sink current is 8 to 10mA (output drive current ±50 mA) 2. Input/output can programming
Watchdog Timer	255 levels, 1 to 255 sec.	
System Indicator	Power, active, COM (TX/RX)	

Power Supply	Power input range: 12 to 24 VDC
	Power input rating: 12 to 24 VDC, 2.09 to 1.09A
	Power protection: DC version OVP, reverse protection
Operating Temperature	-20°C to +60°C (-4°F to +140°F) *The frequency of CPU will down when system operating temperature over +55°C (ICO310-N3060, ICO310-N3060-PD, ICO310-N3160) or over +50°C (ICO310-N3160-PD)
Humidity	10% to 95%
Vibration Endurance	2 Gms (5 to 500Hz, amplitude 0.35 mm; operation/storage/transport)
Weight (net/gross)	1.0 kg (2.2 lb)/1.50 kg (3.3 lb)
Certifications	CE, FCC
Dimensions	48 mm (1.88") (W) x 110 mm (4.33") (D) x 155 mm (6.1") (H)
Mounting	DIN-rail, wall mount
OS Support	Windows® 10 IoT, Linux
Software Support	AMS.AXView

* mSATA and wireless can be either one.

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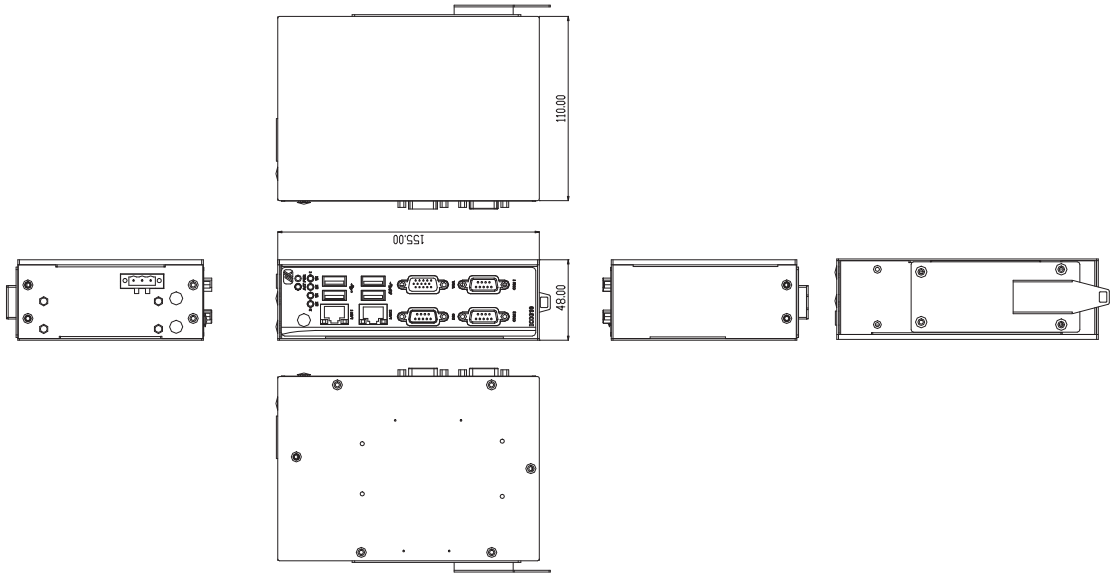
Ordering Information

Standard	
ICO310-N3060-DC (P/N: E22C310106)	Robust DIN-rail fanless embedded system with Intel® Celeron® processor N3060 (1.6GHz/DC), 2 COM, 2 LAN, and DIO (-20°C to +60°C with power button)
ICO310-N3060-PD-DC (P/N: E22C310107)	Robust DIN-rail fanless embedded system with Intel® Celeron® processor N3060 (1.6GHz/DC), 2 COM, 2 LAN, PoE PD, and DIO (-20°C to +60°C with power button)
ICO310-N3160-PB-DC (P/N: E22C310104)	Robust DIN-rail fanless embedded system with Intel® Celeron® processor N3160 (1.6GHz/QC), 2 COM, 2 LAN, and DIO (-20°C to +60°C with power button)
ICO310-N3160-PD-DC (P/N: E22C310105)	Robust DIN-rail fanless embedded system with Intel® Celeron® processor N3160 (1.6GHz/QC), 2 COM, 2 LAN, PoE PD, and DIO (-20°C to +60°C with power button)

Optional	
2.5" SATA SSD or HDD (with W.T. SSD or HDD)	
mSATA	16GB to 512GB (with W.T. mSATA)
DDR3L SO-DIMM	2GB to 8GB (with W.T. memory)
8812C3000A0E	ICO300/310/320 wall mount bracket kit
8816N3234A0E	3G/GPS UC20G kit for tBOX (3G ANT) (E)
8816N3235A0E	3G/GPS UC20G kit for tBOX (3G/GPS ANT) (E)
8812C3003A0E	SparkLAN WPEA-152GN Wi-Fi kit ICO SFP (E)
8812C3004A0E	SparkLAN WPEA-251N Wi-Fi kit ICO SFP (E)
82606200390E	LTE module SIERRA MC7304 kit for EU SFP
826N3230060E	tBOX series Bointec CPE902A Wi-Fi SFP

* Specifications and certifications may vary based on different requirements.

Dimensions



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ICO320-83C

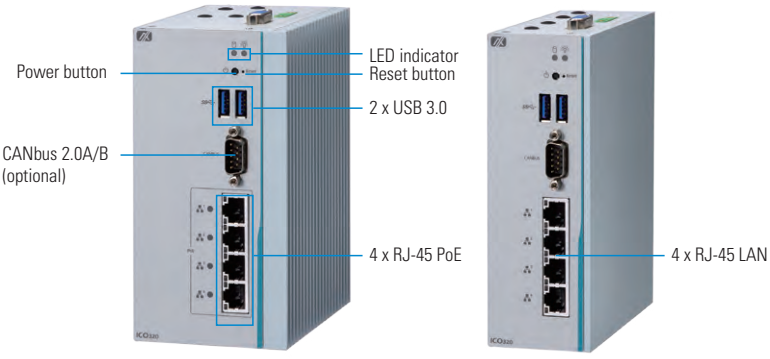
Robust DIN-rail Fanless Embedded System with Intel® Celeron® Processor N3350, COM or CAN, PoE LAN and DIO

Features

- Cost-effective with fanless and cableless design
- Intel® Celeron® processor N3350
- 4 RJ-45 Gigabit PoE ports
- 8-bit programmable DIO for IoT gateway applications
- Wide operating temperature range from -40°C to +70°C
- 12 to 24 VDC wide range power input
- OVP, UVP, OCP, RVP power protection
- AMS.AXView intelligent remote monitoring software for IIoT



▲ Bottom view



▲ Front view



▲ Top view (PoE version)

▲ Top view (LAN version)

AMS.AXView

EN60950 | Ext. Temp | IP40 | Fanless | Low Power | PoE

Specifications

Standard Color	Silver	
Construction	Aluminum extrusion and heavy-duty steel, IP40	
CPU	Intel® Celeron® processor N3350 (1.1 GHz, Dual Core) Intel® Pentium® processor N4200 (1.1 GHz, Quad Core) (by request)	
Chipset	SoC integrated	
System Memory	1 x DDR3L 1866 SO-DIMM slot, up to 8GB	
LED indicator	1 x System power 1 x HDD active 4 x PoE power #1 to #4 (optional)	
BIOS	AMI	
System I/O Outlet	Serial	2 x RS-232/422/485 Interface select by BIOS Supports Auto Flow Control in RS-485 mode
	RTC	Battery onboard
	USB	2 x USB 3.0
	Storage	2.5" SATA drive (9.5 mm height) Half-size mSATA shared with mPCIe slot
	LAN	4 x RJ-45 LAN 4 x RJ-45 gigabit PoE (optional); 802.3at 30W by 4 ports (Intel® i211-AT for ICO320-83C) (Intel® i210-IT for ICO320-83C-WT)
	Display	1 x VGA
	DIO	1 x DI/DO (8-bit programmable, DB9 female connector, optional) Voltage is 5V TTL-level Programming: I/O sink current is 10mA (max.) Input/output can be programming
	CAN	1 x CAN 2.0 A/B (DB9 connector) (optional)
	Power Input	1 x DC power input with terminal block

Expansion Interface	1 x Full-size PCI Express Mini Card slot with SIM slot (for wireless module) 1 x Half-size PCI Express Mini Card slot with mSATA (for wireless module or half size mSATA)
Watchdog Timer	255 levels, 1 to 255 sec.
Power Supply	PoE version: 12 to 24 VDC, 4.89 to 2.45A (58.68W to 58.88W) LAN version: 12 to 24 VDC, 2.40 to 1.21A (28.80W to 29.04W) Protection: OVP (±20%), reverse protection, UVP, OCP, RPP
Power Consumption	PoE power output maximum 30W 802.3af class 2, 7.5W, max 4 ports 802.3af class 3, 15.4W, max 2 ports 802.3at class 4, 30W, max 1 port
Operating Temperature	-40°C to +70°C (-40°F to +158°F)
Humidity	5% to 95%, non-condensing
Vibration Endurance	2 Grms with SSD (5 to 500Hz, random wave) 2 Grms with HDD (10 to 150Hz, sine wave)
Dimensions	PoE version: 79 mm (3.11") (W) x 110 mm (4.33") (D) x 155 mm (6.1") (H) LAN version: 48 mm (1.88") (W) x 110 mm (4.33") (D) x 155 mm (6.1") (H)
Weight (net/gross)	PoE version: 1.2 kg (2.2 lb)/1.70 kg (3.3 lb) LAN version: 1.0 kg (2.2 lb)/1.50 kg (3.3 lb)
Certifications	CE, FCC
EOS Support	Windows® 10 IoT, Linux support package(by request)
Software Support	AMS.AXView

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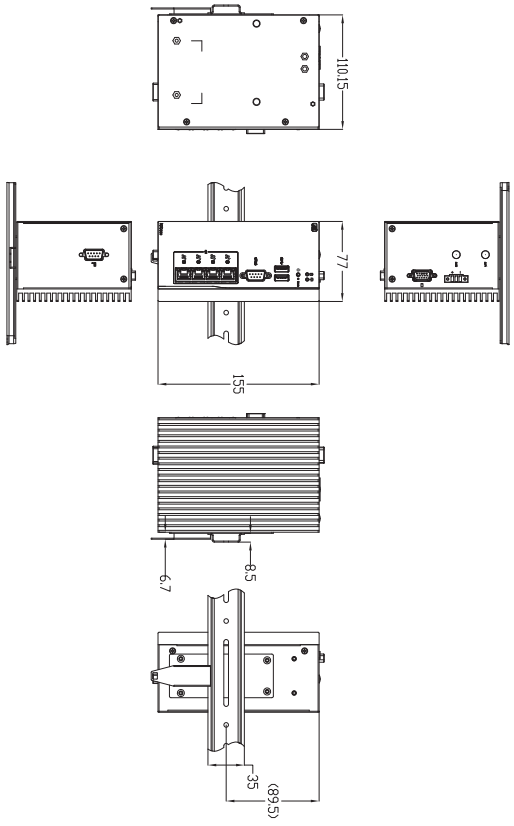
Ordering Information

Standard	
ICO320-83C-N3350-4POE-CAN-WT-DC (P/N: E22C320103)	Robust DIN-rail fanless embedded system with Intel® Celeron® processor N3350 (1.1 GHz), 1 COM, 1 CAN, 4 PoE, 2 USB and VGA (-40°C to +70°C)
IICO320-83C-N3350-4POE-WT-DC (P/N: E22C320102)	Robust DIN-rail fanless embedded system with Intel® Celeron® processor N3350 (1.1 GHz), 2 COM, 4 PoE, 2 USB and VGA (-40°C to +70°C)
ICO320-83C-N3350-4LAN-CAN-WT-DC (P/N: E22C320101)	Robust DIN-rail fanless embedded system with Intel® Celeron® processor N3350 (1.1 GHz), 1 COM, 1 CAN, 4 GbE LAN, 2 USB and VGA (-40°C to +70°C)
ICO320-83C-N3350-4LAN-WT-DC (P/N: E22C320100)	Robust DIN-rail fanless embedded system with Intel® Celeron® processor N3350 (1.1 GHz), 2 COM, 4 GbE LAN, 2 USB and VGA (-40°C to +70°C)

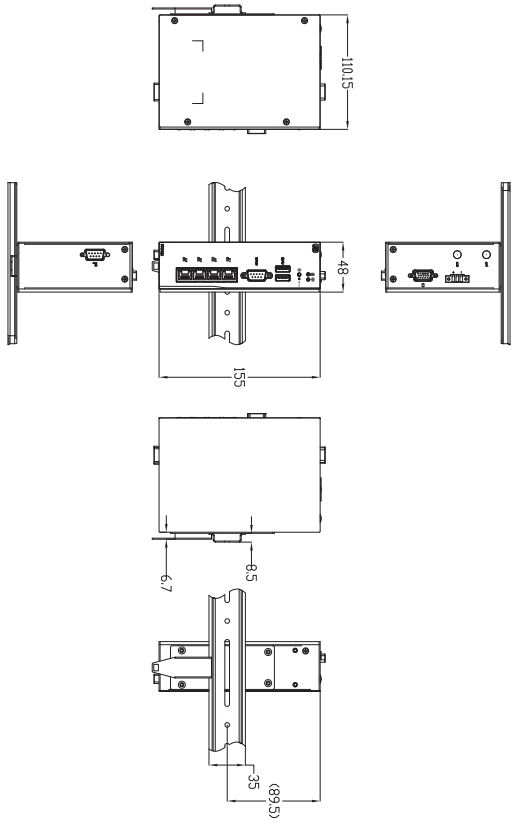
* Specifications and certifications may vary based on different requirements.

Dimensions

#ICO320_PoE



#ICO320_LAN



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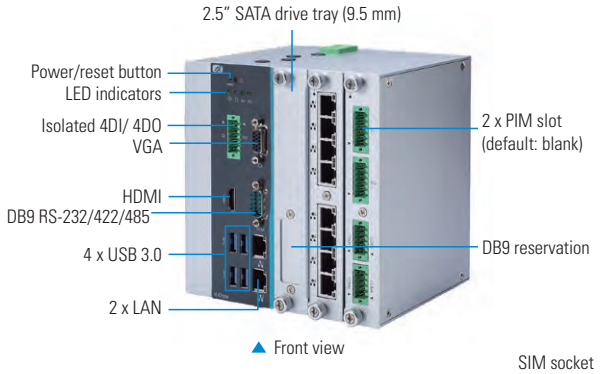
ICO500-518 NEW

Robust DIN-rail Fanless Embedded System with 7th Gen Intel® Core™ i7/i5/i3 & Celeron® Processor and Dual Modular I/O Expansion Design

Features

- 7th gen Intel® Core™ i7/i5/i3 & Celeron® processors (Kaby Lake-U)
- 2 PIM (Plug-in I/O Module) slots
- Fanless and compact design
- Wide operating temperature range from -40°C to +70°C
- 12 to 48 VDC wide range power input
- OVP, UVP, OCP, RPP power protection design
- 1 swappable 2.5" SATA drive tray





▲ Front view



▲ Top view ▲ Bottom view

Fanless | Ext. Temp | DDR4 | EN 50121-4 | AMS.AXView

Specifications

Standard Color	Silver	
Construction	Aluminum extrusion and heavy-duty steel, IP40	
CPU	Intel® Core™ i7-7600U 2C @ 2.8GHz Intel® Core™ i5-7300U 2C @ 2.6GHz Intel® Core™ i3-7100U 2C @ 2.4 GHz Intel® Celeron® 3965U 2C @ 2.2 GHz	
System Memory	1 x DDR4-2133 SO-DIMM, up to 16GB	
Chipset	SoC integrated	
BIOS	AMI	
TPM	TPM 2.0	
System I/O Outlets	Top Side	1 x DC power input with terminal block 4 x Antenna opening
	Bottom Side	External SIM slot & CFast™ card
	Front Side	1 x HDMI 2 x GbE LAN 4 x USB 3.0 1 x VGA 1 x DB9 RS-232/422/485 1 x Isolated DIO (4-in/4-out) 1 x 2.5" SATA drive tray 2 x PIM slot
Watchdog Timer	255 levels, 1 to 255 sec.	
Storage	1 x Swappable 2.5" SATA drive (9.5 mm height) ** DIN-rail mounting with SSD 1 x External CFast card	
Expansion Interface	2 x Full-size PCI Express Mini Card slot 1 x External SIM card slot	
System Indicator	1 x LED indicator for system power 1 x LED indicator for HDD activities 2 x Programmable	
Power Supply	12 to 48 VDC, OVP, UVP, OCP, RPP power protection design	
Operating Temperature	-40°C to +70°C (-40°F to +158°F) with 2 PIM modules (PIM700 excluded) -40°C to +60°C (-40°F to +140°F) with 1 PIM700, 1 the other PIM module -40°C to +50°C (-40°F to +122°F) with 2 PIM700	
Humidity	10% to 95%, non-condensing	

Vibration Endurance (operational)	3 Grms with SSD, DIN-rail/wall mounting (5 to 500Hz, X/Y/Z direction; random)
Weight (net/gross)	2.2 kg (4.85 lb)/2.7 kg (5.95 lb) (PIM module excluded)
Certifications	CE (Class A), FCC, EN 50121-4
Dimensions	145 mm (5.70") (W) x 125 mm (4.92") (D) x 155 mm (6.10") (H)
Mounting	DIN-rail (standard) Wall mount (optional)
EOS Support	Windows® 10 IoT Linux support package
Software Support	AMS.AXView

Ordering Information

Standard	
ICO500-518-Celeron	Robust DIN-rail fanless embedded system with Intel® Celeron® 3965U 2.2 GHz processor, 4 USB 3.0, 2 RJ-45 LAN, COM, DIO (4-in/4-out), 2.5"SATA tray, HDMI, VGA
ICO500-518-i3	Robust DIN-rail fanless embedded system with Intel® Core™ i3-7100U 2.4 GHz processor, 4 USB 3.0, 2 RJ-45 LAN, COM, DIO (4-in/4-out), 2.5"SATA tray, HDMI, VGA
ICO500-518-i5	Robust DIN-rail fanless embedded system with Intel® Core™ i5-7300U 2.6 GHz processor, 4 USB 3.0, 2 RJ-45 LAN, COM, DIO (4-in/4-out), 2.5" SATA tray, HDMI, VGA
ICO500-518-i7	Fanless embedded system with Intel® Core™ i7-7600U 2.8 GHz processor, 4 USB 3.0, 2 RJ-45 LAN, COM, DIO (4-in/4-out), 2.5" SATA tray, HDMI, VGA

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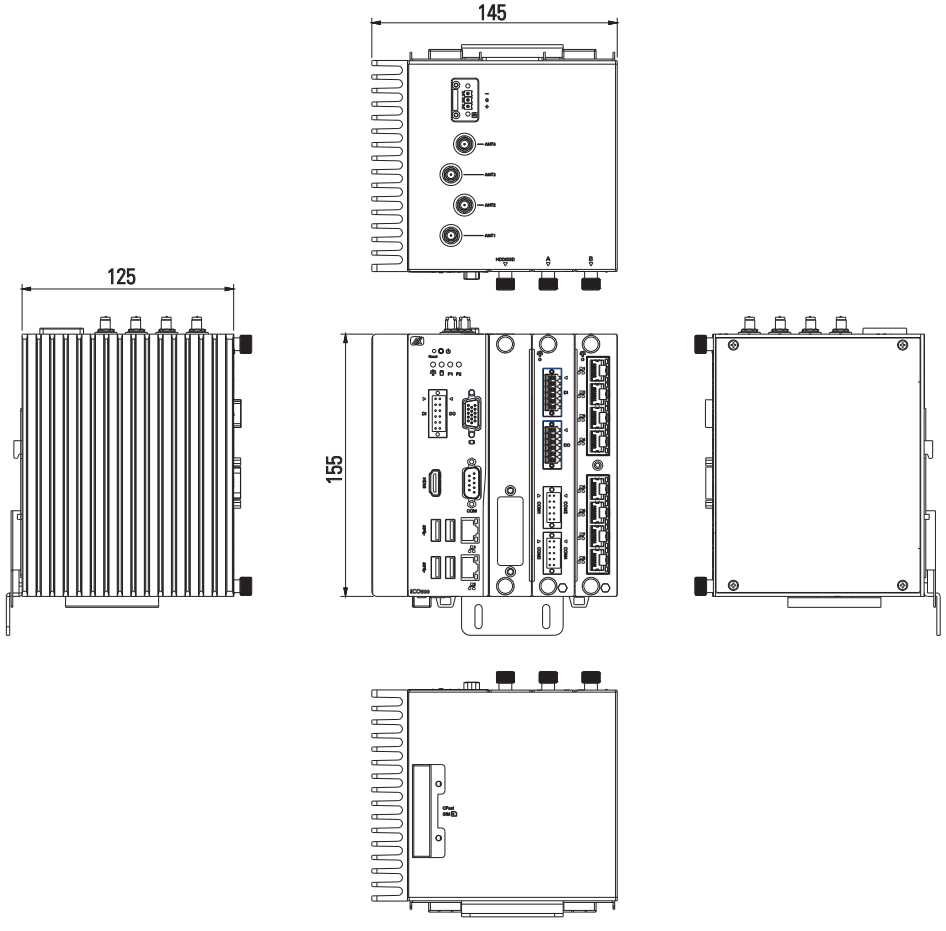
Ordering Information

I/O Modules		
PIM100	8 x isolated, 4-wire COM (RS-232/422/485)	
PIM101	8 x isolated CANbus 2.0 A/B	
PIM700	8 x RJ-45 Gb Ethernet	
PIM900	4 x isolated, 4-wire COM (RS-232/422/485) & isolated 8-in/8-out DIO	

Optional	
2.5" SATA SSD	16GB or above
CFast™	16GB or above
DDR4 SO-DIMM	4GB to 16GB

* Specifications and certifications may vary based on different requirements.

Dimensions



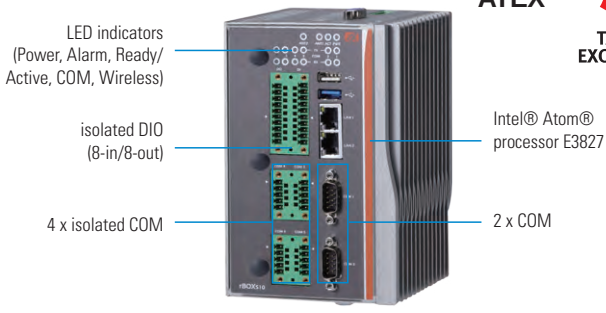
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rBOX510-6COM(ATEX/C1D2)

ATEX & CID2 Anti-Explosion Certified Robust DIN-rail Fanless Embedded System with Intel® Atom® Processor E3827 (1.75 GHz)/E3845 (1.91 GHz)

Features

- ATEX & CID2 anti-explosion certification
- Fanless and cableless design
- Intel® Atom® processor E3827 (1.75 GHz)/E3845 (1.91 GHz)
- Wide operating temperature range from -40°C to +70°C
- 4 isolated RS-232/422/485 ports & 2 RS-232/422/485 ports
- 2 isolated 10/100/1000 Mbps Ethernet ports
- 2 watchdog timer
- RTC Battery function
- LED indicators
- One 2.5" SATA SSD and one CompactFlash™
- Power input range of 9V to 48V DC with terminal block
- AMS.AXView intelligent remote monitoring software for IIoT



▲ Front view



▲ Rear view

Fanless | Low Power | Isolation | Ext. Temp | IP30 | AMS.AXView

Specifications

Standard Color	Sliver-black	
Construction	Extruded aluminum and heavy-duty steel, IP30	
CPU	Intel® Atom™ processor E3827 (1.75 GHz) dual core Intel® Atom™ processor E3845 (1.91 GHz) quad core (by request)	
System Board	CEM840	
System Memory	DDR3L 4GB onboard	
BIOS	AMI UEFI BIOS	
System I/O Outlet	Serial	2 x RS-232/422/485 4 x Isolated RS-232/422/485 Interface select by software or BIOS Supports Auto Flow Control in RS-485 mode ESD protection 15kV Magnetic isolation protection 2kV COM 1 & 2 speed up to 115.2kbps COM 3 to 6 serial port speed up to 921.6kbps
	RTC	Battery onboard & Gold capacity onboard (1st backup battery when power shut-down)
	USB	1 x USB 3.0 1 x USB 2.0 USB power distribution control by software
	Storage	1 x Full-size mSATA 1 x 2.5" SATA SSD, 1 x mSATA 1 x CompactFlash™ (easy-to-acess)
	LAN	2 x 10/100/1000 Mbps (Intel® i210-IT) Magnetic isolation protection 1.5 kV
	Display	1 x VGA (DB15 connector)
	DIO	N/A
	CAN	N/A
	Power Input	1 x DC power input with terminal block

System I/O Outlet	DIO	1 isolated DIO (8-in/8-out) DI: Input Channels: 8 source type Input Voltage: 0 to 30VDC Digital input Digital Input levels for dry/wet contacts DO: Output Channels: 8 sink type Output Current: Max. 200mA per channel External Voltage: 10 to 30 VDC Open collector to 30V Optical isolation protection 3 KV
Watchdog Timer	255 levels, 1 to 255 sec.	
System Indicator	Power, Alarm, Ready/Active, COM, Wireless	
Power Supply	Power Input Range : 12 to 48 VDC	
	Power Input Rating : 12 to 48 VDC, 1.36 to 0.45A	
	Power Protection : DC version, OVP, UVP, Reserve Protection	
Operating Temperature	-40°C to +70°C (-40°F to +158°F)	
Humidity	10% to 95%	
Vibration Endurance	5 Gms (10 to 150Hz, amplitude 0.35 mm; operation/storage/ transport)	
Weight (net/gross)	1.5 kg (3.3 lb)/1.88 kg (4.14 lb)	
Dimensions	100.6 mm (3.96") (W) x 110 mm (4.33") (D) x 135 mm (5.31") (H)	
EOS Support	Windows® 10 IoT Linux support package	
Software Support	AMS.AXView	

* W.T.: Wide Temperature. All W.T. supported products have to be sorted by Axiomtek.

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Specifications

ISO	Manufactured in an ISO 9001 facility
Anti-Explosive	ATEX & C1D2 Anti-Explosive Type "nA" Zone 2 Group II & class I, Division 2 Certification
Safety	UL 60950-1 Heavy Industrial CE, including: EN 60950-1, IEC 60950-1
EMI	FCC Part 18 Heavy Industrial CE, including: EN 61000-6-4, EN 61000-3-2, EN 61000-3-3
EMS	Heavy Industrial CE, including: EN 61000-6-2 EN 61000-4-2 (ESD standards) *Contact: +/- 6 kV; criteria B *Air: +/- 8 kV; criteria B EN 61000-4-3 (radiated RFI standards) *10V/m, 80 to 1000 MHz; 80% AM criteria A *1400 to 2000 MHz, 3 V/m, 80% AM (1 kHz) *2000 to 2700 MHz, 1 V/m, 80% AM (1 kHz) EN 61000-4-4 (burst standards) *Signal ports: +/- 2 kV; criteria B *DC power ports: +/- 2 kV; criteria B EN 61000-4-5 (surge standards) *Signal ports: +/- 1 kV; line-to-line; criteria B *DC power ports: +/- 0.5 kV; line-to-earth; criteria B EN 61000-4-6 (induced RFI standards) *Signal ports: 10 Vrms @ 0.15 to 80 MHz; 80% AM criteria A *DC power ports: 10 Vrms @ 0.15 to 80 MHz; 80% AM criteria A EN 61000-4-8 (magnetic field standards) *30 A/m @ 50, 60 Hz; criteria A
Environmental Test Compliance	IEC 60068-2-6 Fc (vibration resistance) 5 g @ 10 to 150 Hz, amplitude 0.35 mm (operation/storage/transport) IEC 60068-2-27 Ea (shock) 25 g @ 11 ms (half-sine shockpulse; operation); 50 g @ 11 ms (half-sine shock pulse; storage/transport) IEC 60068-2-32 Ed (free fall) 1 M (3.281ft)

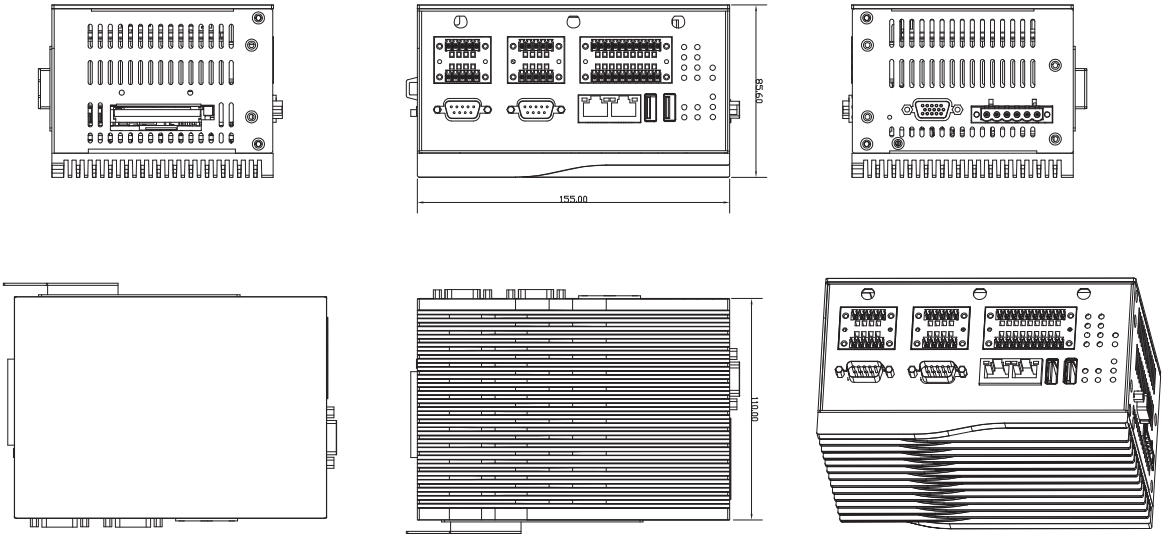
Ordering Information

Standard	
rBOX510-6COM-FL-DC (ATEX/C1D2) (P/N: E26M510101)	Robust ATEX/C1D2 DIN-rail fanless embedded system with Intel® Atom™ processor E3827 1.75 GHz dual core, DDR3L 4GB onboard and 6 COM (-40°C to +70°C)
rBOX510-E3845-6COM-FL-DC (C1D2)	Robust DIN-rail fanless embedded system with Intel® Atom™ processor E3845 (1.91 GHz) quad core and 6 COM ports (-40°C to +70°C)
rBOX510-E3845-6COM-FL-DC (ATEX, by request)	Robust DIN-rail fanless embedded system with Intel® Atom™ processor E3845 (1.91 GHz) quad core and 6 COM ports (-40°C to +70°C)

Optional	
CompactFlash™	8 GB or above (with W.T. CF)
2.5" SATA SSD	
mSATA	
Wall mount kit	

* Specifications and certifications may vary based on different requirements.

Dimensions



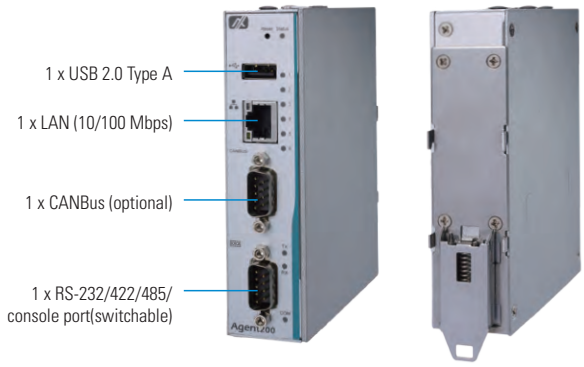
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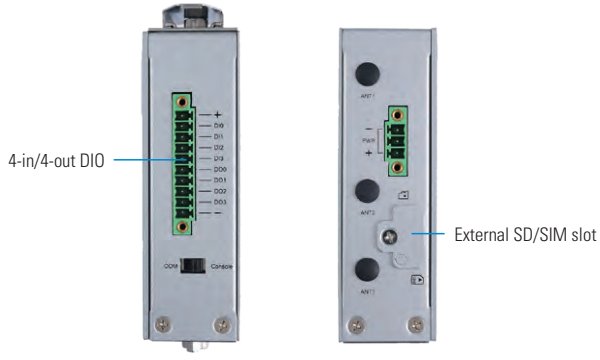
Agent200-FL-DC NEW

Robust RISC-based DIN-rail Fanless Embedded System with i.MX 6UL Processor, 1 COM, 1 LAN, DIO (4-in/4-out) and Optional CANbus

Features

- RISC-based (i.MX 6UltraLite) processor 528 MHz
- 256MB DDR3 SDRAM onboard
- 4GB eMMC flash onboard
- 2 PCI Express Mini Card slots (Wi-Fi or 3G/4G)
- 4 digital inputs and 4 digital outputs
- Power input range of 9V to 48V DC with terminal block
- Embedded Linux (Yocto) and Android 8.1 operating system
- Fanless and compact design
- Wide operating temperature range from -40°C to +70°C





i.MX6UL | Ext. Temp | IP40 | Fanless | Low Power

Specifications

Construction	Extruded aluminum and heavy-duty steel, IP40	
CPU	NXP i.MX 6UL processor, ARM® Cortex®-A7 @ 528 MHz	
System Memory	1 x DDR3-1600 onboard, 256 MB	
System I/O Outlet	Serial Port	1 x RS-232/422/485
	LAN	1 x 10/100 Mbps Ethernet Magnetic isolation protection 1.5KV
	USB	1 x USB 2.0
	DIO	1 x DIO (4-in/4-out) DI: Wet DO: Wet DI: Digital input levels for wet contacts: -Logic level 0: Close to GND -Logic level 1: +0.7 to +24 V max. DO: Output channels: 1, sink type Output current: max. 200 mA per channel On-state voltage: 24 VDC nominal, open
	Console Port	Yes, for user setting with debug
	EEPROM	1 x EEPPROM (2 Kb)
	Wireless	2 x PCI Express Mini Card slot (USB signal only) 1 x SIM card socket

Watchdog Timer	WDT 1: 0.5 to 128 sec. with a time resolution of 0.5 sec.
LED	1 x LED for power status 1 x LED for USB status 2 x LED for TX/RX status 3 x LED (programing by client)
Storage	1 x eMMC 4GB flash onboard
Power Supply	9 to 48 VDC power input range
Operating Temperature	-40°C to +70°C (-40°F to +158°F)
Storage Temperature	-45°C to +85°C (-49°F to +185°F)
Humidity	10% to 95%
Vibration Endurance	5 Gms @ (10 to 150Hz random; operation)
Dimensions	31 mm (1.22") (W) x 100 mm (3.94") (D) x 125 mm (4.92") (H)
Weight (net/gross)	0.3 kg (0.66 lb)/0.44 kg (0.97 lb)
Installation	DIN-rail, wall mount
OS Support	Yocto 2.4 (rocko), kernel 4.9.88 Ubuntu 18.04, kernel 4.9.88 Android 8.1
Certifications	FCC part 15, Heavy Industrial CE

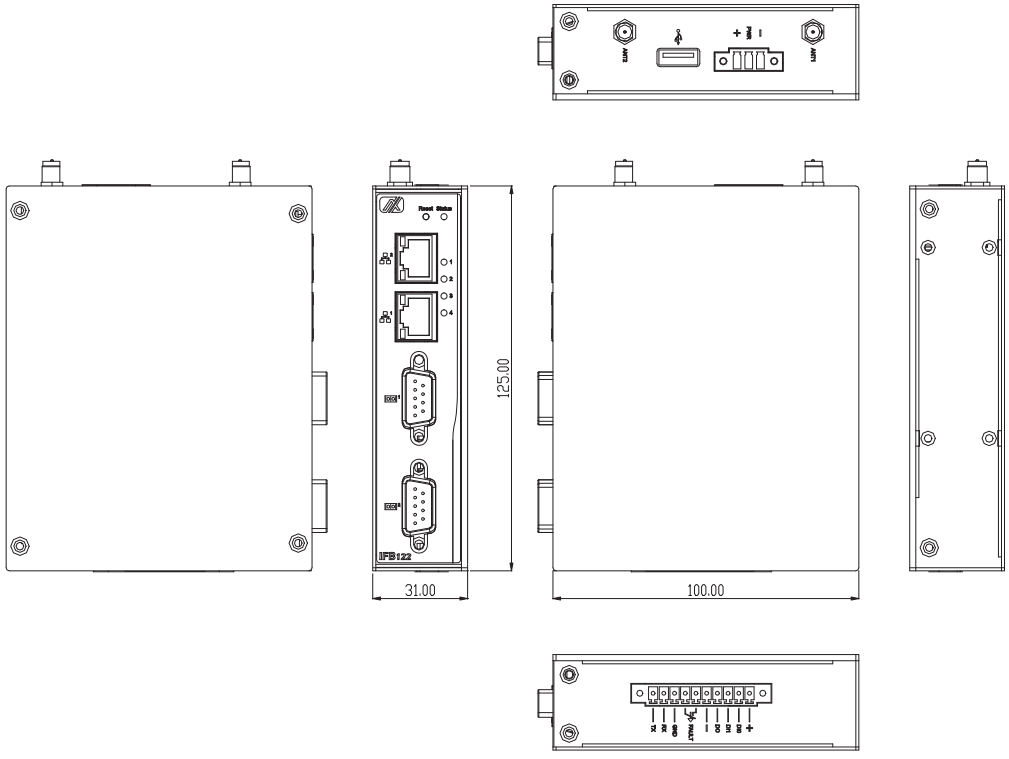
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Ordering Information

Standard	
Agent200-FL-DC	Robust RISC-based DIN-rail fanless embedded system with i.MX 6UL processor, 1 COM, 1 LAN and DIO (4-in/4-out)
Agent200-CAN-FL-DC	Robust RISC-based DIN-rail fanless embedded system with i.MX 6UL processor, 1 COM, 1 LAN and DIO (4-in/4-out), and CANBus

Optional
Wall mount kit
Wireless (3G/GPS/Wi-Fi) module

Dimensions



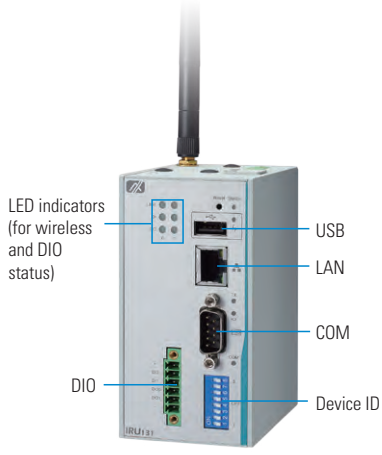
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IRU131

Robust RISC-based DIN-rail Fanless Embedded System with i.MX 6UL Processor, COM, LAN, DIO (2-in/2-out) and 2 PCIe Mini Card Slots

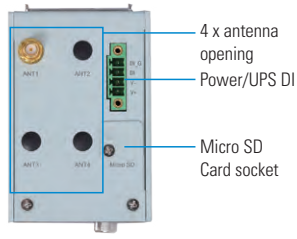
Features

- RISC-based (i.MX 6UltraLite) processor 528 MHz
- 512MB DDR3 SDRAM onboard
- 8GB eMMC flash onboard
- 2 PCI Express Mini Card slots (Wi-Fi, 3G/4G or LoRa)
- 1 isolated COM port
- 1 isolated DIO (2-in/2-out)
- Power input range of 9V to 48V DC with terminal block
- Embedded Linux operating system (Yocto)
- Wide operating temperature range from -40°C to +70°C
- Supports OPC UA











Introduction

The IRU131 DIN-rail fanless embedded system utilizes a low power RISC based (i.MX6 UL) processor and is designed to withstand temperatures ranging from -40°C to +70°C for applications in extreme operating environment and industrial automation.

The IRU131 supports one RS-232/422/485 serial ports, one LAN port, two digital input channels, two digital output channels and two wireless sockets. Its vertical DIN-rail form factor makes it easy to install the system in a small cabinet. The ready-to-run IRU131 is specially designed for remote control/ monitoring management applications ideal in a unmanned control room, an industrial machine, an automatic parking lot, a traffic cabinet, just to name a few.

Specifications

Construction	Extruded aluminum and heavy-duty steel, IP40	
CPU	NXP i.MX 6 UL processor, ARM® Cortex®-A7 @ 528 MHz	
System Memory	1 x DDR3-1600 onboard, 512 MB	
System I/O Outlet	Serial Port	1 x RS-232/422/485 Magnetic isolation protection 2 KV
	LAN	1 x 10/100 Mbps Ethernet Magnetic isolation protection 1.5 KV
	USB	1 x USB 2.0
	DIO	1 x DIO (2-in/2-out) with isolation 2 KV DI: wet/dry DO : wet DI: Input channels: 2 source type Input voltage: 0 to 30 VDC digital input levels for dry contacts: -Logic level 0: close to GND -Logic level 1: open Digital input levels for wet contacts: -Logic level 0: +10V to +24V (DI to COM-) -Logic level 1: +3V max. DO: Output channels: 2, sink type Output current: max. 200 mA per channel On-state voltage: 24 VDC nominal, open collector to 30V Optical isolation protection 2 KV

System I/O Outlet	Console Port	Yes For user setting with debug
	EEPROM	1 x EEPPROM (2 Kb)
	Device ID	ID setting 0 to 255
	Wireless	2 x PCI Express Mini Card slot (USB signal only) 1 x SIM card socket
Watchdog Timer	0.5 to 128 sec. with a time resolution of 0.5 sec.	
RTC	Yes (RTC battery on board)	
LEDs	2 x LED for dual wireless status 2 x LED for DI status 2 x LED for DO status	
Storage	1 x eMMC 8GB flash onboard	
Power Supply	9 to 48 VDC	
Operating Temperature	-40°C to +70°C (-40°F to +158°F)	
Storage Temperature	-45°C to +85°C (-49°F to +185°F)	
Humidity	10% to 95%	
Vibration Endurance	2 Gms @ (10 to 150Hz sine wave; operation)	
Dimensions	55 mm (2.16") (W) x 82 (3.23") mm (D) x 108 (4.25") (H)	
Weight (net/gross)	0.3 kg (0.66 lb)/0.50 kg (1.10 lb)	
Installation	DIN-rail	
Certifications	FCC part 15, Heavy Industrial CE	

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Wireless Specifications

4G module	4G Mini card LTE SIERRA AIRPRIME MC7304 (Option)	Standards: LTE Cat.3 Interface: USB Radio Band/ Frequencies (MHz): 850(5) / 900(8) / 1800(3) / 1900(2) @GSM 850(5) / 900(8) / 1900(2) / 2100(1) @UMTS 800(20) / 900(8) / 1800(3) / 2100(1) / 2600(7) @FDD LTE Region: Global
Wi-Fi module	Wi-Fi Mini card Sparklan WPEQ-160ACN (Option)	Qualcomm Atheros QCA9377-7 Antenna:2xUFL connectors, 1T1R Operating Frequency: 802.11 ac/a/b/g/n ISM Band 2.412 GHz to 2.472 GHz 5.180 MHz to 5.825 MHz Interface: USB Region: Global
3G module	3G Mini card Quectel UC20G (Option)	UMTS:800/ 850/ 900/ 1900/ 2100MHz GSM/EDGE 850/ 900/1800/ 1900MHz Region: Global
4G module	4G Mini card LTE RYR2800 (uBlox R280) (Option)	Standards: LTE Cat.1 Interface: USB Radio Band/ Frequencies (MHz): LTE bands1, 3,5,7,8,28) Region: TW, AU
	4G Mini card LTE RYR2110 (uBlox R211) (Option)	Standards: LTE Cat.1 Interface: USB Radio Band/ Frequencies (MHz): LTE bands1, 3,7,20) Region: EU

Ordering Information

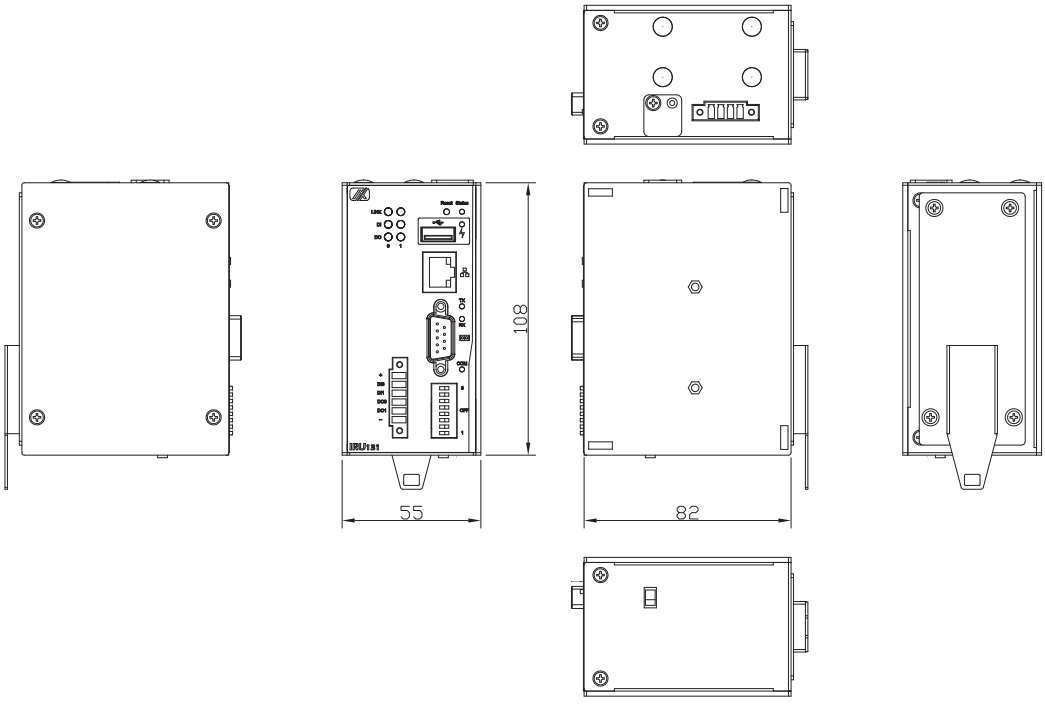
Standard	
IRU131-FL-DC (P/N: E271131100)	Robust DIN-rail fanless embedded system with i.MX 6UL processor, COM, LAN, DIO (2-in/2-out) and 2 PCIe Mini Card slots

Optional
Wireless (3G/GPS or Wi-Fi) module

Packing list

1 x CD
8 x Screws
1 x Din-rail kit
1 x 4-pin terminal block for power port
1 x 6-pin terminal block for DIO port

Dimensions



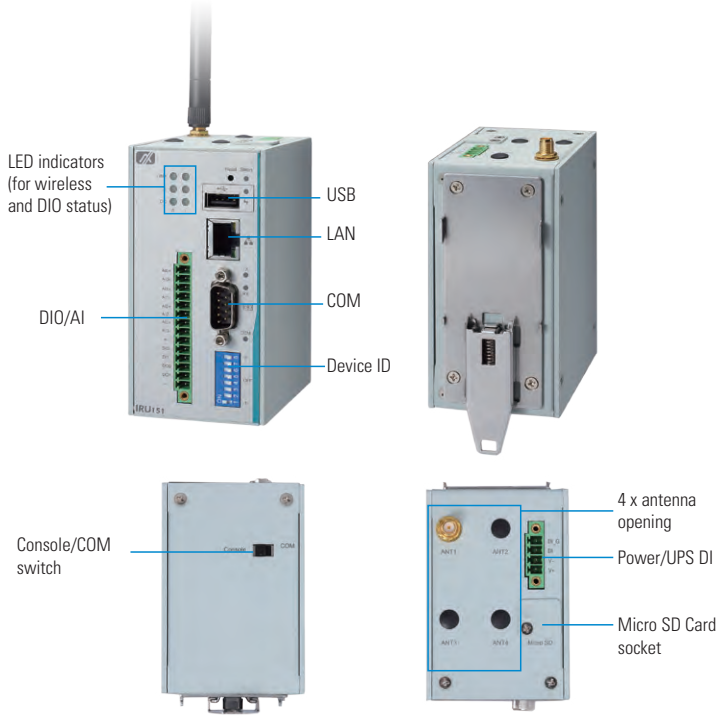
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IRU151

Robust RISC-based DIN-rail Fanless Embedded System with i.MX 6UL Processor, COM, LAN, DIO (2-in/2-out), 4 AI Channels (16-bit, 100 S/s) and 2 PCIe Mini Card Slots

Features

- RISC-based (i.MX 6UltraLite) processor 528 MHz
- 512MB DDR3 SDRAM onboard
- 8GB eMMC flash onboard
- 2 PCI Express Mini Card slots (Wi-Fi, 3G/4G or LoRa)
- 4 isolated analog input channels (16-bit, 100 S/s)
- 1 isolated COM port
- 1 isolated DIO (2-in/2-out)
- Embedded Linux operating system (Yocto)
- Wide operating temperature range from -40°C to +70°C
- Supports LabVIEW versions later than 2016
- Supports OPC UA



i.MX6 UL | Ext. Temp | IP40 | Fanless | Low Power

Introduction

The IRU151 DIN-rail fanless embedded system utilizes a low power RISC-based (i.MX6 UL) processor, one RS-232/422/485 serial port, one LAN, two digital input channels, two digital output channels, four analog input channels, designed to withstand temperatures ranging from -40°C to +70°C for applications in extreme operating environment and industrial automation.

The IRU151 is an Ethernet-based gateway supporting two wireless sockets (Wi-Fi, 3G/4G or LoRa), acting as a simple transparent interface between Ethernet-based network and Modbus devices such as meters, monitors, protective relays, trip units, motor controls and other devices that communicate using Modbus protocol.

Also, the IRU151 can record digital/analog of devices and control digital devices. It can offer a simple, scalable web-based monitoring solution providing real-time data views, on-board data logging/trending, and simple control over Modbus devices. Embedded math function such as RMS and FFT are used to make advanced diagrams. The ready-to-run IRU151 is specially designed for remote control/monitoring management applications ideal in a unmanned control room, an industrial machine, an automatic parking lot, a traffic cabinet, just to name a few.

Specifications

Construction	Extruded aluminum and heavy-duty steel, IP40	
CPU	NXP i.MX 6UL processor, ARM® Cortex®-A7 @ 528 MHz	
System Memory	1 x DDR3-1600 onboard, 512 MB	
System I/O Outlet	Serial Port	1 x RS-232/422/485 Magnetic isolation protection 2KV
	LAN	1 x 10/100 Mbps Ethernet Magnetic isolation protection 1.5KV
	Analog Input	4 x AI (Isolation) channels: 4 Input type differential Input range: (software probrammable) Bipolan : ±5V, ±10V Resolution:16-bit Sampling rate : 100 S/s Overvoltage protection : ±55V Trigger source : analog or digital (software selectable)
	USB	1 x USB 2.0 (type A)
	DIO	1 x DIO (2-in/2-out) with isolation 2KV DI: wet/dry DO: wet
System I/O Outlet	DIO	DI: Input channels: 2 source type Input voltage: 0 to 30 VDC digital input levels for dry contacts: -Logic level 0: close to GND -Logic level 1: open Digital input levels for wet contacts: -Logic level 0: +10V to +24V (DI to COM-) -Logic level 1: +3V max. DO: Output channels: 2, sink type Output current: max. 200 mA per channel On-state voltage: 24VDC nominal, open collector to 30V Optical isolation protection 2 KV
	Console Port	Yes For user setting with debug
	EEPROM	1 x EEPPROM (2 Kb)
	Device ID	ID setting 0 to 255
	Wireless	2 x PCI Express Mini Card slot (USB signal only) 1 x SIM card socket
Watchdog Timer	WDT 1: 0.5 to 128 sec. with a time resolution of 0.5 sec.	
RTC	Yes (RTC battery on board)	
LEDs	2 x LED for dual wireless status 2 x LED for DI status 2 x LED for DO status	
Storage	1 x eMMC 8GB flash onboard	
Power Supply	9 to 48 VDC	
Operating Temperature	-40°C to +70°C (-40°F to +158°F)	
Storage Temperature	-45°C to +85°C (-49°F to +185°F)	
Humidity	10% to 95%	
Vibration Endurance	2 Gms @ (10 to 150Hz sine wave; operation)	
Dimensions	55 mm (2.16") (W) x 82 (3.23") mm (D) x 108 (4.25") (H)	
Weight (net/gross)	0.32 kg (0.71 lb)/0.53 kg (1.17 lb)	
Installation	DIN-rail	
Certifications	FCC part 15, Heavy Industrial CE	

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Wireless Specifications

4G module	4G Mini card LTE SIERRA AIRPRIME MC7304 (optional)	Standards: LTE Cat.3 Interface: USB Radio Band/ Frequencies (MHz): 850(5) / 900(8) / 1800(3) / 1900(2) @GSM 850(5) / 900(8) / 1900(2) / 2100(1) @UMTS 800(20) / 900(8) / 1800(3) / 2100(1) / 2600(7) @FDD LTE Region: Global
Wi-Fi module	Wi-Fi Mini card Sparklan WPEQ-160ACN (optional)	Qualcomm Atheros QCA9377-7 Antenna:2xUFL connectors, 1T1R Operating Frequency: 802.11 ac/a/b/g/n ISM Band 2.412 GHz to 2.472 GHz 5.180 MHz to 5.825 MHz Interface: USB Region: Global
3G module	3G Mini card Quectel UC20G (optional)	UMTS:800/ 850/ 900/ 1900/ 2100MHz GSM/EDGE 850/ 900/1800/ 1900MHz Region: Global
4G module	4G Mini card LTE RYR2800 (uBlox R280) (optional)	Standards: LTE Cat.1 Interface: USB Radio Band/ Frequencies (MHz): LTE bands1, 3,5,7,8,28) Region: TW, AU
	4G Mini card LTE RYR2110 (uBlox R211) (optional)	Standards: LTE Cat.1 Interface: USB Radio Band/ Frequencies (MHz): LTE bands1, 3,7,20) Region: EU

Software Specifications

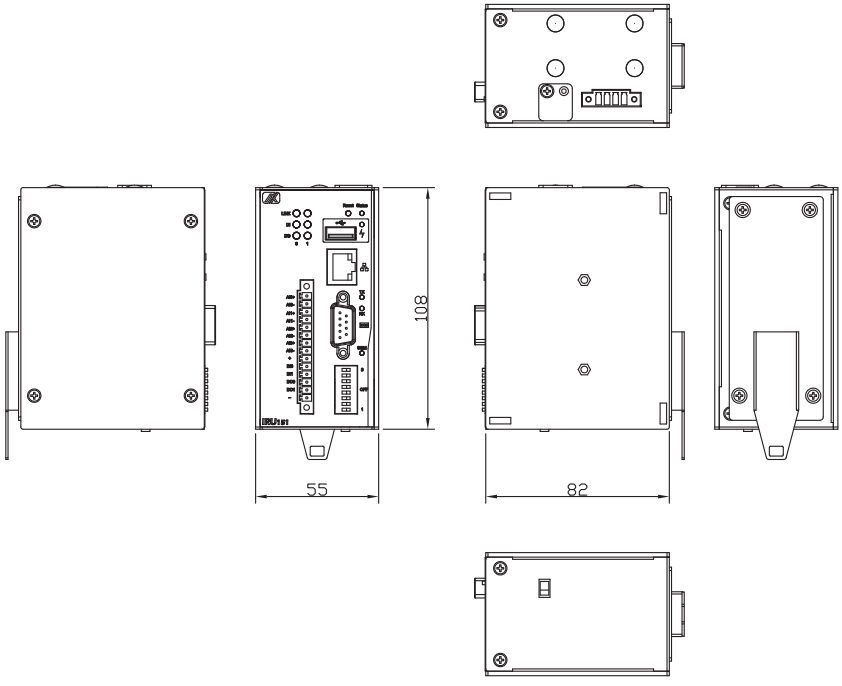
OS	Linux Kernel 3.14.52 Yocto FIDO 1.8	
Protocol Types	ICMP. TCP/IP, UDP, ARP, Telnet, SNMP, HTTP, HTTPS, SSL, SMTP, FTP, TFTP NTP, DNS, PPP, PPPOE, DHCP, NFS	
Software Types	Serial Server	Supports TCP Server/TCP Client/ UDP/Pair/VC Supports IP filter Supports 32 TCP connections
	Modbus	Supports Modbus TCP/Modbus RTU/Modbus ASCII Supports TCP for multiple COM port
Setting Configuration	SNMP	Supports V1/V2C/V3 Supports SNMP Private MIB Supports read/write
	http /https	Supports SSL Supports import/export Supports FW update
	Remote Manager	Remote Log Email SNMP Supports Trap
Alert Function	Yes	

Ordering Information

Standard	
IRU151-FL-DC (P/N: E271151100)	Robust DIN-rail fanless embedded system with i.MX 6UL processor, COM, LAN, DIO (2-in/2-out), 4 AI (16-bit,100 S/s) and 2 PCIe Mini Card Slots (-40°C ~ +70°C)

Optional
Wireless (3G/GPS or Wi-Fi) module

Dimensions



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IRU152

Robust RISC-based DIN-rail Fanless Embedded System with i.MX 6UL Processor, COM, LAN, DIO (2-in/2-out), 4 AI Channels (16-bit, 250 kS/s) and 2 PCIe Mini Card Slots

Features

- RISC-based (i.MX 6UltraLite) processor 528 MHz
- 512MB DDR3 SDRAM onboard
- 8GB eMMC flash onboard
- 2 PCI Express Mini Card slots (Wi-Fi, 3G/4G or LoRa)
- 4 isolated analog input channels (16-bit, 250 kS/s)
- 1 isolated COM port
- 1 isolated DIO (2-in/2-out)
- Embedded Linux operating system (Yocto)
- Wide operating temperature range from -40°C to +70°C
- Supports LabVIEW versions later than 2016
- Supports OPC UA





Introduction

The IRU152 DIN-rail fanless embedded system utilizes a low power RISC-based (i.MX 6UL) processor, one RS-232/422/485 serial port, one LAN, two digital input channels, two digital output channels, four analog input channels, designed to withstand temperatures ranging from -40°C to +70°C for applications in extreme operating environment and industrial automation.

The IRU152 is an Ethernet-based gateway supporting two wireless sockets (Wi-Fi, 3G/4G or LoRa), acting as a simple transparent interface between Ethernet-based network and Modbus devices such as meters, monitors, protective relays, trip units, motor controls and other devices that communicate using Modbus protocol.

Also, the IRU152 can record digital/analog signal of devices and control digital devices. It can offer a simple, scalable web-based monitoring solution providing real-time data views, on-board data logging/trending, and simple control over Modbus devices. Embedded math function such as RMS and FFT are used to make advanced diagrams. The ready-to-run IRU152 is specially designed for remote control/monitoring management applications ideal in a unmanned control room, an industrial machine, an automatic parking lot, a traffic cabinet, just to name a few.

Specifications

Construction	Extruded aluminum and heavy-duty steel, IP40	
CPU	NXP i.MX 6 UL processor, ARM® Cortex®-A7 @ 528 MHz	
System Memory	1 x DDR3-1600 onboard, 512 MB	
System I/O Outlet	Serial Port	1 x RS-232/422/485 Magnetic isolation protection 2KV
	LAN	1 x 10/100 Mbps Ethernet Magnetic isolation protection 1.5KV
	Analog Input	4 x AI (isolation) channels: 4 Input type differential Input range: (software programmable) Unipolar: 0 to 10V, 0 to 5V Bipolar: ±10V, ±5V Resolution:16-bit Sampling rate: 10 S/s to 250 kS/s FIFO buffer size: 2,048 samples Overvoltage protection: ±55V Trigger source: Analog or digital (software selectable)
	USB	1 x USB 2.0 (type A)
	DIO	1 x DIO (2-in/2-out) with isolation 2KV DI: wet/dry DO: wet
System I/O Outlet	DIO	DI: Input channels: 2 source type Input voltage: 0 to 30 VDC digital input levels for dry contacts: -Logic level 0: close to GND -Logic level 1: open Digital input levels for wet contacts: -Logic level 0: +10V to +24V (DI to COM) -Logic level 1: +3V max. DO: Output channels: 2, sink type Output current: max. 200 mA per channel On-state voltage: 24VDC nominal, open collector to 30V Optical isolation protection 2 KV
	Console Port	Yes For user setting with debug
	EEPROM	1 x EEPPROM (2 Kb)
	Device ID	ID setting 0 to 255
	Wireless	2 x PCI Express Mini Card slot (only USB signal) 1 x SIM Card socket
Watchdog Timer	WDT 1: 0.5 to 128 sec. with a time resolution of 0.5 sec.	
RTC	Yes (RTC battery on board)	
LEDs	2 x LED for dual wireless status 2 x LED for DI status 2 x LED for DO status	
Storage	1 x eMMC 8GB flash onboard	
Power Supply	9 to 48 VDC power input range	
Operating Temperature	-40°C to +70°C (-40°F to +158°F)	
Storage Temperature	-45°C to +85°C (-49°F to +185°F)	
Humidity	10% to 95%	
Vibration Endurance	2 Gms @ (10 to 150Hz sine wave; operation)	
Dimensions	55 mm (2.16") (W) x 82 (3.23") mm (D) x 108 (4.25") (H)	
Weight (net/gross)	0.32 kg (0.71 lb)/0.53 kg (1.17 lb)	
Installation	DIN-rail	
Certifications	FCC part 15, Heavy Industrial CE	

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Wireless

4G module	4G Mini card LTE SIERRA AIRPRIME MC7304 (Option)	Standards: LTE Cat.3 Interface: USB Radio Band/ Frequencies (MHz): 850(5) / 900(8) / 1800(3) / 1900(2) @GSM 850(5) / 900(8) / 1900(2) / 2100(1) @UMTS 800(20) / 900(8) / 1800(3) / 2100(1) / 2600(7) @FDD LTE Region: Global
Wi-Fi module	Wi-Fi Mini card Sparklan WPEQ-160ACN (Option)	Qualcomm Atheros QCA9377-7 Antenna:2xUFL connectors, 1T1R Operating Frequency: 802.11 ac/a/b/g/n ISM Band 2.412 GHz to 2.472 GHz 5.180 MHz to 5.825 MHz Interface: USB Region: Global
3G module	3G Mini card Quectel UC20G (Option)	UMTS:800/ 850/ 900/ 1900/ 2100MHz GSM/EDGE 850/ 900/1800/ 1900MHz Region: Global
4G module	4G Mini card LTE RYR2800 (uBlox R280) (Option)	Standards: LTE Cat.1 Interface: USB Radio Band/ Frequencies (MHz): LTE bands1, 3,5,7,8,28) Region: TW, AU
	4G Mini card LTE RYR2110 (uBlox R211) (Option)	Standards: LTE Cat.1 Interface: USB Radio Band/ Frequencies (MHz): LTE bands1, 3,7,20) Region: EU

Packing list

1 x CD
8 x Screws
1 x Din-rail kit
1 x 4-pin terminal block for power port
1 x 14-pin terminal block for DIO/AI port

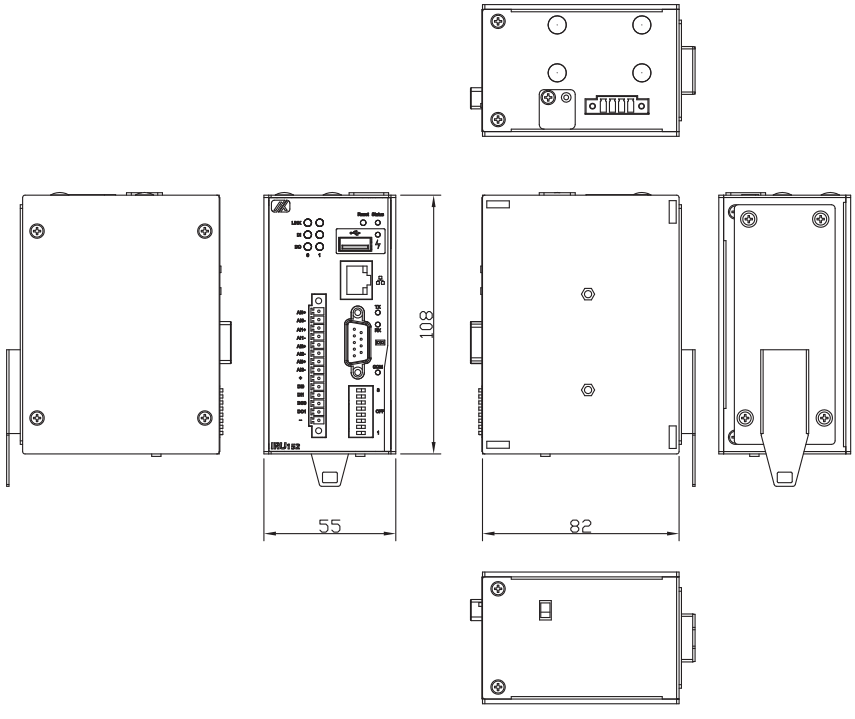
Software Specifications

OS	Linux Kernel 3.14.52 Yocto FIDO 1.8	
Protocol Types	ICMP. TCP/IP, UDP, ARP, Telnet, SNMP, HTTP, HTTPS, SSL, SMTP, FTP, TFTP NTP, DNS, PPP, PPPOE, DHCP, NFS	
Software Types	Serial Server	Supports TCP Server/TCP Client/ UDP/Pair/VC Supports IP filter Supports 32 TCP connections
	Modbus	Supports Modbus TCP/Modbus RTU/Modbus ASCII Supports TCP for multiple COM port
Setting Configuration	SNMP	Supports V1/V2C/V3 Supports SNMP Private MIB Supports read/write
	http /https	Supports SSL Supports import/export Supports FW update
	Remote Manager	Remote log Email SNMP Supports trap
Alert Function	Yes	

Ordering Information

Standard	
IRU152-FL-DC (P/N: E271152100)	Robust DIN-rail fanless embedded system with i.MX 6UL processor, COM, LAN, DIO (2-in/2-out), 4 AI (16-bit, 250 kS/s) and 2 PCIe Mini Card slot
Optional	
Wireless (3G/GPS or Wi-Fi) module	

Dimensions



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IFB112

Robust RISC-based DIN-rail Fanless Embedded System with i.MX 6UL Processor, COM, CANbus, 2 LANs and DIO (2-in/1-out)

Features

- RISC-based (i.MX 6UltraLite) processor 528 MHz
- 256MB DDR3 SDRAM onboard
- 4GB eMMC flash onboard
- 1 PCI Express Mini Card slot (Wi-Fi or 3G/4G)
- 1 CAN Bus
- 2 digital inputs and 1 digital output
- 9 to 48 VDC wide range power input with terminal block
- Embedded Linux operating system (Yocto)
- Fanless and compact design
- Wide operating temperature range from -40°C to +70°C



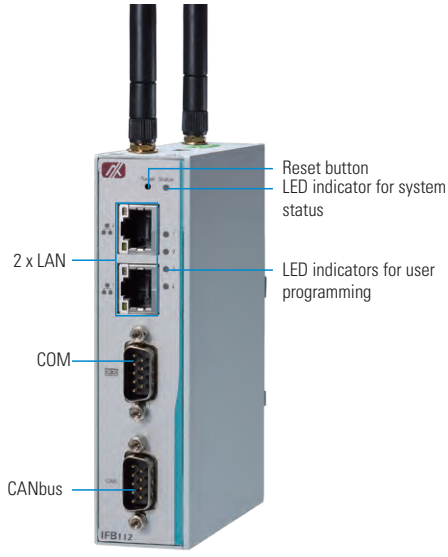
Introduction

The IFB112 cost-effective DIN-rail fanless embedded system utilizes the low power RISC-based (i.MX 6UL) processor and is designed to withstand temperatures ranging from -40°C to +70°C for using in extreme operating environment and industrial automation applications.

The IFB112 features one RS-232/422/485 serial port, dual LAN, one CANbus, two digital input channels, one digital output channel, LED for user programming and one eMMC onboard 4 GB. Its vertical DIN-rail form factor makes it easy to install the system in a small cabinet. The ready-to-run IFB112 is specially designed for remote control/ monitoring management applications like unmanned control room, industrial machine, automatic parking lot, traffic cabinet and more.

Specifications

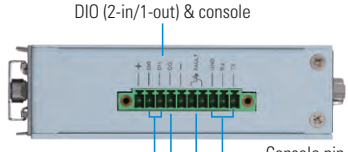
Construction	Extruded aluminum and heavy-duty steel, IP40	
CPU	NXP i.MX 6UL processor, ARM® Cortex®-A7, 528 MHz	
System Memory	1 x DDR3-1600 onboard, 256 MB	
System I/O Outlet	Serial Port	1 x RS-232/422/485 (RS-232/422/485 interface select by software)
	CAN Bus	1 x CAN 2.0 B (DB9 connector) Meets ISO 11898 standard Software control termination resistor 120 ohm can high speed up to 1Mbit/s for transmit/receive
	LAN	2 x 10/100 Mbps Ethernet Magnetic isolation protection 1.5 KV
	Relay	1 x Relay
	USB	1 x USB 2.0
	DIO	1 x DIO (2-in/1-out) DI: wet/dry DO: wet DI: Input channels: 2 source type Input voltage: 0 to 24 VDC digital input levels for dry contacts: -Logic level 0: close to GND -Logic level 1: open Digital input levels for wet contacts : -Logic level 0: Close to GND -Logic level 1: +0.7 to +24 V max. DO: Output channels: 1, sink type Output current: max. 200 mA per channel On-state voltage: 24 VDC nominal, open
	Console Port	Yes For user setting with debug
	EEPROM	1 x EEPPROM (2 Kb)
	Wireless	1 x PCI Express Mini Card slot (USB signal only) 1 x SIM card socket



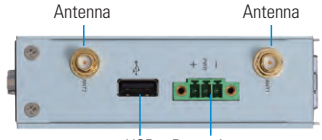
▲ Front view



▲ Rear view



▲ Bottom



▲ Top view

Watchdog Timer	WDT 1: 0.5 to 128 sec. with a time resolution of 0.5 sec.
LEDs	1 x LED for power status 1 x LED for reset status 4 x LED (programing by client)
Storage	1 x eMMC 4GB flash onboard
Power Supply	9 to 48VDC power input range
Operating Temperature	-40°C to +70°C (-40°F to +158°F)
Storage Temperature	-45°C to +85°C (-49°F to +185°F)
Humidity	10% to 95%
Vibration Endurance	3 Gms @ (10 to 150Hz sine wave; operation)
Dimensions	31 mm (1.22") (W) x 100 mm (3.94") (D) x 125 mm (4.92") (H)
Weight (net/gross)	0.3 kg (0.66 lb)/0.44 kg (0.97 lb)
Installation	DIN-rail, wall mount
OS Linux	OS : Yocto 1.8.1 (Fido) Kernel: 3.14.52
Certifications	FCC part 15, Heavy Industrial CE

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Ordering Information

Standard	
IFB112-FL-DC (P/N: E26V112100)	Robust DIN-rail fanless embedded system with i.MX 6UL processor, COM, CANbus, 2 LANs and DIO (2-in/1-out) (-40°C to +70°C)

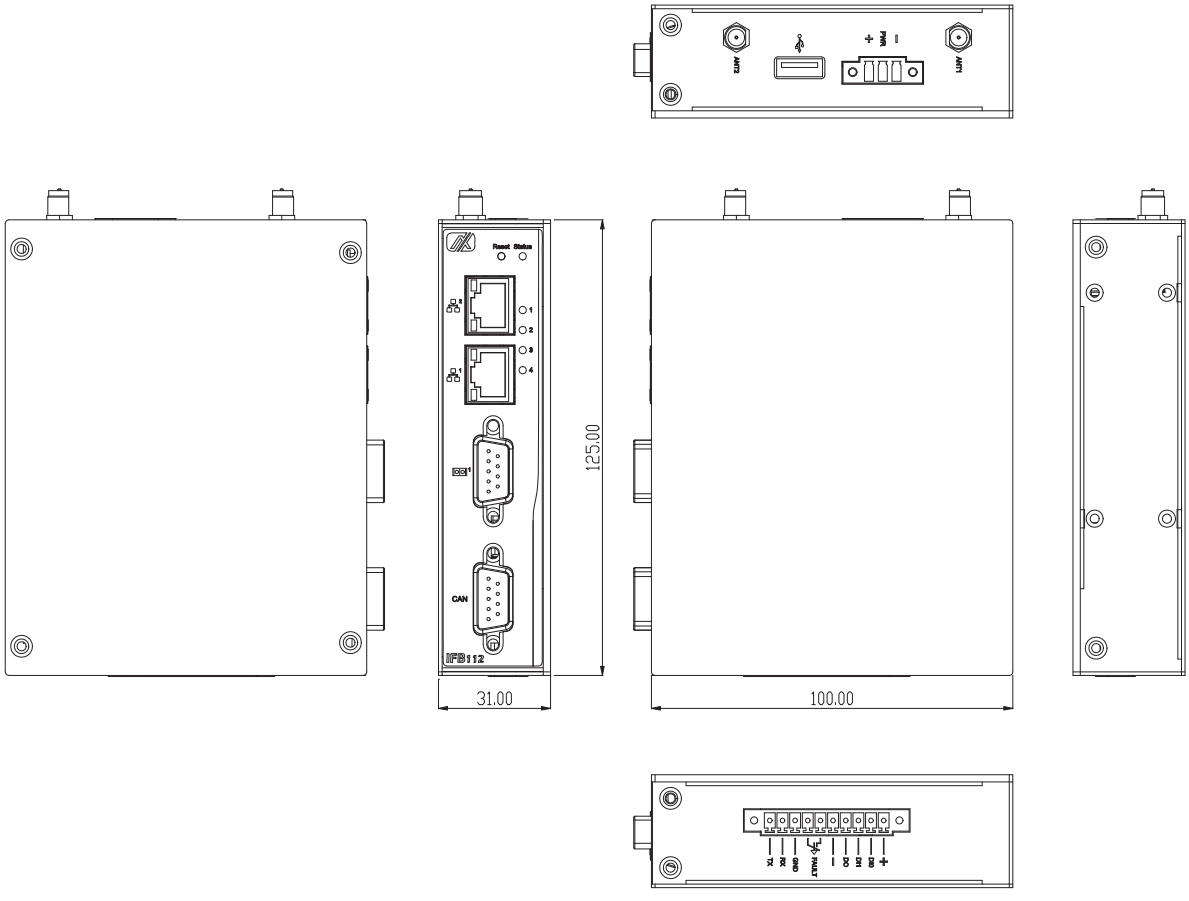
Optional
Wall mount kit
Wireless (3G/GPS or Wi-Fi) module

Packing list

1 x CD
4 x Screws
1 x Din-rail kit
1 x Console cable
1 x 3-pin terminal block for power port
1 x 10-pin terminal block for DIO port

* Specifications and certifications may vary based on different requirements.

Dimensions



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IFB122

Robust RISC-based DIN-rail Fanless Embedded System with i.MX 6UL Processor, 2 COM, 2 LANs and DIO (2-in/1-out)

Features

- RISC-based (i.MX 6UltraLite) processor 528 MHz
- 256MB DDR3 SDRAM onboard
- 4GB eMMC flash onboard
- 1 PCI Express Mini Card slot (Wi-Fi or 3G/4G)
- 2 digital inputs and 1 digital output
- Power input range of 9V to 48V DC with terminal block
- Embedded embedded Linux operating system (Yocto)
- Fanless and compact design
- Wide operating temperature range from -40°C to +70°C



▲ Front view

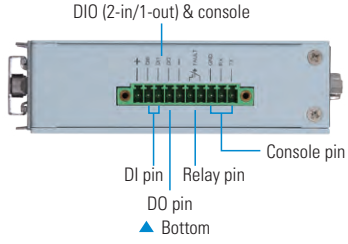
i.MX6UL | Ext. Temp | IP40 | Fanless | Low Power

Introduction

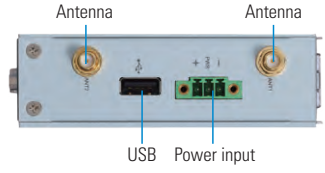
The IFB122 cost-effective DIN-rail fanless embedded system utilizes the low power RISC-based (i.MX6UL) processor and is designed to withstand temperatures ranging from -40°C to +70°C for using in extreme operating environment and industrial automation applications.

The IFB122 features two RS-232/422/485 serial ports, dual LANs, two digital input channels, one digital output channel, LED for user programming and one eMMC onboard 4 GB. Its vertical DIN-rail form factor makes it easy to install the system in a small cabinet. The ready-to-run IFB122 is specially designed for remote control/monitoring management applications like unmanned control room, industrial machine, automatic parking lot, traffic cabinet and more.


▲ Rear view



▲ Bottom



▲ Top view

Specifications

Construction	Extruded aluminum and heavy-duty steel, IP40	
CPU	NXP i.MX 6UL processor, ARM® Cortex®-A7 @ 528 MHz	
System Memory	1 x DDR3-1600 onboard, 256 MB	
System I/O Outlet	Serial Port	2 x RS-232/422/485
	LAN	2 x 10/100 Mbps Ethernet Magnetic isolation protection 1.5KV
	Relay	1 x Relay
	USB	1 x USB 2.0
	DIO	1 x DIO (2-in/1-out) DI: Wet DO: Wet DI: Digital input levels for wet contacts: -Logic level 0: Close to GND -Logic level 1: +0.7 to +24 V max. DO: Output channels: 1, sink type Output current: max. 200 mA per channel On-state voltage: 24 VDC nominal, open
	Console Port	Yes For user setting with debug
	EEPROM	1 x EEPPROM (2 Kb)
	Wireless	1 x PCI Express Mini Card slot (USB signal only) 1 x SIM card socket

Watchdog Timer	WDT 1: 0.5 to 128 sec. with a time resolution of 0.5 sec.
LEDs	1 x LED for power status 1 x LED for reset status 4 x LED (programing by client)
Storage	1 x eMMC 4GB flash onboard
Power Supply	9 to 48 VDC power input range
Operating Temperature	-40°C to +70°C (-40°F to +158°F)
Storage Temperature	-45°C to +85°C (-49°F to +185°F)
Humidity	10% to 95%
Vibration Endurance	5 Gms @ (10 to 150Hz random; operation)
Dimensions	31 mm (1.22") (W) x 100 mm (3.94") (D) x 125 mm (4.92") (H)
Weight (net/gross)	0.3 kg (0.66 lb)/0.44 kg (0.97 lb)
Installation	DIN-rail, wall mount
OS Linux	OS : Yocto 1.8.1 (Fido) Kernel: 3.14.52
Certifications	FCC part 15, Heavy Industrial CE

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Ordering Information

Standard	
IFB122-FL-DC (P/N: E26V122100)	Robust DIN-rail fanless embedded system with i.MX 6UL processor, 2 COM, 2 LANs and DIO (2-in/1-out) (-40°C to +70°C)

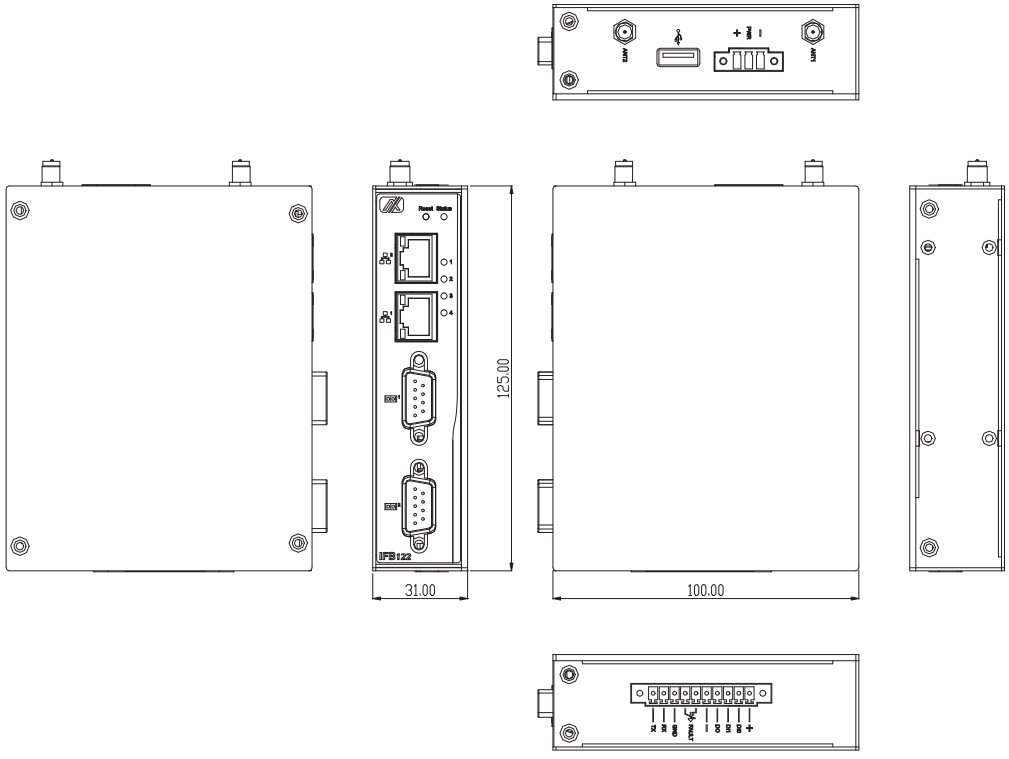
Optional
Wall mount kit
Wireless (3G/GPS or Wi-Fi) module

Packing list

1 x CD
4 x Screws
1 x Din-rail kit
1 x Console cable
1 x 3-pin terminal block for power port
1 x 10-pin terminal block for DIO port

* Specifications and certifications may vary based on different requirements.

Dimensions



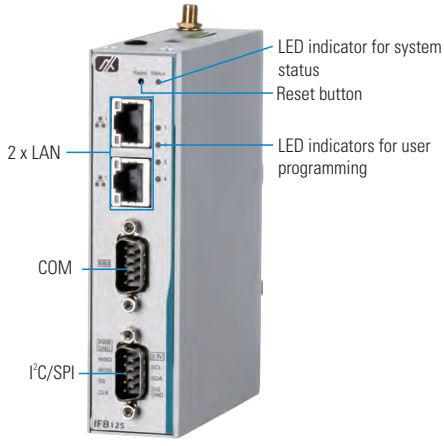
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IFB125

Robust RISC-based DIN-rail Fanless Embedded System with i.MX 6UL Processor, COM, SPI, I²C, 2 LANs and DIO (2-in/1-out)

Features

- RISC-based (i.MX 6UltraLite) processor 528 MHz
- 256MB DDR3 SDRAM onboard
- 8GB eMMC flash onboard
- 1 SPI, 1 I²C
- 1 PCI Express Mini Card slot (Wi-Fi or 3G/4G)
- 2 digital inputs and 1 digital output
- Power input range of 9V to 48V DC with terminal block
- Embedded Linux operating system (Yocto)
- Fanless and compact design
- Wide operating temperature range from -40°C to +70°C



▲ Front view

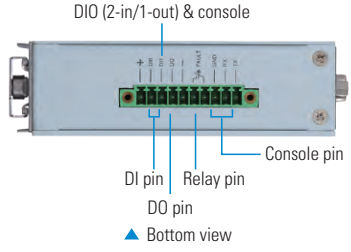


Introduction

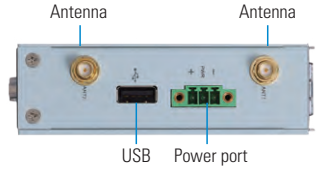
The IFB125 utilizes the low power RISC-based (i.MX6UL) processor and is designed to withstand temperatures ranging from -40°C to +70°C for using in extreme operating environment and industrial automation applications.

The IFB125 features one SPI, one I²C, one RS-232/422/485 serial port, dual LANs, two digital input channels, one digital output channel, LED for user programming and one eMMC onboard 8GB. Its vertical form factor makes it easy to install in a small cabinet. The ready-to-run IFB125 is specially designed for remote control/monitoring management applications like unmanned control room, industrial machine, automatic parking lot, traffic cabinet and more.


▲ Rear view



▲ Bottom view



▲ Top view

Specifications

Construction	Extruded aluminum and heavy-duty steel, IP40	
CPU	NXP i.MX 6UL processor, ARM® Cortex®-A7 @ 528 MHz	
System Memory	1 x DDR3-1600 onboard, 256 MB	
System I/O Outlet	Serial Port	1 x RS-232/422/485
	LAN	2 x 10/100 Mbps Ethernet Magnetic isolation protection 1.5 KV
	SPI	Yes (DB9 connector) (with 3.3V @ 0.5A powered)
	I²C	Yes (DB9 connector) (with 3.3V @ 0.5A powered)
	Relay	1 x Relay
	USB	1 x USB 2.0
	DIO	1 x DIO (2-in/1-out) DI: wet/dry Digital input levels for wet contacts: -Logic level 0: Close to GND -Logic level 1: +0.7 to +30 V max. DO: wet Output channels: 1, sink type Output current: max. 200 mA per channel On-state voltage: 24 VDC nominal, open
	Console Port	Yes For user setting with debug
	EEPROM	1 x EEPPROM (2 Kb)
	Wireless	1 x PCI Express Mini Card slot (USB signal only) 1 x SIM card socket

Watchdog Timer	WDT 1: 0.5 to 128 sec. with a time resolution of 0.5 sec.
LEDs	1 x LED for power status 1 x LED for reset status 4 x LED (programing by client)
Storage	1 x eMMC 8GB flash onboard
Power Supply	9 to 48 VDC power input range
Operating Temperature	-40°C to +70°C (-40°F to +158°F)
Storage Temperature	-45°C to +85°C (-49°F to +185°F)
Humidity	10% to 95%
Vibration Endurance	5 Gms @ (10 to 150Hz random; operation)
Dimensions	31 mm (1.22") (W) x 100 mm (3.94") (D) x 125 mm (4.92") (H)
Weight (net/gross)	0.3 kg (0.66 lb)/0.44 kg (0.97 lb)
Installation	DIN-rail, wall mount
OS Linux	Toolchain/Cross compiler: Yocto Kernel: 3.14.52 (with NXP and Axiomtek hardware modified patch)
Certifications	FCC part 15, Heavy Industrial CE

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Ordering Information

Standard	
IFB125-FL-DC (P/N: E26V125100)	Robust DIN-rail fanless embedded system with i.MX 6UL processor, SPI, I²C, COM, 2 LANs and DIO (2-in/1-out) (-40°C to +70°C)

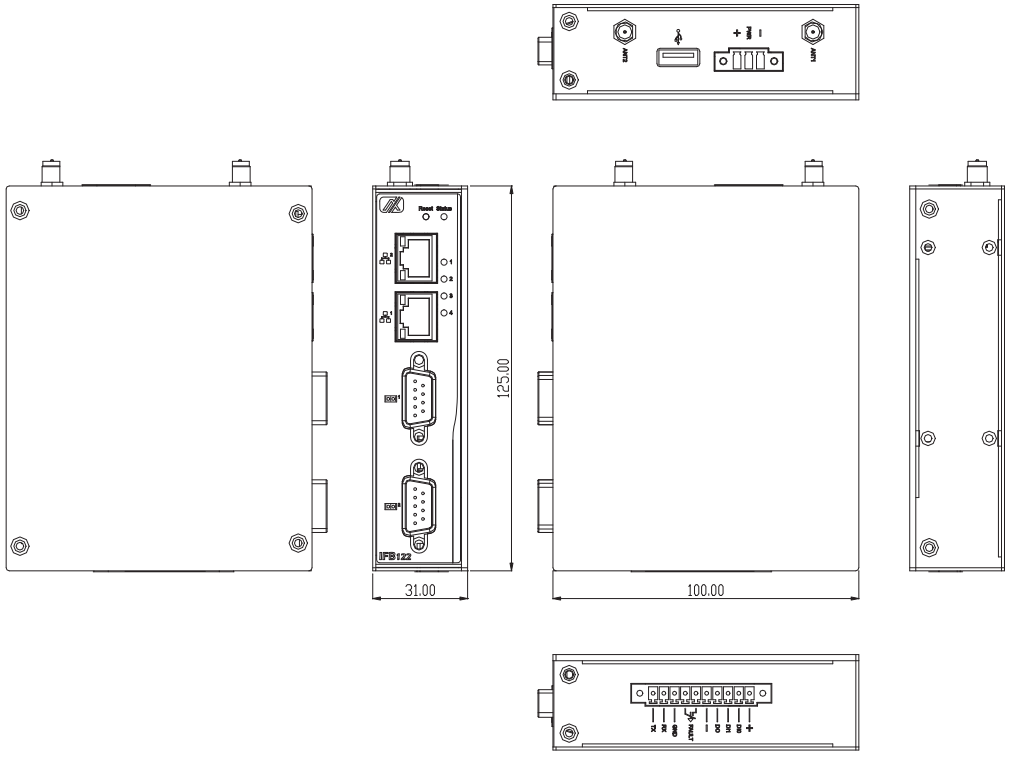
Optional
Wall mount kit
Wireless (3G/GPS or Wi-Fi) module

Packing list

1 x CD
4 x Screws
1 x Din-rail kit
1 x Console cable
1 x 3-pin terminal block for power port
1 x 10-pin terminal block for DIO port

* Specifications and certifications may vary based on different requirements.

Dimensions



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5 Embedded MicroBoxes

Axiomtek's MicroBoxes are perfect for industrial automation, medical, POS, gaming, digital signage and security market applications. With specific I/Os and pre-installed embedded operating systems, executing embedded solutions has become easier, and time to market reduced.

Selection Guide		232
AX60630	Embedded MicroBox for Low Power Mini-ITX SBC	233
AX60650	Embedded MicroBox for Mini-ITX SBC	234
ECM100	Embedded Chassis for Mini-ITX SBC	235
ECM300	Embedded Chassis with 2 Expansion Slots for Mini-ITX SBC	236

Embedded MicroBoxes

Selection Guide

Model	Accessory Specifications			Dimensions	Mini ITX
	Drive Bay	Expansion Slot	Power Supply		
 **AX60630**	1 x 2.5"	N/A	12V, 60W	259.5 x 186 x 58.5 mm	MANO300 MANO842
 **AX60650**	1 x 2.5"	N/A	PSU 150W	202 x 320 x 73 mm	MANO500 MANO881 MANO882 MANO873
 **ECM100**	2 x 2.5"	N/A	ATX 250W Input: AC 115 to 230V Output: +3.3V @ 10A, +5V @ 10A, +12V @ 8.5A, -12V @ 0.4A, +5VSB @ 1A, +5VSB @ 2.5A	265 x 250 x 71.5 mm	MANO500 MANO520
 **ECM300**	1 x 3.5" or 1 x 2.5"	2 x PCIe x8 or 1 x PCIe x16	ATX 250W Input: AC 115 to 230V Output: +3.3V @ 10A, +5V @ 10A, +12V @ 8.5A, -12V @ 0.4A, +5VSB @ 1A, +5VSB @ 2.5A	335 x 250 x 93.5 mm	MANO500 MANO520

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AX60630

Embedded MicroBox for Low Power Mini-ITX SBC

Features

- Designed for low power Mini-ITX SBC
- One 2.5" HDD supported
- Wall mount
- Slim design with 2 system fans



▲ Front view



▲ Rear view

Specifications

Standard Color	Black	
Construction	Heavy-duty cold-rolled steel	
Indicator	1 x Blue LED for system power-on	
Panel I/O	Front	N/A
	Rear	1 x Standard Mini-ITX I/O bracket space 1 x Power button 1 x COM (optional)
Expansion Interface	N/A	
Storage	1 x 2.5" HDD	
Cooling	2 x 40 x 40 mm system fan	
Power Input	12V, 60W	
Dimensions	202 mm (7.95") (D) x 320 mm (12.59") (W) x 73 mm (2.87") (H)	
Environment	EMI pre-scan meets EN55022 Class A	

Applications

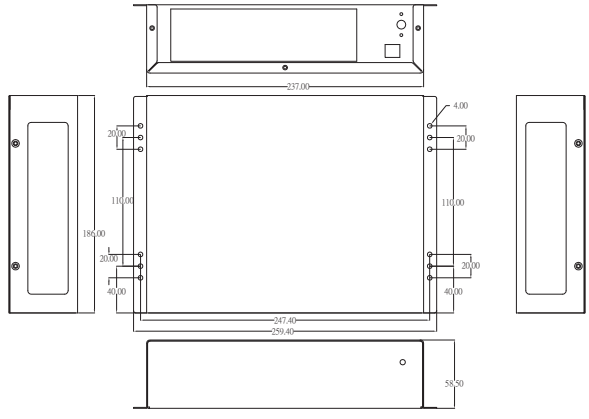
Embedded PC controller
Compact industrial PC
POS
Digital Signage

Ordering Information

Standard	
AX60630	Embedded MicroBox for low power Mini-ITX SBC

SBC Options
MANO842/MANO300

Dimensions



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AX60650

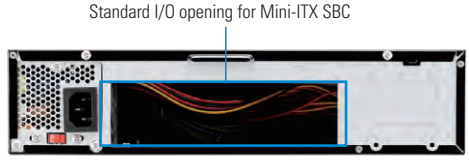
Embedded MicroBox for Mini-ITX SBC

Features

- Designed for Mini-ITX SBC
- One 2.5" HDD supported
- 3 COM supported (optional)
- Cost-effective design



▲ Front view



▲ Rear view

Specifications

Standard Color	Black	
Construction	Heavy-duty cold-rolled steel	
Indicator	1 x HDD activity 1 x Power status	
Panel I/O	Front	1 x Power button 2 x USB 2.0, 1 x Line-out, 1 x Mic-in (by BOM)
	Rear	1 x Standard Mini-ITX I/O bracket space 3 x COM (optional)
Expansion Interface	N/A	
Storage	1 x 2.5" HDD	
Cooling	N/A	
Power Input	150W PSU	
Dimensions	202 mm (7.95") (D) x 320 mm (12.59") (W) x 73 mm (2.87") (H)	
Environment	EMI pre-scan meets EN 55022 Class A	

Applications

Embedded PC controller
Compact industrial PC
POS
Digital signage

Packing List

1 x AC power cord

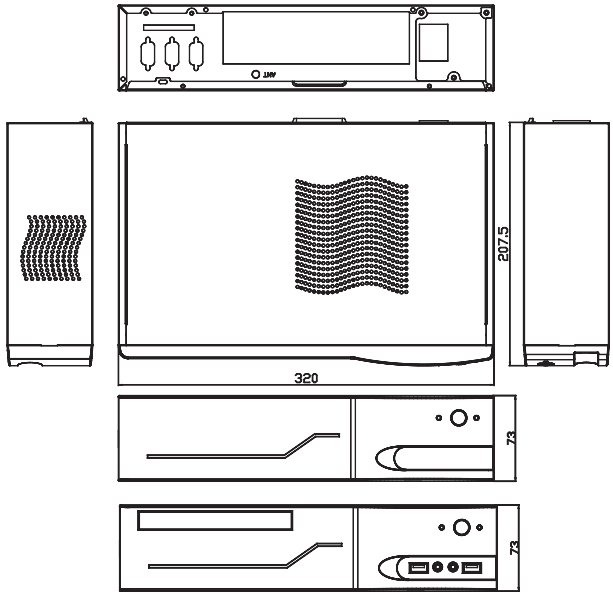
Ordering Information

Standard	
E260650100	AX60650 embedded MicroBox for Mini-ITX SBC
E260650101	AX60650 with front 2 x USB audio connector

SBC Options

MANO500/MANO881/MANO882/MANO873

Dimensions



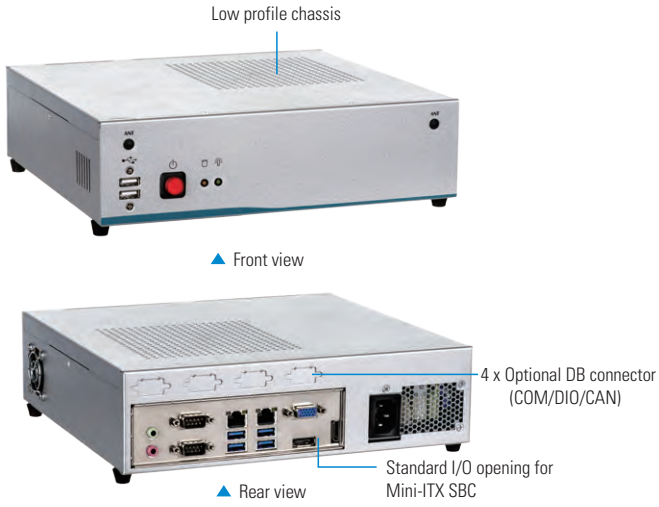
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ECM100

Embedded Chassis for Mini-ITX SBC

Features

- Designed for Mini-ITX SBC
- Two 2.5" HDD drive bays
- Optional 250W AC-in power supply
- Wall mount kit supported
- Slim design with 1 system fan
- Easy and quick customization



Specifications

Standard Color	Silver	
Construction	Heavy-duty cold-rolled steel	
Indicator	1 x Green LED for system power-on 1 x Orange LED for HDD active	
Panel I/O	Front	1 x ATX power button 2 x USB 2.0 2 x SMA type connector opening for Antenna
	Rear	1 x Standard Mini-ITX I/O bracket space 4 x Optional DB connector (COM/DIO/CAN)
Expansion Interface	N/A	
Storage	2 x 2.5" HDD (9.5 mm height)	
Cooling	40 x 40 mm system fan	
Power Input	ATX 250W Input: AC 115 to 230V Output: +3.3V @ 10A, +5V @ 10A, +12V @ 8.5A, -12V @ 0.4A, +5VSB @ 1A	
Dimensions	265 mm (10.43") (W) x 250 mm (9.84") (D) x 71.5 mm (2.81")	
Environment	EMI pre-scan meets EN 55022 Class A	

Applications

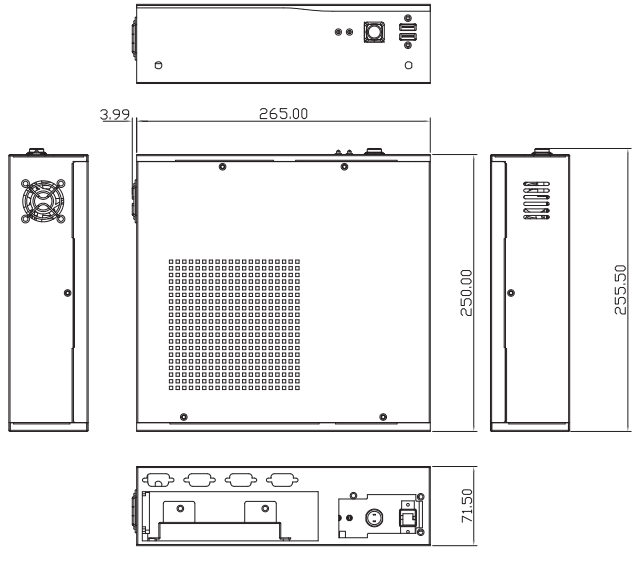
Factory automation
Embedded controller
Machine vision system
IIoT gateway
Compact industrial PC

Ordering Information

Standard	
ECM100	Embedded chassis for Mini-ITX SBC
SBC Options	
MANO500-H110 (P/N: E38M500100)	
MANO500-Q170 (P/N: E38M500106)	
MANO520-H310 (P/N: E38M520100)	
Optional	
881721000A0E	Wall mount kit
50916624000E	250W AC power supply
82723001030E	250W fan bracket kit
594K6402110E	RS-232 cable
Power Cord	

*Specifications and certifications may vary according to various options.

Dimensions



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ECM300

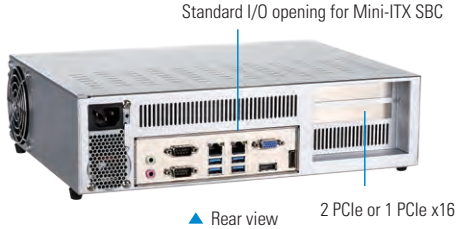
Embedded Chassis with Expansion Slots for Mini-ITX SBC

Features

- Designed for Mini-ITX SBC with expansion slots
- One 3.5" or 2.5" HDD drive bay
- 2 PCIe or 1 PCIe x16 slots supported
- Slim design with 1 system fan
- 250W power supply supported
- Easy and quick customization



▲ Front view



▲ Rear view

Specifications

Standard Color	Silver	
Construction	Heavy-duty cold-rolled steel	
Indicator	1 x Green LED for system power-on 1 x Orange LED for HDD active	
Panel I/O	Front	1 x ATX power button with cover 2 x USB 2.0 antenna
	Rear	1 x Standard Mini-ITX I/O bracket space
Expansion Interface	1 x PCIe x16 or 2 x PCIe x8	
Storage	1 x 3.5" HDD or 1 x 2.5" HDD (9.5 mm height)	
Cooling	80 x 80 mm system fan	
Power Input	ATX 250W Input: AC 115 to 230V Output: +3.3V @ 10A, +5V @ 10A, +12V @ 8.5A, -12V @ 0.4A, +5VSB @ 1A	
Dimensions	335 mm (13.2") (W) x 250 mm (9.8") (D) x 93.5 mm (3.68") (H)	
Environment	EMI pre-scan meets EN 55022 Class A	

Applications

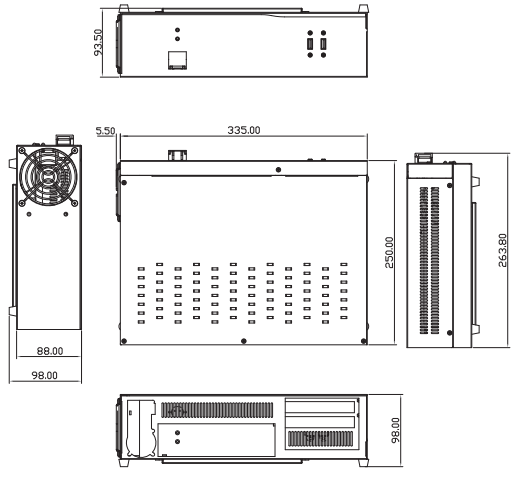
Factory automation
Embedded controller
Machine vision system
Compact industrial PC

Ordering Information

Standard	
ECM300	Embedded chassis with expansion slots for Mini-ITX SBC
SBC Options	
MANO520-H310 (P/N: E38M520100)	Supports 1 x PCIe x16
MANO500-Q170 (P/N: E38M500106)	Supports 1 x PCIe x16 or 2 x PCIe x8
MANO500-H110 (P/N: E38M500100)	Supports 1 x PCIe x16
Optional	
AX96723 (P/N: 5A009672300E)	1 x PCIe x16 riser card
AX96147 (P/N: 83961471000E)	2 x PCIe x8 riser card
881723000A0E	Wall mount kit
50916624000E	250W AC power supply
82723001030E	250W fan bracket kit
Power cord	

*Specifications and certifications may vary according to various options.

Dimensions



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6 Industrial Systems

Axiomtek has a full range of fanless, intelligent platform that are suitable for different environments and applications. These industrial PCs offer powerful computing performance, scalability, high storage capacity, reliability, and solid design. Axiomtek IPC products are in compliance with the relevant EU legislation (CE Marking). They offer popular interfaces and rich I/O options.

	Selection Guide		238
	IPC962-511-FL	2-slot Fanless Industrial System with LGA1151 Socket 7th/6th Gen Intel® Core™ i7/i5/i3 & Celeron® Processor, Intel® H110, Front-access I/O, PCIe and PCI Slots	241
	IPC962-512-FL	2-slot Fanless Industrial System with LGA1151 Socket 7th/6th Gen Intel® Core™ i7/i5/i3 & Celeron® Processor, Intel® Q170, Front-access I/O, PCIe and PCI Slots	243
	IPC964-512-FL	4-slot Fanless Industrial System with LGA1151 Socket 7th/6th Gen Intel® Core™ i7/i5/i3 & Celeron® Processor, Intel® Q170, Front-access I/O, PCIe and PCI Slots	245
NEW	IPC974-519-FL	4-slot Industrial System with LGA1151 Socket Intel® Xeon® E3 v5, 7th/6th Gen Intel® Core™ i7/i5/i3 & Celeron® Processor, Intel® C236/Q170, Front-access I/O, PCIe and PCI Slots	247
	IPC922-215-FL	2-slot Fanless Industrial System with Intel® Celeron® Processor J1900, Front-access I/O, PCIe and PCI Slots	249
	IPC932-230-FL	2-slot Fanless Industrial System with 4th Gen Intel® Core™ i7/i5/i3 & Celeron® Processor, Intel® Q87, Front-access I/O, PCIe and PCI Slots	251

Systems and Platforms

Industrial Systems

Selection Guide







Features\Models	IPC962-511-FL	IPC962-512-FL	IPC964-512-FL
CPU Level	7th/6th gen Intel® Core™ i7/i5/i3 & Celeron®, up to 65W	7th/6th gen Intel® Core™ i7/i5/i3 & Celeron®, up to 65W (Kaby Lake/Skylake)	7th/6th gen Intel® Core™ i7/i5/i3 & Celeron®, up to 65W
System Memory	2 x DDR4-2133/2400 un-buffered SO-DIMM, up to 32GB	2 x DDR4-2133/2400 un-buffered SO-DIMM, up to 32GB	2 x DDR4-2133 un-buffered SO-DIMM, up to 32GB
Chipset	Intel® H110	Intel® Q170	Intel® Q170
Vision I/O	N/A	N/A	N/A
Expansion I/O Module	4 x RS-232/422/485 module (default RS-232) or 2 x RS-232/422/485 with isolated 1.5kVDC module and 8-in/8-out isolated DIO or 4 x RS-232/422/485 isolated 2kVDC module (default RS-232)	4 x RS-232/422/485 (default RS-232) or 2 x RS-232/422/485 with isolated 1.5kVDC module and 8-in/8-out isolated DIO or 4 x RS-232/422/485 isloated 2kVDC module (default RS-232) or 1 x 10/100/1000 Mbps Ethernet, 2 x RS-232/422/485 and 2 x USB 3.0 module	4 x RS-232/422/485 module (default RS-232) or 2 x RS-232/422/485 with isolated 1.5kVDC module and 4-in/4-out isolated DIO or 4 x RS-232/422/485 isloated 2kVDC module (default RS-232) or 1 x 10/100/1000 Mbps Ethernet, 2 x RS-232/422/485 and 2 x USB 3.0 module
Display	1 x HDMI 1 x VGA	1 x HDMI 1 x VGA	1 x HDMI 1 x VGA
Audio	Yes	Yes	Yes
PS/2	N/A	N/A	N/A
Ethernet	2 x 10/100/1000 Mbps Ethernet	2 x 10/100/1000 Mbps Ethernet	2 x 10/100/1000 Mbps Ethernet
USB	4 x USB 3.0	4 x USB 3.0	4 x USB 3.0
Expansion Interface	1 PCIe x16 + 1 PCIe x4 or 1 PCIe x16 + 1 PCI or 2 PCI 1 PCI Express Mini Card slot (USB 2.0 interface)	1 PCIe x16 + 1 PCIe x4 or 1 PCIe x16 + 1 PCI or 2 PCI 1 PCI Express Mini Card slot (PCIe and USB 2.0 interface)	1 PCIe x16 + 3 PCIe x4 or 1 PCIe x16 + 1 PCIe x4 + 2 PCI 1 PCI Express Mini Card slot (PCIe and USB 2.0 interface)
Storage	2 x 2.5" swappable HDD	2 x 2.5" swappable HDD	2 x 2.5" swappable HDD
Watchdog Timer	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.
Power Input	24 VDC (uMin=19V/uMax=30V)	24 VDC (uMin=19V/uMax=30V)	24 VDC (uMin=19V/uMax=30V)
Operating Temperature	-10°C to +60°C (+14°F to +140°F) with 6th CPU -10°C to +50°C (+14°F to +122°F) with 7th CPU	-10°C to +60°C (+14°F to +140°F) with 6th CPU -10°C to +50°C (+14°F to +122°F) with 7th CPU	-10°C to +60°C (+14°F to +140°F) with 6th CPU -10°C to +50°C (+14°F to +122°F) with 7th CPU
Wall Mount	Yes	Yes	Yes
Dimensions (W x D x H)	147.5 x 192 x 230 mm (5.80" x 7.54" x 9.04")	147.5 x 192 x 230 mm (5.80" x 7.54" x 9.04")	188.1 x 192 x 230 mm (7.39" x 7.54 x 9.04")
Weight (net/gross)	4.382 kg (9.66 lb)/5.346 kg (11.80 lb)	4.382 kg (9.66 lb)/5.346 kg (11.80 lb)	4.8 Kg (10.56 lb)/5.9 Kg (12.98 lb)
Certifications	CE/FCC	CE/FCC	CE/FCC
EOS Support	6th gen platform: Win 7 32/64-bit & Win 10 64-bit 7th gen platform: Win 10 64-bit	6th gen platform: Win 7 32/64-bit & Win 10 64-bit 7th gen platform: Win 10 64-bit	6th gen platform: Win 7 32/64-bit & Win 10 64-bit 7th gen platform: Win 10 64-bit

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Features\Models	IPC922-215-FL	IPC932-230-FL
CPU Level	Intel® Celeron® J1900	4th gen Intel® Core™ i7/i5/i3 & Celeron®
System Memory	1 x 204-pin DDR3L-1333 SO-DIMM, up to 8GB	2 x 204-pin DDR3-1333/1600 SO-DIMM, up to 16GB
Chipset	SoC integrated	Intel® Q87
Serial	RS-232/422/485	2 x RS-232/422/485 2 x RS-232
Display	1 x VGA	1 x DVI-I
Audio	N/A	Yes
PS/2	N/A	Yes
Ethernet	2 x 10/100/1000 Mbps Ethernet	2 x 10/100/1000 Mbps Ethernet
USB	4 x USB 2.0	4 x USB 2.0 2 x USB 3.0
Expansion Interface	2 PCI or 1 PCI & 1 PCIe x4	1 PCIe x1 & 1 PCIe x4 or 1 PCI & 1 PCIe x4
Storage	1 x 2.5" HDD 1 x CFast™	2 x 2.5" HDD 1 x CFast™
Watchdog Timer	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.
Power Supply	120W ATX 18 to 28 VDC	150W ATX 10 to 30 VDC
Operating Temperature	-10°C to +50°C (+14°F to +122°F) (with W.T. HDD)	-10°C to +55°C (+14°F to +140°F) (with W.T. SSD or CFast)
Wall Mount	Yes	Yes
Dimensions (W x D x H)	118 x 248 x 185 mm (4.6" x 9.8" x 7.3")	164 x 245.6 x 185 mm (6.45" x 9.65" x 7.27")
Weight (net/gross)	4.22 kg (9.28 lb)/5.3 kg (11.68 lb)	6.2 kg (13.67 lb)/7.2 kg (15.87 lb)
Certifications	CE	CE
EOS Support	WES7	WES7

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Industrial Systems

Selection Guide



Features\Models	IPC974-519-FL
CPU Level	7th/6th gen Intel® Xeon® E3 V5, Core™ i7/i5/i3 & Celeron® processor, up to 80W
System Memory	2 x DDR4-2133/2400 ECC/non-ECC SO-DIMM, up to 32GB
Chipset	Intel® C236/Q170
Extension Window	Blank cover (default) Wi-Fi & antenna kit 1 x Internal USB dongle kit AX92902+AX93287: 10/100/1000 Mpbs Ethernet module (Intel® i210-AT) AX92906: 2 x RS-232 module AX92906+AX93136: 1 x RS- 232/422/485 with isolated 1.5kVDC module (default RS-232) AX92903: CANBus module AX92904+AX938615: 4-in/4-out DIO with isolated 1.5kVDC module AX92909: 2 x USB3.0
Extension System IO Module	AX93511: 4 x RS-232/422/485 module (default RS-232) AX93512: 2 x RS-232/422/485 with isolated 1.5kVDC & 8-in/8-out with isolated 1.5kVDC DIO module AX93516: 4 x RS-232/422/485 with isolated 2kVDC module AX93519: 1 x 10/100/1000 Mbps (Intel® i211-AT) Ethernet, 2 x RS-232/422/485, and 2 x USB 3.0 module
Display	1 x HDMI 1 x VGA
Audio	Yes
Ethernet	2 x 10/100/1000 Mbps Ethernet
USB	4 x USB 3.0 2 x USB 2.0
Expansion Interface	1 PCIe x16 + 3 x PCIe x4 1 PCIe x16 + 1 x PCIe x4 + 2 x PCI 1 Full-size PCI Express Mini Card slot with SIM slot for Extension Window (USB & PCIe interface)
Storage	4 x 2.5" swappable HDD
Watchdog Timer	255 levels, 1 to 255 sec.
Power Input	24 VDC (uMin=19V/uMax=30V)
Operating Temperature	-10°C to +70°C (+14°F to +149°F) with 6th gen Intel® Core™, up to 35W and W.T. HDD/SSD -10°C to +60°C (+14°F to +122°F) with 6th/7th gen Intel® Core™ i5, up to 65W and W.T. HDD/SSD -10°C to +50°C (+14°F to +122°F) with 6th/7th gen Intel® Core™, up to 80W and W.T. HDD/SSD
Wall Mount	Yes
Dimensions (W x D x H)	188.14 x 192 x 317 mm (7.40" x 7.54 x 12.46")
Weight (net/gross)	5.9 kg (13 lb)/7.3 kg (16.09 lb)
Certifications	CE
EOS Support	6th gen platform: Win 7 32/64-bit & Win 10 64-bit 7th gen platform: Win 10 64-bit

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IPC962-511-FL

2-slot Fanless Industrial System with LGA1151 Socket 7th/6th Gen Intel® Core™ i7/i5/i3 & Celeron® Processor, Intel® H110, Front-access I/O, PCIe and PCI Slots

Features

- LGA1151 socket 7th/6th gen Intel® Core™ i7/i5/i3 & Celeron® processor, up to 65W (codename: Kaby Lake/Skylake)*
- Intel® H110 chipset
- Supports 2 expansion slots
- Power input: 24 VDC (uMin=19V/uMax=30V)
- Compact & front I/O design
- -10°C to +60°C operating temperature range
- Supports 2 swappable 2.5" HDD
- Supports ECM BIOS setting
- Supports WLAN module & antenna (optional)
- Supports TPM 2.0



▲ Rear view



1. 2 x Antenna opening
2. Remote switch
3. Mic-in & Line-out
4. 2 x LAN
5. VGA
6. Reset switch
7. Power switch
8. Terminal block
9. HDD & Power LEDs
10. 4 x USB 3.0
11. HDMI
12. AT/ATX quick switch
13. Extension System I/O Module
    (1) AX93511: 4 x RS-232/422/485 module (default RS-232)
    (2) AX93512: 2 x RS-232/422/485 with isolated 1.5kVDC & 8-in/8-out with isolated 1.5kVDC DIO module
    (3) AX93516: 4 x RS-232/422/485 with isolated 2kVDC module
    (4) Blank I/O cover
14. Expansion Interface
    (1) AX96205: 1 PCIe x16 + 1 PCIe x4
    (2) AX96206: 1 PCIe x16 + 1 PCI
    (3) AX96207: 2 PCI



Specifications

Standard Color	Silver	
Construction	Aluminum extrusion heavy-duty cold-rolled steel, IP40 (w/o fan module)	
Processor System	CPU Level	7th/6th gen Intel® Core™ i7/i5/i3 & Celeron® processor, up to 65W (Kaby Lake/Skylake)*
	Chipset	Intel® H110
System Memory	2 x DDR4-2133/2400 un-buffered SO-DIMM, up to 32GB	
System I/O	1 x Switch for power on/off (ATX) 1 x Remote switch 1 x Reset switch 1 x 3-pin terminal block 1 x AT/ATX selectable switch 2 x 10/100/1000 Mbps Ethernet (Intel® i211-AT) 4 x USB 3.0 1 x HDMI 1 x VGA 1 x Audio (Mic-in/Line-out)	
Extension System IO Module	AX93511: 4 x RS-232/422/485 module (default RS-232) AX93512: 2 x RS-232/422/485 with isolated 1.5kVDC & 8-in/8-out with isolated 1.5kVDC DIO module AX93516: 4 x RS-232/422/485 with isolated 2kVDC module	
TPM	TPM 2.0	

Expansion Interface	AX96205: 1 PCIe x16 + 1 PCIe x4 AX96206: 1 PCIe x16 + 1 PCI AX96207: 2 PCI 1 x Full-size PCI Express Mini Card slot with USB interface
Storage	2 x 2.5" swappable HDD (15 mm height)
System Indicators	1 x Power LED 1 x HDD LED
Power Input	Type: ATX/AT Input: 24 VDC (uMin=19V/uMax=30V)
Operating Temperature	-10°C to +60°C (+14°F to +140°F) with 6th gen Intel® Core™ up to 35W and W.T. HDD/SSD* -10°C to +50°C (+14°F to +122°F) with 6th/7th gen Intel® Core™ up to 65W and W.T. HDD/SSD*
Storage Temperature	-20°C to +80°C (-4°F to +176°F)
Humidity	10% to 90%, non-condensing
Dimensions	147.5 mm (5.80") (W) x 192 mm (7.54") (H) x 230 mm (9.04") (D)
Weight (net/gross)	4.382 kg (9.66 lb)/5.346 kg (11.80 lb)
Certifications	CE, FCC
Software Support	AMS.AXView

* CPU support list please refer to the user's manual.

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Ordering Information

System	
IPC962-511-DC-FL (P/N: E26G962100)	2-slot fanless industrial system with LGA1151 socket 7th/6th gen Intel® Core™ i7/i5/i3 & Celeron® processor, Intel® H110 chipset, and front-access I/O

Extension System I/O Module & Expansion Interface	
AX93511 (P/N: 8816G962020E)	4 x RS-232/422/485 module (default RS-232)
AX93512 (P/N: 8816G962060E)	2 x RS-232/422/485 with isolated 1.5kVDC & 8-in/8-out with isolated 1.5kVDC DIO module
AX93516 (P/N: 8816G962030E)	4 x RS-232/422/485 with isolated 2kVDC module
726G9620610E	Blank I/O cover
AX96205 (P/N: 83962051000E)	1 x PCIe x16 + 1 PCIe x4 expansion kit
AX96206 (P/N: 83962061000E)	1 x PCIe x16 + 1 PCI expansion kit
AX96207 (P/N: 83962071000E)	2 x PCI expansion kit

Optional Accessory	
2.5" SATA HDD/SSD	
DDR4-2133/2400 un-buffered SO-DIMM, up to 32GB	
826G9620010E / 8816G9620A0E	IPC962-511-FL fan module kit
826G9620020E / 8816G9621A0E	Wall mount bracket kit
50906D24000E	Adaptor 24V/120W, wire only
AX92320 (P/N: E392320100)	4-port PCI Express GbE PoE communication card
AX92351 (P/N: E392351100)	32-in/32-out isolated 1.5kV DIO module

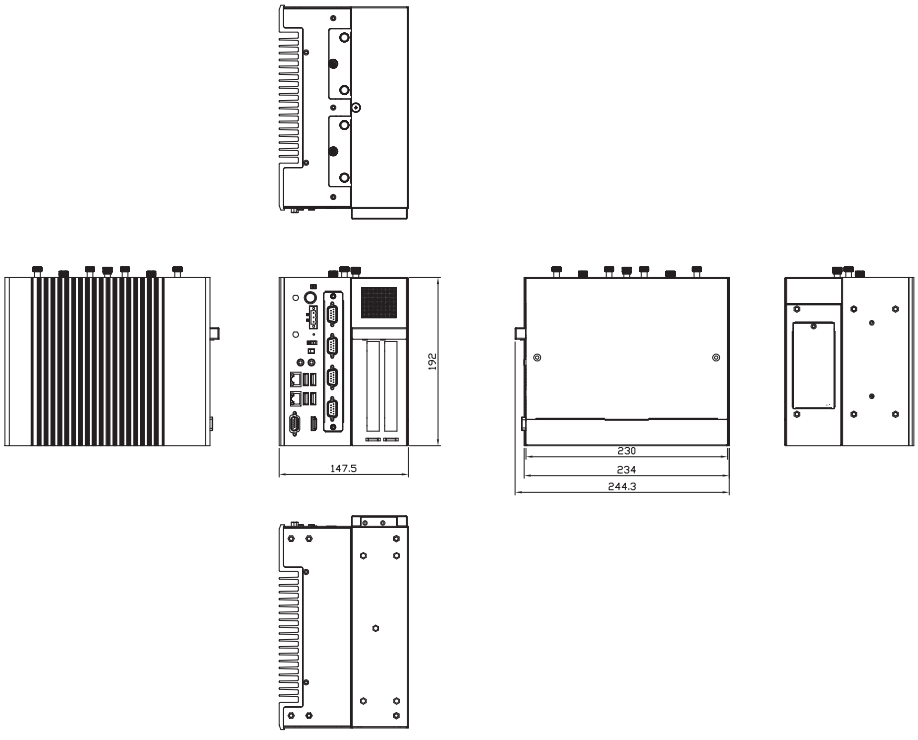
Power Protection

DC Version
OVP (over voltage protection)
SCP (short circuit protection)
OCP (over current protection)

Packing List

1 x IPC962-511-FL unit
1 x Screw pack
4 x Foot pad
1 x CPU grease
1 x Terminal block
1 x Remote power switch cable
1 x Holder bracket

Dimensions



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IPC962-512-FL

2-slot Fanless Industrial System with LGA1151 Socket 7th/6th Gen Intel® Core™ i7/i5/i3 & Celeron® Processor, Intel® Q170, Front-access I/O, PCIe and PCI Slots

Features

- LGA1151 Socket 7th/6th gen Intel® Core™ i7/i5/i3 & Celeron® processor, up to 65W (codename: Kaby Lake/Skylake)*
- Intel® Q170 chipset
- Supports 2 expansion slots
- Power input: 24 VDC (uMin=19V/uMax=30V)
- Compact & front I/O design
- -10°C to +60°C operating temperature range
- Supports ECM BIOS setting
- Supports 2 swappable 2.5" HDD & RAID 0,1
- Supports WLAN module & antenna (optional)
- Supports TPM 2.0



▲ Rear view





1. 2 x Antenna opening
2. Remote switch
3. Mic-in & Line-out
4. 2 x LAN
5. VGA
6. Reset switch
7. Power switch
8. Terminal block
9. HDD & Power LEDs
10. 4 x USB 3.0
11. HDMI
12. AT/ATX quick switch
13. Extension System I/O Module
    (1) AX93511: 4 x RS-232/422/485 module (default RS-232)
    (2) AX93512: 2 x RS-232/422/485 with isolated 1.5kVDC & 8-in/8-out with isolated 1.5kVDC DIO module
    (3) AX93516: 4 x RS-232/422/485 with isolated 2kVDC module
    (4) AX93519: 1 x 10/100/1000 Mbps (Intel® i211-AT) Ethernet, 2 x RS-232/422/485 & 2 x USB 3.0 module
    (5) Blank I/O cover
14. Expansion Interface
    (1) AX96205: 1 PCIe x16 + 1 PCIe x4
    (2) AX96206: 1 PCIe x16 + 1 PCI
    (3) AX96207: 2 PCI

Specifications

Standard Color	Silver	
Construction	Aluminum extrusion heavy-duty cold-rolled steel, IP40 (w/o fan module)	
Processor System	CPU Level	7th/6th gen Intel® Core™ i7/i5/i3 & Celeron® processor, up to 65W (Kaby Lake/Skylake)*
	Chipset	Intel® Q170
System Memory	2 x DDR4-2133/2400 un-buffered SO-DIMM, up to 32GB	
System I/O	1 x Switch for power on/off (ATX) 1 x Remote switch 1 x Reset switch 1 x 3-pin terminal block 1 x AT/ATX selectable switch 2 x 10/100/1000 Mbps Ethernet (Intel® i211-AT) 4 x USB 3.0 1 x HDMI 1 x VGA 1 x Audio (Mic-in/Line-out)	
Extension System I/O Module	AX93511: 4 x RS-232/422/485 module (default RS-232) AX93512: 2 x RS-232/422/485 with isolated 1.5kVDC & 8-in/8-out with isolated 1.5kVDC DIO module AX93516: 4 x RS-232/422/485 with isolated 2kVDC module AX93519: 1 x 10/100/1000 Mbps (Intel® i211-AT) Ethernet, 2 x RS-232/422/485 & 2 x USB 3.0 module Blank I/O cover	
TPM	TPM 2.0	

Expansion Interface	AX96205: 1 PCIe x16 + 1 PCIe x4 AX96206: 1 PCIe x16 + 1 PCI AX96207: 2 PCI 1 x Full-size PCI Express Mini Card slot with SIM slot (USB & PCIe interface)
Storage	2 x 2.5" swappable HDD (15mm height)
System Indicators	1 x Power LED 1 x HDD LED
Power Input	Type: ATX/AT Input: 24 VDC (uMin=19V/uMax=30V)
Operating Temperature	-10°C to +60°C (+14°F to +140°F) with 6th gen Intel® Core™ up to 35W and W.T. HDD/SSD* -10°C to +50°C (+14°F to +122°F) with 6th/7th gen Intel® Core™ up to 65W and W.T. HDD/SSD*
Storage Temperature	-20°C to +80°C (-4°F to +176°F)
Humidity	10% to 90%, non-condensing
Dimensions	147.5 mm (5.80") (W) x 192 mm (7.54") (H) x 230 mm (9.04") (D)
Weight (net/gross)	4.382 kg (9.66 lb)/5.346 kg (11.80 lb)
Certifications	CE, FCC
Software Support	AMS.AXView

* CPU support list please refer to the user's manual.

* All specifications and photos are subject to change without notice. www.axiomtek.com

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Ordering Information

System	
IPC962-512-DC-FL (P/N: E26G962101)	2-slot fanless industrial system with 7th/6th gen Intel® Core™ i7/i5/i3 processor and Intel® Q170, and front-access I/O

Extension System I/O Module & Expansion Interface	
AX93511 (P/N: 8816G962020E)	4 x RS-232/422/485 I/O module (default RS-232)
AX93512 (P/N: 8816G962060E)	2 x RS-232/422/485 with isolated 1.5kVDC & 8-in/8-out with isolated 1.5kVDC DIO module
AX93516 (P/N: 8816G962030E)	4 x RS-232/422/485 with isolated 2kVDC module
AX93519	1 x 10/100/1000 Mbps (Intel® i211-AT) Ethernet, 2 x RS-232/422/485 and 2 x USB 3.0 module
726G9620610E	Blank I/O cover
AX96205 (P/N: 83962051000E)	1 x PCIe x16 + 1 x PCIe x4 expansion kit
AX96206 (P/N: 83962061000E)	1 x PCIe x16 + 1 x PCI expansion kit
AX96207 (P/N: 83962071000E)	2 x PCI expansion kit

Optional Accessory	
2.5" SATA HDD/SSD	
DDR4-2133/2400 un-buffered SO-DIMM, up to 32GB	
8816G9620A0E	IPC962-512-FL fan module kit
8816G9621A0E	Wall mount bracket kit
50906D24000E	Adaptor 24V/120W, wire only
AX92320 (P/N: E392320100)	4-port PCI Express GbE PoE communication card
AX92351-32CH-64CH (P/N: E392351100)	32-in/32-out isolated 1.5kV DIO module

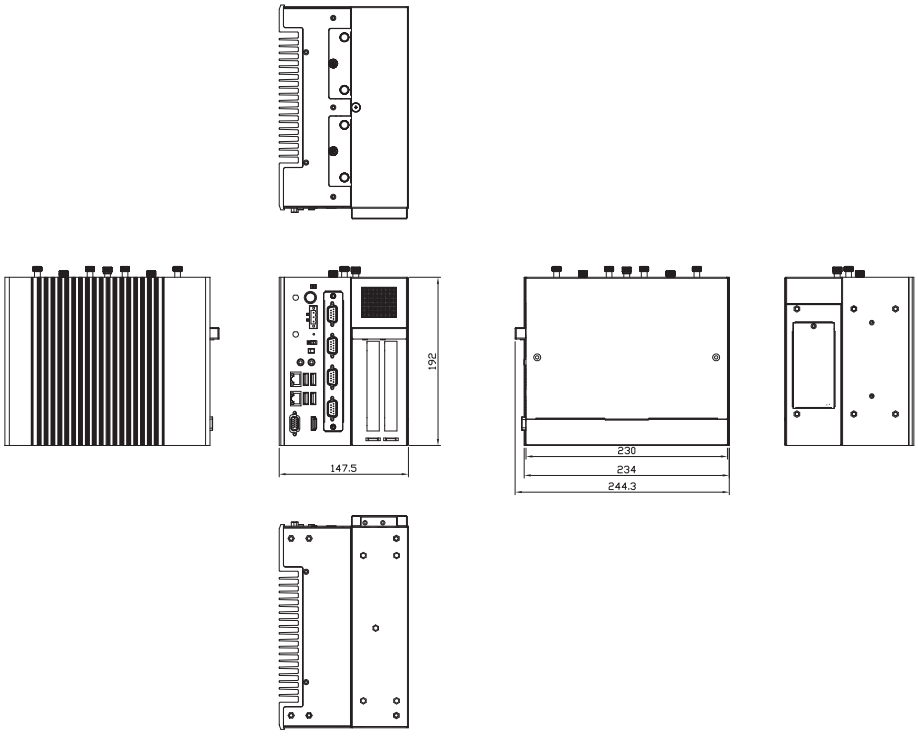
Power Protection

DC Version
OVP (over voltage protection)
SCP (short circuit protection)
OCP (over current protection)

Packing List

1 x IPC962-512-FL unit
1 x Screw pack
4 x Foot pad
1 x CPU grease
1 x Terminal block
1 x Remote power switch cable
1 x Holder bracket

Dimensions



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IPC964-512-FL

4-slot Fanless Industrial System with LGA1151 Socket 7th/6th Gen Intel® Core™ i7/i5/i3 & Celeron® Processor, Intel® Q170, Front-access I/O, PCIe and PCI Slots

Features

- LGA1151 Socket 7th/6th gen Intel® Core™ i7/i5/i3 & Celeron® processor, up to 65W (codename: Kaby Lake/Skylake)*
- Intel® Q170 chipset
- Supports 4 expansion slots
- Power input: 24 VCD (uMin=19V/uMax=30V)
- Compact & front I/O design
- -10°C to +60°C operating temperature range
- Supports 2 swappable 2.5" HDD & RAID 0,1
- Supports ECM BIOS setting
- Supports WLAN module & antenna (optional)
- Supports TPM 2.0



▲ Rear view



1. 2 x Antenna opening
2. Remote switch
3. Mic-in & Line-out
4. 2 x LAN
5. VGA
6. Reset switch
7. Power switch
8. Terminal block
9. HDD & Power LED
10. 4 x USB 3.0
11. HDMI
12. AT/ATX quick switch
13. Extension System I/O Module
    (1) AX93511: 4 x RS-232/422/485 module (default RS-232)
    (2) AX93512: 2 x RS-232/422/485 with isolated 1.5kVDC & 8-in/8-out with isolated 1.5kVDC DIO module
    (3) AX93516: 4 x RS-232/422/485 with isolated 2kVDC module
    (4) AX93519: 1 x 10/100/1000 Mbps (Intel® i211-AT) Ethernet, 2 x RS-232/422/485 & 2 x USB 3.0 module
    (5) Blank I/O cover
14. Expansion Interface
    (1) AX96410: 1 PCIe x16 + 3 PCIe x4
    (2) AX96411: 1 PCIe x16 + 1 PCIe x4 + 2 PCI



Specifications

Standard Color	Silver	
Construction	Aluminum extrusion heavy-duty cold-rolled steel, IP40	
Processor System	CPU Level	7th/6th gen Intel® Core™ i7/i5/i3 & Celeron® processor up to 65W (Kaby Lake/Skylake)*
	Chipset	Intel® Q170
System Memory	2 x DDR4-2133/2400 un-buffered SO-DIMM, up to 32GB	
System I/O	1 x Switch for power On/Off (ATX) 1 x Remote switch 1 x Reset switch 1 x 3-pin terminal block 1 x AT/ATX selectable switch 2 x 10/100/1000 Mbps Ethernet (Intel® i211-AT) 4 x USB 3.0 1 x HDMI 1 x VGA 1 x Audio (Mic-in/Line-out)	
Extension System IO Module	AX93511: 4 x RS-232/422/485 module (default RS-232) AX93512: 2 x RS-232/422/485 with isolated 1.5kVDC & 8-in/8-out with isolated 1.5kVDC DIO module AX93516: 4 x RS-232/422/485 with isolated 2kVDC module AX93519: 1 x 10/100/1000 Mbps (Intel® i211-AT) Ethernet, 2 x RS-232/422/485 and 2 x USB 3.0 module Blank I/O cover	
TPM	TPM 2.0	

Expansion Interface	AX96410: 1 PCIe x16 + 3 PCIe x4 AX96411: 1 PCIe x16 + 1 PCIe x4 + 2 PCI 1 x Full-size PCI Express Mini Card slot with SIM slot (USB & PCIe interface)
Storage	2 x 2.5" swappable HDD (15mm height)
System Indicators	1 x Power LED 1 x HDD LED
Power Input	Type: ATX/AT Input: 24 VDC (uMin=19V/uMax=30V)
Operating Temperature	-10°C to +60°C (+14°F to +140°F) with 6th gen Intel® Core™ up to 35W and W.T. HDD/SSD* -10°C to +50°C (+14°F to +122°F) with 6th/7th gen Intel® Core™ up to 65W and W.T. HDD/SSD*
Storage Temperature	-20°C to +80°C (-4°F to +176°F)
Humidity	10% to 90%, non-condensing
Dimensions	188.1 mm (7.39") (W) x 192 mm (7.54") (H) x 230 mm (9.04") (D)
Weight (net/gross)	4.8 Kg (10.56 lb) / 5.9 Kg (12.98 lb)
Certifications	CE, FCC
Software Support	AMS.AXView

* CPU support list please refer to the user's manual.

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Ordering Information

System	
IPC964-512-DC-FL (P/N: E26G964100)	4-slot fanless industrial system with 7th/6th gen Intel® Core™ i7/i5/i3 processor, Intel® Q170, and front-access I/O

Extension System I/O Module & Expansion Interface	
AX93511 (P/N: 8816G962020E)	4 x RS-232/422/485 module (default RS-232)
AX93512 (P/N: 8816G962060E)	2 x RS-232/422/485 with isolated 1.5kVDC & 8-in/8-out with isolated 1.5kVDC DIO module
AX93516 (P/N: 8816G962030E)	4 x RS-232/422/485 with isolated 2kVDC module
AX93519 (P/N:8816G964050E)	1 x 10/100/1000 Mbps (Intel® i211-AT) Ethernet, 2 x RS-232/422/485 & 2 x USB 3.0 module
726G9620610E	Blank I/O cover
AX96410 (P/N: 83964101000E)	1 x PCIe x16 + 3 PCIe x4
AX96411 (P/N: 83964111000E)	1 x PCIe x16 + 1 PCIe x4 + 2 PCI

Optional Accessory	
2.5" SATA HDD/SSD	
DDR4-2133/2400 un-buffered SO-DIMM, up to 32GB	
8816G9640A0E	IPC964-512-FL fan module kit
8816G9621A0E	Wall mount bracket kit
50906D24000E	Adaptor 24V/120W, wire only
AX92320 (P/N: E392320100)	4-port PCI Express GbE PoE communication card
AX92351 (P/N: E392351100)	32-in/32-out isolated 1.5kV DIO module

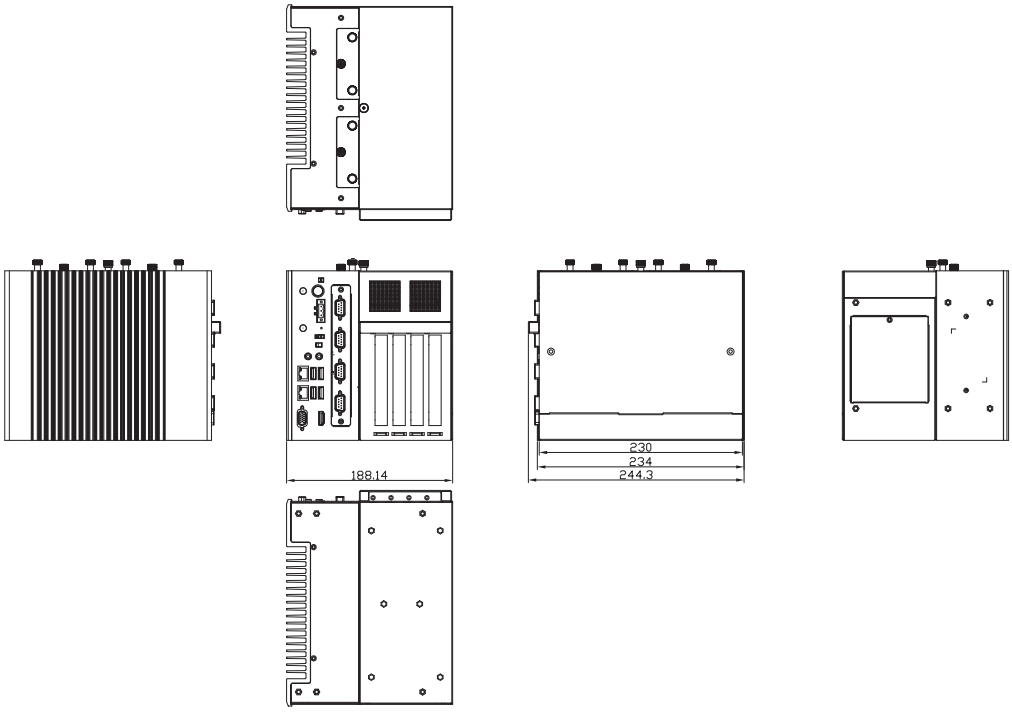
Power Protection

DC Version
OVP (over voltage protection)
SCP (short circuit protection)
OCP (over current protection)

Packing List

1 x IPC964-512-FL unit
1 x Screw pack
4 x Foot pad
1 x CPU grease
1 x Terminal block
1 x Remote power switch cable
1 x Holder bracket

Dimensions



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IPC974-519-FL NEW

4-slot Industrial System with LGA1151 Socket Intel® Xeon® E3 v5, 7th/6th Gen Intel® Core™ i7/i5/i3 & Celeron® Processor, Intel® C236, Front-access I/O, PCIe and PCI Slots

Features

- LGA1151 socket Intel® Xeon® E3 v5, 7th/6th gen Intel® Core™ i7/i5/i3 & Celeron® processor, up to 80W (codename: Kaby Lake/ Skylake)
- Intel® C236 chipset
- Supports 4 expansion slots for full-size add-in cards
- Supports system power on delay function
- -10°C to +70°C operating temperature range
- Supports ECM BIOS setting
- Supports Intel® RAID 0,1,5
- Supports NVIDIA® GPU (up to 300W TDP)
- Supports TPM 2.0
- Supports Intel® AMT 11.0



▲ Rear view





1. Extension Window
(1) Blank cover (default)
(2) 1 x Wi-Fi kit and/or 1 x USB dongle kit
(3) AX92902+AX93287: 1 x 10/100/1000 Mbps Ethernet module (Intel® i210-AT)
(4) AX92903: CANBus module
(5) AX92904+AX98615: 4-in/4-out DIO with isolated 1.5kVDC module
(6) AX92905: audio kit (Mic-in/Line-in/ Line-out)
(7) AX92906: 1 x RS-232 module
(8) AX92906+AX93136: 1 x RS-232/422/485 with isolated 1.5kVDC module (default RS-232)
(9) AX92909: 2 x USB 3.0 module

2. Extension System I/O Module
(1) AX93511: 4 x RS-232/422/485 module (default RS-232)
(2) AX93512: 2 x RS-232/422/485 with isolated 1.5kVDC & 8-in/8-out with isolated 1.5kVDC DIO module
(3) AX93516: 4 x RS-232/422/485 with isolated 2kVDC module
(4) AX93519: 1 x 10/100/1000 Mbps (Intel® i211-AT) Ethernet, 2 x RS-232/422/485, and 2 x USB 3.0 module
(5) Blank I/O cover

3. Expansion Interface
(1) AX96410: 1 PCIe x16 + 3 PCIe x4
(2) AX96411: 1 PCIe x16 + 1 PCIe x4 + 2 PCI

4. 2 x Antenna opening
5. 2 x USB 2.0
6. 2 x LAN
7. 1 x VGA
8. 4 x USB 3.0
9. 1 x HDMI
10. 1 x HDD access/power LED

Specifications

Standard Color	Sliver black	
Construction	Aluminum extrusion heavy-duty cold-rolled steel	
Processor System	CPU Level	Intel® Xeon® E3 v5, 7th/6th gen Intel® Core™ i7/ i5/i3 & Celeron® processor, up to 80W (Kaby Lake/ Skylake)*
	Chipset	Intel® C236
System Memory	2 x DDR4-2133/2400 ECC/non-ECC SO-DIMM, up to 32GB	
System I/O	1 x Switch for power On/Off (ATX) 1 x Remote switch 1 x Reset switch 1 x 4-pin terminal block 1 x AT/ATX selectable switch 2 x 10/100/1000 Mbps Ethernet (Intel® i211-AT & i219-LM) 4 x USB 3.0 2 x USB 2.0 1 x HDMI 1 x VGA 1 x Audio (Line-out)	
Extension Window	Blank cover (default) 1 x Wi-Fi kit and/or 1 x USB dongle kit AX92902+AX93287: 1 x 10/100/1000 Mpbs Ethernet module (Intel®i210-AT) AX92903: CANBus module AX92904+AX98615: 4-in/4-out DIO with isolated 1.5kVDC module AX92905: audio kit (Mic-in/Line-in/Line-out) AX92906: 1 x RS-232 module AX92906+AX93136: 1 x RS-232/422/485 with isolated 1.5kVDC module (default RS-232) AX92909: 2 x USB 3.0 module	

Extension System IO Module	AX93511: 4 x RS-232/422/485 module (default RS-232) AX93512: 2 x RS-232/422/485 with isolated 1.5kVDC & 8-in/ 8-out with isolated 1.5kVDC DIO module AX93516: 4 x RS-232/422/485 with isolated 2kVDC module AX93519: 1 x 10/100/1000 Mbps (Intel® i211-AT) Ethernet, 2 x RS-232/422/485, and 2 x USB 3.0 module Blank I/O cover
TPM	TPM 2.0
Expansion Interface	AX96410: 1 x PCIe x16 + 3 x PCIe x4 AX96411: 1 x PCIe x16 + 1 x PCIe x4 + 2 x PCI 1 x Full-size PCI Express Mini Card slot with SIM slot (USB & PCIe interface) for Extension Window
Storage	1 x HDD drive bay (default, supports 2 x 2.5" HDD/SSD) 1 x HDD drive bay (optional, supports 2 x 2.5" HDD/SSD) (7/9.5 mm height)
System Indicators	1 x HDD access/power LED
Power Input	Type: ATX/AT Input: 24 VDC (uMin=19V/uMax=30V)
Operating Temperature	-10°C to +70°C (+14°F up to +149°F) with W.T. HDD/SSD*
Storage Temperature	-20°C to +80°C (-4°F to +176°F)
Humidity	10% to 90%, non-condensing
Dimensions	188.14 mm (7.40") (W) x 192 mm (7.54) (H) x 317 mm (12.46") (D)
Weight (net/gross)	5.9 kg (13 lb)/7.3 kg (16.09 lb)
Certifications	CE
Software Support	AMS.AXView

*Please refer to the user's manual for the system CPU support list and the system operating temperature list.

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Ordering Information

System	
IPC974-519-C236-DC-FL	4-slot fanless industrial system with Intel® Xeon® E3 v5, 7th/6th gen Intel® Core™ i7/i5/i3 & Celeron® processor, Intel® C236 PCH, ECC memory and front-access I/O
IPC974-519-C236-N-DC-FL	4-slot fanless industrial system with Intel® Xeon® E3 v5, 7th/6th gen Intel® Core™ i7/i5/i3 & Celeron® processor, Intel® C236 PCH, ECC memory and front-access I/O, without Axiomtek logo

Extension System I/O Module & Expansion Interface	
AX93511 (P/N: 8816G974020E)	4 x RS-232/422/485 module (default RS-232)
AX93512 (P/N: 8816G974030E)	2 x RS-232/422/485 with isolated 1.5kVDC & 8-in/8-out with isolated 1.5kVDC DIO module
AX93516 (P/N: 8816G974040E)	4 x RS-232/422/485 with isolated 2kVDC module
AX93519 (P/N: 8816G974050E)	1 x 10/100/1000 Mbps (Intel® i211-AT) Ethernet, 2 x RS-232/422/485 & 2 x USB 3.0 module
726G9740690E	Blank I/O cover
AX96410 (P/N: 83964101000E)	1 x PCIe x16 + 3 x PCIe x4
AX96411 (P/N: 83964111000E)	1 x PCIe x16 + 1 x PCIe x4 + 2 x PCI

Extension Window	
Wi-Fi & antenna kit	
AX92902+AX93287	1 x 10/100/1000 Mbps Ethernet module (Intel® i210-AT)
AX92903	CANBus module
AX92904+AX98615	4-in/4-out DIO with isolated 1.5kVDC module
AX92905	Audio kit (Mic-in/Line-in/Line-out)
AX92906	1 x RS-232 module
AX92906+AX93136	1 x RS-232/422/485 with isolated 1.5kVDC module (default RS-232)
AX92909	2 x USB 3.0 module

Optional Accessory	
2.5" SATA HDD/SSD	
DDR4-2133 ECC/non-ECC SO-DIMM, up to 32GB	
826G9740030E/ 8816G9741A0E	IPC974-519 fan module kit
826G9740020E/ 8816G9740A0E	Wall mount bracket kit
826G9740040E	HDD drive bay (supports 2 x 2.5" HDD/SSD)
826G9740070E	300W power board and 2 cables for Graphic card
826G9740050E/ 8816G9742A0E	USB dongle kit
AX92320 (P/N: E392320100)	4-port PCI Express GbE PoE communication card
AX92351 (P/N: E392351100)	32-in/32-out isolated 1.5kV DIO module

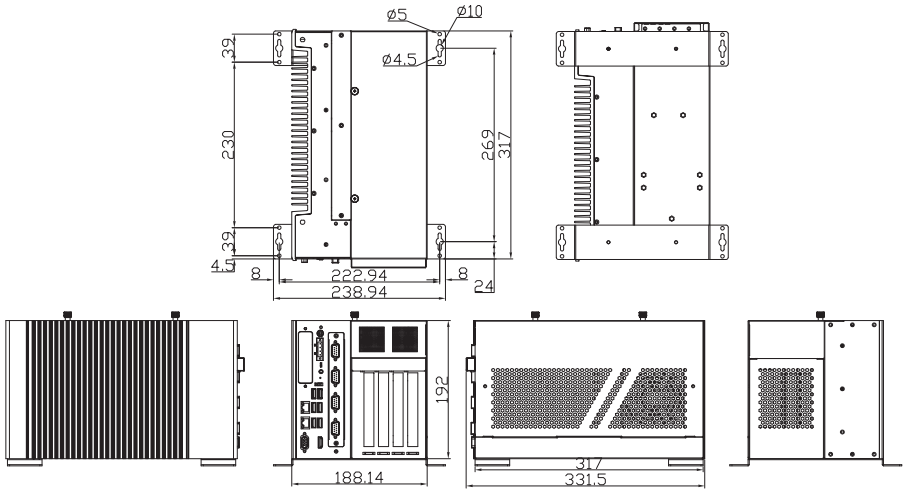
Power Protection

DC Version
OVP (over voltage protection)
SCP (short circuit protection)
OCP (over current protection)

Packing List

1 x IPC974-519 unit
1 x Screw pack
4 x Foot pad
1 x CPU grease
1 x Terminal block
1 x Remote power switch cable
1 x Extension holder bracket kit
2 x HDD bracket kit

Dimensions



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IPC922-215-FL

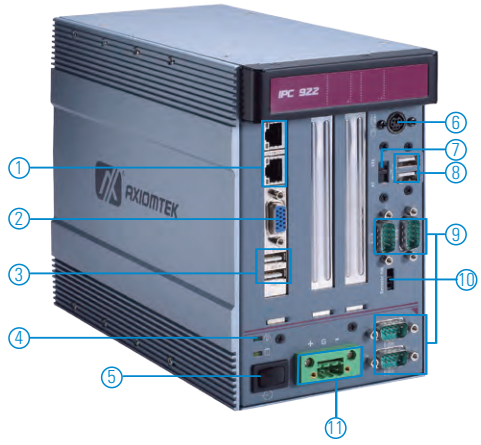
2-slot Fanless Industrial System with Intel® Celeron® Processor J1900, Front-access I/O, PCIe and PCI Slots

Features

- Intel® Celeron® processor J1900, up to 2.42 GHz
- Fanless & ventilation-free
- Supports 2 expansion slots
- 10 to 30 VDC to DC power supply
- Compact & front I/O design
- -10°C to +50°C operating temperature range



▲ Rear view



1. 2 x LAN
2. VGA
3. 2 x USB 2.0
4. HDD & Power LEDs
5. ATX power switch
6. PS/2 connector
7. AT/ATX mode switch
8. 2 x USB 2.0
9. 4 x RS-232/422/485
10. Remote power switch
11. Power connector (Din-jack or phoenix plug)



Specifications

Standard Color	Silver	
Construction	Aluminum extrusion heavy-duty cold-rolled steel	
System Board	SHB215	
Processor System	CPU Level	Intel® Celeron® processor J1900
	Max. Speed	2.42 GHz
	Chipset	SoC integrated
System Memory	1 x 204-pin DDR3L 1333 SO-DIMM, up to 8GB	
I/O Interface	4 x USB 2.0 4 x RS-232/422/485 2 x 10/100/1000 Mbps Ethernet 1 x VGA 1 x Remote switch 1 x Power on/off switch 1 x ATX/AT mode switch 1 x PS/2 key broad & mouse	
Expansion Interface	HAB108: 2 x PCI HAB103: 1 x PCI & 1 x PCIe x4 (PCIe x4 slot only support PCIe x1 signal)	

Storage	1 x 2.5" SATA HDD 1 x Onboard CFast™ socket
System Indicators	1 x Power on/off 1 x HDD
Power Input	DC ATX 120W: Input: 10 to 30 VDC Output: +5V @ 6A, +3.3V @ 5A, +12V @ 5A, -12V @ 0.1A, 5Vsb @ 2.5A
Operating Temperature	-10°C to +50°C (14°F to +122°F)
Storage Temperature	-20°C to +80°C (-4°F to +176°F)
Humidity	10% to 90%, non-condensing
Dimensions	118 mm (4.6") (W) x 248 mm (9.8") (D) x 185 mm (7.3") (H)
Weight (net/gross)	4.22 kg (9.28 lb)/5.3 kg (11.68 lb)
Certifications	CE

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Ordering Information

System	
IPC922-215-FL-HAB103-DC (P/N: E26G922106)	2-slot fanless Industrial System with Intel® Celeron® processor J1900, PCI & PCIe slots and DC-in ATX 120W P/S
IPC922-215-FL-HAB108-DC (P/N: E26G922104)	2-slot fanless Industrial System with Intel® Celeron® processor J1900, 2 PCI slots and DC-in ATX 120W P/S

*Specifications and certifications may vary according to various options.

Optional	
2.5" SATA HDD: 250GB, 320GB, 500GB	
DDR3 SO-DIMM: 2GB, 4GB, 8GB	
E393221100	AX93221-18/36-RC
59493221000E	AX93221 40-40P, LVDS cable, L=300 mm (RC)
71193221200E	AX93221 with bracket DVIX1 (RC)

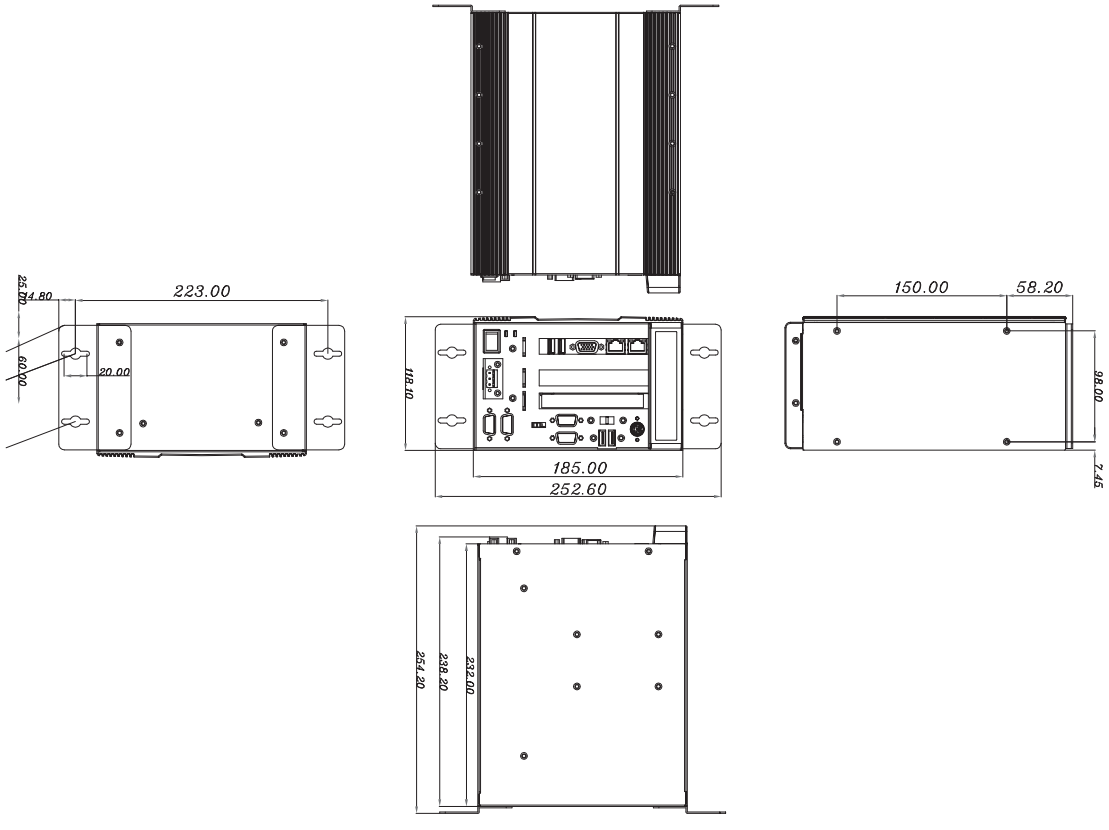
Power Protection

DC Version
SCP (short circuit protection)
OVP (over voltage protection)
OLP (over load protection)

Packing List

1 x Driver CD
1 x Quick manual
2 x Wall mount bracket
4 x Foot pad
1 x Screw pack
1 x Thermal pad for RAM
1 x Terminal block (for DC version)
1 x Remote power switch cable
1 x HDD bracket

Dimensions



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IPC932-230-FL

2-slot Fanless Industrial System with 4th Gen Intel® Core™ i7/i5/i3 & Celeron® Processor, Intel® Q87, Front-access I/O, PCIe and PCI Slots

Features

- 4th gen Intel® Core™ i7/i5/i3 & Celeron® processor, up to 45W (codename: Haswell/Haswell Refresh)
- Intel® Q87 chipset
- Supports 2 expansion slots
- 10 to 30 VDC to DC power supply
- Compact & front I/O design
- -10°C to +50°C operating temperature range
- Supports Intel® AMT 9.0
- Supports two 2.5" SATA HDD
- Supports SATA 6Gbs with RAID 0,1



1. Mic-in & Line-out
2. Digital I/O
3. DVI-I
4. PS/2 keyboard & mouse
5. 4 x USB 2.0
6. 2 x LAN
7. 2 x USB 3.0
8. RS-232/422/485
9. RS-232
10. Remote power switch
11. ATX/AT mode switch
12. ATX power switch
13. Power connector (Din-jack or phoenix plug)
14. HDD & Power LEDs

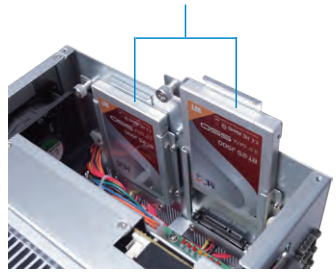


▲ Rear view



Optional fan module helps heat dissipation generated by PCI/PCIe cards
Size: 80 mm (W) x 80 mm (H) x 25 mm (D)

Supports 2 x SATA HDD, Easy-to-install





Specifications

Standard Color	Silver	
Construction	Aluminum extrusion heavy-duty cold-rolled steel, IP30	
System Board	SHB230DGGA	
Processor System	CPU Level	4th gen Intel® Core™ i7/i5/i3 & Celeron® processor (Haswell/Haswell Refresh)
	Max. Speed	2.42 GHz
	Chipset	Intel® Q87
System Memory	2 x 204-pin DDR3-1333/1600 SO-DIMM, up to 16GB	
I/O Interface	ATX power on/off switch 1 x 2-pin connector output for remote on/off switch 2 x USB 3.0 4 x USB 2.0 2 x RS-232 2 x RS-232/422/485 2 x 10/100/1000 Mbps Ethernet 1 x DVI-I 1 x DIO (Female DB9 Connector) (4-in and 4-out) 1 x PS/2 keyboard/mouse 1 x Audio (Mic-in/Line-out) 1 x AT/ATX mode switch	
Expansion Interface	HAB100: 1 x PCIe x1 & 1 x PCIe x4 HAB103: 1 x PCIe x4 & 1 x PCI HAB108: 2 x PCI HAB110: 1 x PCIe x4 & 1 x PCIe x16	

Storage	2 x 2.5" SATA HDD, 1 x CFast™ socket
System Indicators	1 x Power on/off 1 x HDD
Power Input	DC ATX 150W: Input: 10 to 30 VDC Output: +5V@11A, +3.3V@5A, +12V@9A, -12V@-150mA, 5Vsb@2A AC-DC power adapter: Input: 90 to 264 VAC Output: 19V@7.89A
Operating Temperature	-10°C to +55°C (+14°F to +131°F) (with W.T. SSD or Cfast)
Storage Temperature	-20°C to +80°C (-4°F to +176°F)
Humidity	10% to 90%, non-condensing
Dimensions	159.9 mm (6.36") (W) x 251.8 mm (10.02") (D) x 185 mm (7.2") (H)
Weight (net/gross)	6.2 kg (13.67 lb)/7.2 kg (15.87 lb)
Certifications	CE compliance

**The maximum power rating for expansion slots at +50°C can not be exceeded the following values: The maximum loading of +3.3V/1A and +5V/5A and +12V/3A <60W

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Ordering Information

PCIe Version	
IPC932-230-FL-DC SYS w/ HAB100 (P/N: E26G932101)	2-slot fanless industrial system with 4th gen, Intel® Core™ i7/i5/i3 processor and front-access I/O, PCIe slots and DC-in ATX 150W P/S
IPC932-230-FL-AC-US SYS w/HAB103 (P/N: E26G932102)	2-slot fanless industrial system with 4th gen, Intel® Core™ i7/i5/i3 processor and front-access I/O, PCIe slots and DC-in ATX 150W P/S, AC-DC 150W power adapter and US power cord
IPC932-230-FL-DC SYS w/ HAB103 (P/N: E26G932103)	2-slot fanless industrial system with 4th gen Intel® Core™ i7/i5/i3 processor and front-access I/O,PCIe slots and DC-in ATX 150W P/S
IPC932-230-FL-AC-US w/ HAB100 w/o logo (P/N: E26G932108)	2-slot fanless industrial system with 4th gen Intel® Core™ i7/i5/i3 processor and front-access I/O, PCIe slots and DC-in ATX 150W P/S, AC-DC 150W power adapter and US power cord, without Axiomtek logo
IPC932-230-FL-DC w/ HAB100 w/o logo (P/N: E26G932109)	2-slot fanless industrial system with 4th gen Intel® Core™ i7/i5/i3 processor and front-access I/O, PCIe slots and DC-in ATX 150W P/S, without Axiomtek logo
IPC932-230-FL-AC-US w/ HAB103 w/o logo (P/N: E26G932110)	2-slot fanless industrial system with 4th gen Intel® Core™ i7/i5/i3 processor and front-access I/O, PCIe slots and DC-in ATX 150W P/S, AC-DC 150W power adapter and US power cord, without Axiomtek logo
IPC932-230-FL-AC-US SYS w/HAB108 (P/N: E26G932113)	2-slot fanless industrial system with 4th gen Intel® Core™ i7/i5/i3 processor and front-access I/O, PCIe slots and DC-in ATX 150W P/S, AC-DC 150W power adapter and US power cord
IPC932-230-FL-AC-US SYS w/HAB110 (P/N: E26G932115)	2-slot fanless industrial system with 4th gen Intel® Core™ i7/i5/i3 processor and front-access I/O, PCIe slots and DC-in ATX 150W P/S, AC-DC 150W power adapter and US power cord

*Specifications and certifications may vary according to various options.

Optional	
2.5" SATA HDD: 320 GB, 500 GB	
DDR3 SO-DIMM: 2GB, 4GB, 8GB	
CFast™: 2GB, 4GB, 8GB	
E26G932104	IPC932-230-FL fan module kit
594826A0010E	Y-cable for CRT and DVI 150 mm
59381560000E	6P PS/2 KB + MS cable

Power Protection

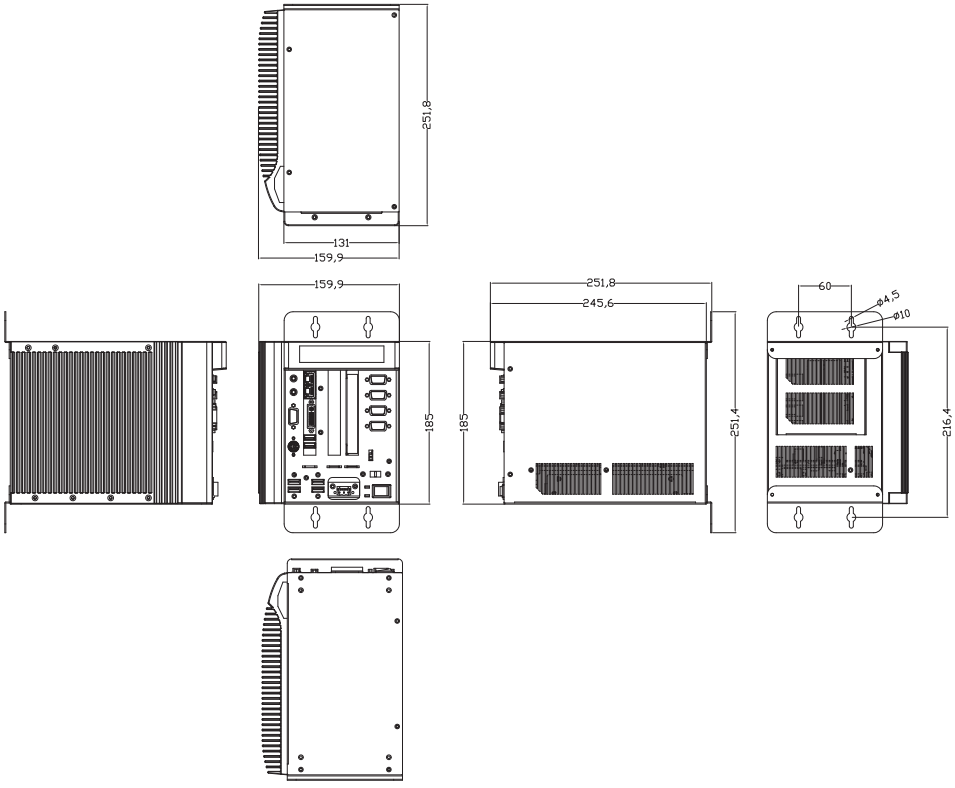
AC Version
OVP (over voltage protection)
OTP (over temperature protection)
OPP (over power protection)
SCP (over circuit protection)

DC Version
OVP (over voltage protection)
SCP (short circuit protection)
OCP (over current protection)

Packing List

1 x IPC932-230-FL series unit
1 x 19 V 15 0W adapter (for AC Version)
1 x Driver CD
1 x Quick manual
2 x Wall mount bracket
1 x Screw pack
4 x Foot pad
1 x CPU thermal pad
2 x HDD bracket
2 x HDD mylar
1 x Terminal block (for DC version)
1 x Remote power switch cable

Dimensions



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Embedded Systems

Edge AI Systems

Transportation Embedded Systems & Switch

DIN-rail Embedded Systems

Embedded MicroBoxes

Industrial Systems

Machine Vision Systems

Industrial Chassis

Digital Signage Players

Systems and Platforms

7 Machine Vision Systems

Axiomtek's MVS series is designed to focus on vision inspection, guidance, measurement and identification applications. The products have already gone through a complete set of compatibility experiments to eliminate potential integration problems, significantly helping users reduce development and staffing costs as well as accelerate system deployment in factory automation environment.

	Selection Guide		220
NEW	MVS900-511-FL	Fanless Vision System with LGA1151 Socket 7th/6th Gen Intel® Core™ i7/i5/i3 & Celeron® Processor, Intel® H110 with Vision I/O and 4-CH PoE and 4-CH LED Output	221
NEW	MVS900-512-FL	Fanless Vision System with LGA1151 Socket 7th/6th Gen Intel® Core™ i7/i5/i3 & Celeron® Processor, Intel® Q170 with Vision I/O and 4-CH PoE and 4-CH LED Output	221
	IPS960-511-PoE	Vision System with LGA1151 Socket 7th/6th Gen Intel® Core™ i7/i5/i3 & Celeron® Processor, Intel® H110, 4 PoE, 4 USB 3.0, and Real-time Vision I/O	221
	IPS962-512-PoE	Vision System with LGA1151 Socket 7th/6th Gen Intel® Core™ i7/i5/i3 & Celeron® Processor, Intel® Q170, 4 PoE, 4 USB 3.0, and Real-time Vision I/O	223

Machine Vision Systems

Selection Guide

NEW



NEW



Features\Models		MVS900-511-FL	MVS900-512-FL
CPU Level		7th/6th gen Intel® Core™ i7/i5/i3 & Celeron®, up to 65W	7th/6th gen Intel® Core™ i7/i5/i3 & Celeron®, up to 65W
System Memory		2 x DDR4-2133/2400 un-buffered SO-DIMM, up to 32GB	2 x DDR4-2133/2400 un-buffered SO-DIMM, up to 32GB
Chipset		Intel® H110	Intel® Q170
I/O	**Vision I/O**	4 x Trigger input 4 x Trigger output 4 x LED lighting control (Strobe/Trigger mode) 2 x Quadrature encoder input 16 x Isolated DIO	4 x Trigger input 4 x Trigger output 4 x LED lighting control (Strobe/Trigger mode) 2 x Quadrature encoder input 16 x Isolated DIO
	Display	1 x HDMI 1 x VGA	1 x HDMI 1 x VGA
	Audio	YES	YES
	PoE	4 x IEEE802.3at GbE LAN port	4 x IEEE802.3at GbE LAN port
	Ethernet	2 x 10/100/1000 Mbps Ethernet	2 x 10/100/1000 Mbps Ethernet
	USB	4 x USB 3.0 1 x Internal USB connector	4 x USB 3.0 1 x Internal USB connector
	Others	2 x RS-232/422/485 & 8-in/8-out DIO with isolated 1.5 kVDC protection	2 x RS-232/422/485 & 8-in/8-out DIO with isolated 1.5 kVDC protection
	Expansion Module	N/A	N/A
	Expansion Interface	1 x Full-size PCI Express Mini Card slot with USB interface 1 x Internal USB connector	1 x Full-size PCI Express Mini Card slot with USB & PCIe interface 1 x M.2 2280 Key M slot, PCIe Gen.3 x4 for NVMe SSD 1 x Internal USB connector
Storage		2 x Swappable 2.5" HDD	2 x Swappable 2.5" HDD (9.5mm height)
TPM		TPM 2.0	TPM 2.0
Watchdog Timer		255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.
Power Input		24 VDC (uMin=19V/uMax=30V)	24 VDC (uMin=19V/uMax=30V)
Operating Temperature		-10°C to +60°C (+14°F to +140°F) with 6th gen CPU (35W) -10°C to +50°C (+14°F to +122°F) with 7th gen CPU & 6th gen (65W)	-10°C to +60°C (+14°F to +140°F) with 6th gen CPU (35W) -10°C to +50°C (+14°F to +122°F) with 7th gen CPU & 6th gen (65W)
Dimensions (W x H x D)		135 x 210 x 230 mm (5.27" x 6.5" x 9.01")	135 x 210 x 230 mm (5.27" x 6.5" x 9.01")
Weight (net/gross)		TBC	TBC
Mounting		Wall mount	Wall mount
Certifications		CE, FCC	CE, FCC
EOS Support		6th gen: Win 7 32/64-bit & Win 10 64-bit 7th gen: Win 10 64-bit	6th gen: Win 7 32/64-bit & Win 10 64-bit 7th gen: Win 10 64-bit
Software Support		AMS.AXView	AMS.AXView

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Vision Systems

Selection Guide





Features\Models		IPS960-511-PoE	IPS962-512-PoE
CPU Level		7th/6th gen Intel® Core™ i7/i5/i3 & Celeron®, up to 65W	7th/6th gen Intel® Core™ i7/i5/i3 & Celeron®, up to 65W
System Memory		2 x DDR4-2133/2400 un-buffered SO-DIMM, up to 32GB	2 x DDR4-2133/2400 un-buffered SO-DIMM, up to 32GB
Chipset		Intel® H110	Intel® Q170
I/O	**Vision I/O**	4 x Trigger input 4 or 8 x Trigger output 4 x LED lighting control 1 x Quadrature encoder input 16 x Isolated DIO 1 x Auto measurement function	4 x Trigger input 4 or 8 x Trigger output 4 x LED lighting control 1 x Quadrature encoder input 16 x Isolated DIO 1 x Auto measurement function
	Display	1 x HDMI 1 x VGA	1 x HDMI 1 x VGA
	Audio	Yes	Yes
	PoE	4 x IEEE802.3at GbE LAN port	4 x IEEE802.3at GbE LAN port
	Ethernet	2 x 10/100/1000 Mbps Ethernet	2 x 10/100/1000 Mbps Ethernet
	USB	4 x USB 3.0	4 x USB 3.0
	Others	N/A	N/A
	Expansion Module	AX93511: 4 x RS-232/422/485 (default RS-232) AX93512: 2 x isolated RS-232/422/485 & 1 x isolated 8-in/8-out DIO AX93516: 4 x isolated RS-232/422/485	AX93511: 4 x RS-232/422/485 (default RS-232) AX93512: 2 x isolated RS-232/422/485 & 1 x isolated 8-in/8-out DIO AX93516: 4 x isolated RS-232/422/485 AX93519: 1 x 10/100/1000 Mbps Ethernet, 2 x USB 3.0 & 2 x RS-232/422/485 (default RS-232)
	Expansion Interface	1 x Full-size PCI Express Mini Card slot with USB interface	1 x PCIe x16 Gen3 1 x PCIe x4 Gen3 1 x Full-size PCI Express Mini Card slot with USB & PCIe interface
Storage		2 x Swappable 2.5" HDD	2 x Swappable 2.5" HDD
TPM		TPM 2.0	TPM 2.0
Watchdog Timer		255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.
Power Input		24 VDC (uMin=19V/uMax=30V)	24 VDC (uMin=19V/uMax=30V)
Operating Temperature		-10°C to +55°C (+14°F to +131°F)) with 6th gen CPU (35W) -10°C to +45°C (+14°F to +113°F) with 7th gen CPU & 6th gen (65W)	-10°C to +55°C (+14°F to +131°F)) with 6th gen CPU (35W) -10°C to +45°C (+14°F to +113°F) with 7th gen CPU & 6th gen (65W)
Dimensions (W x H x D)		147.5 x 192 x 230 mm (5.80" x 7.54" x 9.04")	188.1 x 192 x 230 mm (7.39" x 7.54" x 9.04")
Weight (net/gross)		4.582 kg (10.10lb)/5.546 kg (12.23lb)	5 Kg (11.02 lb)/6.1 Kg (13.45 lb)
Mounting		Wall mount	Wall mount
Certifications		CE compliance	CE compliance
EOS Support		6th gen platform: Win 7 32/64-bit & Win 10 64-bit 7th gen platform: Win 10 64-bit	6th gen platform: Win 7 32/64-bit & Win 10 64-bit 7th gen platform: Win 10 64-bit
Software Support		AMS.AXView	AMS.AXView

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MVS900-511-FL NEW

Fanless Vision System with LGA1151 Socket 7th/6th Gen Intel® Core™ i7/i5/i3 & Celeron® Processor, Intel® H110, Vision I/O, 4-CH PoE and 4-CH LED Output

Features

- Integrated real-time vision I/O
  - 4-CH trigger input
  - 4 trigger output
  - 4-CH LED lighting control
  - 2-CH quadrature encoder input
  - 16-CH isolated DIO
- Supports camera interfaces
  - 4 IEEE802.3at GbE LAN ports (PoE)
- Power input: 24 VDC (uMin=19V/uMax=30V)
- -10°C to +60°C operating temperature range with W.T. SSD
- Supports 2 swappable 2.5" HDD
- Supports TPM 2.0 function



1. Reset switch
2. Remote switch
3. Mic-in & Line-out
4. 2 x LAN
5. Power switch
6. Terminal block
7. 2 x RS-232/422/485
   1 x 8-in/8-out DIO with isolated 1.5 kVDC protection
8. VGA
9. 4 x USB 3.0
10. HDMI
11. Vision I/O: 4-in/4-out trigger I/O, 8-in/8-out DIO, 2 x encoder
12. LED lighting control: trigger and strobe mode
13. 4 x IEEE802.3at GbE LAN port



Specifications

Standard Color	Black	
Construction	Aluminum die-casting and heavy-duty, IP40	
Processor System	CPU Level	7th/6th gen Intel® Core™ i7/i5/i3 & Celeron® processors, up to 65W (Kaby Lake/Skylake)
	Chipset	Intel® H110
System Memory	2 x DDR4-2133/2400 un-buffered SO-DIMM, up to 32GB	
System I/O	1 x Switch for power On/Off (ATX) 1 x Remote switch 1 x Reset switch 1 x 3-pin terminal block 1 x AT/ATX selectable switch 2 x 10/100/1000 Mbps Ethernet (Intel® i211-AT) 2 x RS-232/422/485 & 1 x 8-in/8-out DIO with isolated 1.5 kVDC protection 4 x USB 3.0 1 x HDMI 1 x VGA 1 x Mic-in 1 x Line-out 1 x Internal USB connector	
TPM	TPM 2.0	
Vision I/O	- 4-CH trigger input (response time<1us, sink type, input range: 0 to 30V) - 4-CH trigger output (response time<1us, sink type, open collector, output range: 0 to 30V, 100mA max./CH) - 4-CH LED lighting control (strobe mode: 24V, 1A per CH/ trigger mode: 24V, 0.5A per CH) - 2-CH quadrature encoder input (A/B/Z) - 8-CH isolated DI (sink/source type, input range: 0 to 30V) - 8-CH isolated DO(sink type, open collector, supply voltage: 5-30V, 200mA max./CH) - Programmable interrupt functions	

Camera Interface	4 x IEEE802.3at GbE LAN port (PoE, Intel® i210-AT, IEEE802.3at compliant, total max. power output 60W)
Expansion Interface	1 x Full-size PCI Express Mini Card slot with USB signal
Storage	2 x 2.5" swappable HDD (9.5 mm height)
System Indicators	1 x Power LED 1 x HDD LED 4 x PoE power LED
Power Input	Type: ATX/AT Input: 24 VDC (uMin=19V/uMax=30V)
Operating Temperature	-10°C to +60°C (+14°F to +140°F) with 6th gen Intel® Core™ up to 35W and W.T. HDD/SSD* -10°C to +50°C (+14°F to +112°F) with 6th/7th gen Intel® Core™ up to 65W and W.T. HDD/SSD*
Storage Temperature	-20°C to +80°C (-4°F to +176°F)
Humidity	10% to 90%, non-condensing
Dimensions	134 mm (5.27") (W) x 199.5 mm (7.85") (H) x 229 mm (9.01") (D)
Weight (net/gross)	TBC
Certifications	CE, FCC
Software Support	AMS.AXView

* CPU support list please refer to the user's manual

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Ordering Information

System	
MVS900-511-FL	Fanless vision system with LGA1151 socket 7th/6th gen Intel® Core™ i7/i5/i3 & Celeron® processor, Intel® H110, vision I/O, 4-CH PoE and 4-CH LED output

Optional	
5A244AP1200E	44-pin DIN-rail terminal board DM44-AP12
594DM443500E	44-pin D-SUB cable, L=1m WHDM44/1.0-6954
594DM443510E	44-pin D-SUB cable, L=2m WHDM44/2.0-6954
594DM443520E	44-pin D-SUB cable, L=3m WHDM44/3.0-6954

* Specifications and certifications may vary based on different requirements.

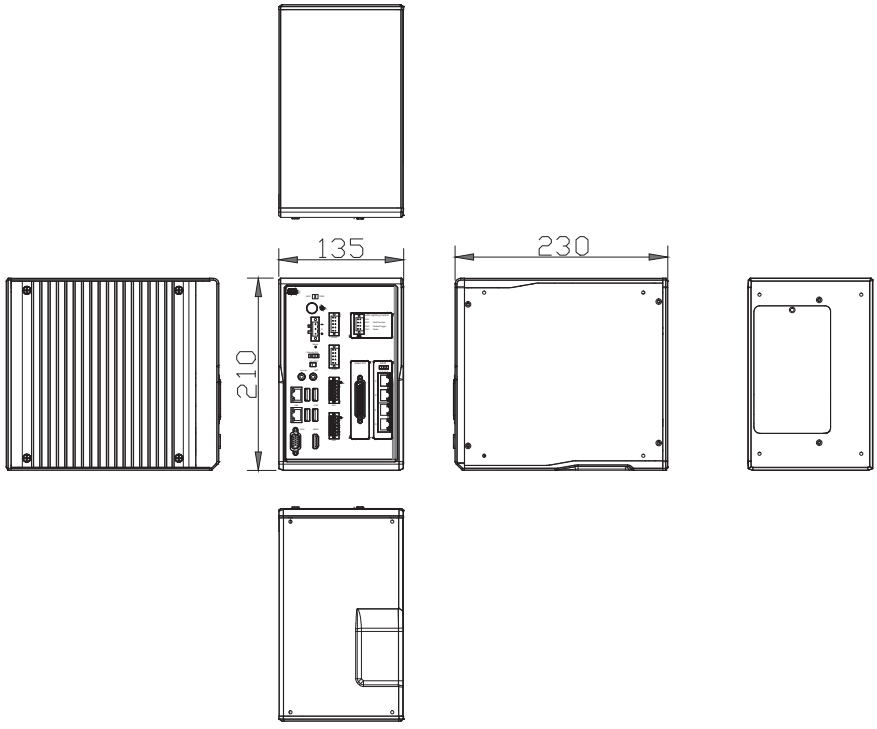
Power Protection

DC Version
OVP (over voltage protection)
SCP (short circuit protection)
OCP (over current protection)

Packing List

1 x MVS900-511-FL
1 x Screw pack
4 x Foot pad
1 x CPU grease
1 x Terminal block
1 x Remote power switch cable
1 x Holder bracket

Dimensions



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MVS900-512-FL NEW

Fanless Vision System with LGA1151 Socket 7th/6th Gen Intel® Core™ i7/i5/i3 & Celeron® Processor, Intel® Q170, Vision I/O, 4-CH PoE and 4-CH LED Output

Features

- Integrated real-time vision I/O
  - 4-CH trigger input
  - 4 trigger output
  - 4-CH LED lighting control
  - 2-CH quadrature encoder input
  - 16-CH isolated DIO
- Supports camera interfaces
  - 4 IEEE802.3at GbE LAN ports (PoE)
- Power input: 24 VDC (uMin=19V/uMax=30V)
- -10°C to +60°C operating temperature range with W.T. SSD
- Supports 2 swappable 2.5" HDD
- Supports TPM 2.0 function



1. Reset switch
2. Remote switch
3. Mic-in & Line-out
4. 2 x LAN
5. Power switch
6. Terminal block
7. 2 x RS-232/422/485
   1 x 8-in/8-out DIO with isolated 1.5 kVDC protection
8. VGA
9. 4 x USB 3.0
10. HDMI
11. Vision I/O: 4-in/4-out trigger I/O, 8-in/8-out DIO, 2 x encoder
12. LED lighting control: trigger and strobe mode
13. 4 x IEEE802.3at GbE LAN port



Specifications

Standard Color	Black	
Construction	Aluminum die-casting and heavy-duty, IP40	
Processor System	CPU Level	7th/6th gen Intel® Core™ i7/i5/i3 & Celeron® processors, up to 65W (Kaby Lake/Skylake)
	Chipset	Intel® Q170
System Memory	2 x DDR4-2133/2400 un-buffered SO-DIMM, up to 32GB	
System I/O	1 x Switch for power On/Off (ATX) 1 x Remote switch 1 x Reset switch 1 x 3-pin terminal block 1 x AT/ATX selectable switch 2 x 10/100/1000 Mbps Ethernet (Intel® i211-AT) 2 x RS-232/422/485 & 1 x 8-in/8-out DIO with isolated 1.5 kVDC protection 4 x USB 3.0 1 x HDMI 1 x VGA 1 x Mic-in 1 x Line-out 1 x Internal USB connector	
TPM	TPM 2.0	
Vision I/O	- 4-CH trigger input (response time<1us, sink type, input range: 0 to 30V) - 4-CH trigger output (response time<1us, sink type, open collector, output range: 0 to 30V, 100mA max./CH) - 4-CH LED lighting control (strobe mode: 24V, 1A per CH/ trigger mode: 24V, 0.5A per CH) - 2-CH quadrature encoder input (A/B/Z) - 8-CH isolated DI (sink/source type, input range: 0 to 30V) - 8-CH isolated DO(sink type, open collector, supply voltage: 5-30V, 200mA max./CH) - Programmable interrupt functions	

Camera Interface	4 x IEEE802.3at GbE LAN port (PoE, Intel® i210-AT, IEEE802.3at compliant, total max. power output 60W)
Expansion Interface	1 x Full-size PCI Express Mini Card slot with USB & PICe signal 1 x M.2 2280 Key M slot, PCIe X4 Gen3 for NVMe SSD
Storage	2 x 2.5" swappable HDD (9.5 mm height)
System Indicators	1 x Power LED 1 x HDD LED 4 x PoE power LED
Power Input	Type: ATX/AT Input: 24 VDC (uMin=19V/uMax=30V)
Operating Temperature	-10°C to +60°C (+14°F to +140°F) with 6th gen Intel® Core™ up to 35W and W.T. HDD/SSD* -10°C to +50°C (+14°F to +112°F) with 6th/7th gen Intel® Core™ up to 65W and W.T. HDD/SSD*
Storage Temperature	-20°C to +80°C (-4°F to +176°F)
Humidity	10% to 90%, non-condensing
Dimensions	134 mm (5.27") (W) x 199.5 mm (7.85") (H) x 229 mm (9.01") (D)
Weight (net/gross)	TBC
Certifications	CE, FCC
Software Support	AMS.AXView

* CPU support list please refer to the user's manual

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Ordering Information

System	
MVS900-512-FL	Fanless vision system with LGA1151 socket 7th/6th gen Intel® Core™ i7/i5/i3 & Celeron® processor, Intel® Q170, vision I/O, 4-CH PoE and 4-CH LED output

Optional	
5A244AP1200E	44-pin DIN-rail terminal board DM44-AP12
594DM443500E	44-pin D-SUB cable, L=1m WHDM44/1.0-6954
594DM443510E	44-pin D-SUB cable, L=2m WHDM44/2.0-6954
594DM443520E	44-pin D-SUB cable, L=3m WHDM44/3.0-6954

* Specifications and certifications may vary based on different requirements.

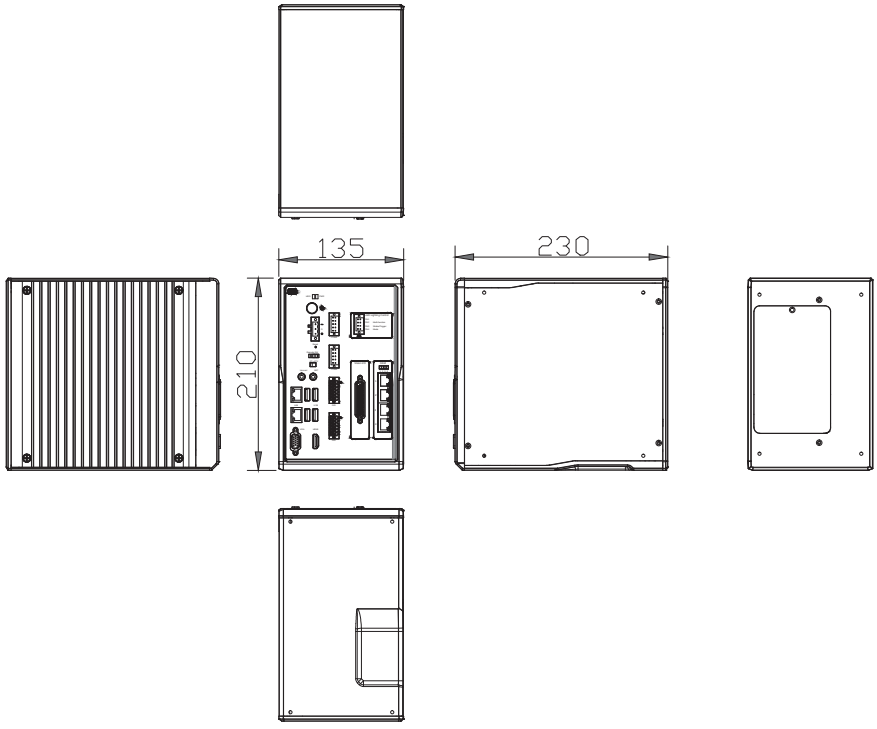
Power Protection

DC Version
OVP (over voltage protection)
SCP (short circuit protection)
OCP (over current protection)

Packing List

1 x MVS900-512-FL
1 x Screw pack
4 x Foot pad
1 x CPU grease
1 x Terminal block
1 x Remote power switch cable
1 x Holder bracket

Dimensions



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IPS960-511-PoE

Vision System with LGA1151 Socket 7th/6th Gen Intel® Core™ i7/i5/i3 & Celeron® Processor, Intel® H110, 4 PoE, 4 USB 3.0, and Real-time Vision I/O

Features

- Integrated real-time vision I/O
  - 4-CH trigger input
  - 4 or 8-CH trigger output
  - 4-CH LED lighting control
  - 1-CH quadrature encoder input
  - 16 CH isolated DIO
  - 1-CH auto measurement function
- Supports camera interfaces
  - 4 IEEE802.3at GbE LAN ports (PoE)
  - 4 USB 3.0 ports
- Power input: 24 VDC (uMin=19V/uMax=30V)
- -10°C to +55°C operating temperature range
- Supports 2 swappable 2.5" HDD
- Supports optional WLAN module & antenna
- Supports TPM 2.0 function
- Compact & front I/O design



DDR4 | IP40 | AMS.AXView | DualView



1. 2 x Antenna opening
2. Remote switch
3. Mic-in & Line-out
4. 2 x LAN
5. VGA
6. Reset switch
7. Power switch
8. Terminal block
9. HDD/Power LED
10. 4 x USB 3.0
11. HDMI
12. I/O module slot
    (1) AX93511: 4 x RS-232/422/485 (default RS-232)
    (2) AX93512: 2 x RS-232/422/485 & 1 x 8-in/8-out DIO with isolated 1.5 kVDC protection
    (3) AX93516: 4 x RS-232/422/485 with isolated 2kVDC module
    (4) Blank I/O cover
13. 4 x IEEE802.3at GbE LAN port
14. Real-time vision I/O

Specifications

Standard Color	Silver	
Construction	Aluminum extrusion heavy-duty cold-rolled steel, IP40	
Processor System	CPU Level	7th/6th gen Intel® Core™ i7/i5/i3 & Celeron® processors, up to 65W (Kaby Lake/Skylake)
	Chipset	Intel® H110
System Memory	2 x DDR4-2133/2400 un-buffered SO-DIMM, up to 32GB	
System I/O	1 x Switch for power On/Off (ATX) 1 x Remote switch 1 x Reset switch 1 x 3-pin terminal block 1 x AT/ATX selectable switch 2 x 10/100/1000 Mbps Ethernet (Intel® i211-AT) 4 x IEEE802.3at GbE LAN port (Intel® i210-AT, IEEE802.3at compliant, total max. power output 60W) 1 x Real-time vision I/O 4 x USB 3.0 1 x HDMI 1 x VGA 1 x Mic-in 1 x Line-out	
I/O Expansion Modules	AX93511: 4 x RS-232/422/485 module (default RS-232) AX93512: 2 x RS-232/422/485 with isolated 1.5kVDC & 8-in/8-out with isolated 1.5kVDC DIO module AX93516: 4 x RS-232/422/485 with isolated 2kVDC module Blank I/O cover	
TPM	TPM 2.0	

Vision I/O	- 4-CH trigger input (response time<1us, sink type, input range: 0 to 30V) - 4 or 8-CH trigger output (response time<1us, output voltage: 12V) - 4-CH LED lighting control (24V, Max. 0.5A per channel, LED lighting control setting: Duty 50% and duration time 3.5s) - 1 CH quadrature encoder input (A/B/Z) - 8-CH isolated DI (sink/source type, input range: 0 to 30V) - 8-CH isolated DO (sink type, open collector, supply voltage: 5-30V) - 1-CH auto measurement function (Timer that measures response interval between trigger input and trigger output) - Programmable interrupt functions
Camera Interface	4 x IEEE802.3at GbE LAN port (PoE) 4 x USB 3.0 port
Expansion Interface	1 x Full-size PCI Express Mini Card slot with USB interface
Storage	2 x 2.5" swappable HDD (15 mm height)
System Indicators	1 x Power LED 1 x HDD LED
Power Input	Type: ATX/AT Input: 24 VDC (uMin=19V/uMax=30V)
Operating Temperature	-10°C to +55°C (+14°F to +131°F) with 6th gen Intel® Core™ up to 35W and W.T. HDD/SSD* -10°C to +45°C (+14°F to +113°F) with 6th/7th gen Intel® Core™ up to 65W and W.T. HDD/SSD*
Storage Temperature	-20°C to +80°C (-4°F to +176°F)
Humidity	10% to 90%, non-condensing
Dimensions	147.5 mm (5.80") (W) x 192 mm (7.54") (H) x 230 mm (9.04") (D)
Weight (net/gross)	4.582 kg (10.10 lb)/5.546 kg (12.23 lb)
Certifications	CE compliance
Software Support	AMS.AXView

* CPU support list please refer to the user's manual

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Ordering Information

System	
IPS960-511-PoE (P/N: E27A960100)	Vision system with LGA1151 socket 7th/6th gen Intel® Core™ i7/i5/i3 & Celeron® processor, Intel® H110, 4 PoE, 4 USB 3.0, and real-time vision I/O

I/O Modules	
AX93511 (P/N: 8816G962020E)	4 x RS-232/422/485 (default RS-232)
AX93512 (P/N: 8816G962060E)	2 x RS-232/422/485 & 8-in/8-out DIO with isolated 1.5 kVDC protection
AX93516 (P/N: 8816G962030E)	4 x RS-232/422/485 with isolated 1.5 kV
726G9620610E	Blank metal cover

Optional	
2.5" SATA HDD/SSD	
DDR4-2133/2400 un-buffered SO-DIMM max. up to 32GB	
826G9620020E / 8816G9621A0E	Wall mount bracket kit
50906D24000E	Adaptor 24V/120W, wire only
5A244AP1200E	44-pin DIN-rail terminal board DM44-AP12
594DM443500E	44-pin D-SUB cable, L=1m WHDM44/1.0-6954
594DM443510E	44-pin D-SUB cable, L=2m WHDM44/2.0-6954
594DM443520E	44-pin D-SUB cable, L=3m WHDM44/3.0-6954

* Specifications and certifications may vary based on different requirements.

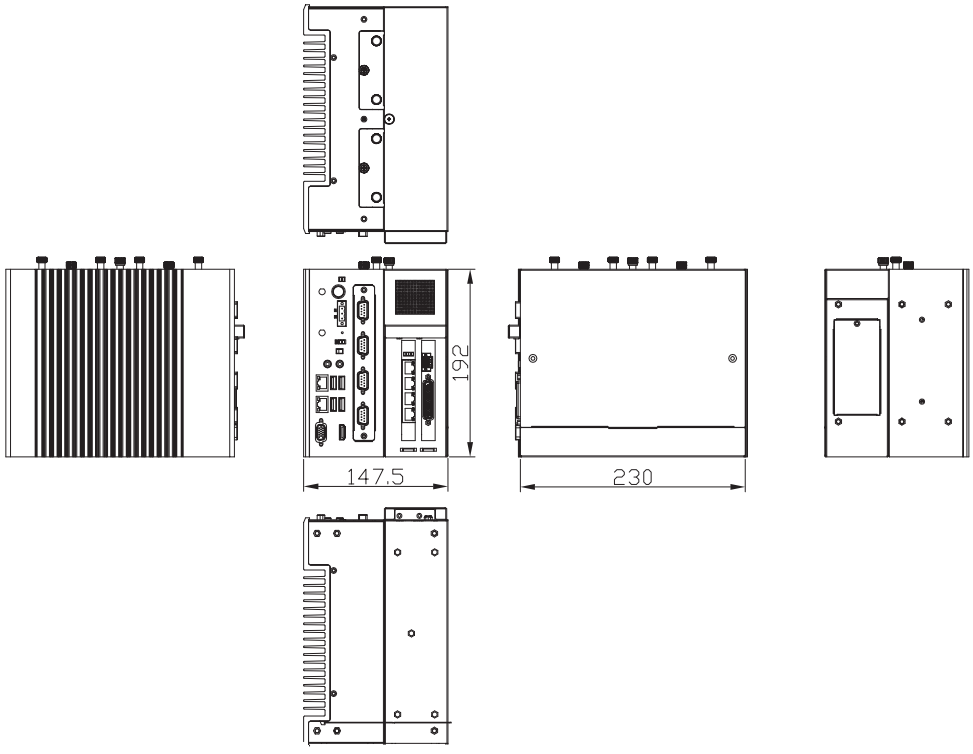
Power Protection

DC Version
OVP (over voltage protection)
SCP (short circuit protection)
OCP (over current protection)

Packing List

1 x IPS960-511-PoE
1 x Screw pack
4 x Foot pad
1 x CPU grease
1 x Terminal block
1 x Remote power switch cable
1 x Holder bracket
1 x CN-terminal block 4 x 2 for LED lighting control

Dimensions



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IPS962-512-PoE

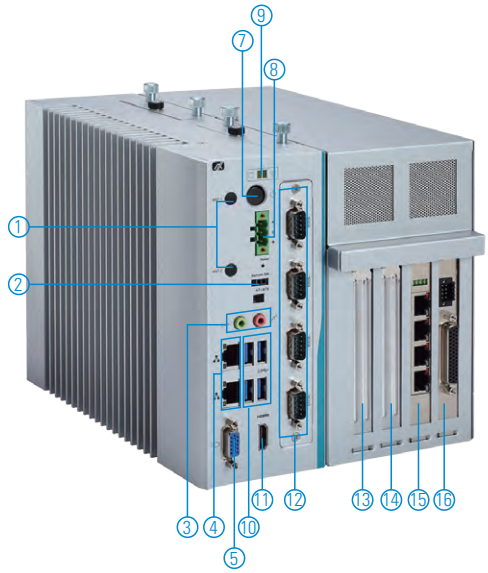
Vision System with LGA1151 Socket 7th/6th Gen Intel® Core™ i7/i5/i3 & Celeron® Processor, Intel® Q170, 4 PoE, 4 USB 3.0, and Real-time Vision I/O

Features

- Integrated real-time vision I/O
  - 4-CH trigger input
  - 4 or 8-CH trigger output
  - 4-CH LED lighting control
  - 1-CH quadrature encoder input
  - 16-CH isolated DIO
  - 1 CH auto measurement function
- Supports camera interfaces
  - 4 IEEE802.3at GbE LAN ports (PoE)
  - 4 USB 3.0 ports
- Power input: 24 VDC (uMin=19V/uMax=30V)
- -10°C to +55°C operating temperature range with W.T. SSD
- Supports 2 swappable 2.5" HDD
- Supports optional WLAN module & antenna
- Supports TPM 2.0 function
- Compact & front I/O design



DDR4 | IP40 | AMS.AXView | DualView



1. 2 x Antenna opening
2. Remote switch
3. Mic-in & Line-out
4. 2 x LAN
5. VGA
6. Reset switch
7. Power switch
8. Terminal block
9. HDD/Power LED
10. 4 x USB 3.0
11. HDMI
12. I/O module slot
    (1) AX93511: 4 x RS-232/422/485 (default RS-232)
    (2) AX93512: 2 x RS-232/422/485 & 1 x 8-in/8-out DIO with isolated 1.5 kVDC protection
    (3) AX93516: 4 x RS-232/422/485 with isolated 2kVDC module
    (4) AX93519: 1 x 10/100/1000 Mbps Ethernet, 2 x USB 3.0 & 2 x RS-232/422/485
    (5) Blank I/O cover
13. 1 x PCIe x16 slot
14. 1 x PCIe x4 slot
15. 4 x IEEE802.3at GbE LAN port
16. Real-time vision I/O

Specifications

Standard Color	Silver	
Construction	Aluminum extrusion heavy-duty cold-rolled steel, IP40	
Processor System	CPU Level	7th/6th gen Intel® Core™ i7/i5/i3 & Celeron® processors, up to 65W (Kaby Lake/Skylake)
	Max. Speed	3.4 GHz
	Chipset	Intel® Q170
System Memory	2 x DDR4-2133/2400 un-buffered SO-DIMM, up to 32GB	
System I/O	1 x Switch for power On/Off (ATX) 1 x Remote switch 1 x Reset switch 1 x 3-pin terminal block 1 x AT/ATX selectable switch 2 x 10/100/1000 Mbps Ethernet (Intel® i211-AT) 4 x IEEE802.3at GbE LAN port (Intel® i210-AT, IEEE802.3at compliant, total max. power output 60W) 1 x Real-time vision I/O 4 x USB 3.0 1 x HDMI 1 x VGA 1 x Mic-in 1 x Line-out	
I/O Expansion Modules	AX93511: 4 x RS-232/422/485 module (default RS-232) AX93512: 2 x RS-232/422/485 with isolated 1.5kVDC & 8-in/8-out with isolated 1.5kVDC DIO module AX93516: 4 x RS-232/422/485 with isolated 2kVDC module AX93519: 1 x 10/100/1000 Mbps (Intel® i211-AT) Ethernet, 2 x RS-232/422/485 and 2 x USB 3.0 module Blank I/O cover	
TPM	TPM 2.0	

Vision I/O	- 4-CH trigger input (response time<1us, sink type, input range: 0 to 30V) - 4 or 8-CH trigger output (response time<1us, output voltage: 12V) - 4-CH LED lighting control (24V, Max. 0.5A per channel, LED lighting control setting: Duty 50% and duration time 3.5s) - 1-CH quadrature encoder input (A/B/Z) - 8-CH isolated DI (sink/source type, input range: 0 to 30V) - 8-CH isolated DO (sink type, open collector, supply voltage: 5-30V) - 1-CH auto measurement function (Timer that measures response interval between trigger input and trigger output) - Programmable interrupt functions
Camera Interface	4 IEEE802.3at GbE LAN port (PoE) 4 USB 3.0 port
Expansion Interface	1 x PCIe x16 Gen3 1 x PCIe x4 Gen3 1 x Full-size PCI Express Mini Card slot with USB & PCIe interface
Storage	2 x 2.5" swappable HDD (15 mm height) (RAID 0,1)
System Indicators	1 x Power LED 1 x HDD LED
Power Input	Type: ATX/AT Input: 24 VDC (uMin=19V/uMax=30V)
Operating Temperature	-10°C to +55°C (+14°F to +131°F) with 6th gen Intel® Core™ up to 35W and W.T. HDD/SSD* -10°C to +45°C (+14°F to +113°F) with 6th/7th gen Intel® Core™ up to 65W and W.T. HDD/SSD*
Storage Temperature	-20°C to +80°C (-4°F to +176°F)
Humidity	10% to 90%, non-condensing
Dimensions	188.1 mm (7.39") (W) x 192 mm (7.54") (H) x 230 mm (9.04") (D)
Weight (net/gross)	5 Kg (11.02 lb) / 6.1 Kg (13.45 lb)
Certifications	CE compliance
Software Support	AMS.AXView

* CPU support list please refer to the user's manual

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Ordering Information

System	
IPS962-512-PoE (P/N: E27A962100)	Vision system with LGA1151 socket 7th/6th gen Intel® Core™ i7/i5/i3 & Celeron® processor, Intel® Q170, 4 PoE, 4 USB 3.0, and real-time vision I/O

I/O Modules	
AX93511 (P/N: 8816G962020E)	4 x RS-232/422/485 (default RS-232)
AX93512 (P/N: 8816G962060E)	2 x RS-232/422/485 with isolated 1.5 kVDC protection & 8-in/8-out DIO with isolated 1.5 kVDC protection
AX93516 (P/N: 8816G962030E)	4 x RS-232/422/485 with isolated 1.5 kV
AX93519 (P/N:8816G964050E)	1 x 10/100/1000 Mbps Ethernet, 2 x USB 3.0 & 2 x RS-232/422/485 (default RS-232)
726G9620610E	Blank metal cover

Optional	
2.5" SATA HDD/SSD	
DDR4-2133/2400 un-buffered SO-DIMM max. up to 32GB	
AX92351 (P/N: E392351100)	32-in/32-out isolated 1.5 kV DIO module
826G9620020E / 8816G9621A0E	Wall mount bracket kit
50906D24000E	Adaptor 24V/120W, wire only
5A244AP1200E	44-pin DIN-rail terminal board DM44-AP12
594DM443500E	44-pin D-SUB cable, L=1m WHDM44/1.0-6954
594DM443510E	44-pin D-SUB cable, L=2m WHDM44/2.0-6954
594DM443520E	44-pin D-SUB cable, L=3m WHDM44/3.0-6954

* Specifications and certifications may vary based on different requirements.

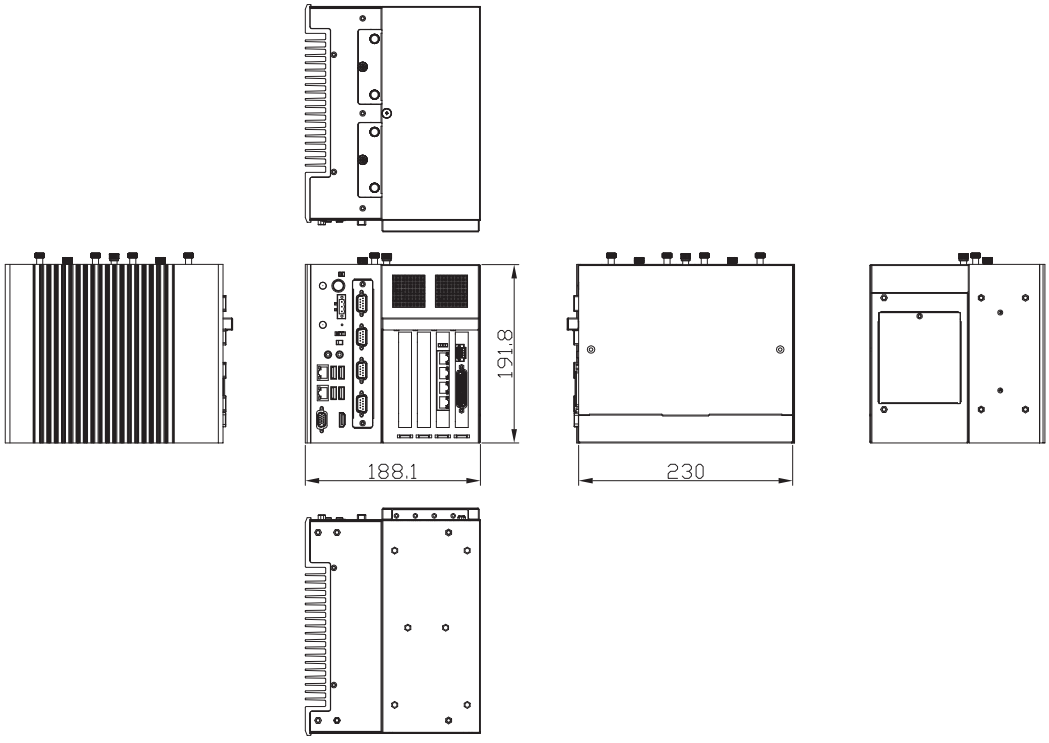
Power Protection

DC Version
OVP (over voltage protection)
SCP (short circuit protection)
OCP (over current protection)

Packing List

1 x IPS962-512-PoE
1 x Screw pack
4 x Foot pad
1 x CPU grease
1 x Terminal block
1 x Remote power switch cable
1 x Holder bracket
1 x CN-terminal block 4 x 2 for LED lighting control

Dimensions



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8 Industrial Chassis

Axiomtek's industrial chassis are easy maintainable, flexible design, reliable quality; abundant choice for two categories which are Backplane type and motherboard type. Axiomtek have various chassis, such as rack-mount for 1U, 2U, 4U, shoebox, wallmount, etc, for different application fields. Axiomtek have diversity of industrial know-how to supply right product in right application.

Selection Guide		266
AX60501	6-slot ShoeBox Chassis	267
AX60810	Wall Mount Chassis for ATX & mATX Standard Board	269
AX61131TM	1U Cost-effective Rackmount Chassis for ATX Motherboard	271
AX61223TM	2U Rackmount Chassis for ATX Motherboard	273
AX61410	4U 14-slot Rackmount Chassis	275
AX6156LE	COM Express Type 10 Mini Module with Intel® Pentium® Processor N4200 & Celeron® Processor N3350	277

Industrial Chassis

Selection Guide







Features/Models		AX60501	AX60810	AX61131TM
Height		-	-	1U
Number of Slots		6	7	1
Backplane Selection		FAB105, FAB109, FAB110, HAB206, ATX6022/6	N/A	N/A
MB Support		N/A	Yes, 12'' x 9.6''(ATX), 9.6'' x 9.6''(mATX)	Yes, 12" x 9.6" (ATX)
Drive Capacity	**5.25"**	1	1	N/A
	3.5"	2 (1 internal)	2	2 (internal)
Cooling System		1 x 9 cm	1 x 12 cm (with a removable filter)	2 x 4 cm
Fault Detection		N/A	N/A	N/A
Power Supply		PS/2 type	PS/2 type	1U type
Dimensions (W x D x H)		235 x 400 x 154.7 mm (9.25" x 15.8" x 6.1")	196 x 407.4 x 330 mm (7.716" x 16.039" x 12.992")	440 x 428 x 44mm (17.3" x 16.8" x 1.73")
Weight (net/gross)		9 kg (19.84 lb)/10.3 kg (22.7 lb)	9 kg (19.84 lb)/10.3 kg (22.7 lb)	9.8 kg (21.6 lb)/10.8 kg (23.81 lb)







Features/Models		AX61223TM	AX61410	AX6156LE
Height		2U	4U	4U
Number of Slots		2	14	14
Backplane Selection		N/A	FAB100, FAB101, FAB112, FAB113, FAB114, FAB118, FAB119, ATX6022/14, ATX6022/14G, ATX6022/13L, ATX6022/14GP7	FAB100, FAB101, FAB112, FAB113, FAB114, FAB118, FAB119, ATX6022/14, ATX6022/14G, ATX6022/14G, ATX6022/13
MB Support		Yes, 12" x 9.6" (ATX)	Yes, 12" x 9.6" (ATX)	Yes, 12" x 9.6" (ATX)
Drive Capacity	**5.25"**	1	3	3
	3.5"	3 (2 internal)	2 (1 internal)	1
Cooling System		1 x 8 cm	1 x 12 cm	1 x 12 cm
Fault Detection		N/A	N/A	N/A
Power Supply		PS/2 type	PS/2 type	PS/2 type (optional HRP)
Dimensions (W x D x H)		482.6 x 450 x 88 mm (19" x 17.7" x 3.5")	482.6 x 450 x 177 mm (19" x 17.7" x 7")	484.7 x 537.6 x 176.7 mm (19" x 21.2" x 7")
Weight (net/gross)		12 kg (26.45 lb)/13.5 kg (29.77 lb)	15 kg (33.07 lb)/16.3 kg (35.94 lb)	18 kg (39.68 lb)/19.5 kg (43 lb)

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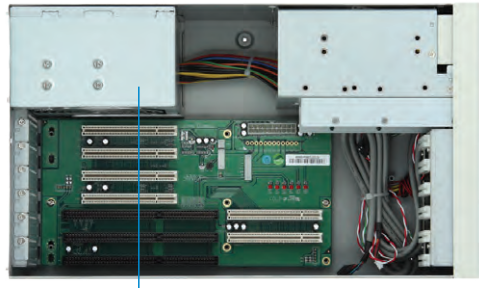
AX60501

6-slot ShoeBox Chassis

Features

- Desktop or wallmount industrial computer chassis
- One 5.25" and two 3.5" HDD drive bays
- Equipped with a PS/2 type power supply





Equipped with a power supply bracket securing the power supply better when the chassis is positioned in 90° orientation

▲ Top view

Specifications

Standard Color	Beige	
Construction	Heavy-duty steel	
Drive Capacity	Exposed	1 x 5.25" HDD drive bay 1 x 3.5" HDD drive bay
	Internal	1 x 3.5" HDD drive bay
Cooling	1 x 9 cm ball-bearing fan (51 CFM/each) with a removable filter	
Front Panel Indicators	1 x Power on/off	
Front Panel Controls	1 x Power on/off 1 x System reset	
Front Panel Connector	1 x PS/2 6-pin keyboard & mouse 2 x USB	
System Board	SBCs	
Expansion Interface	6-slot backplane	
Operating Temperature	0°C to +40°C (+32°F to +104°F)	
Dimensions	240.2 mm (9.45") (W) x 401.4 mm (15.8") (D) x 154.7 mm (6.1") (H)	
Weight (net/gross)	9 kg (19.84 lb)/10.3 kg (22.7 lb)	

Power Supply Specifications

Items	Watt	Specifications		
		Input	Output	MTBF
PS302-XP2	ATX 300W (PFC)	AC 100 to 240V (Auto)	+5V @ 16A +12V1 @ 17A +12V2 @ 17A -12V @ 0.3A +3.3V @ 19A +5VSB @ 2.5A	100,000 hours

Ordering Information

AX60501WB/X300	6-slot shoebox chassis with ATX 300W power supply
AX60501WB/X400	6-slot shoebox chassis with ATX 400W power supply
AX60501WB/X500	6-slot shoebox chassis with ATX 500W power supply

*Specifications and certifications are based on options and may vary.

Backplane Options

PICMG 1.0

Models	Slots per Segment (ISA/PCI/PCIe/CPU)	Segment
ATX6022/6	1/4/0/1	Single

PICMG 1.3

Models	Slots per Segment (ISA/PCI/PCIe/CPU)	Segment
FAB105	0/3/1/1	Single
FAB109	0/0/4/1	Single
FAB110	0/2/2/1	Single
HAB206	0/3/1/1	Single

Optional Items

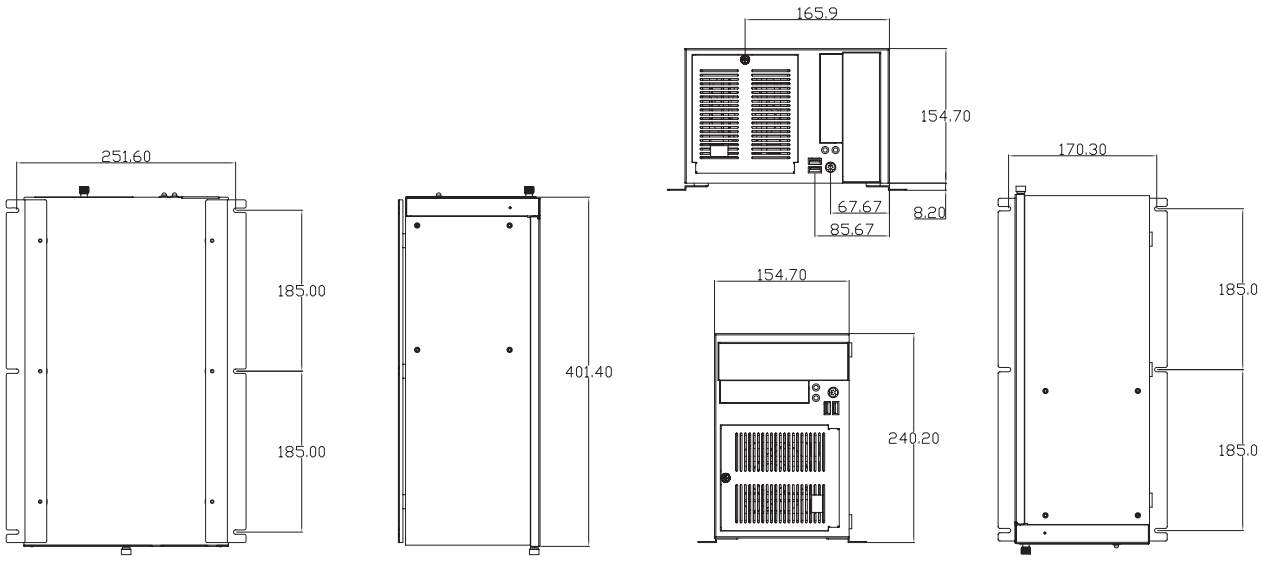
ATX 400W power supply with PFC
ATX 500W power supply with PFC

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Dimensions



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AX60810

Wall Mount Chassis for ATX and Micro-ATX Motherboards

Features

- Supports ATX/micro-ATX motherboard
- Front-accessible one 5.25"HDD and two 3.5" HDD drive bays
- Equipped with a PS/2 type power supply
- One 12cm ball-bearing fan
- Bidirectional mounting chassis
- Easy removable filer
- Flexible I/O opening on rear





▲ Top view



▲ Rear view

Specifications

Standard Color	Warm gray
Construction	Heavy-duty steel
System Board	ATX or mATX
Drive Capacity	Exposed 1 x 5.25" HDD drive bay 2 x 3.5" HDD drive bays
Cooling	1 x 12cm DC fan with a removable filter
Front Panel Indicators	1 x Power on/off 1 x HDD
Front Panel Controls	1 x Power on/off 1 x System reset
Front Panel Connector	2 x USB
Operating Temperature	0°C to +40°C (+32°F to +104°F)
Dimensions	196 mm (7.716") (W) x 407.4 mm (16.039") (D) x 330 mm (12.992") (H)
Weight (net/gross)	9 kg (19.84 lb)/10.3 kg (22.7 lb)

Ordering Information

AX60810WM/X300W	Wall mount chassis with ATX 300W power supply
AX60810WM/X400W	Wall mount chassis with ATX 400W power supply
AX60810WM/X500W	Wall mount chassis with ATX 500W power supply

*Specifications and certifications are based on options and may vary.

Optional Items

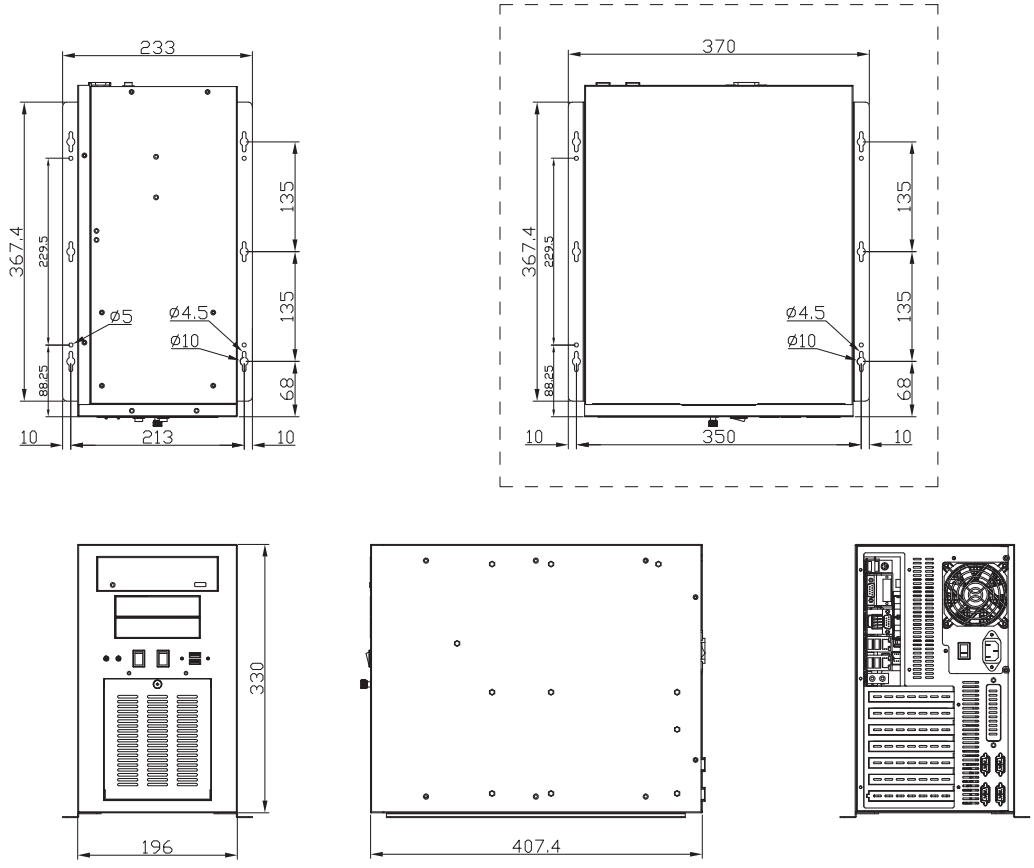
2 x 3.5" HDD diver bays bracket or 1 USB dongle kit

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Dimensions



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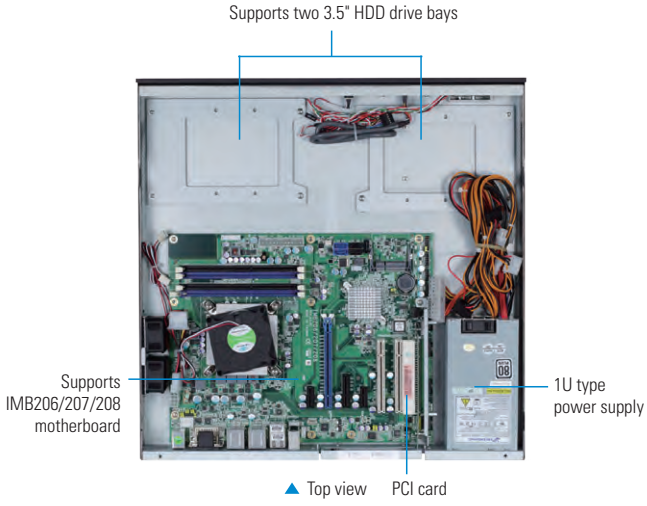
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AX61131TM

1U Cost-effective Rackmount Chassis for ATX Motherboard

Features

- Supports 12" x 9.6"standard ATX MB (IMB206/IMB207/IMB208)
- Two 4 cm system fan
- Supports 1U Flex ATX power supply
- Internal two 3.5 HDD drive bays



▲ Top view





▲ Front view



▲ Rear view

Specifications

Standard Color	Black
Construction	Heavy-duty steel
System Board	IMB206, IMB207, IMB208
Drive Capacity	Internal 2 x 3.5" HDD drive bay
Cooling	2 x 4 cm ball-bearing fan
Front Panel Indicators	1 x Power on/off 1 x HDD
Front Panel Controls	1 x Power on/off
Front Panel Connectors	2 x USB

Rear-Punched Panel	Rear 1 x 9-pin, 1 x 25-pin
Expansion Interface	1 x PCI slot (32 bits/33 MHz)
Operating Temperature	0°C to +40°C (+32°F to +104°F)
Dimensions	440 mm (17.3") (W) x 428 mm (16.8") (D) x44 mm (1.73") (H)
Weight (net/gross)	9.8 kg (21.6 lb)/10.8 kg (23.81 lb)

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Ordering Information

AX61131TM/X270	1U rackmount chassis with ATX 270W power supply

*Specifications and certifications are based on options and may vary.

Packing List

AX61131TM chassis x 1
CPU cooler x 1
PCI riser card bracket x 1
Screw pack x 1

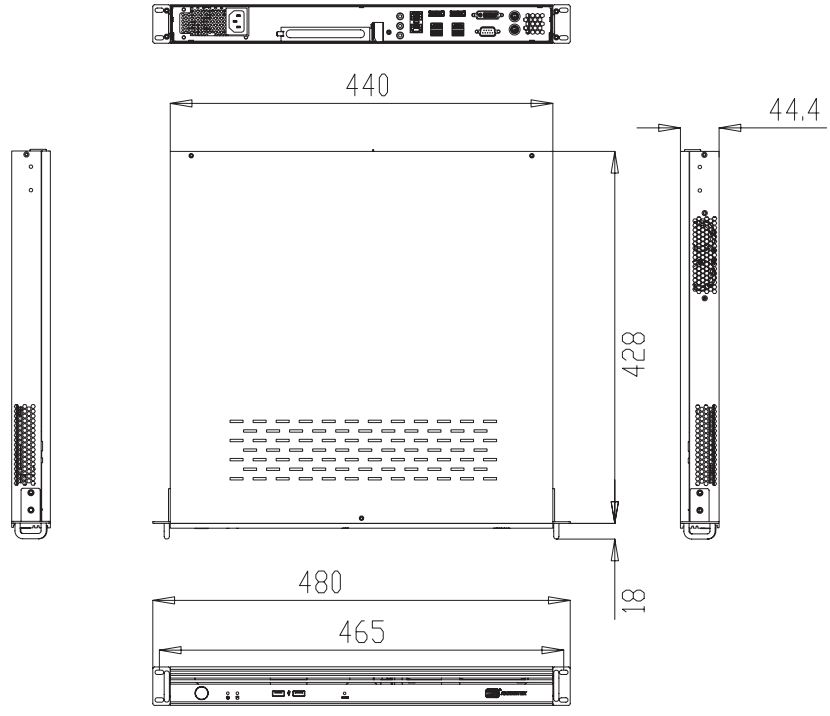
Recommended MB Selections

IMB206 with LGA1156 Heatsink (manufacture option)
IMB207 with LGA1156 Heatsink (manufacture option)
IMB208 with LGA1156 Heatsink (manufacture option)

Optional Item

E296200100	AX96200-RC 1-slot 32-bit PCI riser card

Dimensions



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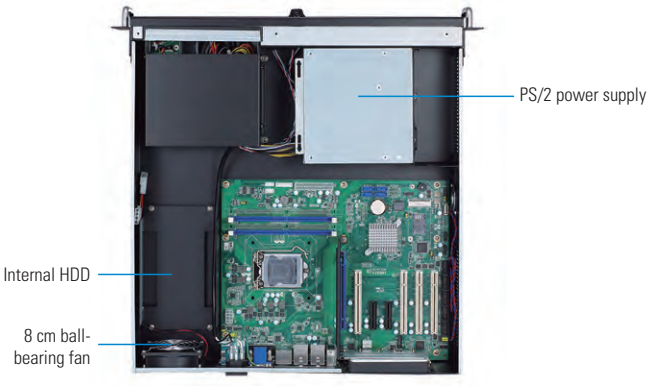
AX61223TM

2U Rackmount Chassis for ATX/Micro ATX/Mini-ITX Motherboard

Features

- Supports ATX/Micro ATX/Mini-ITX motherboard
- Supports ATX power supply
- Internal one 3.5" HDD drive bays
- Front-accessible one 3.5", one 5.25" HDD drive bays and one slim CD-ROM bay





▲ Top view



▲ Front view



▲ Rear view

Specifications

Standard Color	Black	
Construction	Heavy-duty steel	
System Board	ATX/Micro ATX/Mini-ITX Motherboard	
Drive Capacity	Exposed	1 x Slim-line CD-ROM bay 1 x 3.5" HDD drive bay 1 x 5.25" HDD drive bay
	Internal	1 x 3.5" HDD drive bay
Cooling	1 x 8 cm ball-bearing fan (38.6 CFM/each)	
Front Panel Indicators	1 x Power on/off 1 x HDD	
Front Panel Controls	1 x Power on/off 1 x System reset	

Front Panel Connectors	2 x USB 1 x PS/2 2 x USB (flexible USB kit, optional)
Rear Panel Connectors	2 x COM opening
Expansion Interface	By riser card (optional)
Speaker	1 x 0.3W speaker
Operating Temperature	0°C to +40°C (+32°F to +104°F)
Dimensions	481.40±1.0 mm (18.95") (W) x 450.00±1.0 mm (17.7") (D) x 88.90±1.0 mm (3.5") (H)
Weight (net/gross)	12 kg (26.45 lb)/13.5 kg (29.77 lb)

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Power Supply Specifications

Items	Watt	Input	Output	MTBF
PS302-XP2	ATX 300W (PFC)	AC 100 to 240V (Auto)	+3.3V @ 19A +5V @ 16A +12V1 @ 17A +12V2 @ 17A -12V @ 0.3A +5VSB @ 2.5A	100,000 hours
PS400-XP2	ATX 400W (PFC)	AC 90 to 264V (Auto)	+5V @ 20A +12V1 @ 16A +12V2 @ 16A -12V @ 0.5A +3.3V @ 20A +5VSB @ 2.5A	100,000 hours
PS500-XP2	ATX 500W (PFC)	AC 90 to 264V (Auto)	+5V @ 24A +12V @ 34A +12V1 @ 17A +12V2 @ 17A -12V @ 0.8A +3.3V @ 24A +5VSB @ 2.5A	100,000 hours

Ordering Information

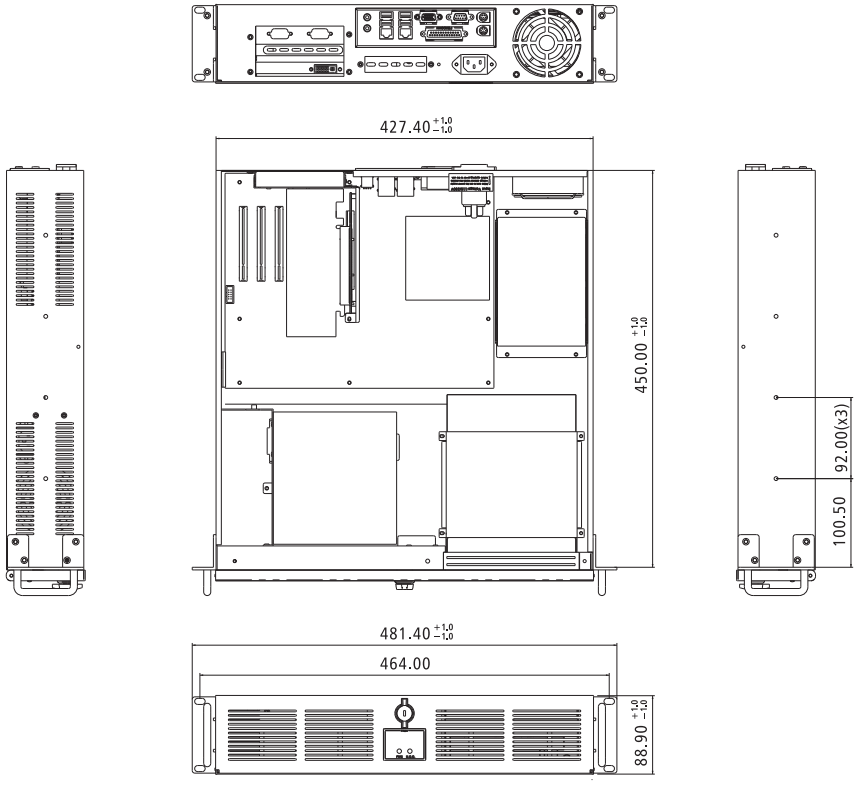
AX61223TM/X300	2U rackmount chassis with ATX 300W power supply
AX61223TM/X400	2U rackmount chassis with ATX 400W power supply
AX61223TM/X500	2U rackmount chassis with ATX 500W power supply

*Specifications and certifications are based on options and may vary.

Optional Items

5A009672200E	PCIe x16 to one PCIe x 16 riser card
5A009672100E	PCIe x16 to two PCIe x 8 riser card
59460642100E	Flexible rear COM I/O, 1 COM port cable, P=2.54 mm, L=300 mm
59460802800E	Flexible front USB I/O, 2 USB port cable, P=2.54 mm, L=600 mm

Dimensions



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AX61410

TP version: 4U 14-slot Rackmount Chassis for Full-size SHB/SBC series
TM version: 4U 7-slot Rackmount Chassis for ATX/Micro-ATX Motherboard

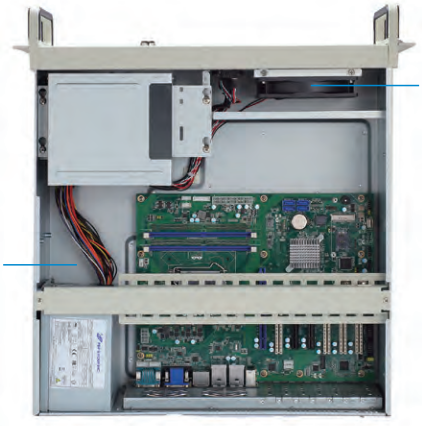
Features

- Desktop or wallmount industrial computer chassis
- Three 5.25"HDD and one 3.5" HDD drive bays
- ATX or redundant power supply (optional)
- Lockable front door
- AX61410TP:
  - Supports 14-slot backplane
  - Desktop or wall mount industrial computer chassis
  - Three 5.25"HDD and one 3.5" HDD drive bays
  - ATX or redundant power supply (optional)
  - Lockable front door
- AX61410TM:
  - Supports ATX, micro-ATX MB
  - Desktop or wallmount industrial computer chassis
  - Three 5.25"HDD and one 3.5" HDD drive bays
  - ATX or redundant power supply (optional)
  - Lockable front door





▲ Front view



▲ Top view



▲ Rear view

Specifications

Standard Color	Warm gray	
Construction	Heavy-duty steel	
System Board	TM version	ATX or mATX
	TP version	SBCs
Drive Capacity	Exposed	3 x 5.25" HDD drive bay 1 x 3.5" HDD drive bay
	Internal	1 x 3.5'' HDD
Cooling	1 x 12 cm DC fan with a removable filter	
Front Panel Indicators	1 x Power 1 x HDD	
Front Panel Controls	1 x Power on/off 1 x System reset	
Front Panel Connector	2 x USB (default) 2 x USB (optional)	

Operating Temperature	0°C to +40°C (+32°F to +104°F)
Dimensions	483mm (19.01") (W) x 480.9mm (18.93") (D) x 177mm (6.887") (H)
Weight (net/gross)	18 kg (39.68 lb)/19.5 kg (43 lb)
Speaker	Optional
Rear Panel	2 x COM opening, 2 x flexible I/O opening

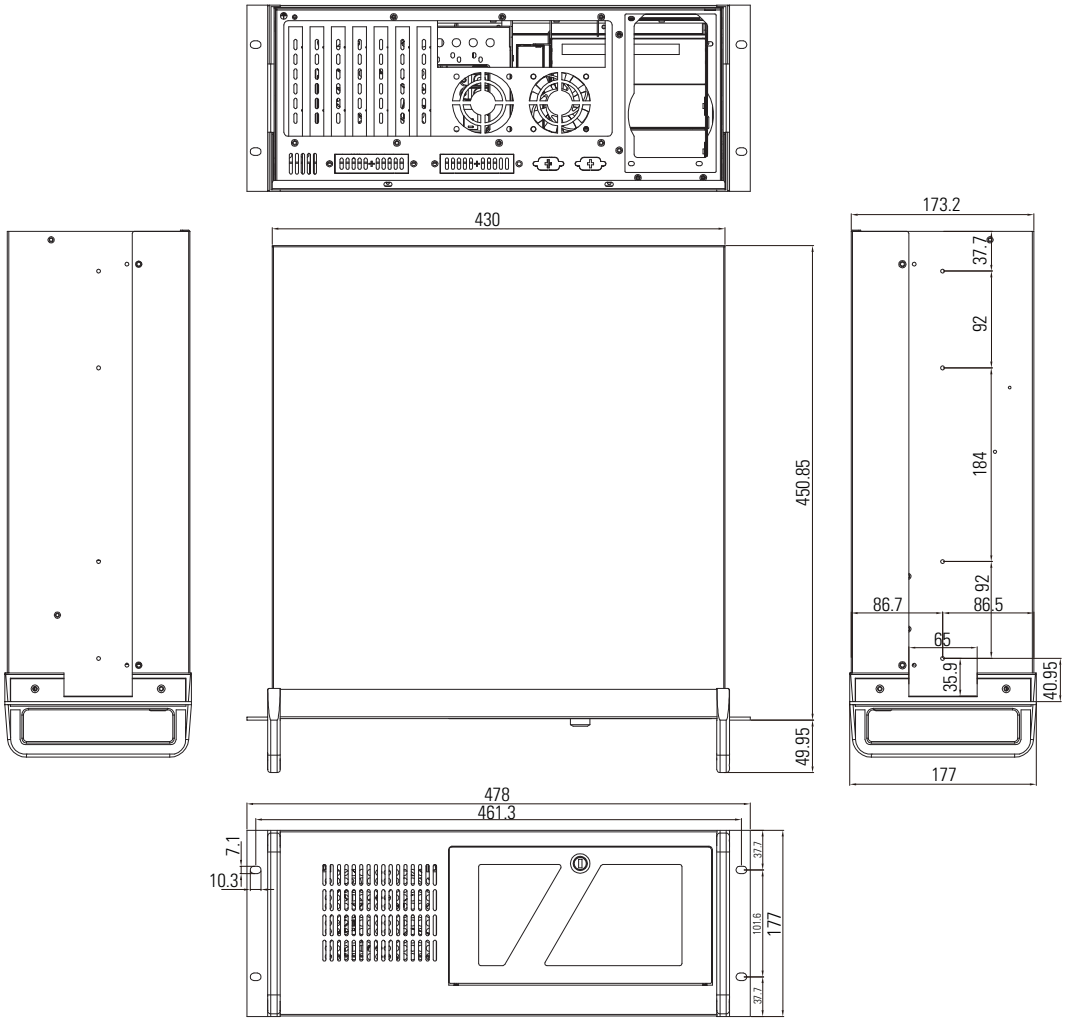
Ordering Information

AX61410TP	4U 14-slot rackmount chassis for full-size SBC
AX61410TM	4U 7-slot rackmount chassis for motherboard

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Dimensions



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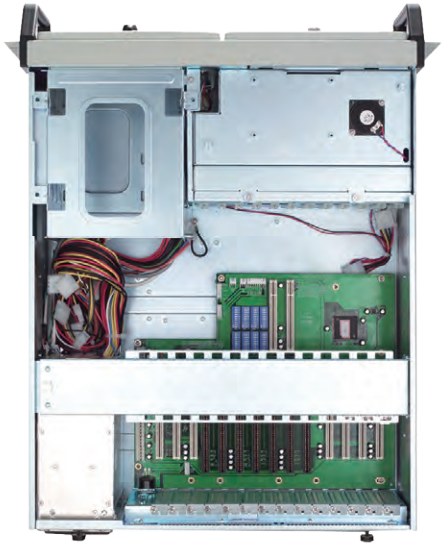
AX6156LE

4U 14-slot Rackmount Chassis

Features

- Three 5.25" and one 3.5" HDD drive bays
- One 12 cm ball-bearing fan (optional two 12 cm fans)
- Supports 14-slot backplane or ATX motherboard
- Hot-swap redundant power supply supported





▲ Top view



Specifications

Standard Color	Beige
Construction	Heavy-duty steel
Drive Capacitiy	Exposed 3 x 5.25" HDD drive bay 1 x 3.5" HDD drive bay
Cooling	1 x 12 cm ball-bearing fan (88 CFM/each) with a removable filter (optional two fans)Front Panel Indicators 1 x power on/off; 1 x HDD
Front Panel Controls	1 x Power on/off 1 x System reset
Front Panel Connectors	1 x USB 1x PS/2 5-pin keyboard

Pre-punched Panel	2 x 9-pin; 1 x DIN 5-pin keyboard
System Board	SBCs, ATX MB or IMB series
Expansion Interface	14-slot backplane
Speaker	1 x 0.3W speaker
Operating Temperature	0°C to +40°C (+32°F to +104°F)
Dimensions	484.7 mm (19") (W) x 537.6 mm (21.2") (D) x 176.7 mm (7") (H)
Weight (net/gross)	18 kg (39.68 lb)/19.5 kg (43 lb)

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Power Supply Specifications

Items	Watt	Specifications Input	Output	MTBF
PS302-XP2	ATX 300W (PFC)	AC 100 to 240V (Auto)	+5V @ 16A +12V1 @ 17A +12V2 @ 17A +3.3V @ 19A +5VSB @ 2.5A -12V @ 0.3A	100,000 hours
RPS400-HRP	ATX 400W HRP (PFC)	AC 90 to 264V (Auto)	+5V @ 35A +12V @ 28A -5V @ 0.5A -12V @ 1.2A +3.3V @ 25A +5VSB @ 2.0A	100,000 hours
PS400-XP2	ATX 400W (PFC)	AC 90 to 264V (Auto)	+5V @ 25A +12 @ 41A -12V @ 0.8A +3.3V @ 25A +5VSB @ 3.5A	100,000 hours
PS501-HRP	ATX 500W HRP (PFC)	AC 90 to 264V (Auto)	+5V @ 25A +12 @ 41A -12V @ 0.8A +3.3V @ 25A +5VSB @ 3.5A	100,000 hours

Ordering Information

AX6156LET(W)B/X300	14-slot version, with ATX 300W power supply
AX6156LET(W)B/X400	14-slot version, with ATX 400W power supply
AX6156LET(W)B/X300R	14-slot version, with ATX 300W redundant power supply
AX6156LET(W)M/X300	MB version, with ATX 300W power supply
AX6156LET(W)M/X400	MB version, with ATX 400W power supply
AX6156LET(W)M/X300R	MB version, with ATX 300W redundant power supply

*Specifications and certifications are based on options and may vary.

** T-Black color; W-Beige color

Backplane Options

PICMG 1.0

Models	Slots per Segment (ISA/PCI/PCIe/CPU)	Segment
ATX6022/13L	8/4/0/1	Single
ATX6022/14	9/4/0/1	Single
ATX6022/14G	1/12/0/1	Single
ATX6022/14GP7	6/7/0/1	Single

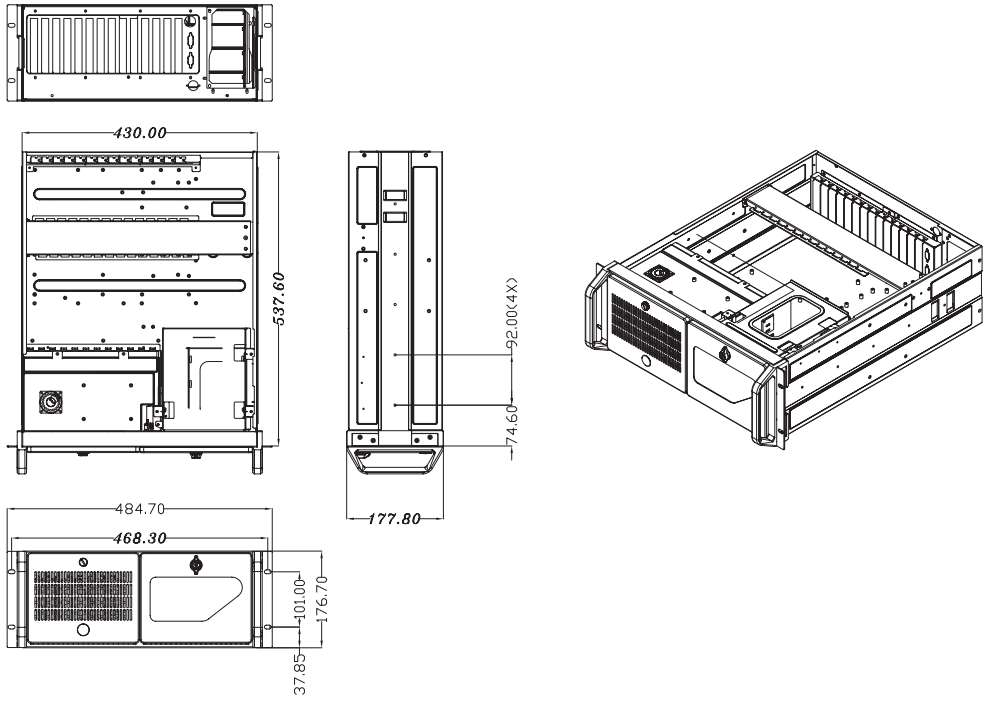
PICMG 1.3

Models	Slots per Segment (ISA/PCI/PCIe/CPU)	Segment
FAB100	4/4/5/1	Single
FAB101	0/13/0/1	Single
FAB112	0/10/2/1	Single
FAB113	0/4/8/1	Single
FAB114	0/8/4/1	Single
FAB118	0/7/6/1	Single
FAB119	0/10/2/1	Single

Optional Items

ATX 500W power supply with PFC
ATX 300W redundant power supply with PFC
ATX 500W redundant power supply with PFC

Dimensions



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Embedded Systems

Edge AI Systems

Transportation Embedded Systems & Switch

DIN-rail Embedded Systems

Embedded MicroBoxes

Industrial Systems

Machine Vision Systems

Industrial Chassis

Digital Signage Players

Systems and Platforms

9 Digital Signage Players

Axiomtek's advanced digital signage players have been chosen by many industry-leading retail stores and grocery chains, to enhance customers' shopping experience and improve store operation. Axiomtek's open pluggable specification signage solutions are compliant with standard Open Pluggable Specification (OPS) and Open Pluggable Specification Plus (OPS+) architecture. Axiomtek's OPS series delivers greater interoperability, lower total cost, and ease of maintenance without dismantling an entire signage system. The Digital Signage Player series (DSP series) is a powerful tool for the dissemination on of information and communication of messages for advertising in retail stores.

Selection Guide 281

OPS+ & OPS Series

OPS700-520	Open Pluggable Specification-Plus (OPS+) Digital Signage Player with 8th Gen Intel® Core™ i7/i5/i3 & Celeron® Processor, Intel® Q370 and TPM 2.0	284
OPS500-520-H	Open Pluggable Specification (OPS) Digital Signage Player with 8th Gen Intel® Core™ i7/i5/i3 & Celeron® Processor, Intel® H310 and TPM 2.0	285
OPS500-501	Open Pluggable Specification (OPS) Digital Signage Player with 6th/7th Gen Intel® Core™ i7/i5/i3 & Celeron® Processor, Intel® Q170 and AMT 11.0	286
OPS500-501-H	Open Pluggable Specification (OPS) Digital Signage Player with 7th/6th Gen Intel® Core™ i7/i5/i3 & Celeron® Processor and Intel® H110	287
OPS300-310	Open Pluggable Specification (OPS) Digital Signage Player with Intel® Celeron® Processor N3350 and TPM 2.0	288

DSP Series

NEW DSP600-211	4K Digital Signage Player with AMD Ryzen Embedded V1000 Series, 4 HDMI, 2 GbE LAN and 4 USB	289
NEW DSP501-527	Digital Signage Player with 8th Gen Intel® Core™ i7/i5/i3 & Celeron® Whiskey Lake Processor, DisplayPort++, HDMI, 5 USB and GbE LAN	290
NEW DSP500-523	Digital Signage Player with 8th Gen Intel® Core™ i7/i5/i3 & Celeron® (Coffee Lake) Processor, 3 HDMI 2.0, 4 USB and GbE LAN	291
DSP300-318	Digital Signage Player with Intel® Pentium® Processor N4200 & Celeron® Processor N3350, DisplayPort++, HDMI, 2 GbE LAN and 4 USB	292

OPS+ & OPS Digital Signage Players

Selection Guide







Features\Models	OPS700-520	OPS500-520-H	OPS500-501
CPU Level	LGA1151 socket 8th gen Intel® Core™ i7/i5/i3 and Celeron®, 35W TDP	LGA1151 socket 8th gen Intel® Core™ i7/i5/i3 and Celeron®, 35W TDP	7th/6th gen Intel® Core™ i7/i5/i3 and Celeron®
Chipset	Intel® Q370	Intel® H310	Intel® Q170
System Memory	2 x 260-pin DDR4-2400 SO-DIMM, up to 32GB	2 x 260-pin DDR4-2400 SO-DIMM, up to 32GB	1 x 260-pin DDR4-2133 SO-DIMM, up to 16GB
Pluggable Engine Box	Yes (OPS+ & OPS compliance)	Yes (OPS compliance)	Yes (OPS compliance)
Intel® AMT	AMT 11.0	N/A	AMT 11.0
TPM	TPM 2.0	TPM 2.0	N/A
I/O	2 x USB 2.0 2 x USB 3.1 Gen2 Type A 1 x RS-232 1 x 10/100/1000 Mbps Ethernet (Intel® i219-LM) 1 x HDMI with 4K/Full HD resolution 1 x Power on/off button 1 x Reset button 1 x 12 VDC power input (adapter available by option)	2 x USB 2.0 2 x USB 3.1 Gen1 Type A 1 x RS-232 1 x 10/100/1000 Mbps Ethernet (Intel® i219-LM) 1 x HDMI with 4K resolution 1 x Power on/off button 1 x Reset button 1 x 12 VDC power input (adapter available by option)	1 x USB 2.0 2 x USB 3.0 1 x RS-232 1 x 10/100/1000 Mbps Ethernet (Intel® i219-LM) 1 x HDMI with 4K resolution 1 x Audio (Mic-in & Line-out) 1 x Power on/off button 1 x Reset button 1 x 12 VDC power input (adapter available by option)
JAE TX-25A	1 x DisplayPort with 4K 60Hz supported 1 x HDMI 2.0 with 4K 60Hz supported 2 x USB 2.0 1 x USB 3.0 1 x Audio (Line-out) 1 x UART (TX/RX)	1 x DisplayPort with 4K 60Hz supported 1 x HDMI 2.0 with 4K 60Hz supported 2 x USB 2.0 1 x USB 3.0 1 x Audio (Line-out) 1 x UART (TX/RX)	1 x DisplayPort with 4K 60Hz supported 1 x HDMI 2.0 with 4K 60Hz supported 2 x USB 2.0 1 x USB 3.0 1 x Audio (Line-out) 1 x UART (TX/RX)
HRS FX-18	1 x DisplayPort with 4K 60Hz supported 1 x PCI Express x4	N/A	N/A
Storage	1 x M.2 Key M 2280 for SATA storage	1 x M.2 Key M 2280 for SATA storage	1 x 2.5" SATA HDD tray 1 x mSATA
Expansion Interface	1 x M.2 Key E 2230 for Wi-Fi	1 x M.2 Key E 2230 for Wi-Fi	1 x full-size PCI Express Mini Card slot (USB + PCIe + SATA)
Power Supply	12 to 19 VDC	12 to 19 VDC	12 to 19 VDC
Dimensions (W x D x H)	200 x 119 x 30 mm (7.87" x 4.68" x 1.18")	200 x 119 x 30 mm (7.87" x 4.68" x 1.18")	200 x 119 x 30 mm (7.87" x 4.68" x 1.18")
Weight (net/gross)	1 kg (2.21 lb)/1.5 kg (3.3 lb)	1 kg (2.21 lb)/1.5 kg (3.3 lb)	1 kg (2.2 lb)/1.5 kg (3.3 lb)
Operating Temperature	0°C to +45°C (+32°F to +113°F) (with airflow 1.2m/s)	0°C to +45°C (+32°F to +113°F) (with airflow 1.2m/s)	0°C to +45°C (+32°F to +113°F)
Certifications	CE, FCC Class A	CE, FCC Class A	CE

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Features\Models	OPS500-501-H	OPS300-310
CPU Level	7th/6th gen Intel® Core™ i7/i5/i3 and Celeron®	Intel® Celeron® N3350
Chipset	Intel® H110	SoC Integrated
System Memory	1 x 260-pin DDR4-2133 SO-DIMM, up to 16GB	1 x 204-pin DDR3L-1600 SO-DIMM, up to 8GB
Pluggable Engine Box	Yes (OPS compliance)	Yes (OPS compliance)
Intel® AMT	N/A	N/A
TPM	N/A	TPM 2.0
I/O	1 x USB 2.0 2 x USB 3.0 1 x RS-232 1 x 10/100/1000 Mbps Ethernet (Intel® i219-LM) 1 x HDMI with 4K resolution 1 x Audio (Mic-in & Line-out) 1 x Power on/off button 1 x Reset button 1 x 12 VDC power input (adapter available by option)	2 x USB 2.0 1 x USB 3.0 1 x 10/100/1000 Mbps Ethernet (RTL8111E) 1 x VGA 1 x Audio (Mic-in & Line-out) 1 x Power on/off button 1 x Reset button
JAE TX-25A	1 x DisplayPort with 4K 60Hz supported 1 x HDMI 2.0 with 4K 60Hz supported 2 x USB 2.0 1 x USB 3.0 1 x Audio (Line-out) 1 x UART (TX/RX)	1 x DisplayPort with 4K 60Hz supported 1 x HDMI 2.0 with 4K 60Hz supported 2 x USB 2.0 1 x USB 3.0 1 x Audio (Line-out) 1 x UART (TX/RX)
HRS FX-18	N/A	N/A
Storage	1 x 2.5" SATA HDD tray 1 x mSATA	1 x 2.5" SATA HDD tray 1 x mSATA
Expansion Interface	1 x full-size PCI Express Mini Card slot (USB + PCIe + SATA)	1 x full-size PCI Express Mini Card slot (USB + PCIe + SATA) 1 x M.2 Key E 2230 for Wi-Fi 1 x SIM slot
Power Supply	12 to 19 VDC	12 to 19 VDC
Dimensions (W x D x H)	200 x 119 x 30 mm (7.87" x 4.68" x 1.18")	200 x 119 x 30 mm (7.87" x 4.68" x 1.18")
Weight (net/gross)	1 kg (2.2 lb)/1.5 kg (3.3 lb)	1 kg (2.2 lb)/1.5 kg (3.3 lb)
Operating Temperature	0°C to +45°C (+32°F to +113°F)	0°C to +45°C (+32°F to +113°F)
Certifications	CE	CE, FCC Class A

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Digital Signage Players

Selection Guide

NEW



NEW



NEW





Features\Models	DSP600-211	DSP501-527	DSP500-523	DSP300-318
CPU Level	AMD Ryzen™ Embedded V1807B/ V1605B/V1202B	Intel® Core™ i7/i5/i3 or Celeron® processor	Intel® Core™ i7/i5/i3 or Pentium® processor	Intel® Pentium® N4200 & Celeron® N3350 onboard
Chipset	SoC integrated	SoC integrated	Intel® Q370	SoC integrated
System Memory	2 x 260-pin DDR4-2400 SO-DIMM, up to 32GB	2 x 260-pin DDR4-2400 SO-DIMM, up to 32GB	2 x 260 pin DDR4-2666 SO-DIMM, up to 32GB	2 x DDR3L-1600 SO-DIMM, up to 8GB
Pluggable Engine Box	N/A	N/A	N/A	N/A
Intel® AMT	N/A	AMT 11	AMT 11	N/A
TPM	TPM 2.0	TPM 2.0	TPM 2.0	N/A
I/O	2 x USB 3.0 2 x USB 2.0 2 x GbE LAN 1 x Device management 4 x HDMI 2.0 2 x RS-232 DB9 1 x Line-out 1 x SIM card 1 x Power switch 1 x Reset switch 1 x Remote switch 1 x VDC power input connector 4 x Antenna opening	4 x USB 3.0 1 x USB 2.0 1 x GbE LAN 1 x Device management 1 x HDMI 2.0 1 x HDMI 1.4 1 x DisplayPort++ 1 x RS-232 DB9 1 x Line-out 1 x Mic-in 1 x Power switch 1 x Reset switch 1 x Remote switch 1 x Screw type VDC power input connector 4 x Antenna opening	1 x GbE LAN 4 x USB 3.1 2 x HDMI 2.0 or 3 x HDMI 2.0 1 x Line-out 1 x RS-232 1 x Device management 1 x Remote switch 1 x Screw type VDC power input 1 x VDC power input connector 4 x Antenna opening	3 x USB 3.0 1 x USB 2.0 1 x GbE LAN 1 x Device management 1 x HDMI 1.4 1 x DisplayPort 1.2 1 x RS-232 DB9 1 x Line-out 1 x Mic-in 1 x Power switch 1 x Reset switch 1 x Remote switch 1 x Screw type VDC power input connector 4 x Antenna opening
Storage	1 x M.2 Key M 2280 (SATA) 1 x M.2 Key M 2280 (NVMe)	1 x M.2 Key M 2280 (SATA & NVMe)	1 x M.2 Key M 2280 (SATA & NVMe)	1 x M.2 Key M 2280 (SATA & NVMe)
Expansion Interface	1 x M.2 Key E 2230 for Wi-Fi/BT 1 x M.2 Key B 3042 for 4G/LTE 1 x SIM card slot	1 x M.2 Key E 2230 for Wi-Fi/BT 1 x M.2 Key B 3042 for 4G/LTE 1 x SIM card slot	1 x M.2 Key E 2230 for Wi-Fi/BT 1 x M.2 Key B 3042 for 4G/LTE 1 x SIM card slot	1 x M.2 Key E 2230 for Wi-Fi/BT 1 x M.2 Key B 3042 for 4G LTE 1 x SIM card slot
Power Supply	+12V DC-in	+12V DC-in	+12V DC-in	+12V DC-in
Dimensions (W x D x H)	250 x 182.8 x 30 mm (9.84" x 7.19" x 1.18")	197.6 x 157.6 x 26 mm (7.79" x 6.22" x 1.02")	202 x 196 x 39 mm (7.95" x 7.71" x 1.53")	200 x 137.8 x 20 mm (7.87" x 5.42" x 0.78")
Weight (net/gross)	1.9kg (4.18 lb)/2.9kg (6.39 lb)	1.3kg (2.86 lb)/2.3kg (5.07 lb)	1.8kg (3.96 lb)/2.8kg (6.17 lb)	0.90 kg (1.98 lb)/1.57 kg (3.45 lb)
Operating Temperature	0°C to +45°C (+32°F to +113°F)	0°C to +50°C (+32°F to +122°F)	0°C to +45°C (+32°F to +113°F)	0°C to +50°C (+32°F to +122°F)
Certifications	CE, FCC Class A	CE, FCC Class A	CE, FCC Class A	CE, FCC class A

* All specifications and photos are subject to change without notice. www.axiomtek.com

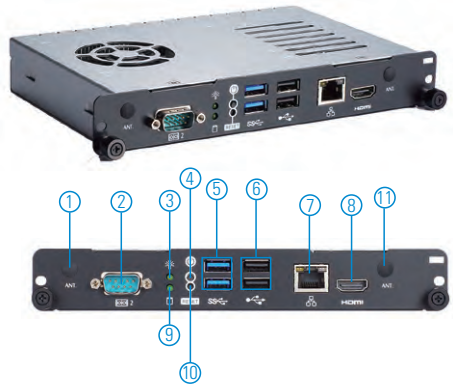
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OPS700-520

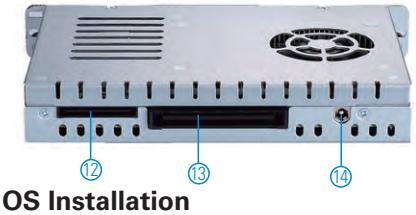
Open Pluggable Specification-Plus (OPS+) Digital Signage Player with LGA1151 Socket 8th Gen Intel® Core™ i7/i5/i3 & Celeron® Processor, Intel® Q370 and TPM 2.0

Features

- Intel® Open Pluggable Specification-Plus (OPS+ compliance)
- 8th gen Intel® Core™ i7/i5/i3 & Celeron® processors (Coffee Lake-S)
- 2 DDR4-2400 SO-DIMM for up to 32GB of memory
- 1 M.2 Key M for SATA storage
- 1 M.2 Key E for Wi-Fi solution
- Supports additional DisplayPort and PCIe x4 through HRS-FX18 connector
- Supports Intel® AMT 11.0 and Intel® Unite
- Supports Trusted Platform Module (TPM) 2.0
- Easy installation and maintenance



1. Optional antenna
2. RS-232
3. Power indicator
4. Power button
5. USB 3.1 Gen2
6. USB 2.0
7. LAN
8. HDMI
9. Storage indicator
10. Reset button
11. Optional antenna
12. HRS-FX18
13. JAE TX-25A
14. 12 VDC power input





Specifications

CPU	LGA1151 socket 8th gen Intel® Core™ i7/i5/i3 & Celeron® processor, 35W TDP
Chipset	Intel® Q370
System Memory	2 x 260-pin DDR4-2400 SO-DIMM, up to 32GB
Storage	1 x M.2 Key M for SATA storage
Watchdog Timer	255 levels, 1 to 255 sec.
TPM	TPM 2.0
Intel® AMT	Intel® AMT 11.0
I/O	2 x USB 3.1 Gen2 Type A 2 x USB 2.0 1 x RS-232 1 x 10/100/1000 Mbps Ethernet (Intel® i219-LM) 1 x HDMI with 4K/Full HD resolution (Default: Full HD) 1 x Power on/off button 1 x Reset button 1 x 12 VDC power input (adapter available by option)
JAE TX-25A	1 x DisplayPort with 4K 60Hz supported 1 x HDMI 2.0 with 4K 60Hz supported 2 x USB 2.0 1 x USB 3.0 1 x Audio (Line-out) 1 x UART (TX/RX)
HRS FX-18	1 x DisplayPort with 4K 60Hz supported 1 x PCI Express x4
Indicator	1 x LED for system power on 1 x LED for storage active
Expansion Interface	1 x M.2 Key E 2230 for Wi-Fi
Dimensions	200 mm (7.87") (W) x 119 mm (4.68") (D) x 30 mm (1.18") (H)
Packing Dimensions	270 mm (10.63") (W) x 197 mm (7.76") (D) x 70 mm (276") (H)
Weight (net/gross)	1 kg (2.21lb)/1.5 kg (3.3 lb)
Operating Temperature	0°C to +45°C (+32°F to +113°F) (with airflow 1.2m/s)
Certifications	CE, FCC Class A

Packing List

1 x Driver CD
1 x Thermal grease
2 x M2 x5 screw
2 x M4 x6 screw

Optional OS Installation

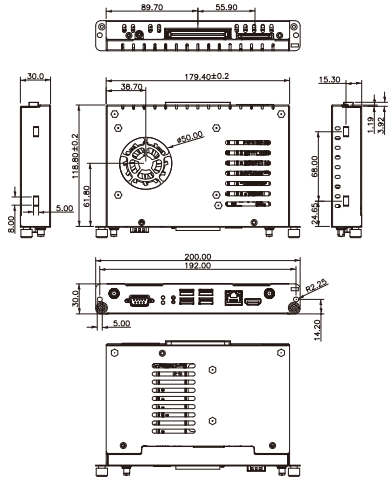
Windows® 10 64-bit, Linux

Ordering Information

Standard	
OPS700-520	OPS+ digital signage player with LGA1151 socket Intel® Core™ i7/i5/i3 & Celeron® processors, Intel® Q370 and TPM 2.0
Optional	
AX93197	OPS+ docking board with 4K @ 60Hz resolution (PCIe x4 and DisplayPort interfaces supported via HRS connector)
WLAN Kit	Wi-Fi module and antenna

* Specifications and certifications may vary based on different requirements.

Dimensions



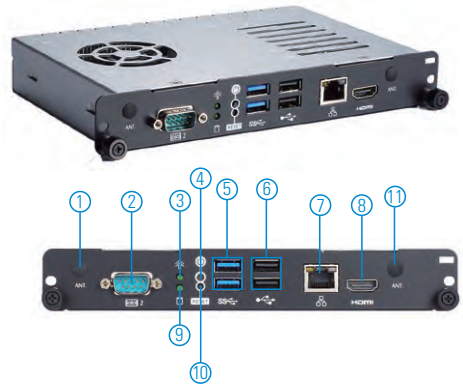
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OPS500-520-H

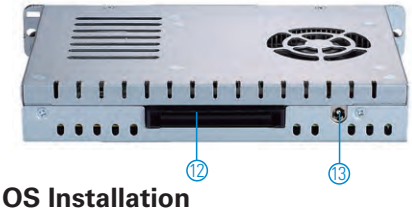
Open Pluggable Specification (OPS) Digital Signage Player with LGA1151 Socket 8th Gen Intel® Core™ i7/i5/i3 & Celeron® Processor, Intel® H310 and TPM 2.0

Features

- Intel® Open Pluggable Specification (OPS compliance)
- 8th gen Intel® Core™ i7/i5/i3 & Celeron® processors (Coffee Lake-S)
- 2 DDR4-2400 SO-DIMM for up to 32GB of memory
- 1 M.2 Key M for SATA storage
- 1 M.2 Key E for Wi-Fi solution
- USB 3.1 Gen1 supported
- Supports Trusted Platform Module (TPM) 2.0
- Easy installation and maintenance



1. Optional antenna
2. RS-232
3. Power indicator
4. Power button
5. USB 3.1 Gen1
6. USB 2.0
7. LAN
8. HDMI 1.4b
9. Storage indicator
10. Reset button
11. Optional antenna
12. JAE TX-25A
13. 12 VDC power input





Specifications

CPU	LGA1151 socket 8th gen Intel® Core™ i7/i5/i3 and Celeron® processor, 35W TDP
Chipset	Intel® H310
System Memory	2 x 260-pin DDR4-2400 SO-DIMM, up to 32GB
Storage	1 x M.2 Key M for SATA storage
Watchdog Timer	255 levels, 1 to 255 sec.
TPM	TPM 2.0
Intel® AMT	N/A
I/O	2 x USB 3.1 Gen1 Type A 2 x USB 2.0 1 x RS-232 1 x 10/100/1000 Mbps Ethernet (Intel® i219-LM) 1 x HDMI 1.4b with 4K resolution 1 x Power on/off button 1 x Reset button 1 x 12 VDC power input (adapter available by option)
JAE TX-25A	1 x DisplayPort with 4K 60Hz supported 1 x HDMI 2.0 with 4K 60Hz supported 2 x USB 2.0 1 x USB 3.0 1 x Audio (Line-out) 1 x UART (TX/RX)
HRS FX-18	N/A
Indicator	1 x LED for system power on 1 x LED for storage active
Expansion Interface	1 x M.2 Key E 2230 for Wi-Fi
Dimensions	200 mm (7.87") (W) x 119 mm (4.68") (D) x 30 mm (1.18") (H)
Packing Dimension	270 mm (10.63") (W) x 197 mm (7.76") (D) x 70 mm (2.76") (H)
Weight (net/gross)	1 kg (2.21 lb)/1.5 kg (3.3 lb)
Operating Temperature	0°C to +45°C (+32°F to +113°F) (with airflow 1.2m/s)
Certifications	CE, FCC Class A

Packing List

1 x Driver CD
1 x Thermal grease
2 x M2 x5 screw
2 x M4 x6 screw

Optional OS Installation

Windows® 10 64-bit, Linux

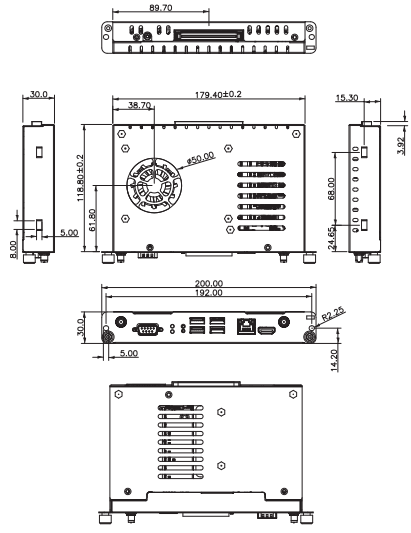
Ordering Information

Standard	
OPS500-520-H	OPS digital signage player with LGA1151 socket Intel® Core™ i7/i5/i3 & Celeron® processor, Intel® H310 and TPM 2.0

Optional	
AX93190	OPS docking board with 4K @ 60Hz resolution
WLAN Kit	Wi-Fi module and antenna

* Specifications and certifications may vary based on different requirements.

Dimensions



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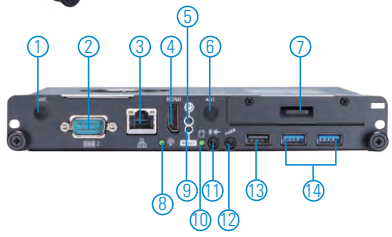
OPS500-501

Open Pluggable Specification (OPS) Digital Signage Player with LGA1151 Socket
7th/6th Gen Intel® Core™ i7/i5/i3 & Celeron® Processor, Intel® Q170 and Intel® AMT 11.0

Features

- Intel® Open Pluggable Specification (OPS compliance)
- 7th/6th gen Intel® Core™ i7/i5/i3 & Celeron® processors (Kaby Lake/Skylake)
- 1 DDR4-2133 SO-DIMM for up to 16GB of memory
- 1 PCI Express Mini Card slot
- HDMI for 2nd Ultra HD display with 4K @ 60Hz resolution
- Supports Intel® Active Management Technology (AMT) 11.0
- Easy installation and maintenance





1. Optional antenna
2. RS-232
3. LAN
4. HDMI 1.4b
5. Power button
6. Optional antenna
7. 2.5" SATA HDD
8. Power indicator
9. Reset button
10. Storage indicator
11. Audio (Line-out)
12. Audio (Mic-in)
13. USB 2.0
14. USB 3.0
15. JAE TX-25A
16. 12 VDC power input





Specifications

CPU	LGA1151 socket 7th/6th gen Intel® Core™ i7/i5/i3 & Celeron® processor
Chipset	Intel® Q170
System Memory	7th gen Intel® Core™ processor: 1 x 260-pin DDR4-2133/2400 SO-DIMM, up to 16GB 6th gen Intel® Core™ processor: 1 x 260-pin DDR4-2133 SO-DIMM, up to 16GB
Storage	1 x 2.5" SATA HDD tray 1 x mSATA (optional)
Watchdog Timer	255 levels, 1 to 255 sec.
TPM	N/A
Intel® AMT	Intel® AMT 11.0
I/O	2 x USB 3.0 1 x USB 2.0 1 x 10/100/1000 Mbps Ethernet (Intel® i219-LM) 1 x HDMI 1.4b with 4K resolution 1 x RS-232 1 x Power on/off button 1 x Reset button 1 x Audio (Line-out & Mic-in) 1 x 12 VDC power input (adapter available by option)
JAE TX-25A	1 x DisplayPort 1 x HDMI 2.0 2 x USB 2.0 1 x USB 3.0 1 x Audio (Line-out) 1 x UART (TX/RX)
HRS FX-18	N/A
Indicator	1 x LED for system power on 1 x LED for HDD active
Expansion Interface	1 x Full-size PCI Express Mini Card slot (USB + PCI Express + SATA signal)
Dimensions	200 mm (7.87") (W) x 119 mm (4.68") x 30 mm (1.18")
Packing Dimensions	270 mm (10.63") (W) x 197 mm (7.76") x 70 mm (276")
Weight (net/gross)	1 kg (2.21lb)/1.5 kg (3.3 lb)
Operating Temperature	0°C to +45°C (+32°F to +113°F) (with airflow 1.2m/s)
Certifications	CE

Packing List

1 x Driver CD
1 x Thermal grease
2 x M2 x5 screw
2 x M4 x5 screw

Optional OS Installation

Windows® 8.1, Windows® 10

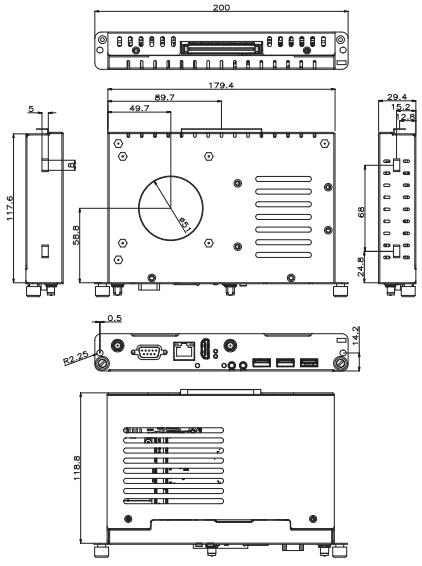
Ordering Information

Standard	
OPS500-501	OPS digital signage player with LGA1151 socket Intel® Core™ i7/i5/i3 & Celeron® processors and Intel® AMT 11.0

Optional	
AX93167	OPS docking board with 4K resolution
AX93190	OPS docking board with 4K @ 60Hz resolution
WLAN Kit	Wi-Fi module and antenna

* Specifications and certifications may vary based on different requirements.

Dimensions



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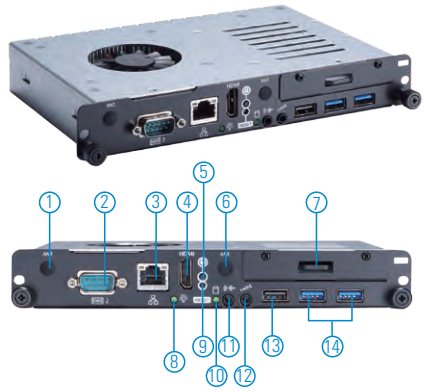
OPS500-501-H

Open Pluggable Specification (OPS) Digital Signage Player with LGA1151 Socket 7th/6th Gen Intel® Core™ i7/i5/i3 & Celeron® Processor and Intel® H110

Features

- Intel® Open Pluggable Specification (OPS compliance)
- 7th/6th gen Intel® Core™ i7/i5/i3 & Celeron® processors (Kaby Lake/Skylake)
- DDR4-2133/2400 SO-DIMM for up to 16GB of memory
- 1 PCI Express Mini Card slot
- HDMI for 2nd ultra HD display with 4K @ 60Hz resolution
- Easy installation and maintenance

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1. Optional antenna
2. RS-232
3. LAN
4. HDMI 1.4b
5. Power button
6. Optional antenna
7. 2.5" SATA HDD
8. Power indicator
9. Reset button
10. Storage indicator
11. Audio (Line-out)
12. Audio (Mic-in)
13. USB 2.0
14. USB 3.0
15. JAE TX-25A
16. 12 VDC power input



Intel OPS | USB 3.0 | DDR4 | 4K Ultra HD

Specifications

CPU	LGA1151 socket 7th/6th gen Intel® Core™ and Celeron® processor
Chipset	Intel® H110
System Memory	7th gen Intel® Core™ processor: 1 x 260-pin DDR4-2133/2400 SO-DIMM, up to 16GB 6th gen Intel® Core™ processor: 1 x 260-pin DDR4-2133 SO-DIMM, up to 16GB
Storage	1 x 2.5" SATA HDD tray 1 x mSATA (Option)
Watchdog Timer	255 levels, 1 to 255 sec.
TPM	N/A
Intel® AMT	N/A
I/O	2 x USB 3.0 1 x USB 2.0 1 x 10/100/1000 Mbps Ethernet (Intel® i219-LM) 1 x HDMI 1.4b with 4K resolution 1 x RS-232 1 x Power on/off button 1 x Reset button 1 x Audio (Line-out & Mic-in) 1 x 12 VDC power input (adapter available by option)
JAE TX-25A	1 x DisplayPort 1 x HDMI 2.0 2 x USB 2.0 1 x USB 3.0 1 x Audio (Line-out) 1 x UART (TX/RX)
HRS FX-18	N/A
Indicator	1 x LED for system power on 1 x LED for HDD active
Expansion Interface	1 x Full-size PCI Express Mini Card slot (USB + PCI Express + SATA Signal)
Dimensions	200 mm (7.87") (W) x 119 mm (4.68") x 30 mm (1.18")
Packing Dimensions	270 mm (10.63") (W) x 197 mm (7.76") x 70 mm (2.76")
Weight (net/gross)	1 kg (2.21 lb)/1.5 kg (3.3 lb)
Operating Temperature	0°C to +45°C (+32°F to +113°F) (with airflow 1.2m/s)
Certifications	CE

Packing List

1 x Driver CD
1 x Thermal grease
2 x M2 x5 screw
2 x M4 x6 screw

Optional OS Installation

Windows® 8.1, Windows® 10

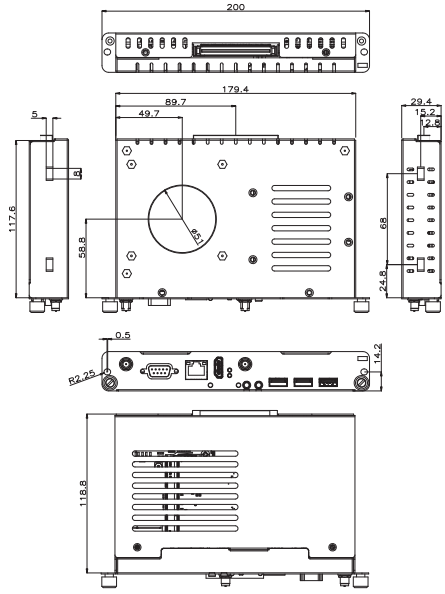
Ordering Information

Standard	
OPS500-501-H	OPS digital signage player with LGA1151 socket Intel® Core™ i7/i5/i3 & Celeron® processor and Intel® H110

Optional	
AX93167	OPS docking board with 4K solution
AX93190	OPS docking board with 4K @ 60Hz solution
WLAN Kit	Wi-Fi module and antenna

* Specifications and certifications may vary based on different requirements.

Dimensions



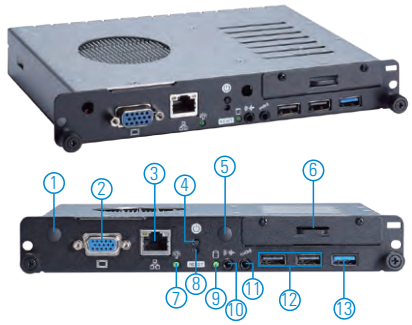
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OPS300-310

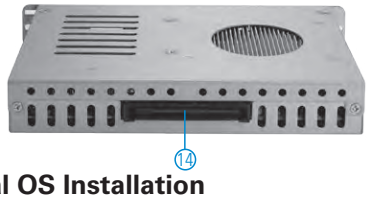
Open Pluggable Specification (OPS) Digital Signage Player with Intel® Celeron® Processor N3350 and TPM 2.0

Features

- Intel® Open Pluggable Specification (OPS) compliance
- Built-in Intel® Celeron® processor N3350 (fanless)
- DisplayPort & HDMI 2.0 for 4K @ 60Hz resolution
- Supports Trusted Platform Module (TPM) 2.0
- VGA for external display
- Easy installation and maintenance



1. Optional antenna
2. VGA
3. LAN
4. Power button
5. Optional antenna
6. 2.5"SATA HDD
7. Power indicator
8. Reset button
9. Storage indicator
10. Audio (Line-out)
11. Audio (Mic-in)
12. USB 2.0
13. USB 3.0
14. JAE TX-25A





Specifications

CPU	Intel® Celeron® processor N3350, up to 2.4 GHz (Apollo Lake)
Chipset	SoC integrated
System Memory	1 x 204-pin DDR3L-1600 SO-DIMM, up to 8GB
Storage	1 x 2.5" SATA HDD tray 1 x mSATA (optional)
BIOS	AMI UEFI BIOS
Watchdog Timer	255 levels, 1 to 255 sec.
TPM	TPM 2.0
Intel® AMT	N/A
I/O	1 x USB 3.0 2 x USB 2.0 1 x 10/100/1000 Mbps Ethernet (RTL8111E) 1 x VGA 1 x Power on/off button 1 x Reset button 1 x Audio (Line-out & Mic-in)
JAE TX-25A	1 x DisplayPort with 4K 60Hz supported 1 x HDMI 2.0 with 4K 60Hz supported 2 x USB 2.0 1 x USB 3.0 1 x Audio (Line-out/Mic-in) 1 x UART (TX/RX)
HRS FX-18	N/A
Indicator	1 x LED for system power on 1 x LED for HDD active
Expansion Interface	1 x Full-size PCI Express Mini Card slot 1 x M.2 2230 KEY E for Wi-Fi Kit 1 x SIM slot
Dimensions	200 mm (7.87") (W) x 119 mm (4.68") x 30 mm (1.18")
Packing Dimensions	270 mm (10.63") (W) x 197 mm (7.76") x 70 mm (2.76")
Weight (net/gross)	1 kg (2.21 lb)/1.5 kg (3.31 lb)
Operating Temperature	0°C to +45°C (+32°F to +113°F) (with airflow 0.7 m/s)
Certifications	CE, FCC Class A

Packing List

1 x Driver CD
1 x HDD mylar
1 x Thermal pad
2 x M3 x4 screw
2 x M4 x6 screw

Optional OS Installation

Windows® 10 64-bit

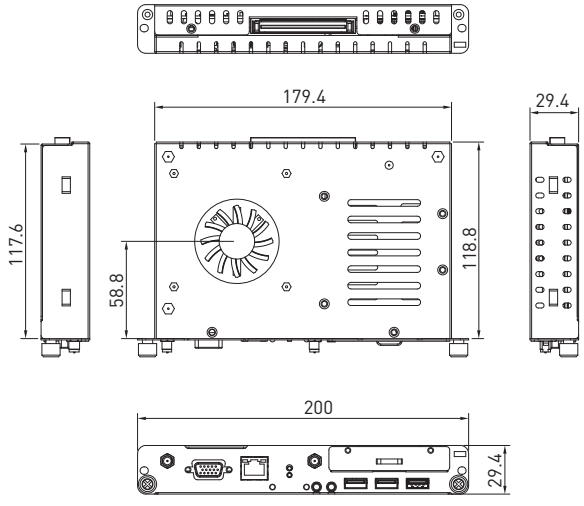
Ordering Information

Standard	
OPS300-310	OPS digital signage player with Intel® Celeron® processor N3350 and TPM 2.0

Optional	
AX93167	OPS docking board with 4K resolution
AX93190	OPS docking board with 4K @ 60Hz resolutions
WLAN/WWAN Kit	Wi-Fi module and antenna

* Specifications and certifications may vary based on different requirements.

Dimensions



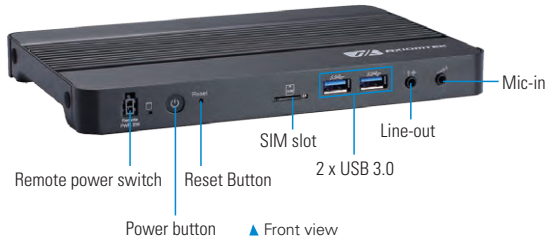
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DSP300-318

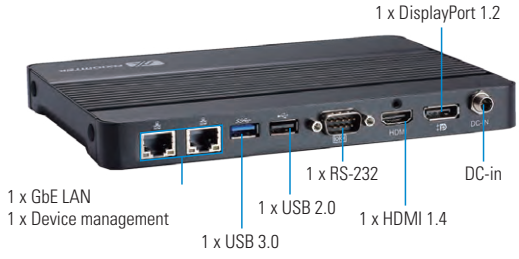
Digital Signage Player with Intel® Pentium® Processor N4200 & Celeron® Processor N3350, DisplayPort++, HDMI, 2 GbE LAN and 4 USB

Features

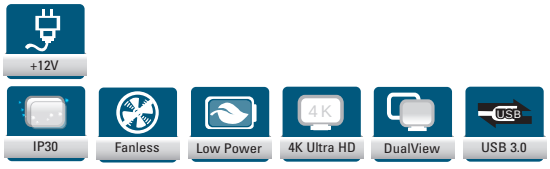
- Fanless operation with low power consumption
- 2 DDR3L-1600 SO-DIMM for up to 8GB of memory
- 1 HDMI 1.4 and 1 DisplayPort 1.2
- 4 USB, 2 GbE LAN
- Supports 1 M.2 Key E 2230 slot for Wi-Fi/BT
- Supports 1 M.2 Key B 3042 slot for 4G LTE
- 1 M.2 Key M 2280 for storage



▲ Front view



▲ Rear view



Specifications

CPU	Intel® Pentium® processor N4200 2.5GHz & Celeron® processor N3350 2.4GHz onboard
Chipset	SoC integrated
System Memory	2 x DDR3L-1600 SO-DIMM, up to 8GB
Storage	1 x M.2 Key M 2280
TPM	N/A
Watchdog Timer	255 levels, 1 to 255 sec./min.
I/O	3 x USB 3.0 1 x USB 2.0 1 x 10/100/1000 Mbps Ethernet 1 x Device management 1 x HDMI 1.4 1 x DisplayPort 1.2 1 x DB9 RS-232 1 x Line-out 1 x Mic-in 1 x SIM card 1 x Power switch 1 x Reset switch 1 x Remote switch 1 x Screw type VDC power input connector 4 x Antenna opening
Expansion Interface	1 x M.2 Key E 2230 slot supported for Wi-Fi/BT 1 x M.2 Key B 3042 slot supported for 4G LTE 1 x SIM card slot
Battery Lithium	Lithium 3 V/220 mAH
System Indicator	1 x White LED for HDD active
Power Input	+12V DC-in
Dimensions	200 mm (7.87") (W) x 137.8 mm (5.4") (D) x 20 mm (0.79") (H)
Weight (net/gross)	0.90 kg (1.98 lb)/1.57 kg (3.45 lb)
Vibration Endurance	3 Grms with M.2 storage (5 to 500Hz, X, Y, Z directions)
Operating Temperature	0°C to +50°C (32°F to 122°F)
Humidity	10% - 90% relative humidity, non-condensing
Certifications	CE, FCC class A
EOS Support	Win 10 IoT, Linux

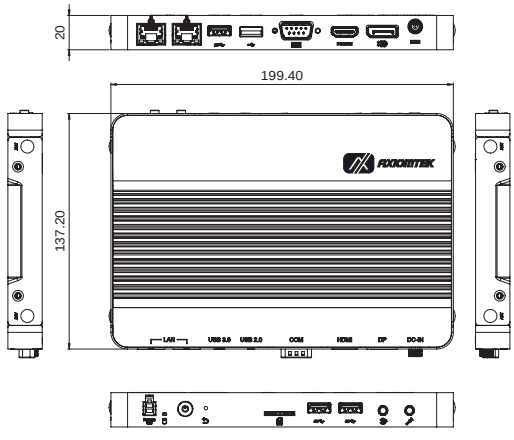
Packing List

1 x Quick installation guide
1 x Adapter 12V 36W
1 x Power cord
1 x Wall mount bracket
4 x Foot pad

Ordering Information

Standard	
DSP300-318-N4200-US, 4GB RAM, 64GB M.2 (P/N: E22K300100)	Digital signage player with Intel® Pentium® N4200 2.5GHz, DisplayPort++, HDMI, 2 GbE LAN, 4 USB, 12V/36W power adapter and US power cord, 4GB RAM, 64GB M.2
DSP300-318-N4200-EU, 4GB RAM, 64GB M.2 (P/N: E22K300101)	Digital signage player with Intel® Pentium® N4200 2.5GHz, DisplayPort++, HDMI, 2 GbE LAN, 4 USB, 12V/36W power adapter and EU power cord, 4GB RAM, 64GB M.2
DSP300-318-N3350-US, 4GB RAM, 64GB M.2 (P/N: E22K300102)	Digital signage player with Intel® Celeron® N3350 2.4GHz, DisplayPort++, HDMI, 2 GbE LAN, 4 USB, 12V/36W power adapter and US power cord, 4GB RAM, 64GB M.2
DSP300-318-N3350-EU, 4GB RAM, 64GB M.2 (P/N: E22K300103)	Digital signage player with Intel® Celeron® N3350 2.4GHz, DisplayPort++, HDMI, 2 GbE LAN, 4 USB, 12V/36W power adapter and EU power cord, 4GB RAM, 64GB M.2

Dimensions



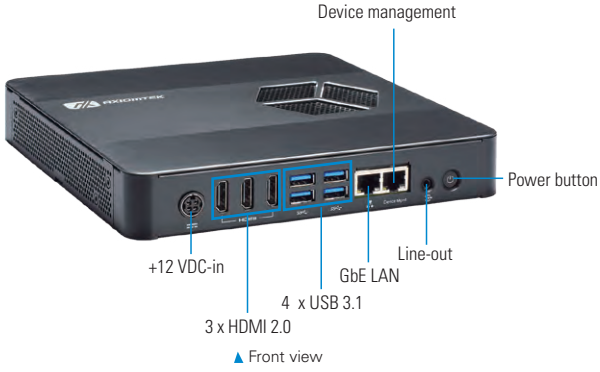
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DSP500-523 NEW

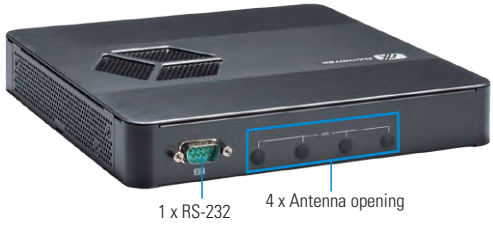
Digital Signage Player with 8th Gen Intel® Core™ i7/i5/i3 & Celeron® Processor, 3 HDMI 2.0, 4 USB and GbE LAN

Features

- 8th gen Intel® Core™ i7/i5/i3 & Pentium® processor (Coffee Lake)
- 2 DDR4-2400 SO-DIMM for up to 32GB of memory
- 3 HDMI 2.0
- 4 USB 3.1 and 1 GbE LAN
- 1 M.2 Key E 2230 for Wi-Fi/BT
- 1 M.2 Key B 3042 for 4G LTE
- 1 M.2 Key M 2280 for storage



▲ Front view



▲ Rear view

+12V DDR4 IP30 Low Power 4K Ultra HD USB 3.0 AMS.AXView

Specifications

CPU	Intel® Core™ i7-8700T Hexa Core processor 2.4GHz 12MB Cache, TDP 35W Intel® Core™ i5-8500T Hexa Core processor 2.4GHz 12MB Cache, TDP 35W Intel® Core™ i3-8100T Hexa Core processor 2.1GHz 9MB Cache, TDP 35W Intel® Pentium® G5400T dual Core processor 3.1GHz 4MB Cache,TDP 35W
System Memory	2 x DDR4-2666 SO-DIMM, up to 32GB
Chipset	Intel® Q370
Storage	1x M.2 Key M 2280 (SATA & NVMe)
TPM	TPM 2.0
Watchdog Timer	255 levels, 1 to 255 sec./min.
System I/O Outlet	1 x 10/100/1000 Mbps Ethernet 4 x USB 3.1 3 x HDMI 2.0 or 2 x HDMI 2.0 1 x Line-out 1 x RS-232 1 x Device management 1 x Remote switch 1 x Screw type VDC power input 1 x VDC power input connector 4 x Antenna opening
Expansion Interface	1 x M.2 Key E 2230 for Wi-Fi/BT (optional) 1 x M.2 Key B 3042 for 4G/LTE (optional) 1 x SIM card slot
Battery Lithium	Lithium 3 V/220 mAH
Power Input	+12V DC-in
Dimensions	202 mm (7.95") (W) x 196 mm (7.71") (D) x 39 mm (1.53") (H)
Weight (net/gross)	1.8kg (3.96 lb)/2.8kg (6.17 lb)
Vibration Endurance	3 Grms with M.2 storage (5 - 500Hz, X, Y, Z directions)
Operating Temperature	0°C to +45°C (+32°F to +113°F)
Humidity	10% - 90% relative humidity, non-condensing
Certifications	CE, FCC class A
EOS Support	Win 10 IoT, Linux
Software Support	AMS.AXView

Packing List

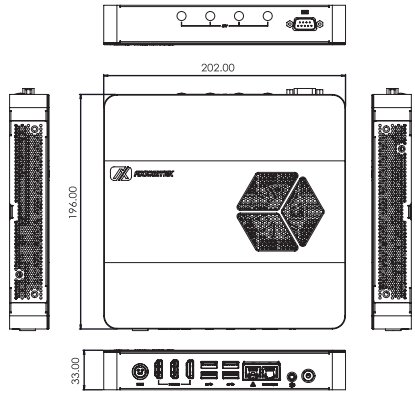
1 x Quick installation guide
4 x Foot pad

Ordering Information

Standard	
DSP500-523-US	Digital signage player with Intel® 8th gen Intel® Core™ i7/ i5/i3 & Pentium® processor 3 HDMI, 4 USB 3.1, GbE LAN
DSP500-523-EU	Digital signage player with Intel® 8th gen Intel® Core™ i7/ i5/i3 & Pentium® processor 3 HDMI, 4 USB 3.1, GbE LAN

Optional	
Wall mount kit	
Adapter 12V 84W	
DDR4 SO-DIMM	8GB - 32GB
Wireless LAN Kit	Wi-Fi module and antenna
Storage	M.2 Key M 2280 (SATA & NVMe)

Dimensions



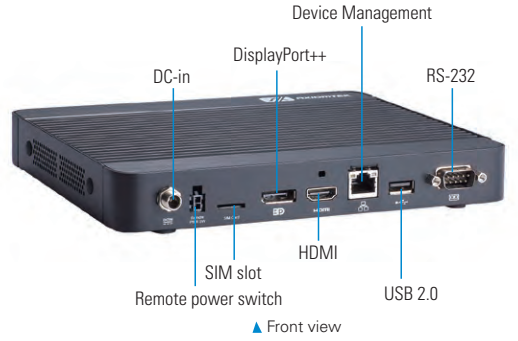
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DSP501-527 NEW

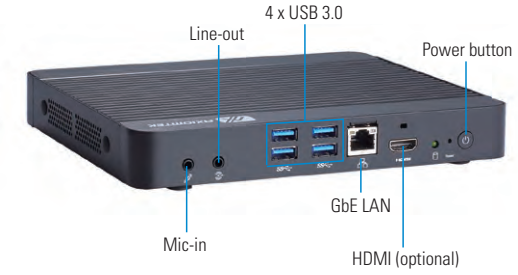
Digital Signage Player with 8th Gen Intel® Core™ i7/i5/i3 & Celeron® Processor, DisplayPort++, 2 HDMI, 5 USB and GbE LAN

Features

- 8th gen Intel® Core™ i7/i5/i3 & Celeron® Processor
- 2 DDR4-2400 SO-DIMM for up to 32GB of memory
- 1 DisplayPort++, HDMI 2.0, and HDMI 1.4 (optional)
- 5 USB and 1 GbE LAN
- 1 M.2 Key E 2230 for Wi-Fi/BT
- 1 M.2 Key M 2280 for storage



▲ Front view



▲ Rear view

+12V | DDR4 | IP30 | Fanless | Low Power | 4K Ultra HD | USB 3.0 | AMS.AXView

Specifications

CPU	8th gen Intel® Core™ i7/i5/i3 & Celeron® processor (Whiskey Lake)
System Memory	2 x DDR4-2400 SO-DIMM, up to 32GB
Chipset	N/A
Storage	1x M.2 Key M 2280 (SATA & NVMe)
TPM	TPM 2.0
Watchdog Timer	255 levels, 1 to 255 sec./min.
System I/O Outlet	4 x USB 3.0 1 x USB 2.0 1 x GbE LAN 1 x HDMI 2.0 1 x HDMI 1.4 (optional) 1 x DisplayPort++ 1 x RS-232 1 x Mic-in 1 x Line-out 1 x DC power input (lockable) 1 x SIM card 1 x HDD LED 1 x Power switch 1 x Reset switch 4 x Antenna opening
Expansion Interface	1 x M.2 Key E for Wi-Fi/BT (optional) 1 x M.2 Key B for 4G/LTE (optional) 1 x SIM card slot
Battery Lithium	Lithium 3 V/220 mAH
Power Input	+12V DC-in
Dimensions	197.6 mm (7.8") (W) x 157.6 mm (6.2") (D) x 26 mm (1") (H)
Weight (net/gross)	1.3kg (2.86 lb)/2.3kg (5.07 lb)
Vibration Endurance	3 Grms with M.2 storage (5 - 500Hz, X, Y, Z directions)
Operating Temperature	0°C to +45°C (+32°F to +113°F)
Humidity	10% - 90% relative humidity, non-condensing
Certifications	CE, FCC class A
EOS Support	Win 10 IoT, Linux
Software Support	AMS.AXView

Packing List

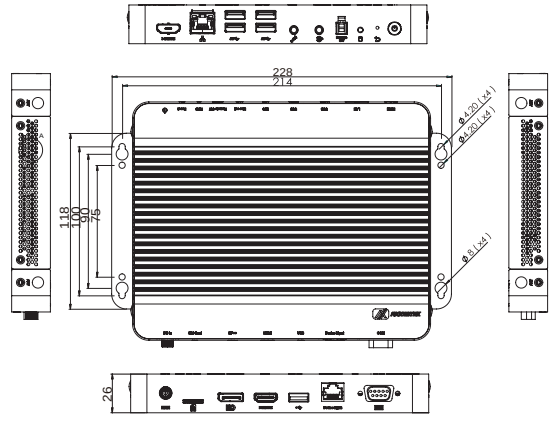
1 x Quick installation guide
1 x Adapter 12V 60W
1 x Wall mount kit
4 x Foot pad

Ordering Information

Standard	
DSP501-527	Digital signage player with 8th gen Intel® Core™ i7/i5/i3 & Celeron® processor, DisplayPort++, HDMI, GbE LAN and 5 USB

Optional	
DDR4 SO-DIMM	8GB - 32GB
Wireless LAN Kit	Wi-Fi module and antenna
Storage	M.2 Key M 2280 (SATA & NVMe)

Dimensions



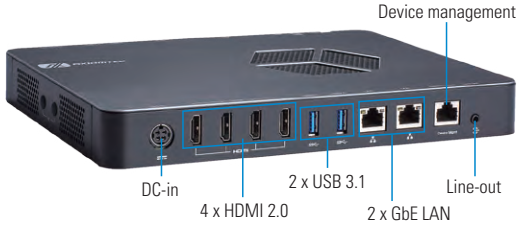
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DSP600-211 NEW

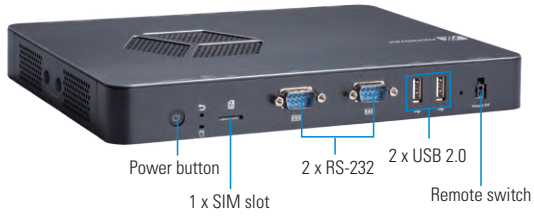
4K Digital Signage Player with AMD Ryzen™ Embedded V1000 Series, 4 HDMI, 2 GbE LAN and 4 USB

Features

- AMD Ryzen™ Embedded V1000 series
- 2 DDR4-2400 SO-DIMM for up to 32GB of memory
- 4 HDMI 2.0 with 4K resolution
- 4 USB and 2 GbE LAN
- 1 M.2 Key E 2230 for Wi-Fi/BT
- 2 M.2 Key M 2280 for storage



▲ Front view



▲ Rear view

+12V DDR4 IP30 Low Power 4K Ultra HD USB 3.1 AMS.AXView

Specifications

CPU	AMD Ryzen™ Embedded Quad Core V1807B/V1605B and Dual core V1202B onboard
Chipset	SoC integrated
System Memory	2 x DDR4-2400 SO-DIMM, up to 32GB
Storage	1 x M.2 Key M 2280 (SATA) 1 x M.2 Key M 2280 (NVMe)
TPM	TPM 2.0
Watchdog Timer	255 levels, 1 to 255 sec./min.
I/O	2 x USB 3.1 2 x USB 2.0 2 x GbE LAN 1 x Device management 4 x HDMI 2.0 (4K supported) 2 x RS-232 1 x Line-out 1 x SIM card 1 x HDD LED 1 x Power switch 1 x Reset switch 1 x Remote switch 1 x Screw type VDC power input connector 4 x Antenna opening
Expansion Interface	1 x M.2 Key E for Wi-Fi/BT 1 x M.2 Key B for 4G/LTE 1 x SIM card slot
Battery Lithium	Lithium 3 V/220 mAH
Power Input	+12V DC-in
Dimensions	250 mm (9.84") (W) x 182.8 mm (7.19") (D) x 30 mm (1.18") (H)
Weight (net/gross)	1.9 kg (4.18 lb)/2.9k g (6.39 lb)
Vibration Endurance	3 Grms with M.2 storage (5 - 500Hz, X, Y, Z directions)
Operating Temperature	0°C to +45°C (32°F to +113°F)
Humidity	10% - 90% relative humidity, non-condensing
Certifications	CE, FCC class A
EOS Support	Win 10, Linux
Software Support	AMS.AXView

Packing List

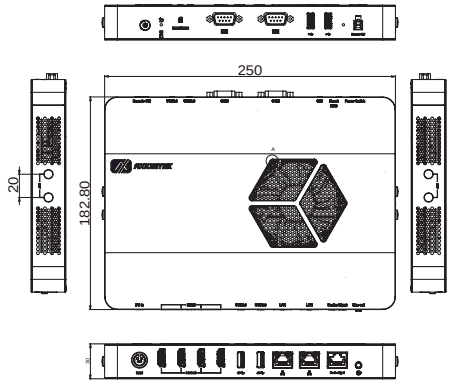
1 x Quick installation guide
1 x Adapter 12V 60W
4 x Foot pad

Ordering Information

Standard	
DSP600-211-V1807B	4K digital signage player with AMD Ryzen™ Embedded V1807B, 4 HDMI, 2 GbE LAN and 4 USB
DSP600-211-V1605B	4K digital signage player with AMD Ryzen™ Embedded V1605B, 4 HDMI, 2 GbE LAN and 4 USB
DSP600-211-V1202B	4K digital signage player with AMD Ryzen™ Embedded V1202B, 4 HDMI, 2 GbE LAN and 4 USB

Optional	
Wall mount kit	
DDR4 SO-DIMM	8GB - 32GB
Wireless LAN Kit	Wi-Fi module and antenna
Storage	M.2 Key M 2280 (SATA & NVMe)

Dimensions



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NOTES

Table of Contents

Industrial Panel PCs

1 Fanless Touch Panel Computers

	Selection Guide		299
	GOT107W-319	7" WSVGA TFT Fanless Touch Panel Computer with Intel® Celeron® Processor N3350	301
NEW	GOT110-316-PoE-PD	10.4" XGA TFT Fanless Touch Panel Computer with Intel® Celeron® Processor N3350	303
	GOT110-316	10.4" XGA TFT Fanless Touch Panel Computer with Intel® Celeron® Processor N3350	305
NEW	GOT115-319	15" XGA TFT Fanless Touch Panel Computer with Intel® Celeron® Processor N3350 or Intel® Pentium® Processor N4200	307
	GOT5103W-845	10.1" WXGA TFT Fanless Touch Panel Computer with Intel® Celeron® Processor N3060	309
	GOT5153W-845	15.6" WXGA TFT Fanless Touch Panel Computer with Intel® Celeron® Processor N3060	311

2 Heavy-duty Fanless Touch Panel Computers

	Selection Guide		315
	GOT315WL-845-PCT	15.6" WXGA TFT Multi-touch Panel Computer with Intel® Pentium® Processor N3710	317
	GOT317-502-FR	17" SXGA TFT Expandable Touch Panel Computer with 7th/6th Gen Intel® Core™ i7/i5/i3 Processor	319
	GOT318WL-845-PCT	18.5" WXGA TFT Multi-touch Panel Computer with Intel® Pentium® Processor N3710	321
	GOT321W-502-PCT	21.5" FHD TFT Multi-touch Panel Computer with 7th/6th Gen Intel® Core™ i7/i5/i3 Processor	323

3 Stainless Touch Panel Computers

	Selection Guide		327
NEW	GOT810-845	10.4" XGA TFT IP66 & IP69K-rated Stainless Steel Fanless PCT (or Resistive Touch) Panel Computer with Intel® Celeron® N3060 and Flat Bezel Design (-10°C to +50°C)	329

GOT812L(H)-880	12.1" XGA TFT IP66 & IP69K-rated Stainless Steel Fanless PCT (or Resistive Touch) Panel Computer with Intel® Core™ i5 Processor and Flat Bezel Design (-20°C to +50°C)	331
GOT815L-511	15" XGA TFT IP66 & IP69K-rated Stainless Steel Fanless PCT (or Resistive Touch) Panel Computer with Intel® Core™ i5-7300U Processor and Flat Bezel Design (-20°C to +50°C)	333
GOT815-834	15" XGA TFT IP66 & IP69K-rated Stainless Steel Fanless PCT (or Resistive Touch) Panel Computer with Intel® Atom® Processor E3827 and Flat Bezel Design (-20°C to +55°C)	335
GOT817L-511	17" SXGA TFT IP66 & IP69K-rated Stainless Steel Fanless PCT (or Resistive Touch) Panel Computer with Intel® Core™ i5-7300U Processor and Flat Bezel Design (-20°C to +50°C)	337
GOT817-834	17" SXGA TFT IP66 & IP69K-rated Stainless Steel Fanless PCT (or Resistive Touch) Panel Computer with Intel® Atom® Processor E3827 and Flat Bezel Design (-20°C to +55°C)	339

4 Transportation Touch Panel Computers & Monitors

	Selection Guide		343
NEW	GOT610-837	10.4" XGA TFT LCD Vehicle Mount Terminal with Intel® Atom® Processor E3845 1.91 GHz for Heavy-duty Vehicle (-30°C to +55°C)	345
	GOT710-837	10.4" XVGA TFT LCD Railway Fanless Touchscreen Panel PC with Intel® Atom® Processor E3845 1.91 GHz (-25°C to +70°C)	347
	GOT712-837	12.1" XGA TFT LCD Railway Fanless Touchscreen Panel PC with Intel® Atom® Processor E3845 1.91 GHz (-25°C to +70°C)	349
	P6105	10.4" XGA TFT LCD Railway Touchscreen Monitor (-25°C to +55°C)	351
	P6125	12.1" XGA TFT LCD Railway Touchscreen Monitor (-25°C to +55°C)	353
NEW	P6187W-PIS	18.5" Railway Monitor for Passenger Information System (PIS)	355

5 Industrial Touch Panel Computers

Selection Guide		359
P1127E-500	12.1" XGA TFT Expandable Industrial Touch Panel Computer with 7th/6th Gen Intel® Core™ i7/i5/i3, Celeron® & Pentium® Processor and PCI/PCIe Slot	361
P1157E-500	15" XGA TFT Expandable Industrial Touch Panel Computer with 7th/6th Gen Intel® Core™ i7/i5/i3, Celeron® & Pentium® Processor and PCI/PCIe Slot	363
P1177E-500	17" SXGA TFT Expandable Industrial Touch Panel Computer with 7th/6th Gen Intel® Core™ i7/i5/i3, Celeron® & Pentium® Processor and PCI/PCIe Slot	365
P1197E-500	19" SXGA TFT Expandable Industrial Touch Panel Computer with 7th/6th Gen Intel® Core™ i7/i5/i3, Celeron® & Pentium® Processor, PCI/PCIe Slot	367

6 Industrial Touch Monitors

Selection Guide		371
P6157W-V2	15.6" WXGA TFT Widescreen Industrial LCD Monitor	373
P6171-V2	17" SXGA TFT Industrial LCD Monitor	375
P6187W-V2	18.5" WXGA TFT Widescreen Industrial LCD Monitor	377
P6217W	21.5" FHD TFT Widescreen Industrial LCD Monitor	379

7 Medical Panel Computers

Selection Guide		383
MPC103-845	10.1" WXGA TFT Fanless Medical Grade Touch Panel Computer with Intel® Celeron® Processor N3060	385
MPC102-845	10.4" XGA TFT Fanless Medical Grade Touch Panel Computer with Intel® Celeron® Processor N3060	387
MPC152-845	15" XGA TFT Fanless Medical Grade Touch Panel Computer with Intel® Celeron® Processor N3060	389
MPC153-834	15.6" WXGA TFT Fanless Medical Grade Touch Panel Computer with Intel® Celeron® Processor J1900	391
MPC240	24" FHD TFT Medical Grade Panel Computer with 4th Gen Intel® Core™ i7/i5/i3, Celeron® & Pentium® Mobile Processor	393

8 Open Frame Panel Computer

Selection Guide		396
FDK172-834	17" SXGA TFT Open Frame Panel Computer with Intel® Celeron® Processor J1900	397



Fanless Touch Panel Computers

Heavy-duty Fanless Touch Panel Computers

Stainless Touch Panel Computers

Transportation Touch Panel Computers and Monitors

Industrial Touch Panel Computers

Industrial Touch Monitors

Medical Panel Computers

Open Frame Panel Computer

Industrial Panel PCs

1 Fanless Touch Panel Computers

The GOT100/GOT5000 series features fanless operation, ultra slim and modern ID design. Incorporating the low power consumption Intel® Celeron®/Pentium® processors and an ultra slim housing makes this product line a perfect choice for various applications across many industries.

	Selection Guide		299
	GOT107W-319	7" WSVGA TFT Fanless Touch Panel Computer with Intel® Celeron® Processor N3350	301
NEW	GOT110-316-PoE-PD	10.4" XGA TFT Fanless Touch Panel Computer with Intel® Celeron® Processor N3350	303
	GOT110-316	10.4" XGA TFT Fanless Touch Panel Computer with Intel® Celeron® Processor N3350	305
NEW	GOT115-319	15" XGA TFT Fanless Touch Panel Computer with Intel® Celeron® Processor N3350 or Intel® Pentium® Processor N4200	307
	GOT5103W-845	10.1" WXGA TFT Fanless Touch Panel Computer with Intel® Celeron® Processor N3060	309
	GOT5153W-845	15.6" WXGA TFT Fanless Touch Panel Computer with Intel® Celeron® Processor N3060	311

Fanless Touch Panel Computers

Selection Guide



NEW





Features\Models	GOT107W-319	GOT110-316-PoE-PD	GOT110-316
CPU Level	Intel® Celeron® N3350, up to 2.4 GHz Intel® Pentium® N4200, up to 2.5 GHz	Intel® Celeron® N3350, up to 2.4 GHz	Intel® Celeron® N3350, up to 2.4 GHz
Chipset	SoC integrated	SoC integrated	SoC integrated
System Memory	1 x SO-DIMM 204-pin DDR3L, up to 8GB	1 x 204-pin DDR3L SO-DIMM socket, up to 8GB	1 x 204-pin DDR3L SO-DIMM socket, up to 8GB
Display	7" WSVGA TFT LCD, 320 nits	10.4" XGA TFT, 350 nits	10.4" XGA TFT, 350 nits
I/O	1 x RS-232/422/485 1 x RS-232 2 x 10/100/1000 Mbps Ethernet 2 x USB 3.0 1 x Screw type connector for power 1 x ATX/AT selectable switch 1 x Power button	1 x RS-232/422/485 1 x RS-232 2 x 10/100/1000 Mbps Ethernet (one for PoE PD) 4 x USB 3.0 1 x Audio (Line-out) 1 x HDMI 1 x Power button (ATX) 1 x Remote power switch 1 x ATX/AT selectable switch	1 x RS-232/422/485 1 x RS-232 2 x 10/100/1000 Mbps Ethernet (PoE PD optional) 4 x USB 3.0 1 x Audio (Line-out) 1 x HDMI 1 x Screw type connector for power 1 x Power button (ATX) 1 x Remote power switch 1 x ATX/AT selectable switch
Storage	1 x mSATA 1 x MicroSD Card	1 x 2.5" SATA HDD 1 x mSATA	1 x 2.5" SATA HDD 1 x mSATA
Expansion Interface	1 x PCI Express Mini Card slot 1 x M.2 Key E	2 x PCI Express Mini Card slot	2 x PCI Express Mini Card slot
Touchscreen	Projected capacitive multi-touch	5-wire resistive touch or projected capacitive multi-touch	5-wire resistive touch or projected capacitive multi-touch
Operating System	Windows® 10 (64-bit)	Windows® 10 (64-bit)	Windows® 10 (64-bit)
Power Supply	100 to 240 VAC, 60W power adapter or DC cable for 24 VDC	Power Device (PD): follows IEEE 802.3at (25.5 W)	100 to 240 VAC, 60W power adapter or adapter cable for 24 VDC
Power Consumption	20.4W	24W	24W
Watchdog Timer	255 levels, 0 to 255 sec.	255 levels, 0 to 255 sec.	255 levels, 0 to 255 sec.
Dimensions (W x D x H)	192 x 37.4 x 145 mm (7.56" x 1.47" x 5.7")	259.43 x 43.5 x 232.73 mm (10.21" x 1.71" x 9.16")	259.43 x 43.5 x 232.73 mm (10.21" x 1.71" x 9.16")
Weight (net/gross)	0.75 kg (1.65 lb)/2.0 kg (4.41 lb)	1.8 kg (3.96 lb)/3 kg (6.61 lb)	1.8 kg (3.96 lb)/3 kg (6.61 lb)
Operating Temperature	0°C to +50°C (+32°F to +122°F)	0°C to +50°C (+32°F to +122°F)	0°C to +50°C (+32°F to +122°F)
Certifications	CE, FCC	CE, FCC	CE, FCC

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NEW







Features\Models	GOT115-319	GOT5103W-845	GOT5153W-845
CPU Level	Intel® Celeron® N3350, up to 2.4 GHz Intel® Pentium® N4200, up to 2.5 GHz	Intel® Celeron® N3060, up to 2.48 GHz Intel® Pentium® N3710, up to 2.56 GHz	Intel® Celeron® N3060, up to 2.48 GHz
Chipset	SoC integrated	SoC integrated	SoC integrated
System Memory	1 x SO-DIMM 204-pin DDR3L, up to 8GB	1 x 204-pin DDR3L-1600 SO-DIMM, up to 8GB	1 x 204-pin DDR3L-1600 SO-DIMM, up to 8GB
Display	15" XGA TFT LCD, 300 nits	10.1" WXGA TFT, 350 nits	15.6" WXGA TFT, 300 nits
I/O	1 x RS-232/422/485 1 x RS-232 2 x 10/100/1000 Mbps Ethernet 2 x USB 3.0 2 x USB 2.0 1 x Audio (Line-out) 1 x Screw type connector for power 1 x Power button (ATX) 1 x Remote power switch 1 x ATX/AT selectable switch	1 x RS-232/422/485 1 x RS-232 2 x 10/100/1000 Mbps Ethernet 2 x USB 2.0 2 x USB 3.0 1 x Audio (Line-out) 1 x HDMI 1 x Switch for power on/off 1 x AT/ATX mode selection switch	1 x RS-232/422/485 1 x RS-232 2 x 10/100/1000 Mbps Ethernet 2 x USB 2.0 2 x USB 3.0 1 x Audio (Line-out) 1 x HDMI 1 x Switch for power on/off 1 x AT/ATX mode selection switch
Storage	1 x 2.5" SATA HDD 1 x mSATA 1 x MicroSD card	1 x Half-slim SATA SSD (optional) 1 x mSATA	1 x mSATA 1 x 2.5" SATA HDD (AC version only)
Expansion Interface	1 x PCI Express Mini Card slot 1 x M.2 Key E	2 x PCI Express Mini Card slot	2 x PCI Express Mini Card slot
Touchscreen	5-wire resistive touch or projected capacitive multi-touch	Projected capacitive multi-touch	5-wire resistive touch or projected capacitive multi-touch
Operating System	Windows® 10 (64-bit)	Windows® 10, Windows® 8.1, WE8S, Windows® 7, WES 7	Windows® 10, Windows® 8.1, WE8S, Windows® 7, WES 7
Power Supply	100 to 240 VAC, 60W power adapter or DC cable for 24 VDC	24 VDC 100 to 240 VAC, 60W power adapter	DC version: 9 to 36 VDC with over-current protection fuse AC version: 100 to 240 VAC-DC, 60W power adapter
Power Consumption	28.8W	40.32W	30W
Watchdog Timer	255 levels, 0 to 255 sec.	255 levels, 0 to 255 sec.	255 levels, 0 to 255 sec.
Dimensions (W x D x H)	329.7 x 50 x 306 mm (13" x 2" x 12")	260.8 x 38 x 194.1 mm (10.27" x 1.50" x 7.65")	394.2 x 57 x 257.2 mm (15.53" x 2.25" x 10.13")
Weight (net/gross)	3.2 kg (7.1 lb)	1.08 kg (2.38 lb)/2.18 kg (4.8 lb)	3.0 kg (6.61 lb)/4.5 kg (9.92 lb)
Operating Temperature	0°C to +50°C (+32°F to +122°F)	0°C to +50°C (+32°F to +122°F)	0°C to +50°C (+32°F to +122°F)
Certifications	CE, FCC	CE, FCC	CE, FCC

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GOT107W-319

7" WSVGA TFT Fanless Touch Panel Computer with Intel® Celeron® Processor N3350 or Intel® Pentium® Processor N4200

Features

- 7" WSVGA TFT LCD display with LED backlight
- Fanless design with Intel® Celeron® processor N3350 or Intel® Pentium® Processor N4200
- 2 GbE LAN, 2 USB and 2 COM ports
- Plastic and IP65-rated front bezel
- External AT/ATX mode selection switch
- Easy access storage & RAM design
- Supports panel mount, wall mount, VESA arm and desktop stand
- RS-232/422/485 with RI/5V/12V selectable by BIOS
- Programmable OSD function key



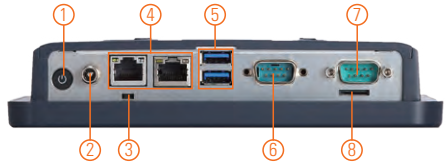
1. Power LED
2. HDD LED
3. Brightness adjust +/-
4. Display on/off
5. Volume adjust +/-



▲ Side view



▲ Rear view



1. Power button
2. Screw connector for adapter
3. AT/ATX switch
4. 2 x LAN
5. 2 x USB 3.0
6. 1 x RS-232/422/485
7. 1 x RS-232
8. Micro SD card slot
9. Speaker



Introduction

The GOT107W-319 is a 7" fanless touch panel computer. In response to market demand, this panel computer is a cost effective solution. It adopts a modern, super sleek and fanless design and is equipped with the Intel® Celeron® processor N3350 or Pentium® processor N4200. For wireless network connection, the GOT107W-319 offers one PCI Express Mini Card slot and one M.2 Key E for wireless module. By just plugging in the WLAN card, customers can have instant access to wireless LAN/GPRS/GSM/4G environments.

Super Slim Design
The GOT107W-319 is a super slim touch panel computer for space-limited applications.

Support Front Membrane Keys
The GOT107W-319 has 5 membrane keys on the front panel which allows users to adjust the LCD on/off, LCD brightness and volume setting easily.

Aluminum Back Chassis with Excellent Thermal Solution
With Axiomtek's patent for plastic plus aluminum mechanism design, the GOT107W-319 can dissipate the heat easily and keep the system operation stable.

Specifications

Front Bezel	IP65, NEMA 4 rugged protection, plastic front bezel	
LCD Panel	Display Type	7" WSVGA TFT LCD with LED backlight
	Brightness (cd/m^2)	320 nits
	Resolution	1024 x 600
	Viewing Angel (H/V)	145°/150°
Main System	CPU	Intel® Celeron® processor N3350 2 cores (up to 2.40 GHz) Intel® Pentium® Processor N4200 4 cores (up to 2.5 GHz)
	System Memory	1 x 204-pin DDR3L-1600 SO-DIMM, up to 8GB
	BIOS	AMI UEFI BIOS
	Storage	1 x mSATA (default storage) 1 x MicroSD card
	Watchdog Timer	255 levels, 0 to 255 sec.
	Onboard Graphics	Integrated in Intel® GFX

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Specifications

I/O Connector	1 x RS-232/422/485 1 x RS-232 2 x 10/100/1000 Mbps Ethernet 2 x USB 3.0 1 x Screw type connector for power 1 x Power button 1 x AT/ATX switch
Expansion Interface	1 x M.2 Key E for wireless module 1 x Full-size PCI Express Mini Card slot
Touchscreen	Projected capacitive multi-touch
Power Supply	DC version : 9 to 24 VDC with adapter cable
Power Consumption	20.4W
Dimensions	192 mm (7.56") (W) x 37.4 mm (1.47") (D) x 145 mm (5.7") (H)
Packing Dimensions	380 mm (15") (W) x 100 mm (4") (D) x 280 mm (11") (H)
Weight (net/gross)	0.75 kg (1.65 lb)/2.0 kg (4.41 lb)
Operating Temperature	0°C to +50°C (+32°F to +122°F)
Relative Humidity	20% to 90% @ +40°C; non-condensing
Operation Vibration	2G, 5 to 500Hz, random for SSD
Certifications	CE, FCC class B

Packing List

1 x GOT107W-319
1 x DC cable (GOT107W-319-DC)
1 x M3 Screw for M.2 card slot
1 x M2 screw for mSATA card slot
1 x Thermal pad for RAM
1 x Thermal pad for mSATA

Ordering Information

Standard	
GOT107W-319 DC	7" WSVGA fanless touch panel computer with Intel® Celeron® N3350 processor onboard, projected capacitive multi-touch screen, EMI Class B with screw type connector, DC cable, and logo
GOT107W-319 N4200 DC	7" WSVGA fanless touch panel computer with Intel® Pentium® N4200 processor onboard, projected capacitive multi-touch screen, EMI Class B with screw type connector, DC cable, and logo

Optional Accessories

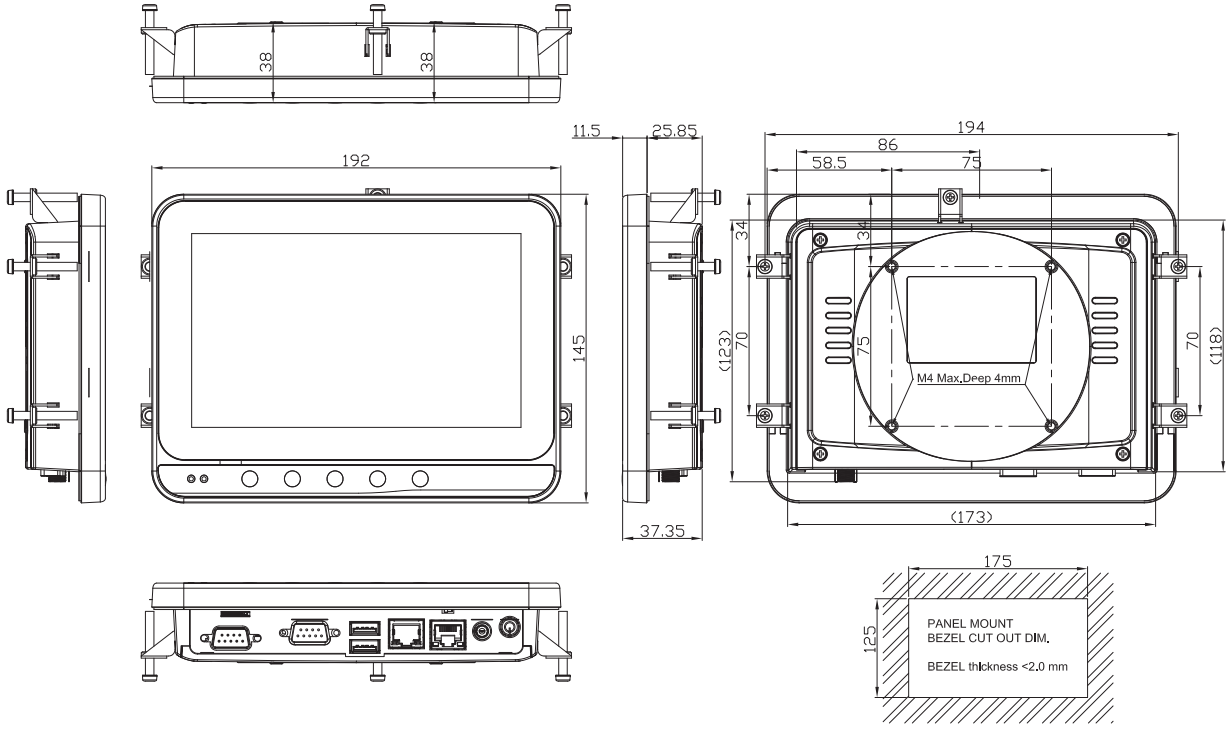
Wi-Fi + Bluetooth kit	5A2AP123580E
Panel mount kit	8812B1071A0E
Wall mount kit	812B1070A0E
Stand kit	E226171119
Adapter	50956A24030E

* Specifications and certifications may vary based on different requirements.

Optional OS Installation

Windows® 10

Dimensions



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GOT110-316-PoE-PD NEW

10.4" XGA TFT Fanless Touch Panel Computer with Intel® Celeron® Processor N3350

Features

- 10.4" XGA TFT LCD display with LED backlight
- Fanless design with Intel® Celeron® processor N3350
- 1 Gbe LAN, 1 PoE PD, 4 USB and 2 COM
- IP65-rated front bezel and IPX1 rated back cover
- External AT/ATX mode selection switch
- Easy maintenance design for storage and memory
- Supports panel mount, wall mount, VESA arm and desktop stand
- Adjustable RS-232/422/485 setting via BIOS
- Aluminum cover for the better thermal dissipation and reliability



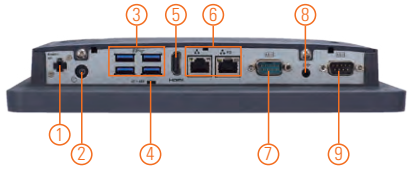
1. Power LED
2. HDD LED
3. Brightness adjust +/-
4. Display on/off
5. Volume on/off



▲ Side view



▲ Rear view



1. Remote power switch
2. Power button
3. 4 x USB 3.0
4. AT/ATX switch
5. 1 x HDMI
6. 1 x LAN
   1 x PoE PD
7. 1 x RS-232/422/485
8. 1 x Line-out
9. 1 x RS-232
10. Speaker
11. Optional cable cover

Fanless | Low Power | DDR3L | AiRD | IP65 | DualView

Introduction

The GOT110-316 is a 10.4" XGA fanless touch panel computer. In response to market demand, this panel computer is a cost effective solution. It adopts a modern, super sleek and fanless design and is equipped with the Intel® Celeron® processor N3350 dual core up to 2.40 GHz. For wireless network connection, the GOT110-316 offers two PCI Express Mini Card slots. By just plugging in the WLAN card, customers can have instant access to wireless LAN.

Super Slim Design
With a thickness of 43.5 mm, the GOT110-316 is a super slim touch panel computer for space-limited environment.

PoE Solution
GOT110-316 provides PoE solution which provides data and power to the system. This infrastructure allows to centralized power management; therefore, it is a cost-effective solution for access control, home and industrial automation.

Aluminum Back Chassis with Excellent Thermal Solution
With Axiomtek's patent for plastic plus aluminum mechanism design, the GOT110-316 can dissipate the heat easily and keep the system operation stable.

Specifications

Front Bezel	IP65, NEMA 4 rugged protection, plastic front bezel	
LCD Panel	Display Type	10.4" XGA TFT LCD with LED backlight
	Brightness (cd/m^2)	350 nits (XGA)
	Resolution	1024 x 768
	Viewing Angel (H/V)	160°/160°
Main System	CPU	Intel® Celeron® processor N3350 2 cores (turbo boost disable)
	System Memory	1 x 204-pin DDR3L-1600 SO-DIMM, up to 8GB
	BIOS	AMI UEFI BIOS
	Storage	1 x 2.5" SATA HDD (9.5 mm height) or 1 x mSATA
	Watchdog Timer	255 levels, 0 to 255 sec.
	Onboard Graphics	Integrated in Intel® GFX

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Specifications

I/O Connector	1 x RS-232/422/485 (default RS-232) 1 x RS-232 1 x 10/100/1000 Mbps Ethernet 1 x PoE PD 4 x USB 3.0 1 x Power button (ATX) 1 x Remote power switch 1 x Audio (Line-out) 1 x ATX/AT selectable switch 1 x HDMI
Expansion Interface	1 x Full-size PCI Express Mini Card slot with mSATA 1 x Full-size PCI Express Mini Card slot with SIM
Touchscreen	Projected capacitive multi-touch 5-wire flat resistive touch
Power Supply	Power Device (PD): follows IEEE 802.3at (25.5W)
Power Consumption	25.5W
Dimensions	259.43 mm (10.21") (W) x 43.5 mm (1.71") (D) x 232.73 mm (9.16") (H)
Packing Dimensions	415 mm (16.34") (W) x 100 mm (3.94") (D) x 315 mm (12.4") (H)
Weight (net/gross)	1.8 kg (3.96 lb)/3 kg (6.61 lb)
Operating Temperature	0°C to +50°C (+32°F to +122°F)
Relative Humidity	20% to 90% @ +40°C; non-condensing
Operation Vibration	2G, 5 - 500Hz, random for SSD
Certifications	CE, FCC

Ordering Information

Standard	
GOT110-316-R-PoE-PD	10.4" XGA TFT cost-effective fanless touch panel computer with Intel® N3350 processor onboard, resistive touch and PoE PD power input
GOT110-316-PCT-PoE-PD	10.4" XGA TFT cost-effective fanless touch panel computer with Intel® N3350 processor onboard, projected capacitive multi-touch screen and PoE PD power input

Optional Accessories

Wi-Fi + Bluetooth kit
Panel mount kit
Wall mount kit
Stand kit

* Specifications and certifications may vary based on different requirements.

Optional OS Installation

Windows® 10

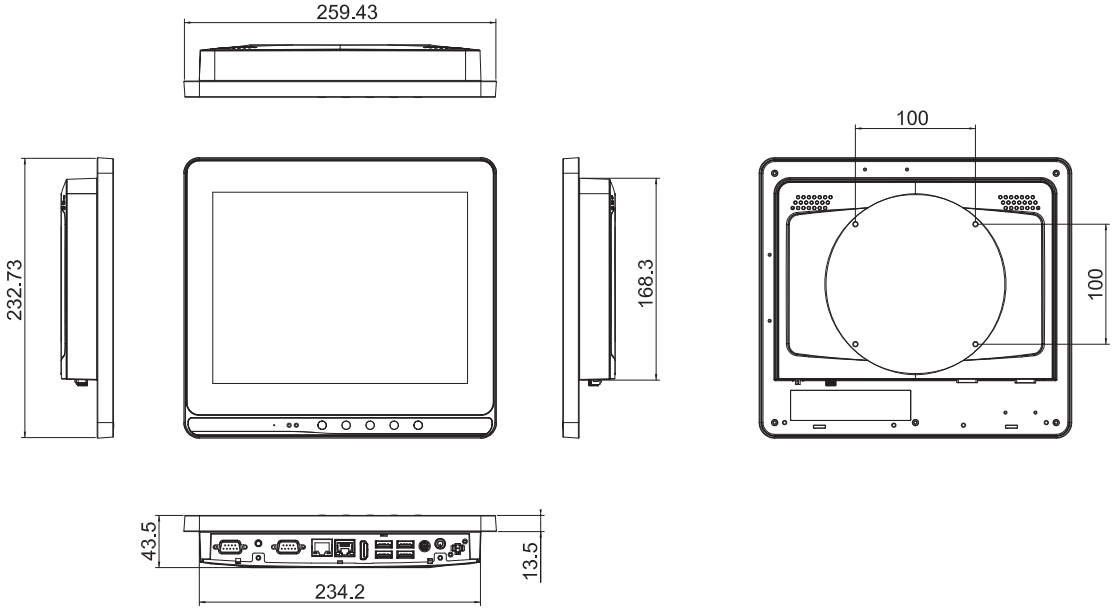
Packing List

1 x GOT110-316 PoE-PD
1 x Driver DVD



▲ AC power adapter
(for GOT110–316-J)

Dimensions



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GOT110-316

10.4" XGA TFT Fanless Touch Panel Computer with Intel® Celeron® Processor N3350 or Intel® Pentium® Processor N4200

Features

- 10.4" XGA TFT LCD display with LED backlight
- Fanless design with Intel® Celeron® processor N3350 or Intel® Pentium® processor N4200
- 2 GbE LAN, 4 USB and 2 COM
- IP65-rated front bezel and IPX1 rated back cover
- Peripheral support including MSR, RFID, Wi-Fi, and barcode scanner
- External AT/ATX mode selection switch
- Easy maintenance design for storage and memory
- Supports panel mount, wall mount, VESA arm and desktop stand
- Adjustable RS-232/422/485 setting via BIOS
- Aluminum cover for the better thermal dissipation and reliability



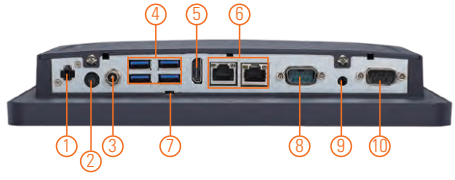
1. Power LED
2. HDD LED
3. Brightness adjust +/-
4. Display on/off
5. Volume on/off



▲ Side view



▲ Rear view



1. Remote power switch
2. Power button
3. Screw connector for adapter
4. 4 x USB 3.0
5. 1 x HDMI
6. 2 x LAN
7. AT/ATX switch
8. 1 x RS-232/422/485
9. 1 x Line-out
10. 1 x RS-232
11. Cable cover (optional)
12. Speaker



Introduction

The GOT110-316 is a 10.4" XGA fanless touch panel computer. In response to market demand, this panel computer is a cost effective solution. It adopts a modern, super sleek and fanless design and is equipped with the Intel® Celeron® processor N3350 dual core up to 2.40 GHz. For wireless network connection, the GOT110-316 offers two PCI Express Mini Card slots. By just plugging in the WLAN card, customers can have instant access to wireless LAN. Besides, it can be integrated with peripheral devices including barcode scanner, RFID, MSR, Wi-Fi, and Bluetooth.

Super Slim Design
With a thickness of 43.5 mm, the GOT110-316 is a super slim touch panel computer for space-limited environment.

Support Front Membrane Keys
The GOT110-316 provides 5 Membrane keys in front of system, people can adjust the system display, volume and brightness.

Aluminum Back Chassis with Excellent Thermal Solution
With Axiomtek's patent for plastic plus aluminum mechanism design, the GOT110-316 can dissipate the heat easily and keep the system operation stable.

Specifications

Front Bezel	IP65, NEMA 4 rugged protection, plastic front bezel	
LCD Panel	Display Type	10.4" XGA TFT LCD with LED backlight
	Brightness (cd/m^2)	350 nits (XGA)
	Resolution	1024 x 768
	Viewing Angel (H/V)	160°/160°
Main System	CPU	Intel® Celeron® processor N3350 2 cores (up to 2.4GHz) Intel® Pentium® processor N4200 4 cores (up to 2.5GHz)
	System Memory	1 x 204-pin DDR3L-1600 SO-DIMM, up to 8GB
	BIOS	AMI UEFI BIOS
	Storage	1 x 2.5" SATA HDD (9.5 mm height) 1 x mSATA
	Watchdog Timer	255 levels, 0 to 255 sec.
	Onboard Graphics	Integrated in Intel® GFX

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Specifications

I/O Connector	1 x RS-232/422/485 (default RS-232) 1 x RS-232 2 x 10/100/1000 Mbps Ethernet 4 x USB 3.0 1 x Screw type connector for power 1 x Power button (ATX) 1 x Remote power switch 1 x Audio (Line-out) 1 x ATX/AT selectable switch 1 x HDMI
Expansion Interface	1 x Full-size PCI Express Mini Card slot with mSATA 1 x Full-size PCI Express Mini Card slot with SIM
Touchscreen	Projected capacitive multi-touch 5-wire flat resistive touch
Power Supply	DC version: 12/19 to 24 VDC adapter cable AC version: 100 to 240 VAC-DC, 60W power adapter
Power Consumption	24W
Dimensions	259.43 mm (10.21") (W) x 43.5 mm (1.71") (D) x 232.73 mm (9.16") (H)
Packing Dimensions	415 mm (16.34") (W) x 100 mm (3.94") (D) x 315 mm (12.4") (H)
Weight (net/gross)	1.8 kg (3.96 lb)/3 kg (6.61 lb)
Operating Temperature	0°C to +50°C (+32°F to +122°F)
Relative Humidity	20% to 90% @ +40°C; non-condensing
Operation Vibration	2G, 5 - 500Hz, random for SSD
Certifications	CE, FCC

Packing List

1 x GOT110-316
1 x Driver DVD
1 x Adapter (GOT110-316-J)
1 x DC cable (GOT110-316-DC)

Ordering Information

Standard	
GOT110-316-R-J	10.4" XGA fanless touch panel computer with Intel® Celeron® processor N3350, 5-wire flat resistive touch , AC-DC 60W power adapter (screw type connector) and EMI Class A
GOT110-316-R-DC	10.4" XGA fanless touch panel computer with Intel® Celeron® processor N3350, 5-wire flat resistive touch screw type power input with DC cable and logo
GOT110-316-R-J N4200	10.4" XGA fanless touch panel computer with Intel® Pentium® processor N4200 , 5-wire flat resistive touch, AC-DC 60W power adapter (screw type connector), EMI Class A, and logo
GOT110-316-R-DC N4200	10.4" XGA fanless touch panel computer with Intel® Pentium® processor N4200, resistive touch, screw type power input with DC cable and logo

Optional Accessories

External Wi-Fi + Bluetooth kit**	822B1100190E
Panel mount kit	8812B1101A0E
Wall mount kit	8812B1100A0E
Stand kit	E226171119
RFID kit	82251030190E
Barcode scanner kit	

* Specifications and certifications may vary based on different requirements.
** Standard Wi-Fi kit does not support panel mount.

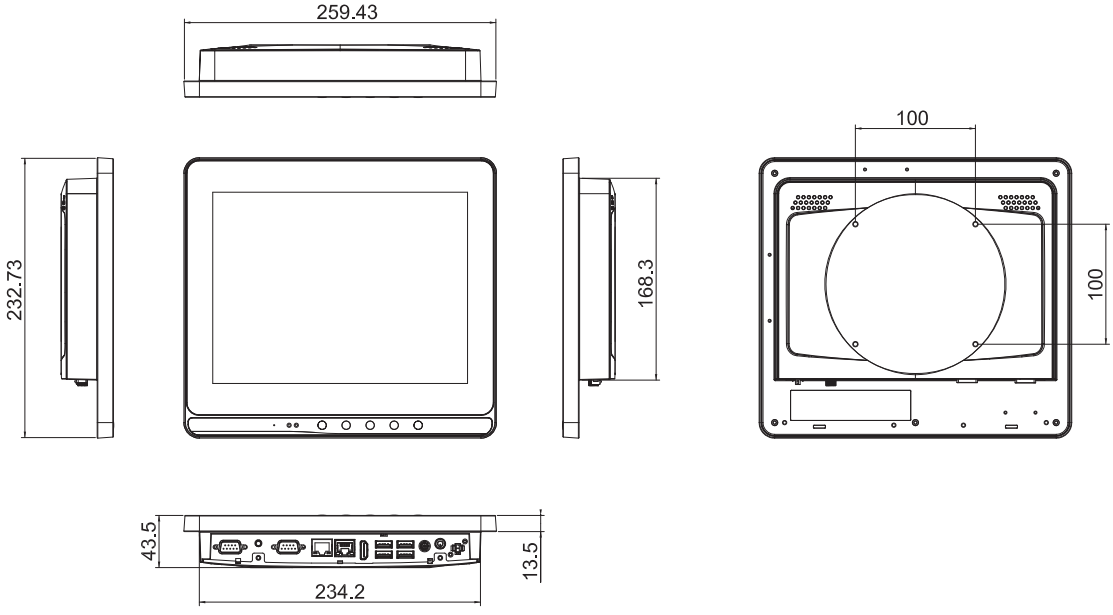
Optional OS Installation

Windows® 10



▲ AC power adapter
(for GOT110–316-J)

Dimensions



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GOT115-319 NEW

15" XGA TFT Fanless Touch Panel Computer with Intel® Celeron® Processor N3350 or Intel® Pentium® Processor N4200

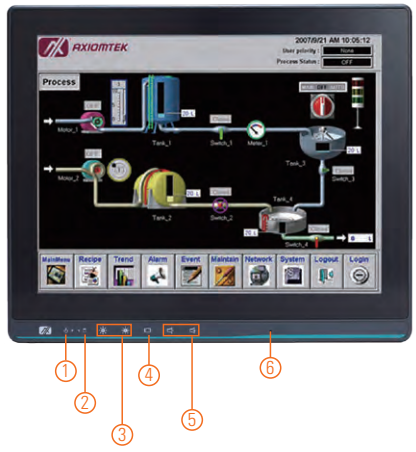
Features

- 15" XGA TFT LCD display with LED backlight
- Fanless design with Intel® Celeron® processor N3350 or Intel® Pentium® processor N4200
- 2 GbE LAN, 4 USB and 2 COM
- IP65-rated plastic front bezel
- Supports RFID and wireless module (optional)
- External AT/ATX mode selection switch
- Easy access storage & RAM design
- Supports panel mount, wall mount, VESA arm and desktop stand
- RS-232/422/485 with RI/5V/12V selectable by BIOS
- Programmable OSD function key

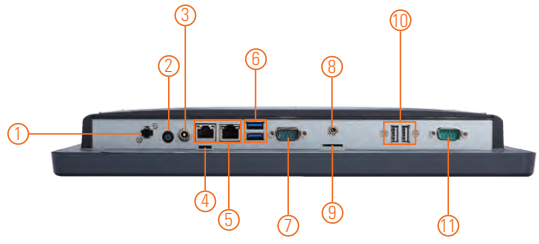


▲ Rear view





1. Power LED
2. HDD LED
3. Brightness adjust +/-
4. Display on/off
5. Volume +/-
6. Microphone



1. Remote power switch
2. Power button
3. Screw connector for adapter
4. AT/ATX switch
5. 2 x LAN
6. 2 x USB 3.0
7. 1 x RS-232/422/485
8. Line-out
9. Micro SD card slot
10. 2 x USB 2.0
11. 1 x RS-232

Introduction

The GOT115-319 is a 15" XGA fanless touch panel computer. In response to market demand, this panel computer is a cost effective solution. it adapts a modern, super sleek and fanless design and is equipped with Intel® Celeron® processor N3350 or Intel® Pentium® processor N4200. For wireless network connection, the GOT115-319 offers one PCI Express Mini Card slot and one M.2 Key E for wireless module. By just plugging in the WLAN card, customers can have instant access to wireless environment.

Super Slim Design
With a thickness of 50 mm, the GOT115-319 is a super slim touch panel computer for space-limited environment.

Support Front Membrane Keys
The GOT115-319 has 5 membrane keys on the front panel which allows users to adjust the LCD on/off, LCD brightness and volume setting easily

Aluminum Back Chassis with Excellent Thermal Solution
With Axiomtek's patent for plastic plus aluminum mechanism design, the GOT115-319 can dissipate the heat easily and keep the system operation stable.

Specifications

Front Bezel	IP65, NEMA 4 rugged protection, plastic front bezel	
LCD Panel	Display Type	15" XGA TFT LCD with LED backlight
	Brightness (cd/m^2)	300 nits (XGA)
	Resolution	1024 x 768
	Viewing Angel (H/V)	160°/160°
Main System	CPU	Intel® Celeron® processor N3350 2 cores (up to 2.4 GHz) Intel® Pentium® processor N4200 4 cores (up to 2.5 GHz)
	System Memory	1 x 204-pin DDR3L-1600 SO-DIMM, up to 8GB
	BIOS	AMI UEFI BIOS
	Storage	1 x 2.5" SATA HDD (9.5 mm height) 1 x mSATA 1 x MicroSD card
	Watchdog Timer	255 levels, 0 to 255 sec.
	Onboard Graphics	Integrated in Intel® GFX

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Specifications

I/O Connector	1 x RS-232/422/485 (default RS-232) 1 x RS-232 2 x 10/100/1000 Mbps Ethernet 2 x USB 3.0 2 x USB 2.0 1 x Screw type connector for power 1 x Power button (ATX) 1 x Remote power switch 1 x Audio (Line-out) 1 x ATX/AT selectable switch
Expansion Interface	1 x M.2 Key E for wireless module 1 x Full-size PCI Express Mini Card slot
Touchscreen	Projected capacitive multi-touch 5-wire flat resistive touch
Power Supply	DC version: 9 to 24 VDC with adapter cable
Power Consumption	28.8W
Dimensions	329.69 mm (13") (W) x 50 mm (2") (D) x 306 mm (12") (H)
Packing Dimensions	510 mm (20.1") (W) x 190 mm (7.5") (D) x 540 mm (21.2") (H)
Weight (net/gross)	3.2 kg (7.1 lb)/4.8 kg (10.6 lb)
Operating Temperature	0°C to +50°C (+32°F to +122°F)
Relative Humidity	10% - 90% @ +40°C; non-condensing
Operation Vibration	2G, 5 - 500Hz, random for SSD
Certifications	CE

Ordering Information

Standard	
GOT115-319-R DC	15" XGA fanless touch panel computer with Intel® Celeron® processor N3350 onboard, 5 wire resistive touch screen, EMI Class B, screw type connector with DC cable and logo
GOT115-319-PCT N4200 DC	15" XGA fanless touch panel computer with Intel® Pentium® processor N4200 onboard, projected capacitive multi-touch, EMI Class B, screw type connector with DC cable and logo

Optional Accessories

Wi-Fi + Bluetooth kit
Panel mount kit
Wall mount kit
Stand kit
RFID kit
Adapter

* Specifications and certifications may vary based on different requirements.

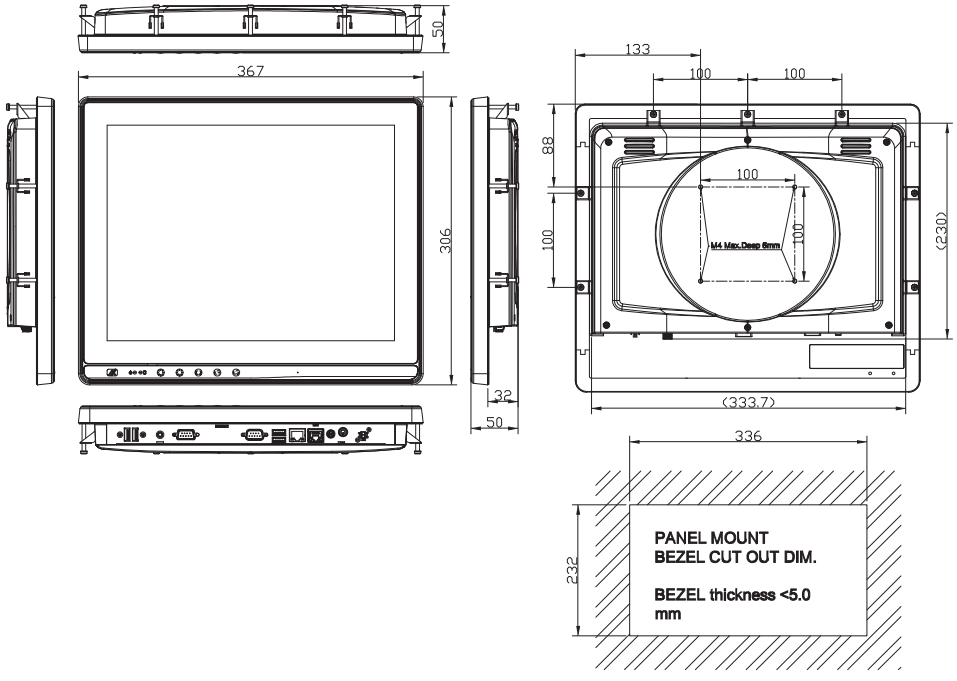
Optional OS Installation

Windows® 10



▲ AC power adapter (for GOT115-319)

Dimensions



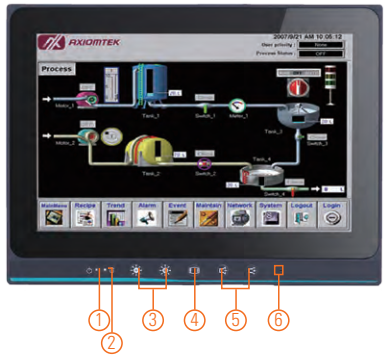
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GOT5103W-845

10.1" WXGA TFT Fanless Touch Panel Computer with Intel® Celeron® N3060 Processor or Intel® Pentium® N3710 Processor

Features

- 10.1" WXGA wide screen TFT LCD display with LED backlight
- Projected capacitive multi-touch
- Fanless design with Intel® Celeron® N3060 processor or Intel® Pentium® N3710 processor
- 1 mSATA and 1 half-slim SATA SSD (optional)
- 2 GbE LAN, 4 USB, 2 COM, 2W speakers and optional Mic-in
- IP65-rated front bezel and IPX1 full enclosure design
- Supports panel mount, wall mount, VESA arm and desktop stand
- External AT/ATX mode selection switch

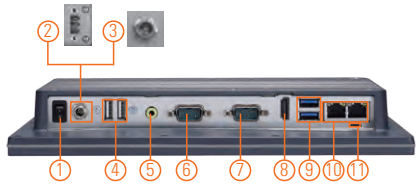


1. Power LED
2. HDD LED
3. Brightness adjust +/-
4. Display on/off
5. Volume adjust
6. Mic-in (optional)



▲ Side view





1. Power switch (ATX)
2. Terminal block for DC power input
or 3. Screw connector for AC power adapter
4. 2 x USB 2.0
5. 1 x Line-out
6. 1 x RS-232/422/485
7. 1 x RS-232
8. 1 x HDMI
9. 2 x USB 3.0
10. 2 x LAN
11. AT/ATX switch
12. Speaker

Fanless | Low Power | DDR3L | AiRD | IP65 | DualView

Introduction

The GOT5103W-845 is a 10.1" WXGA fanless touch panel computer. In response to market demand, this panel computer is a cost effective solution. It adopts a modern, sleek and fanless design and is equipped with the Intel® Celeron® N3060 processor or Intel® Pentium® N3710 processor. For wireless network connection, the GOT5103W-845 offers two PCI Express Mini Card slots. By just installing a WLAN card and antennas, customers can have instant access to wireless LAN/GPRS/GSM/4G environments. Besides, it provides two types of power input: DC power with terminal block connector and AC power adapter with screw type connector.

Slim & Lightweight Design
The GOT5103W-845 is slim and lightweight which make it fit for limited space installation.

Optional Internal WLAN Antenna
The GOT5103W-845 provides two PCI Express Mini Card slots and optional internal WLAN antennas for wireless network connections. Customers can use the GOT5103W-845 in wireless LAN/GPRS/GPS/4G environment.

Support Front Membrane Keys (optional)
The GOT5103W-845 has 5 membrane keys on the front panel which allows users to adjust the LCD on/off, LCD brightness and volume setting easily.

Specifications

Front Bezel	IP65, plastic front bezel	
LCD Panel	Display Type	10.1" WXGA TFT LCD withg LED backlight
	Brightness (cd/m^2)	350 nits
	Resolution	1280 x 800
Main System	CPU	Intel® Celeron® processor N3060 2 cores (up to 2.48 GHz) Intel® Pentium® processor N3710 4 cores (up to 2.56 GHz)
	System Memory	1 x 204-pin DDR3L-1600 SO-DIMM, up to 8GB
	BIOS	AMI UEFI BIOS
	Storage	1 x Half-slim SATA SSD (only for GOT5103W-845-PCT-J) 1 x mSATA
	Watchdog Timer	255 levels, 0 to 255 sec.
	Onboard Graphics	Integrated Intel® HD GFX

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Specifications

I/O Connector	1 x RS-232 1 x RS-232/422/485 1 x HDMI 1 x Switch for power on/off 1 x AT/ATX mode selection switch 2 x USB 2.0 2 x USB 3.0 1 x Audio (Line-out) 2 x 10/100/1000 Mbps Ethernet (Intel® i211-AT)
TPM	N/A
Expansion Interface	1 x Full-size PCI Express Mini Card with mSATA 1 x Full-size PCI Express Mini Card with SIM
Touchscreen	Projected capacitive multi-touch
Power Supply	AC version: 100 to 240 VAC-DC, 60W power adapter or DC version: 24 VDC with over current protection fuse
Power Consumption	40.32W
Dimensions	260.8 mm (10.27") (W) x 38 mm (1.50" (D) x 194.1 mm (7.65") (H)
Packing Dimensions	380 mm (14.96") (W) x 100 mm (3.94") (D) x 280 mm (11.02") (H)
Weight (net/gross)	1.08 kg (2.38 lb)/2.18 kg (4.8 lb)
Operating Temperature	0°C to +50°C (+32°F to +122°F) 0°C to + 45°C (+32°F to + 113°F) (GOT5103W-845 N3710)
Relative Humidity	20% to 90% @ 40oC; non-condensing
Operation Vibration	2G, 10 - 500Hz, random for SSD
Certifications	CE, FCC, UL60950-1

* W.T.: Wide Temperature. All W.T. supported products have to be sorted by Axiomtek.

Packing List

1 x GOT5103W-845
1 x Driver CD
1 x Adapter (GOT5103W-845-J)
1 x Power cord (GOT5103W-845-J)
1 x Phoenix connector (GOT5103W-845 24 VDC)

Ordering Information

Standard	
GOT5103W-845-PCT-J	10.1" WXGA fanless touch panel computer with Intel® Celeron® processor N3060, projected capacitive multi-touch screen, AC-DC 60W power adapter (screw type connector) and EMI class A
GOT5103W-845-PCT-24VDC	10.1" WXGA fanless touch panel computer with Intel® Celeron® processor N3060, projected capacitive multi-touch screen and 24 VDC terminal block connector
GOT5103W-845-PCT-J N3710	10.1" WXGA fanless touch panel computer with Intel® Pentium® processor N3710, projected capacitive multi-touch screen, AC-DC 60W power adapter (screw type connector) and EMI class A
GOT5103W-845-PCT 24VDC N3710	10.1" WXGA fanless touch panel computer with Intel® Pentium® processor N3710, projected capacitive multi-touch screen and 24 VDC terminal block connector

Optional Accessories

Wi-Fi + Bluetooth kit	
82251030080E	GOT5103W-845 half slim SSD kit SFP for GOT5103W-845-PCT-J
881251030A0E	Panel mount kit
881238460A0E	Wall mount kit
881251203A0E	RFID kit
E226171119	Stand kit

* Specifications and certifications may vary based on different requirements.

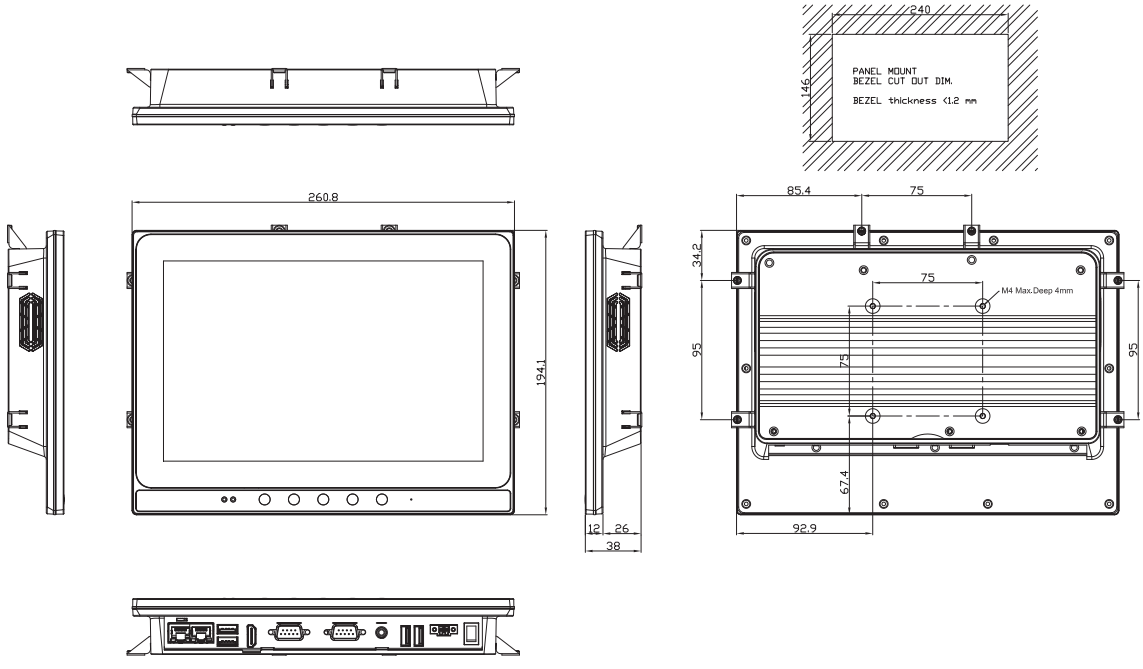
Optional EOS Installation

WES7
WE8S (64-bit)
Windows® 10 IoT Enterprise (64bit)

Optional OS Installation

Windows® 7
Windows® 8.1 (64-bit)
Windows® 10

Dimensions



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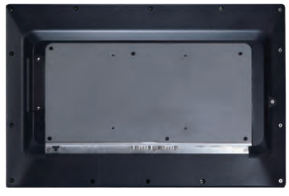
GOT5153W-845

15.6" WXGA TFT Fanless Touch Panel Computer with Intel® Celeron® Processor N3060

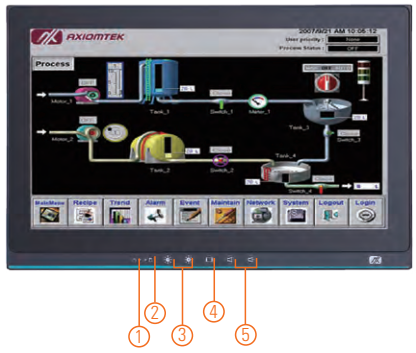
Features

- 15.6" WXGA wide screen TFT LCD display with LED backlight
- Projected capacitive touch or 5-wire flat resistive touch
- Fanless design with Intel® Celeron® processor N3060
- 2.5" SATA HDD or mSATA
- 2 GbE LANs, 4 USB, 2 COM and speakers
- IP65-rated front bezel and IPX1 full enclosure
- Supports wall mount, VESA arm and desktop stand
- Supports RFID (optional)

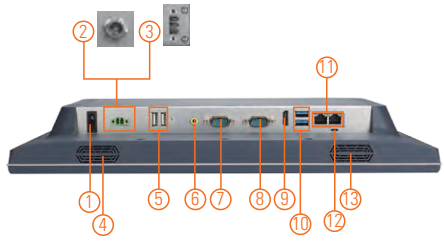




▲ Rear view



1. Power LED
2. HDD LED
3. Brightness adjust +/-
4. Display on/off
5. Volume adjust



1. Power switch (ATX)
2. Power input connector (screw)
3. Power input connector (phoenix)
4. Speaker
5. 2 x USB 2.0
6. 1 x Line-out
7. 1 x RS-232/422/485
8. 1 x RS-232
9. 1 x HDMI
10. 2 x USB 3.0
11. 2 x LAN
12. AT/ATX selectable switch
13. Speaker

Fanless | Low Power | DDR3L | AiRD | IP65 | DualView

Introduction

The GOT5153W-845 is a 15.6" WXGA fanless touch panel computer. In response to market demand, this panel computer is a cost effective solution. It adopts a modern, sleek and fanless design and is equipped with the Intel® Celeron® processor N3060 up to 2.48 GHz. For wireless network connection, the GOT5153W-845 offers two PCI Express Mini Card slots. By just plugging in a WLAN card, customers can have instant access to wireless LAN/GPRS/GSM/4G environments. Besides, it provides two types of power input. One is DC power input (9 to 36VDC) with terminal block connector, and another is AC power adapter with screw type connector.

Slim & Lightweight Design
The GOT5153W-845 is slim and lightweight which make it fit for limited space installation.

Built-in Internal WLAN Antenna
The GOT5153W-845 provides two PCI Express Mini Card slots and a built-in WLAN antenna for wireless network connections. By simply plugging in the wireless LAN card, customers can use the GOT5153W-845 in wireless LAN/GPRS/GPS/4G environment.

Support Front Membrane Keys (optional)
The GOT5153W-845 has 5 membrane keys on the front panel which allows users to adjust the LCD on/off, LCD brightness and volume setting easily.

Specifications

Front Bezel	IP65, NEMA 4 rugged protection, plastic front bezel	
LCD Panel	Display Type	15.6" WXGA TFT LCD with LED backlight
	Brightness (cd/m^2)	300 nits
	Resolution	1366 x 768
Main System	CPU	Intel® Celeron® processor N3060 2 cores (up to 2.48 GHz)
	System Memory	1 x 204-pin DDR3L-1600 SO-DIMM, up to 8GB
	BIOS	AMI UEFI BIOS
	Storage	1 x 2.5" SATA HDD (9.5 mm height) (AC version only) 1 x mSATA
	Watchdog Timer	255 levels, 0 to 255 sec.
	Onboard Graphics	Integrated Intel® HD GFX

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Specifications

I/O Connector	1 x RS-232/422/485 (default RS-232) 1 x RS-232 1 x AT/ATX mode selection switch 1 x Switch for power on/off 2 x USB 2.0 2 x USB 3.0 1 x HDMI 1 x Audio (Line-out) 2 x 10/100/1000 Mbps Ethernet (Intel® i211-AT)
TPM	N/A
Expansion Interface	1 x Full-size PCI Express Mini Card with mSATA 1 x Full-size PCI Express Mini Card with SIM
Touchscreen	Projected capacitive multi-touch 5-wire flat resistive touch
Power Supply	DC version: 9 to 36 VDC with over-current protection fuse AC version: 100 to 240 VAC-DC, 60W power adapter
Power Consumption	30W
Dimensions	394.2 mm (15.53") (W) x 57 mm (2.25") (D) x 257.2 mm (10.13") (H)
Packing Dimensions	510 mm (20.09") x 190 mm (7.48") x 540 mm (21.26")
Weight (net/gross)	3.0 kg (6.61 lb)/4.5 kg (9.92 lb)
Operating Temperature	0°C to +50°C (+32°F to +122°F) with W.T. DRAM/SSD
Relative Humidity	20% to 90% @ 40°C; non-condensing
Operation Vibration	2G, 5 - 500Hz, random for CFast™
Certifications	CE, FCC, UL60950-1

* W.T.: Wide Temperature. All W.T. supported products have to be sorted by Axiomtek.

Packing List

1 x GOT5153W-845
1 x Driver CD
1 x Adapter (GOT5153W-845-J)
1 x Power cord (GOT5153W-845-J)
1 x Phoenix connector (GOT5153W-845 24 VDC)

Ordering Information

Standard	
GOT5153W-845-PCT-J	15.6" WXGA fanless touch panel computer with Intel® Celeron® processor N3060, projected capacitive multi-touch screen and AC-DC 60W power adapter (screw type connector)
GOT5153W-845-FR-J	15.6" WXGA fanless touch panel computer with Intel® Celeron® processor N3060, 5-wire flat resistive touch screen and AC-DC 60W power adapter (screw type connector)

Optional Accessories

Wi-Fi + Bluetooth kit	
881251203A0E	RFID kit
E226171119	Stand kit
82231770050E	Wall mount kit

* Specifications and certifications may vary based on different requirements.

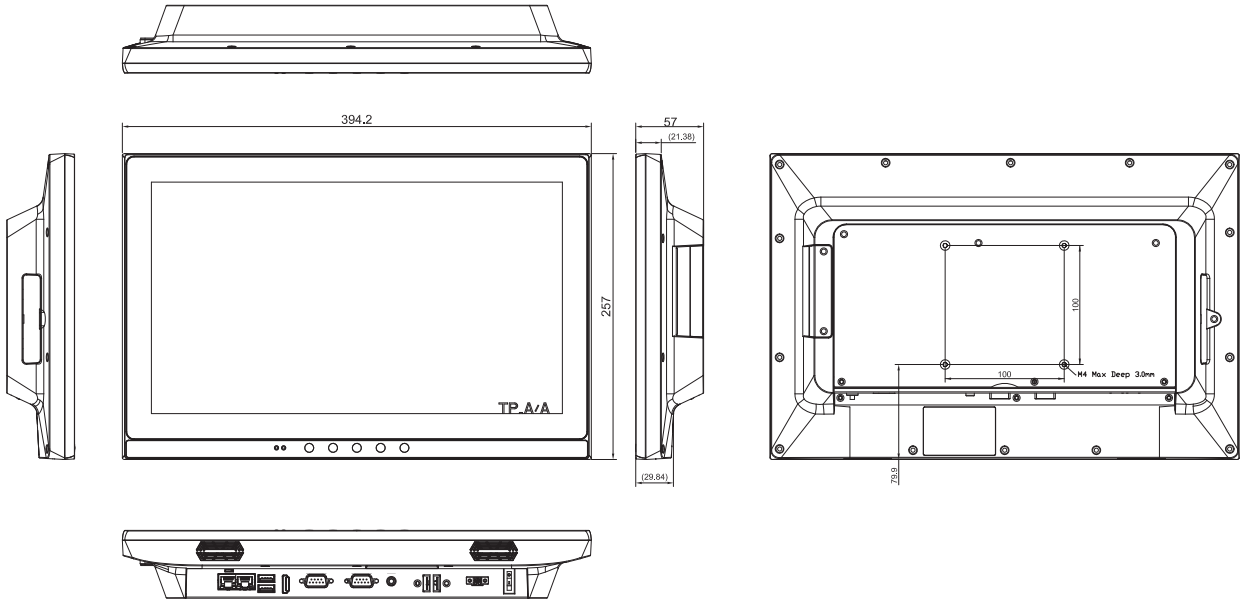
Optional EOS Installation

WES7
WE8S (64-bit)
Windows® 10 IoT Enterprise 64-bit

Optional OS Installation

Windows® 7
Windows® 8.1 (64-bit)
Windows® 10

Dimensions



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Fanless Touch Panel Computers

Heavy-duty Fanless Touch Panel Computers

Stainless Touch Panel Computers

Transportation Touch Panel Computers and Monitors

Industrial Touch Panel Computers

Industrial Touch Monitors

Medical Panel Computers

Open Frame Panel Computer

Industrial Panel PCs

2 Heavy-duty Fanless Touch Panel Computers

Axiomtek's heavy-duty GOT300 series is designed for kiosk and automation applications. It has a fashionable mechanism design and industrial-grade IP65-rated front bezel for water/dust-proof operation. It is suitable for use in industrial automation and control systems, building automation, machinery manufacturing environments, self-service kiosks, and other HMI applications.

Selection Guide		315
GOT315WL-845-PCT	15.6" WXGA TFT Multi-touch Panel Computer with Intel® Pentium® Processor N3710	317
GOT317-502-FR	17" SXGA TFT Expandable Touch Panel Computer with 7th/6th Gen Intel® Core™ i7/i5/i3 Processor	319
GOT318WL-845-PCT	18.5" WXGA TFT Multi-touch Panel Computer with Intel® Pentium® Processor N3710	321
GOT321W-502-PCT	21.5" FHD TFT Multi-touch Panel Computer with 7th/6th Gen Intel® Core™ i7/i5/i3 Processor	323

Heavy-duty Fanless Touch Panel Computers

Selection Guide







Features\Models	GOT315WL-845-PCT	GOT317-502-FR	GOT318WL-845-PCT
CPU Level	Intel® Pentium® processor N3710 4C @ 1.6 GHz (Braswell)	LGA1151 socket 7th/6th gen Intel® Core™ i7/i5/i3, Pentium® & Celeron® (Kaby lake/Skylake)	Intel® Pentium® processor N3710 4C @ 1.6 GHz (Braswell)
Chipset	SoC integrated	Intel® H110	SoC integrated
System Memory	1 x 204-pin DDR3L-1333/1600 SO-DIMM, up to 8GB	2 x 260-pin DDR4-2400 SO-DIMM, up to 32GB	1 x 204-pin DDR3L-1333/1600 SO-DIMM, up to 8GB
Display	15.6" WXGA TFT LCD, 400 nits	17" SXGA TFT, 350 nits	18.5" WXGA TFT LCD, 250 nits
I/O	1 x RS-232 1 x RS-232/422/485 1 x Switch for power on/off (ATX) 1 x Audio (Line-out) 2 x USB 3.0 2 x USB 2.0 2 x 10/100/1000 Mbps Ethernet (Intel® i217-LM & i210-AT)	2 x RS-232/422/485 1 x HDMI v1.4 1 x VGA (up to 1920 x 1200 60Hz) 1 x DisplayPort v1.2 (DP++) 4 x USB 3.0 2 x 10/100/1000 Mbps Ethernet (Intel® i219LM/i211AT) 1 x Audio (Mic-in/Line-out)	1 x RS-232 1 x RS-232/422/485 1 x Switch for power on/off (ATX) 1 x Audio (Line-out) 2 x USB 3.0 2 x USB 2.0 2 x 10/100/1000 Mbps Ethernet (Intel® i217-LM & i210-AT)
Storage	1 x 2.5" SATA HDD 1 x mSATA	1 x 2.5" SATA HDD	1 x 2.5" SATA HDD 1 x mSATA
Expansion Interface	1 x Full-size PCI Express Mini Card slot 1 x Full-size PCI Express Mini Card slot	1 x Half-size PCI Express Mini Card slot 1 x Full-size PCI Express Mini Card slot	1 x Full-size PCI Express Mini Card slot 1 x Full-size PCI Express Mini Card slot
Touchscreen	Projected capacitive multi-touch	Flat resistive touch	Projected capacitive multi-touch / Flat resistive touch (optional)
Operating System	Windows® 10	Skylake: Windows® 7, Windows® 8.1, Windows® 10 Kaby Lake: Windows® 10	Windows® 10
Power Supply	DC version: 24 VDC	DC terminal block: +12V / +19V / +24V AC adapter: 19V, 6.32A	DC version: 24 VDC
Power Consumption	72W	120W (include 35W processor)	48W
Watchdog Timer	255 levels, 0 to 255 sec.	255 levels, 0 to 255 sec.	255 levels, 0 to 255 sec.
Dimensions (W x D x H)	396.8 x 59.0 x 247.1 mm (15.62" x 2.3" x 9.73")	398.02 x 77.5 x 330.44 mm (15.67" x 3.05" x 13.01")	460.8 x 58.5 x 285 mm (18.11" x 2.3" x 11.22")
Weight (net/gross)	4.5 kg (9.9 lb)/6.5 kg (14.3 lb)	6.7 kg (14.77 lb)/9.0 kg (19.84 lb)	5.8 kg (12.8 lb)/8.2 kg (18.1 lb)
Operating Temperature	0°C to +50°C (+32°F to +122°F)	0°C to +40°C (+32°F to +104°F)	0°C to +50°C (+32°F to +122°F)
Certifications	CE	CE	CE

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Features\Models	GOT321W-502-PCT
CPU Level	LGA1151 socket 7th/6th gen Intel® Core™ i7/i5/i3, Pentium® & Celeron® (Kaby lake/Skylake)
Chipset	Intel® H110
System Memory	2 x 260-pin DDR4-2400 SO-DIMM, up to 32GB
Display	21.5" FHD TFT, 250 nits
I/O	2 x RS-232/422/485 1 x HDMI v1.4 1 x VGA (up to 1920 x 1200 60Hz) 1 x DisplayPort v1.2 (DP++) 4 x USB 3.0 2 x 10/100/1000 Mbps Ethernet (Intel® i219-LM/i211-AT) 1 x Audio (Mic-in/Line-out)
Storage	1 x 2.5" SATA HDD
Expansion Interface	1 x Half-size PCI Express Mini Card slot 1 x Full-size PCI Express Mini Card slot
Touchscreen	10-point projected capacitive multi-touch
Operating System	Skylake: Windows® 7, Windows® 8.1, Windows® 10 (64-bit) Kaby Lake: Windows® 10
Power Supply	DC terminal block: +12V / +19V / +24V AC adapter: 19V, 6.32A
Power Consumption	105W
Watchdog Timer	255 levels, 0 to 255 sec.
Dimensions (W x D x H)	547.59 x 339.05 x 75.6 mm (21.56" x 13.49" x 2.98")
Weight (net/gross)	8.4 kg (18.5 lb)/11.3 kg (24.9 lb)
Operating Temperature	0°C to +40°C (+32°F to +104°F)
Certifications	CE

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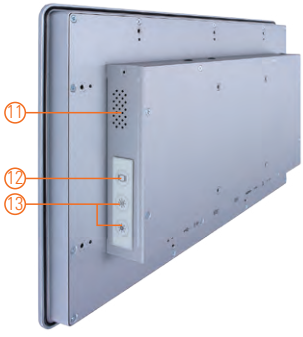
GOT315WL-845-PCT

15.6" WXGA TFT Multi-touch Panel Computer with Intel® Pentium® Processor N3710

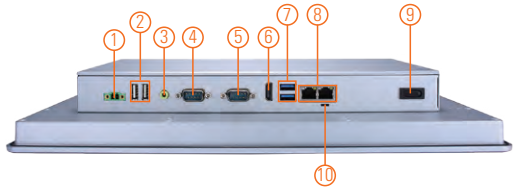
Features

- 15.6" WXGA projected capacitive multi-touch widescreen
- Fanless design with Intel® Pentium® processor N3710
- 2.5" SATA HDD & mSATA
- 3G, WLAN module & antennas (optional)
- 2 GbE LANs, 2 USB 3.0, 2 USB 2.0 and 2 COM
- IP65-rated aluminum front bezel
- Supports panel mount and VESA mount (VESA arm/desktop stand/wall mount optional)
- Adjustable RS-232/422/485 setting via BIOS





▲ Rear view



1. Terminal block for DC power input
2. 2 x USB 2.0
3. 1 x Line-out
4. 1 x RS-232/422/485
5. 1 x RS-232
6. 1 x HDMI
7. 2 x USB 3.0
8. 2 x LAN
9. Power switch (ATX)
10. AT/ATX selectable switch
11. Speaker
12. Blacklight switch
13. Brightness adjust +/-



Introduction

The GOT315WL-845 has a 15.6-inch WXGA LCD and supports the low power Intel® Pentium® processor N3710. It also provides two PCI Express Mini Card slots for 3G, wireless network connectivity. This 15.6" multi-touch panel computer is suitable for transportation, heavy-duty industry, smart factory automation, and oil pipe monitoring systems.

15.6-inch WXGA LCD with Projected Capacitive Multi-touch
The 15.6" WXGA touch panel PC supports 400 nits brightness, able to display contents in HD resolution. With projected capacitive multi-touch screen, users can operate the device more directly and friendly. The hardness of touch glass surface is up to 7h for anti-scratch purpose.

WALN Antenna Supported (optional)
The GOT315WL-845 provides two PCI Express Mini Card slots and WLAN antennas for 3G and wireless network connectivity.

Specifications

Front Bezel	IP65 front bezel	
LCD Panel	Display Type	15.6" WXGA TFT LCD
	Brightness (cd/m^2)	400 nits
	Resolution	1366 x 768
Main System	CPU	Intel® Pentium® processor N3710 4C @ 1.6 GHz (Braswell)
	Chipset	SoC integrated
	System Memory	1 x 204-pin DDR3L-1333/1600 SO-DIMM, up to 8GB
	BIOS	AMI UEFI BIOS
	Storage	1 x 2.5" SATA HDD (9.5 mm height) 1 x mSATA
	Watchdog Timer	255 levels, 0 to 255 sec.
	Onboard Graphics	Integrated Intel® HD Graphics

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Specifications

I/O Connector	1 x RS-232 1 x RS-232/422/485 1 x Switch for power on/off (ATX) 1 x Audio (Line-out) 2 x USB 3.0 2 x USB 2.0 2 x 10/100/1000 Mbps Ethernet (Intel® i211-AT)
TPM	N/A
Expansion Interface	1 x Full-size PCI Express Mini Card slot with mSATA 1 x Full-size PCI Express Mini Card slot with SIM
Touchscreen	Projected capacitive multi-touch
Power Supply	DC version: 24 VDC
Power Consumption	72W
Dimensions	396.8 mm (15.62") (W) x 59.0 mm (2.3") (D) x 247.1 mm (9.73") (H)
Packing Dimensions	525 mm (20.67") (W) x 186 mm (7.32") (D) x 470 mm (18.51") (H)
Weight (net/gross)	4.5 kg (9.9 lb)/6.5 kg (14.3 lb)
Operating Temperature	0°C to +50°C (+32°F to +122°F)
Relative Humidity	20% to 90% @ +40°C; non-condensing
Operation Vibration	1G, 10 - 500 Hz, random for 2.5" SATA HDD
Certifications	CE

Packing List

1 x GOT315WL-845
1 x Driver CD
1 x Phoenix connector
1 x Panel mount kit

Ordering Information

GOT315WL-845-PCT-DC	15.6" WXGA TFT fanless touch panel computer with Intel® Pentium® N3710 1.6 GHz processor, projected capacitive multi-touch screen and 24 VDC terminal block connector

Optional Accessories

Wi-Fi	
4G	
82231770050E	GOT3177T-834 wall mount kit
50906D24000E	Adaptor 24V/120W, wire only, FSP120-AAAN3

*Specifications and certifications may vary based on different requirements.

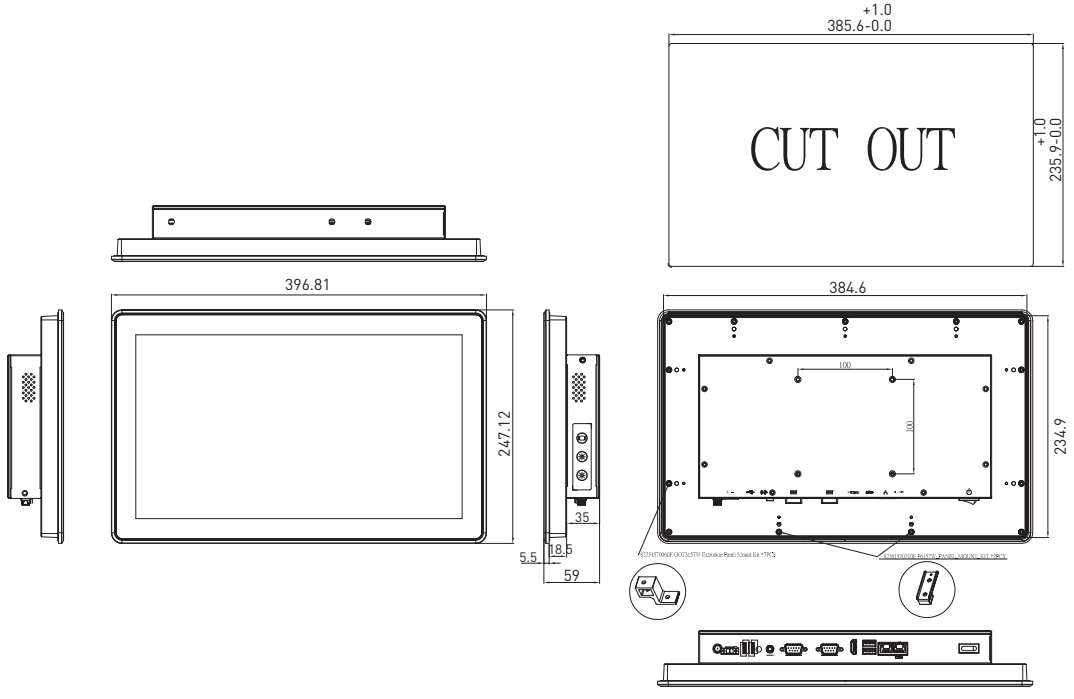
Optional EOS Installation

Windows® 10 IoT Enterprise

Optional OS Installation

Windows® 10

Dimensions



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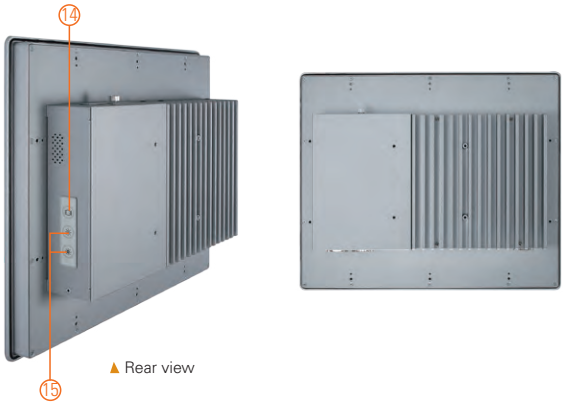
GOT317-502-FR

17" SXGA TFT Expandable Touch Panel Computer with 7th/6th Gen Intel® Core™ i7/i5/i3 Processor (0°C to +40°C)

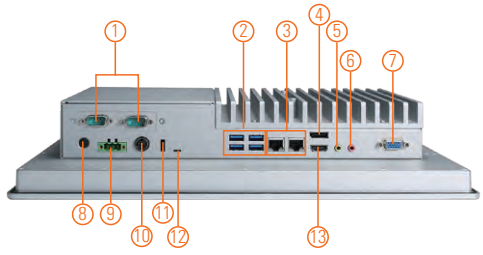
Features

- 17" SXGA TFT flat resistive touch
- LGA1151 socket 7th/6th gen Intel® Core™ i7/i5/i3, Celeron® & Pentium® processor
- Intel® H110 chipset
- 4 USB 3.0 and 2 COM
- 2.5" SATA HDD and mSATA
- WLAN module & antenna (optional)
- IP65 front bezel
- Supports panel mount and VESA mount (VESA arm/desktop stand/wall mount optional)
- Built-in speakers and removable hard drive design





▲ Rear view



1. 2 x COM (cable)
2. 4 x USB 3.0
3. 2 x LAN
4. 1 x DisplayPort
5. 1 x Line-out
6. 1 x Mic-in
7. 1 x VGA (cable)
8. Power button (ATX)
9. Terminal block for DC power input
10. Power input connector
11. Remote power switch port
12. AT/ATX selectable switch
13. 1 x HDMI
14. Backlight switch
15. Brightness adjust +/-
16. Swappable HDD



▲ Top view

Fanless | DualView | DDR4 | USB 3.0 | IP65

Introduction

The GOT317-502-FR is a multimedia 17" SXGA touch panel PC for kiosk application. It has a fashionable mechanism design and industrial-grade front bezel which can avoid damage from chemical corrosion. To meet the demands of multimedia application, the GOT317-502-FR is powered by the high performance LGA1151 socket 7th/6th generation Intel® Core™ processor with the Intel® H110 chipset. It features two COM ports, two Gigabit Ethernet and up to 32GB memory of dual-channel DDR4-2400. The industrial touch panel PC is suitable for kiosk and factory automation.

Removable hard drive design

The GOT317-502-FR has designed with removable HDD. User can easily plug in standard 2.5" HDD based on any application needs.

Speaker and WLAN Antenna Supported

The GOT317-502-FR features built-in speakers for kiosk application to display multimedia content. It also supports WLAN module antenna (optional) for wireless network connectivity.

Specifications

Front Bezel	Aluminum w/ IP65/NEMA 4 rugged protection	
LCD Panel	Display Type	17" SXGA TFT LCD
	Brightness	350 nits
	Resolution	1280 x 1024 pixels
	Viewing Angle	160°/140°
Main System	CPU	LGA1151 socket 7th/6th gen Intel® Core™ i7/i5/i3, Celeron® & Pentium® processor
	Chipset	Intel® H110
	System Memory	2 x 260-pin DDR4-2400 SO-DIMM, up to 32GB
	BIOS	AMI UEFI BIOS
	Storage	1 x 2.5" SATA HDD
	Drive	N/A
	Watchdog Timer	255 levels, 1 to 255 sec.

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Specifications

IO Connector	2 x RS-232/422/485 1 x HDMI v1.4 1 x VGA (up to 1920 x 1200 60Hz) 1 x DisplayPort v1.2 (DP++) 4 x USB 3.0 2 x 10/100/1000 Mbps Ethernet 1 x Audio (Mic-in/Line-out)
Expansion Interface	1 x Half-size PCI Express Mini Card slot (mPCIe 1) 1 x Full-size PCI Express Mini Card slot (mSATA_mPCIe 2)
Touchscreen	5-wire flat resisitve touch
Power Supply	DC terminal block: +12V/+19V/+24V AC adapter: 19V, 6.32A
Power Consumption	120W (include 35W processor)
Dimensions	398.02 mm (15.67") (W) x 77.5 mm (3.05") (D) x 330.44 mm (13.01") (H)
Packing Dimension	510 mm (20.08") (W) x 190 mm (7.48") (D) x 540 mm (21.26") (H)
Weight (net/gross)	6.7 kg (14.77 lb)/9.0 kg (19.84 lb)
Environment	Operating temperature: 0°C to +40°C (+32°F to +104°F) Relative humidity: 10% to 90% @ +40°C, non-considering Operating vibration: 1.0G, 5 to 500Hz, random
Certificate	CE

Ordering Information

GOT317-502-FR-DC	17" SXGA TFT fanless touch panel computer with LGA1151 socket 7th/6th gen Intel® Core™, Pentium®, Celeron® processor, 5-wire flat resistive touch screen and 12/19/24 VDC terminal block connector

* Specification and certifications are based on requirements and may vary.

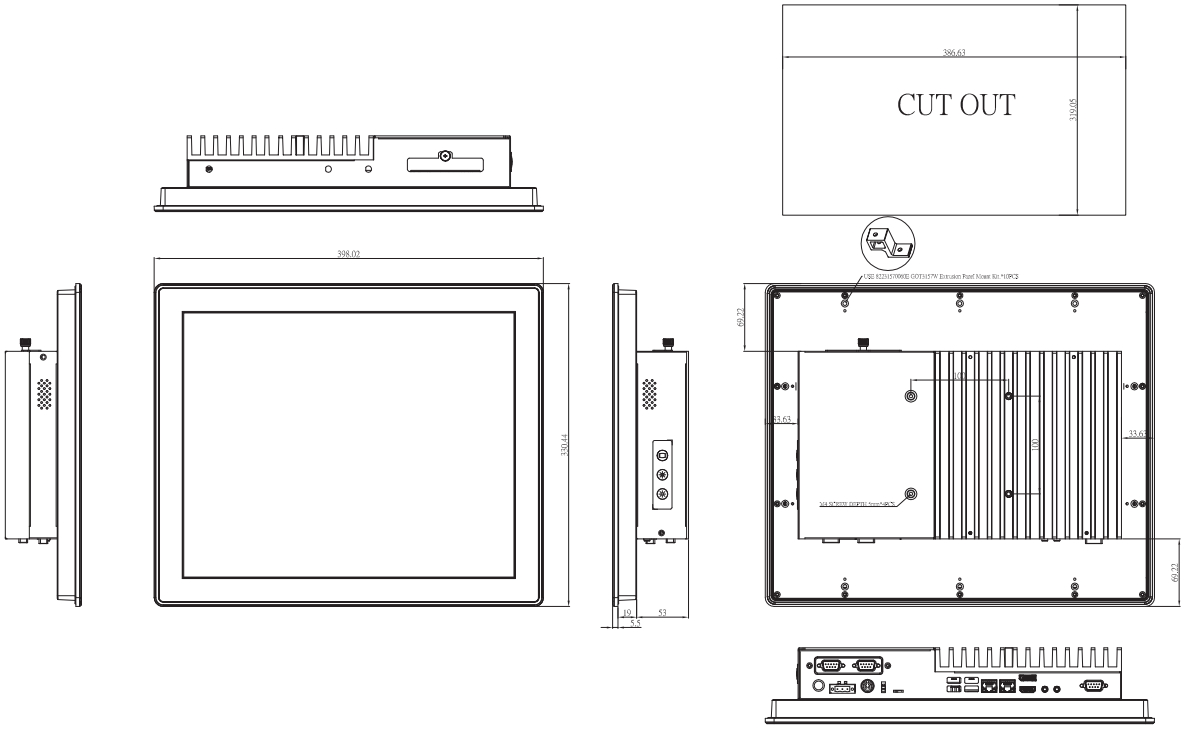
Optional Accessories

82231770050E	GOT3177T-834 wall mount kit

Optional OS Installation

Windows® 7 32/64-bit, Windows® 8.1 64-bit, Windows® 10 64-bit (Sky Lake)
Windows® 10 64-bit (Kaby Lake)

Dimensions



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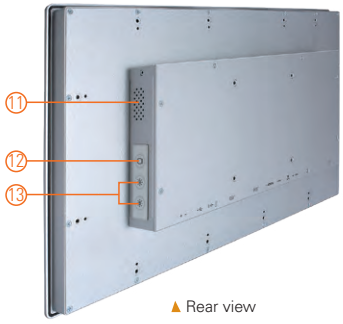
GOT318WL-845-PCT

18.5" WXGA TFT Multi-touch Panel Computer with Intel® Pentium® Processor N3710

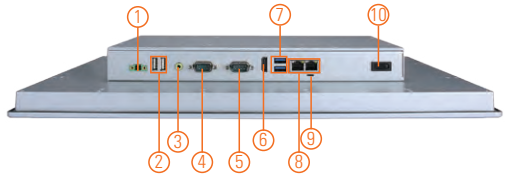
Features

- 18.5" WXGA multi-touch projected capacitive widescreen or flat resistive touch (optional)
- Fanless design with Intel® Pentium® processor N3710
- 2.5" SATA HDD & mSATA
- 3G, WLAN module & antennas (optional)
- 2 GbE LANs, 2 USB 3.0, 2 USB 2.0 and 2 COM
- IP65-rated aluminum front bezel
- Supports panel mount and VESA mount (VESA arm/desktop stand/wall mount optional)
- Adjustable RS-232/422/485 setting via BIOS





▲ Rear view



1. Terminal block for DC power input
2. 2 x USB 2.0
3. 1 x Line-out
4. 1 x RS-232/422/485
5. 1 x RS-232
6. 1 x HDMI
7. 2 x USB 3.0
8. 2 x LAN
9. AT/ATX selectable switch
10. Power switch (ATX)
11. Speaker
12. Backlight switch
13. Brightness adjust +/-



Introduction

The GOT318WL-845 adopts an 18.5-inch WXGA LCD and supports low power Intel® Pentium® processor N3710. It also provides two PCI Express Mini Card slots for 3G, wireless network connectivity. This 18.5" multi-touch panel computer is suitable for transportation, heavy-duty industry, smart factory automation, and oil pipe monitoring systems.

18.5-inch WXGA LCD with Projected Capacitive Multi-touch
The 18.5" WXGA touch panel PC supports 250 nits brightness, able to display contents in HD resolution. With projected capacitive multi-touch screen, users can operate the device more directly and friendly. The hardness of touch glass surface is up to 7h for anti-scratch purpose.

WALN Antenna Supported (optional)
The GOT318WL-845 provides two PCI Express Mini Card slots and WLAN antennas for 3G and wireless network connectivity.

Specifications

Front Bezel	IP65 front bezel	
LCD Panel	Display Type	18.5" WXGA TFT LCD
	Brightness (cd/m^2)	250 nits
	Resolution	1366 x 768
Main System	CPU	Intel® Pentium® processor N3710 4C @ 1.6 GHz (Braswell)
	Chipset	SoC integrated
	System Memory	1 x 204-pin DDR3L-1333/1600 SO-DIMM, up to 8GB
	BIOS	AMI UEFI BIOS
	Storage	1 x 2.5" SATA HDD (9.5 mm height) 1 x mSATA
	Watchdog Timer	255 levels, 0 to 255 sec.
	Onboard Graphics	Integrated Intel® HD Graphics

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Specifications

I/O Connector	1 x RS-232 1 x RS-232/422/485 1 x Switch for power on/off (ATX) 1 x Audio (Line-out) 2 x USB 3.0 2 x USB 2.0 2 x 10/100/1000 Mbps Ethernet (Intel® i211-AT)
TPM	N/A
Expansion Interface	1 x Full-size PCI Express Mini Card slot with mSATA 1 x Full-size PCI Express Mini Card slot with SIM
Touchscreen	Projected capacitive multi-touch/5-wire flat resistive touch (optional)
Power Supply	DC version: 24 VDC
Power Consumption	48W
Dimensions	460.8 mm (18.11") (W) x 58.5 mm (2.3") (D) x 285 mm (11.22") (H)
Packing Dimensions	600 mm (23.58") (W) x 195 mm (7.67") (D) x 500 mm (19.68") (H)
Weight (net/gross)	5.8 kg (12.8 lb)/8.2 kg (18.1 lb)
Operating Temperature	0°C to +50°C (+32°F to +122°F)
Relative Humidity	20% to 90% @ +40°C; non-condensing
Operation Vibration	1G, 10 - 500 Hz, random for 2.5" SATA HDD
Certifications	CE

Packing List

1 x GOT318WL-845
1 x Driver CD
1 x Phoenix connector
1 x Panel mount kit

Ordering Information

GOT318WL-845-PCT-DC	18.5" WXGA TFT fanless touch panel computer with Intel® Pentium® N3710 1.6 GHz processor, projected capacitive multi-touch screen and 24 VDC terminal block connector

Optional Accessories

Wi-Fi	
4G	
82231770050E	GOT3177T-834 wall mount kit
50906D24000E	Adaptor 24V/120W, wire only, FSP120-AAAN3

* Specifications and certifications may vary based on different requirements.

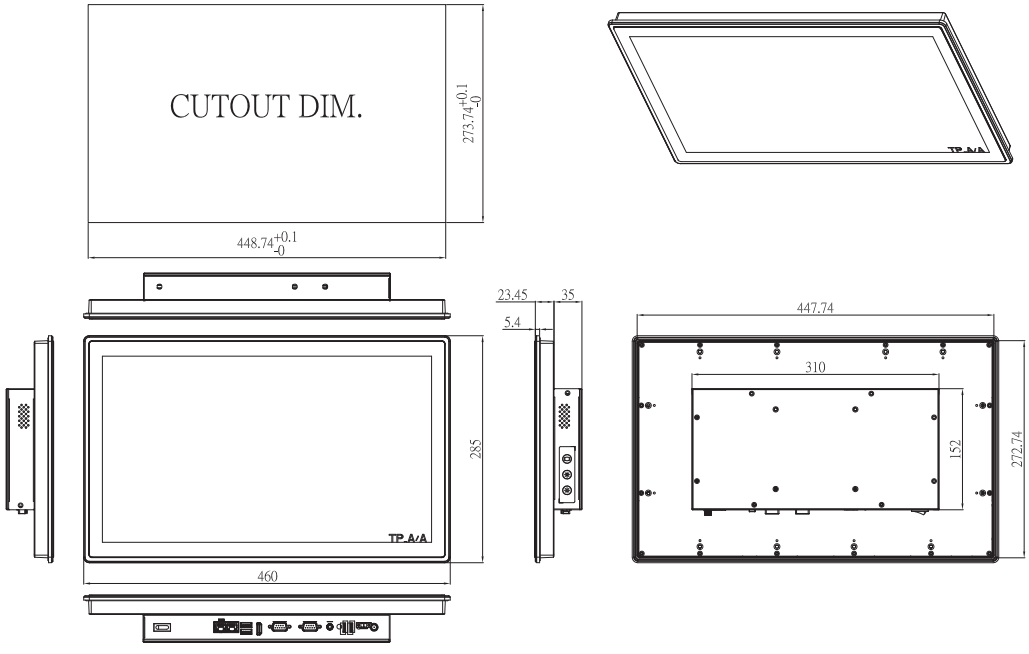
Optional EOS Installation

Windows® 10 IoT Enterprise

Optional OS Installation

Windows® 10

Dimensions



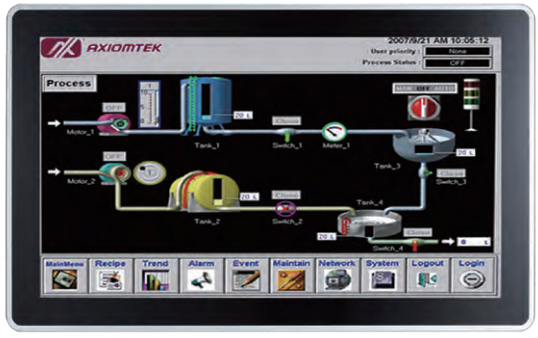
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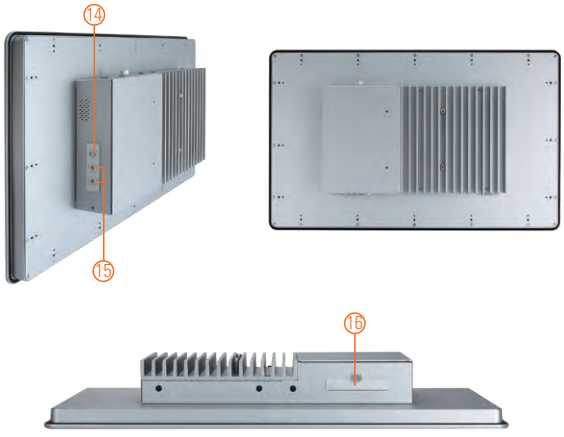
GOT321W-502-PCT

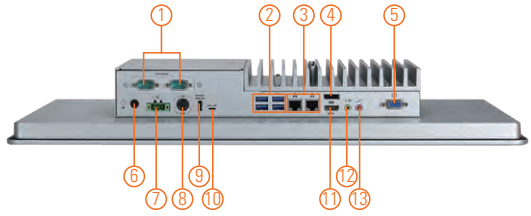
21.5" FHD TFT Multi-touch Panel Computer with 7th/6th Gen Intel® Core™ i7/i5/i3 Processor

Features

- 21.5" FHD 10-point multi-touch projected capacitive widescreen
- LGA1151 socket 7th/6th gen Intel® Core™ i7/i5/i3, Celeron® & Pentium® processor
- Intel® H110 chipset
- 4 USB 3.0 and 2 COM
- 2.5" SATA HDD and mSATA
- WLAN module & antenna (optional)
- IP65-rated front bezel
- Supports panel mount and VESA mount (VESA arm/desktop stand/wall mount optional)
- Built-in speakers and swappable hard drive design







1. 2 x COM (cable)
2. 4 x USB 3.0
3. 2 x LAN
4. 1 x DisplayPort
5. 1 x VGA
6. Power button (ATX)
7. Terminal block for DC power input
8. Power input for adapter
9. Remote power switch
10. AT/ATX selectable switch
11. 1 x HDMI
12. 1 x Line-out
13. 1 x Mic-in
14. Backlight switch
15. Brightness adjust +/-
16. Swappable HDD



Introduction

The GOT321W-502-PCT is a 21.5" multi-touch panel PC for kiosk and automation applications. It has a fashionable mechanism design and industrial-grade IP61-rated front bezel which can avoid damage from chemical corrosion. To meet the demands of multimedia application, the GOT321W-502-PCT is powered by the high performance LGA1151 socket 7th/6th gen Intel® Core™ processor with the Intel® H110 chipset. It features two COM ports, two Gigabit Ethernet and up to 32GB memory of dual-channel DDR4-2400. The industrial touch panel PC is suitable for kiosk and factory automation.

Swappable Hard Drive Design
The GOT321W-502-PCT is equipped with an easy-swappable 2.5" HDD for extensive storage needs.

Speaker and WLAN Module Supported
The GOT321W-502-PCT is equipped with built-in speakers for multimedia applications. It also supports WLAN module and antennas (optional) for wireless network connectivity.

Specifications

Front Bezel	Aluminum w/ IP65/NEMA 4 rugged protection	
LCD Panel	Display Type	21.5" FHD TFT
	Brightness	250 nits
	Resolution	1920 x 1080 pixels
	Viewing Angle	178°/178°
Main System	CPU	LGA1151 socket 7/6th gen Intel® Core™ i7/i5/i3, Celeron® & Pentium® processor
	Chipset	Intel® H110
	System Memory	2 x 260-pin DDR4-2400 SO-DIMM, up to 32GB
	BIOS	AMI UEFI BIOS
	Storage	1 x 2.5" SATA HDD (9.5 mm height)
	Drive	N/A
	Watchdog Timer	255 levels, 1 to 255 sec.

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Specifications

IO Connector	2 x RS-232/422/485 1 x HDMI v1.4 1 x VGA (up to 1920 x 1200 60Hz) 1 x DisplayPort v1.2 (DP++) 4 x USB 3.0 2 x 10/100/1000 Mbps Ethernet (Intel® i219-V & i211-AT) 1 x Audio (Mic-in & Line-out)
TPM	N/A
Expansion Interface	1 x Half-size PCI Express Mini Card slot with mPCIe 1 1 x Full-size PCI Express Mini Card slot with mSATA or mPCIe 2
Touchscreen	10-point projected capacitive multi-touch
Power Supply	DC terminal block: +12V/+19V/+24V AC adapter: 19V, 6.32A
Power Consumption	105W
Dimensions	547.59 mm (21.56") (W) x 339.05 mm (13.49") x 75.6 mm (2.98")
Packing Dimensions	720 mm (28.34") (W) x 210 mm (8.27") (D) x 550 mm (2.17") (H)
Weight (net/gross)	8.4 kg (18.5 lb)/11.3 kg (24.9 lb)
Operating Temperature	0°C to +45°C (+32°F to +113°F)
Relative Humidity	10% to 90% @ +40°C, non-considering
Operating Vibration	1.0G, 5 - 500Hz, random
Certifications	CE

Packing List

1 x GOT321W-502-PCT
1 x Driver CD
1 x Phoenix connector
1 x Panel mount kit
1 x Adapter

Ordering Information

GOT321W-502-PCT	21.5" FHD TFT fanless multi-touch panel computer with LGA1151 socket 7th/6th gen Intel® Core™, Pentium®, Celeron® processor, 10-point projected capacitive multi-touch screen and 12/19/24 VDC terminal block connector

* Specification and certifications are based on requirements and may vary.

Optional Accessories

Wi-Fi	
82231770050E	GOT3177T-834 wall mount kit

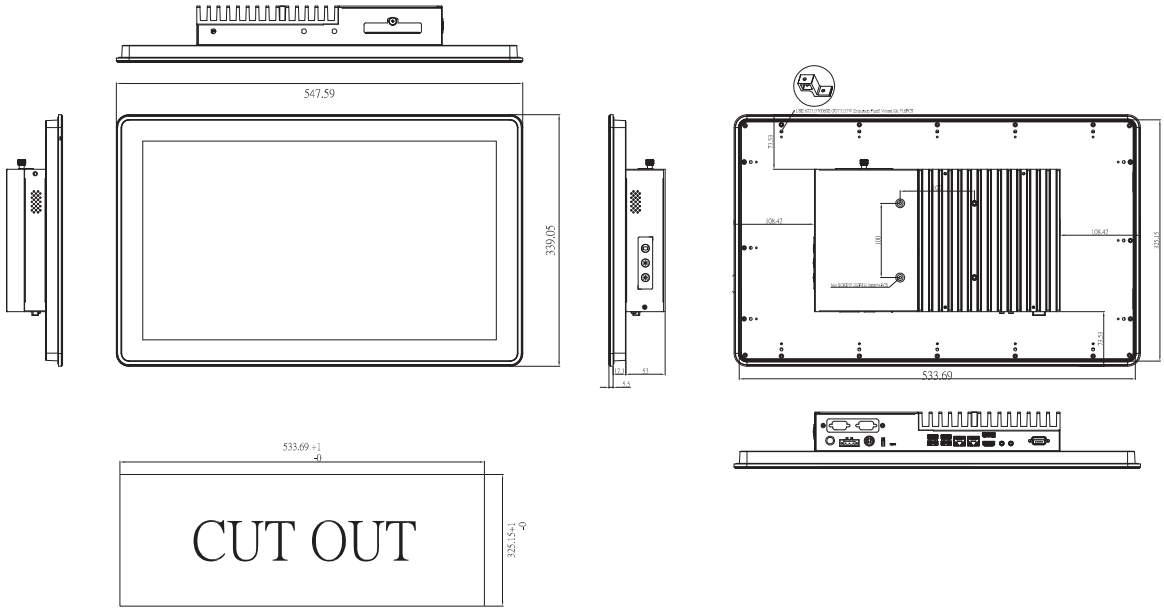
Optional EOS Installation

Windows® 7
Windows® 8.1
Windows®10 IoT Enterprise

Optional OS Installation

Skylake: Windows® 7 Windows® 8.1 Windows® 10
Kaby Lake: Windows® 10

Dimensions



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Fanless Touch Panel Computers

Heavy-duty Fanless Touch Panel Computers

Stainless Touch Panel Computers

Transportation Touch Panel Computers and Monitors

Industrial Touch Panel Computers

Industrial Touch Monitors

Medical Panel Computers

Open Frame Panel Computer

Industrial Panel PCs

3 Stainless Touch Panel Computers

The GOT800 series is specifically designed for dusty or wet spaces in food factories or kitchen and low temperature environments such as cold storage warehouses. This product line provides an IP66-rated or IP69K-rated housing option, a sunlight readable display and a wide operating temperature range.

	Selection Guide		327
NEW	GOT810-845	10.4" XGA TFT IP66 & IP69K-rated Stainless Steel Fanless PCT (or Resistive Touch) Panel Computer with Intel® Celeron® N3060 and Flat Bezel Design (-10°C to +50°C)	329
	GOT812L(H)-880	12.1" XGA TFT IP66 & IP69K-rated Stainless Steel Fanless PCT (or Resistive Touch) Panel Computer with Intel® Core™ i5 Processor and Flat Bezel Design (-20°C to +50°C)	331
	GOT815L-511	15" XGA TFT IP66 & IP69K-rated Stainless Steel Fanless PCT (or Resistive Touch) Panel Computer with Intel® Core™ i5-7300U Processor and Flat Bezel Design (-20°C to +50°C)	333
	GOT815-834	15" XGA TFT IP66 & IP69K-rated Stainless Steel Fanless PCT (or Resistive Touch) Panel Computer with Intel® Atom® Processor E3827 and Flat Bezel Design (-20°C to +55°C)	335
	GOT817L-511	17" SXGA TFT IP66 & IP69K-rated Stainless Steel Fanless PCT (or Resistive Touch) Panel Computer with Intel® Core™ i5-7300U Processor and Flat Bezel Design (-20°C to +50°C)	337
	GOT817-834	17" SXGA TFT IP66 & IP69K-rated Stainless Steel Fanless PCT (or Resistive Touch) Panel Computer with Intel® Atom® Processor E3827 and Flat Bezel Design (-20°C to +55°C)	339

Stainless Touch Panel Computers

Selection Guide

NEW







Features\Models	GOT810-845	GOT812L(H)-880	GOT815L-511
CPU Level	Intel® Celeron® N3060 2C@1.6 GHz	Intel® Core™ i5-4300U 1.9 GHz (Haswell ULT)	Intel® Core™ i5-7300U 3.5 GHz (Kaby Lake)
Chipset	SoC intergrated	SoC intergrated	SoC integrated
System Memory	1 x DDR3L 1333 MHz SO-DIMM, up to 8GB	1 x 204-pin SO-DIMM DDR3L-1600, up to 8GB	1 x 260-pin DDR4-2133 SO-DIMM, up to 16GB
Display	10.4" XGA TFT LCD, 350 nits	12" XGA TFT, 500 nits (GOT812L-880) 12" XGA TFT, 800 nits (GOT812H-880)	15" XGA TFT LCD, 420 nits
I/O	1 x RS-232/422/485 (default RS-232) 1 x RS-232 2 x USB 2.0 1 x 10/100/1000 Mbps Ethernet 1 x DC power connector	2 x RS-232/422/485 (default RS-232) 4 x USB 2.0 1 x 10/100/1000 Mbps Ethernet	2 x RS-232/422/485 (default RS-232) 4 x USB 2.0 1 x 10/100/1000 Mbps Ethernet
Storage	1 x mSATA 1 x SATA	1 x 2.5" SSD	1 x 2.5" SSD HDD or 1 x 2.5" SATA HDD
Expansion Interface	2 x PCI Express Mini Card slot	1 x PCI Express Mini Card slot	1 x Full-size PCI Express Mini Card slot 1 x Half-size PCI Express Mini Card slot
Touchscreen	5-wire resistive type or projected capacitive touch	5-wire resistive type or projected capacitive touch	5-wire resistive touch or projected capacitive multi-touch
Operating System	Windows® 8.1, WE8S, Windows® 7, WES 7, Windows® 10	Windows® 8.1, WE8S, Windows® 7, WES 7, Windows® 10	Windows® 10 IoT, Windows® 10
Power Supply	9 to 36 VDC	9 to 36 VDC	9 to 36 VDC
Power Consumption	29W	56W	45W
Watchdog Timer	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.
Front Bezel	Stainless steel with IP66/IP69K protection	Stainless steel with IP66/IP69K protection	Stainless steel IP66/IP69K protection
Dimensions (W x D x H)	284 x 56 x 241 mm (11.2" x 2.2" x 9.49")	318 x 75.3 x 248.5 mm (12.52" x 2.96" x 9.78")	382 x 55 x 305 mm (15.4" x 2.17" x 12.01")
Weight (net/gross)	2.8 kg (6.17 lb)/4 kg (8.82 lb)	4.27 kg (9.41 lb)/5.77 kg (12.72 lb)	5.2 kg (11.46 lb)/8.4 kg (18.5 lb)
Operating Temperature	-10°C to +50°C (14°F to +122°F)	-20°C to +50°C (-4°F to +122°F)	-20°C to +50°C (-4°F to +122°F)
Certifications	CE	CE	CE

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Features\Models	GOT815-834	GOT817L-511	GOT817-834
CPU Level	Intel® Atom® E3827 1.75 GHz	Intel® Core™ i5-7300U 3.5 GHz (Kaby Lake)	Intel® Atom® E3827 1.75 GHz
Chipset	SoC integrated	SoC integrated	SoC integrated
System Memory	1 x 204-pin DDR3L-1333 SO-DIMM, up to 8GB	1 x 260-pin DDR4-2133 SO-DIMM, up to 16GB	1 x 204-pin DDR3L-1333 SO-DIMM, up to 8GB
Display	15" XGA TFT, 420 nits	17" SXGA TFT LCD, 350 nits	17" SXGA TFT, 350 nits
I/O	2 x RS-232/422/485 (default RS-232) 4 x USB 2.0 1 x 10/100/1000 Mbps Ethernet	2 x RS-232/422/485 (default RS-232) 4 x USB 2.0 1 x 10/100/1000 Mbps Ethernet	2 x RS-232/422/485 (default RS-232) 4 x USB 2.0 1 x 10/100/1000 Mbps Ethernet
Storage	1 x 2.5" SSD 1 x CFast™	1 x 2.5" SSD HDD or 1 x 2.5" SATA HDD	1 x 2.5" SSD 1 x CFast™
Expansion Interface	2 x PCI Express Mini Card slot	1 x Full-size PCI Express Mini Card slot 1 x Half-size PCI Express Mini Card slot	2 x PCI Express Mini Card slot
Touchscreen	5-wire resistive type or projected capacitive touch	5-wire resistive touch or projected capacitive multi-touch	5-wire resistive type or projected capacitive touch
Operating System	Windows® 8.1, WE8S, Windows® 7, WES 7, Windows® 10	Windows® 10 IoT, Windows® 10	Windows® 8.1, WE8S, Windows® 7, WES 7, Windows® 10
Power Supply	9 to 36 VDC	9 to 36 VDC	12 to 36 VDC
Power Consumption	30W	67.5W	50W
Watchdog Timer	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.
Front Bezel	Stainless steel with IP66/IP69K protection	Stainless steel IP66/IP69K protection	Stainless steel IP66/IP69K protection
Dimensions (W x D x H)	382 x 55 x 305 mm (15.4" x 2.2" x 12.01")	415.92 x 55 x 348.34 mm (16.37" x 2.16" x 13.71")	415.92 x 54.96 x 348.34 mm (16.37" x 2.16" x 13.71")
Weight (net/gross)	6.94 kg (15.3 lb)/10.2 kg (22.5 lb)	6.94 Kg (15.3 lb) / 10.2 Kg (22.5 lb)	7.04 kg (15.52 lb) /10.3 kg (22.71 lb)
Operating Temperature	-20°C to +50°C (-4°F to +122°F)	-20°C to +50°C (-4°F to +122°F)	-20°C to +55°C (-4°F to +131°F)
Certifications	CE	CE	CE

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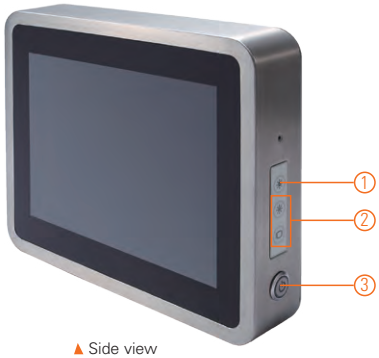
GOT810-845 NEW

10.4" XGA TFT IP66 & IP69K-rated Stainless Steel Fanless PCT (or Resistive Touch) Panel Computer with Intel® Celeron® N3060 and Flat Bezel Design (-10°C to +50°C)

Features

- 10.4" XGA TFT LCD flat bezel projected capacitive (or resistive) touch
- IP66/IP69K-rated (NEMA 4X) water/dust/corrosion-proof design
- Full stainless steel enclosure with type 316
- -10°C to +50°C wide operating temperature range
- Fanless system with Intel® Celeron® N3060
- Optional Wi-Fi/3G kit for wireless network connectivity
- 9 to 36 VDC wide range power input
- M12 type I/O connectors for harsh environments





▲ Side view



1. Backlight on/off
2. Brightness adjust
3. Power on/off
4. Ventilation valve
5. DC power connector
6. 1 x RS-232/422/485 (default RS-232)
7. 1 x RS-232
8. 2 x USB 2.0
9. 1 x Ethernet
10. 2 x Antenna opening

Fanless | Low Power | Ext. Temp | DDR3L | IP66 | M12 Connector | IP69K

Introduction

The 10.4-inch GOT810-845 is specially designed for food processing applications. Its IP66-rated stainless steel housing protects entire system from damage of water, powder and dust. It also supports a wide operating temperature range from -10°C to +50°C. Thus, this robust unit is specifically designed for high humidity, dusty or wet spaces in food factories or kitchens and more harsh applications.

Full IP66 and IP69K Compliance

The GOT810-845 adopts a water/dust-proof housing design with five IP66-rated M12 I/O connectors and IP69K compliance that ensures the product's ability to resist ingress of high temperature and high pressure water. It passed entire system IP66 test by SGS, and verified salt mist test. Additionally, it was tested by a spray nozzle with high temperature water (+80°C), a flow rate of 14 to 16 L/min and a nozzle hold with distance 10 to 15 cm away from the device at angles of 0°, 30°, 60° and 90° for 30 seconds. The GOT810-845 is qualified to meet harsh environment applications.

Wide Temp. (-10°C to +50°C) & Anti-vibration (2G) Design

The GOT810-845 featuring fanless and noiseless design supports a wide operating temperature range from -10°C to +50°C. Besides, the patent of anti-vibration for SSD ensures system reliability and stability.

Specifications

Enclosure	Stainless type 316	
LCD Panel	Display Type	10.4" XGA TFT LCD
	Brightness (cd/m^2)	350 nits
	Resolution	1024 x 768
	Viewing Angle (H/V)	160°/160°
Main System	CPU	Intel® Celeron® N3060 2C@1.6 GHz (up to 2.48 GHz)
	Chipset	SoC integrated
	System Memory	1 x DDR3L 1333 MHz SO-DIMM, up to 8GB
	BIOS	AMI with Axiomtek standard features; such as, SmartView, Ethernet Boot ROM (RPL & PXE), customer CMOS backup
	Storage	1 x mSATA 1 x SATA
	Watchdog Timer	255 levels, 1 to 255 sec.
	Onboard Graphics	Integrated in Intel® GFX

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Specifications

I/O Connector	1 x RS-232/422/485 (default RS-232, M12 A-coded) 1 x RS-232 (M12 A-coded) 2 x USB 2.0 (M12 A-coded) 1 x 10/100/1000 Mbps Ethernet (M12 X-coded) 1 x DC power connector (M12)
Expansion Interface	2 x PCI Express Mini Card slot
Touchscreen	5-wire resistive touch or projected capacitive multi-touch
Power Input	9 to 36 VDC
Power Consumption	29W
Dimensions	284 mm (11.2") (W) x 56 mm (2.2") (D) x 241 mm (9.49") (H)
Packing Dimensions	415 mm (16.34") (W) x 100 mm (3.94") (D) x 315 mm (12.4") (H)
Weight (net/gross)	2.8 kg (6.17 lb)/4 kg (8.82 lb)
Operating Temperature	-10°C to +50°C (14°F to +122°F)
Relative Humidity	20% - 90% @40°C; non-condensing
Operation Vibration	2G/10 - 500Hz/operation (SSD/mSATA, random)
Certifications	CE

* W.T.: Wide Temperature. All W.T. supported products have to be sorted by Axiomtek.

Packing List

1 x GOT810-845
1 x Driver DVD
1 x DC cable

Ordering Information

GOT810-845-R	10.4" IP66 & IP69K stainless steel touch panel computer with flat resistive touch, Intel® Celeron® N3060 onboard, XGA 350 nits LCD, water-proof power cable (1.8 m)
GOT810-845-C	10.4" IP66 & IP69K stainless steel touch panel computer with projected capacitive touch, Intel® Celeron® N3060 onboard, XGA 350 nits LCD, water-proof power cable (1.8 m)

*Specifications and certifications may vary based on different requirements.

Optional Accessories

594B8122100E	Water-proof COM cable (1.8 m)
594B8152820E	USB cable M12-8P-F, 2 x type A (1.8 m) EN
594B8152710E	Water-proof LAN cable (1.8 m)
50966224010E	Adapter 24V 90W, M12 A-code 5P FSP090AAAN3

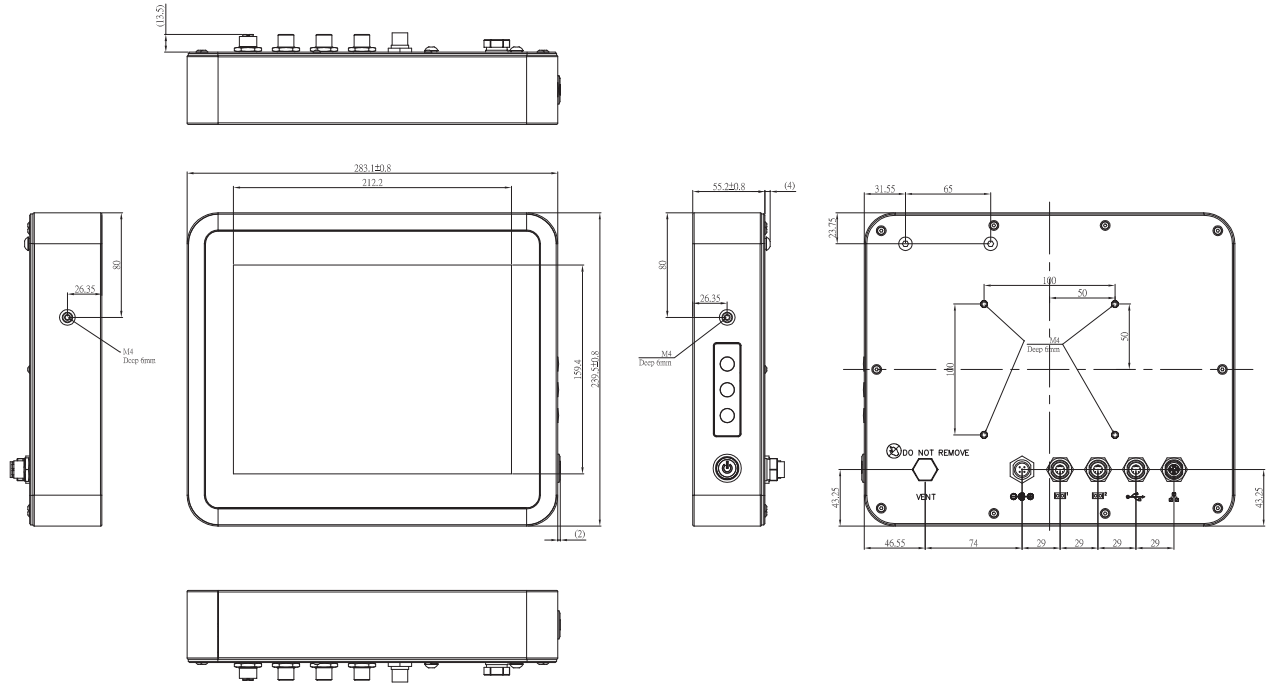
Optional EOS Installation

WES 7
WE8S

Optional OS Installation

Windows® 7
Windows® 8/8.1
Windows® 10

Dimensions



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GOT812L(H)-880

12.1" XGA TFT IP66 & IP69K-rated Stainless Steel Fanless PCT (or Resistive Touch) Panel Computer with Intel® Core™ i5 Processor and Flat Bezel Design (-20°C to +50°C)

Features

- 12.1" XGA TFT flat bezel LCD display
- Sunlight readable solution with 500 or 800 nits of brightness
- IP66/IP69K-rated (NEMA 4X) water/dust/corrosion-proof design
- Full stainless steel enclosure with type 316
- -20°C to +50°C wide operating temperature range
- Fanless design with Intel® Core™ i5-4300U processor
- Optional Wi-Fi/3G kit for wireless network connnectivity
- 9 to 36 VDC wide range power input
- M12 type connectors for harsh environments

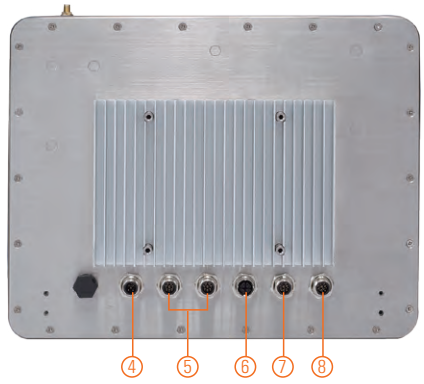
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▲ Side view

1. Backlight on/off
2. Brightness adjust +/-
3. Power on/off



4. DC power connector
5. 4 x USB 2.0
6. 1 x LAN
7. 1 x RS-232/422/485 (default RS-232)
8. 1 x RS-232

Fanless | Low Power | Ext. Temp | DDR3 | IP66 | M12 Connector | IP69K

Introduction

The 12-inch GOT812L(H)-880 is specially designed for food processing applications. Its IP66-rated stainless steel housing protects entire system from damage of water, powder and dust. It also supports a wide operating temperature range from -20°C to +50°C. Thus, this robust unit is specifically designed for high humidity, dusty or wet spaces in food factories or kitchens and more harsh applications.

Sunlight Readable Design
The GOT812L(H)-880 features sunlight readable technology with 500 or 800 nits of brightness and low reflective touchscreen allows the screen legible even under strong sunlight.

Full IP66 and IP69K Certified
The GOT812L(H)-880 adopts a water/dust-proof housing design with five IP66-rated connectors, M12 I/O connectors and IP69K that ensures the product's ability to resist ingress of high temperature and high pressure water. It passed entire system IP66 test by SGS and verified salt mist test. Additionally, it was tested by a spray nozzle with high temperature water (+80°C), a flow rate of 14 to 16 L/min and a nozzle hold with distance 10 to 15 cm away from the device at angles of 0°, 30°, 60° and 90° for 30 seconds. The GOT812L(H)-880 is qualified to meet harsh environment applications.

Wide Temp. (-20°C to +50°C) & Anti-vibration (2G) Design
The GOT812L(H)-880 featuring fanless and noiseless design supports a wide operating temperature range from -20°C to +50°C. Besides, the patent of anti-vibration for SSD ensures system reliability and stability.

Specifications

Enclosure	Stainless type 316	
LCD Panel	Display Type	12.1" XGA TFT LCD
	Brightness (cd/m^2)	800 nits LCD (GOT812H-880) 500 nits LCD (GOT812L-880)
	Resolution	1024 x 768
	Viewing Angle (H/V)	160°/160°
Main System	CPU	Intel® Core™ i5-4300U 1.9 GHz (Haswell ULT)
	Chipset	SoC integrated
	System Memory	1 x 204-pin DDR3L-1600 SO-DIMM, up to 8GB
	BIOS	AMI with Axiomtek standard features; such as SmartView, Ethernet Boot ROM (RPL & PXE), customer CMOS backup
	Storage	1 x 2.5" SSD
	Watchdog Timer	255 levels, 1 to 255 sec.
	Onboard Graphics	Integrated in Intel® GFX

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Specifications

I/O Connector	2 x RS-232/422/485 (default RS-232, A-coded) 4 x USB 2.0 (A-coded) 1 x 10/100/1000 Mbps Ethernet (Intel® i218-LM; X-coded)
Expansion Interface	2 x PCI Express Mini Card slot
Touchscreen	5-wire resistive touch or projected capacitive multi-touch
Power Input	9 to 36 VDC
Power Consumption	56W
Dimensions	318 mm (12.52") (W) x 248.5 mm (9.78") (D) x 75.3 mm (2.96") (H)
Packing Dimensions	510 mm (20.07") (W) x 186 mm (7.32") (D) x 532 mm (20.94") (H)
Weight (net/gross)	4.27 kg (9.41 lb)/5.77 kg (12.72 lb)
Operating Temperature	-20°C to +50°C (-4°F to +122°F)
Relative Humidity	10% - 95% @ +40°C, non-condensing
Operation Vibration	2G, 5 - 500Hz, random for 2.5" SSD
Certifications	CE

* W.T.: Wide Temperature. All W.T. supported products have to be sorted by Axiomtek.

Packing List

1 x GOT812L(H)-880
1 x Driver DVD
1 x DC cable

Ordering Information

GOT812H-880-R-i5-RF-DC (P/N: E22B812122)	12.1" IP66 & IP69K touch panel computer with Intel® Core™ i5-4300U onboard, XGA 800 nits LCD resistive touch, water-proof power cable (1.8M)
GOT812L-880-C-i5-DC (P/N: E22B812128)	12.1" IP66 & IP69K touch panel computer with Intel® Core™ i5-4300U onboard XGA 500 nits LCD PCT water-proof power cable (1.8M)

*Specifications and certifications may vary based on different requirements.

Optional EOS Installation

WES 7
WE8S
Windows® 10 IoT

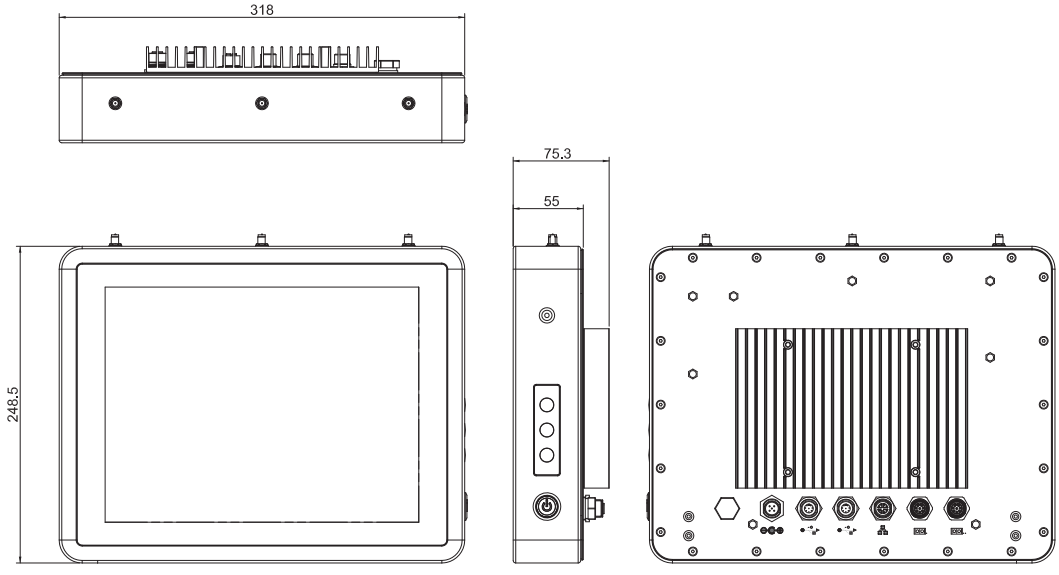
Optional OS Installation

Windows® 7
Windows® 8/8.1
Windows® 10

Optional Accessories

594B8122100E	Water-proof COM cable (1.8 m)
594B8152710E	Water-proof LAN cable (1.8 m)
594B8122820E	Water-proof USB cable (1.8 m)
822B8120070E	GOT812 keyboard bracket (without keyboard)
50966224010E	Adapter 24V 90W, M12 A-code 5P FSP090AAAN3

Dimensions



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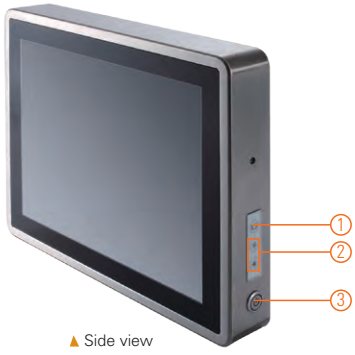
GOT815L-511

15" XGA TFT IP66 & IP69K-rated Stainless Steel Fanless PCT (or Resistive Touch) Panel Computer with Intel® Core™ i5-7300U Processor and Flat Bezel Design (-20°C to +50°C)

Features

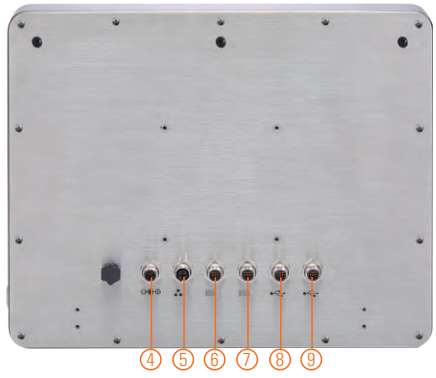
- 15" XGA TFT flat bezel LCD display
- IP66/IP69K-rated (NEMA 4X) water/dust/corrosion-proof design
- Full stainless steel enclosure with type 316
- -20°C to +50°C wide operating temperature range
- Fanless design with Intel® Core™ i5-7300U processor
- Optional Wi-Fi/3G kit for wireless network connectivity
- 9 to 36 VDC wide range power input
- Supports suspension and VESA mount
- M12 type connectors for harsh environments





▲ Side view

1. Backlight on/off
2. Brightness adjust +/-
3. Power on/off



4. DC power connector
5. 1 x LAN
6. 1 x RS-232/422/485 (default RS-232)
7. 1 x RS-232/422/485 (default RS-232)
8. 2 x USB 2.0
9. 2 x USB 2.0



Introduction

The 15-inch GOT815L-511 is specially designed for food processing applications. Its IP66-rated stainless steel housing protects entire system from damage of water, powder and dust. It also supports a wide operating temperature range from -20°C to +50°C. Thus, this robust unit is specifically designed for high humidity, dusty or wet spaces in food factories or kitchens and more harsh applications.

Full IP66 and IP69K Certified

The GOT815L-511 adopts a water/dust-proof housing design with five IP66-rated M12 I/O connectors and IP69K that ensures the product's ability to resist ingress of high temperature and high pressure water. It passed entire system IP66 test by SGS, and verified salt mist test. Additionally, it was tested by a spray nozzle with high temperature water (+80°C), a flow rate of 14 to 16 L/min and a nozzle hold with distance 10 to 15 cm away from the device at angles of 0°, 30°, 60° and 90° for 30 seconds. The GOT815L-511 is qualified to meet harsh environment applications.

Wide Temp. (-20°C to +50°C) & Anti-vibration (1G) Design

The GOT815L-511 featuring fanless and noiseless design supports a wide operating temperature range from -20°C to +50°C. Besides, the patent of anti-vibration for SSD ensures system reliability and stability.

Specifications

Enclosure	Stainless type 316	
LCD Panel	Display Type	15" XGA TFT LCD
	Brightness (cd/m^2)	420 nits
	Resolution	1024 x 768
	Viewing Angle (H/V)	160°/160°
Main System	CPU	Intel® Core™ i5-7300U 3.5 GHz (Kaby Lake)
	Chipset	SoC integrated
	System Memory	1 x 260-pin DDR4-2133 SO-DIMM, up to 16GB
	BIOS	AMI UEFI BIOS
	Storage	1 x 2.5" SSD HDD or 1 x 2.5" SATA HDD (9.5 mm height)
	Watchdog Timer	255 levels, 1 to 255 sec.
	Onboard Graphics	Integrated in Intel® GFX

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Specifications

I/O Connector	2 x RS-232/422/485 (default RS-232, A-coded) 4 x USB 2.0 (A-coded) 1 x 10/100/1000 Mbps Ethernet with Intel® i210-IT (X-coded); support Wake-on-LAN, PXE Boot ROM
Expansion Interface	1 x Full-size PCI Express Mini Card slot 1 x Half-size PCI Express Mini Card slot
Touchscreen	5-wire resistive touch or projected capacitive multi-touch
Power Input	9 to 36 VDC
Power Consumption	45W
Dimensions	382 mm (15.4") (W) x 55 mm (2.17") (D) x 305 mm (12.01") (H)
Packing Dimensions	510 mm (20.07") (W) x 186 mm (7.32") (D) x 532 mm (20.94") (H)
Weight (net/gross)	5.2 kg (11.46 lb)/8.4 kg (18.5 1b)
Operating Temperature	-20°C to +50°C (-4°F to +122°F)
Relative Humidity	10% - 95% @ +40°C, non-condensing
Operation Vibration	1G, 5 - 500Hz, random for 2.5" SSD
Certifications	CE

*W.T.: Wide temperature. All W.T. supported products have to be sorted by Axiomtek.

Packing List

1 x GOT815L-511
1 x Driver DVD
1 x DC cable

Ordering Information

GOT815L-511-C-DC	15" XGA fanless IP66 & IP69K-rated stainless steel touch panel computer with Intel® Core™ i5-7300U, projected capacitive touch screen, 420 nits LCD and 9 to 36 VDC power input
GOT815L-511-R-DC	15" XGA fanless IP66 & IP69K-rated stainless steel touch panel computer with Intel® Core™ i5-7300U, 5-wire flat resistive touch screen and 9 to 36 VDC power input

Optional Accessories

594B8122100E	Water-proof COM cable (1.8 m)
594B8152710E	Water-proof LAN cable (1.8 m)
594B8152820E	Water-proof USB cable (1.8 m)
822B8120070E	GOT812 keyboard bracket (without keyboard)
50966224010E	Adapter 24V 90W, M12 A-code 5P FSP090AAAN3

*Specifications and certifications may vary based on different requirements.

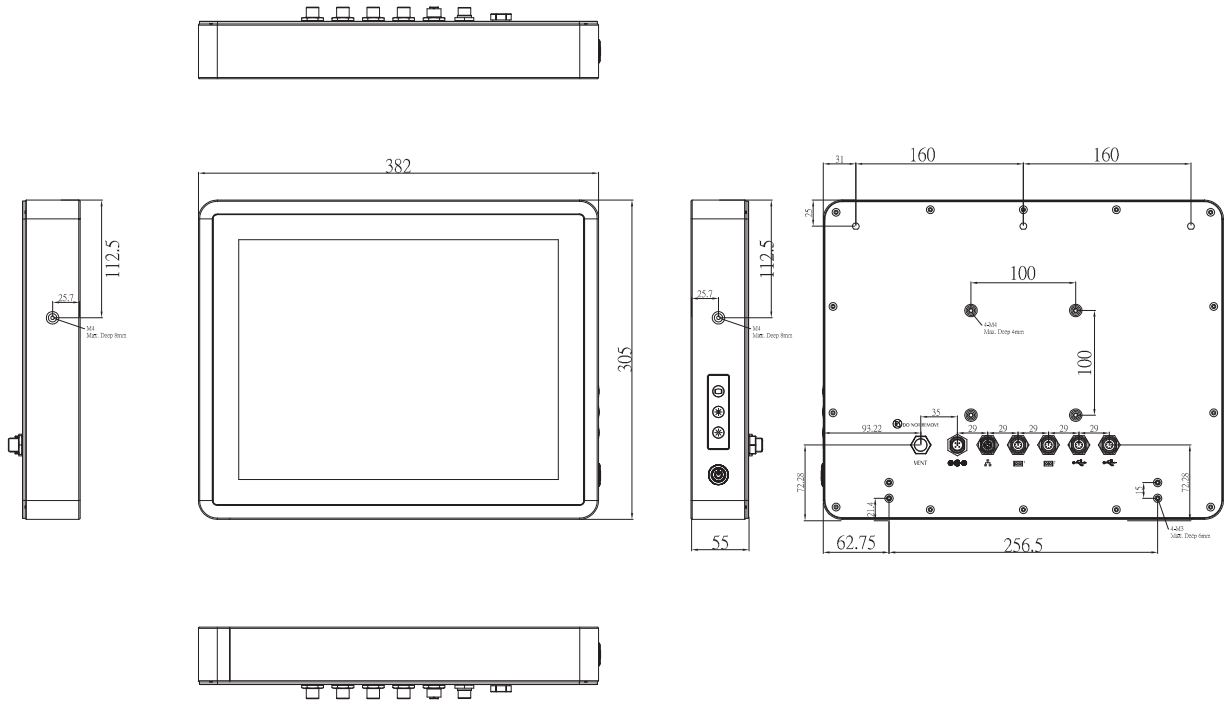
Optional EOS Installation

Windows® 10 IoT

Optional OS Installation

Windows® 10

Dimensions



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GOT815-834

15" XGA TFT IP66 & IP69K-rated Stainless Steel Fanless PCT (or Resistive Touch) Panel Computer with Intel® Atom® Processor E3827 and Flat Bezel Design (-20°C to +55°C)

Features

- 15" XGA TFT LCD flat bezel projected capacitive (or resistive) touch
- IP66/IP69K-rated (NEMA 4X) water/dust/corrosion-proof design
- Full stainless steel enclosure with type 316
- -20°C to +55°C wide operating temperature range
- Fanless system with Intel® Atom® processor E3827
- Optional Wi-Fi/3G kit for wireless network connectivity
- 9 to 36 VDC wide range power input
- M12 type I/O connectors for harsh environments

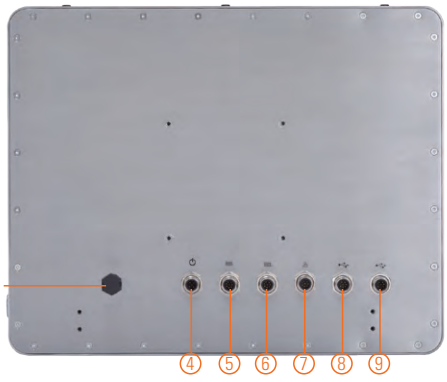
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▲ Side view



1. Backlight switch
2. Brightness adjust
3. Power on/off
4. DC power connector
5. 1 x RS-232/422/485
6. 1 x RS-232/422/485
7. 1 x LAN
8. 2 x USB 2.0
9. 2 x USB 2.0
10. 3 x Wi-Fi/3G antenna (optional, only for RF version)



Introduction

The 15-inch GOT815-834 is specially designed for food processing applications. Its IP66-rated stainless steel housing protects entire system from damage of water, powder and dust. It also supports a wide operating temperature range from -20°C to +55°C. Thus, this robust unit is specifically designed for high humidity, dusty or wet spaces in food factories or kitchens and more harsh applications.

Full IP66 and IP69K Compliance

The GOT815-834 adopts a water/dust-proof housing design with five IP66-rated M12 I/O connectors and IP69K compliance that ensures the product's ability to resist ingress of high temperature and high pressure water. It passed entire system IP66 test by SGS, and verified salt mist test. Additionally, it was tested by a spray nozzle with high temperature water (+80°C), a flow rate of 14 to 16 L/min and a nozzle hold with distance 10 to 15 cm away from the device at angles of 0°, 30°, 60° and 90° for 30 seconds. The GOT815-834 is qualified to meet harsh environment applications.

Wide Temp. (-20°C to +55°C) & Anti-vibration (2G) Design Wide Temperature & Anti-vibration Design

The GOT815-834 featuring fanless and noiseless design supports a wide operating temperature range from -20°C to +55°C. Besides, the patent of anti-vibration for SSD ensures system reliability and stability.

Specifications

Enclosure	Stainless type 316	
LCD Panel	Display Type	15" XGA TFT LCD
	Brightness (cd/m^2)	420 nits
	Resolution	1024 x 768
	Viewing Angle (H/V)	160°/160°
Main System	CPU	Intel® Atom® processor E3827 1.75 GHz (Bay Trail)
	Chipset	SoC integrated
	System Memory	1 x 204-pin DDR3L-1333 SO-DIMM dual channel, up to 8GB
	BIOS	AMI with Axiomtek standard features, such as SmartView, Ethernet Boot ROM (RPL & PXE), customer CMOS backup
	Storage	1 x 2.5" SSD 1 x CFast™
	Watchdog Timer	255 levels, 1 to 255 sec.
	Onboard Graphics	Integrated in Intel® GFX

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Specifications

I/O Connector	2 x RS-232/422/485 (default RS-232, A-coded) 4 x USB 2.0 (A-coded) 1 x 10/100/1000 Mbps Ethernet (X-coded)
Expansion Interface	2 x PCI Express Mini Card slot
Touchscreen	5-wire resistive touch or projected capacitive multi-touch
Power Input	9 to 36 VDC
Power Consumption	30W
Dimensions	382 mm (15.4") (W) x 55 mm (2.17") (D) x 305 mm (12.01") (H)
Packing Dimensions	510 mm (20.07") (W) x 186 mm (7.32") (D) x 532 mm (20.94") (H)
Weight (net/gross)	5.2 kg (11.46 lb)/8.4 kg (18.51 lb)
Operating Temperature	-20°C to +55°C (-4°F to +131°F)
Relative Humidity	10% - 95% @ +40oC, non-condensing
Operation Vibration	2G, 5 - 500Hz, random for 2.5" SSD 2G, 5 - 500Hz, random for CompactFlash™
Certifications	CE

* W.T.: Wide Temperature. All W.T. supported products have to be sorted by Axiomtek.

Packing List

1 x GOT815-834
1 x Driver DVD
1 x DC cable

Ordering Information

GOT815-834-C-DC	15" XGA fanless IP66-rated stainless steel touch panel computer with Intel® Atom® E3827, projected capacitive touch screen, flat bezel design and 9 to 36 VDC power input
GOT815-834-R-DC	15" XGA fanless IP66-rated stainless steel touch panel computer with Intel® Atom® E3827, 5-wire flat resistive touch screen, flat bezel design and 9 to 36 VDC power input
GOT815-834-R-RF-DC	15" XGA fanless IP66-rated stainless steel touch panel computer with Intel® Atom® E3827, 5-wire flat resistive touch screen, flat-bezel design, 9 to 36 VDC power input and Wi-Fi or 3G

*Specifications and certifications may vary based on different requirements.

Optional Accessories

594B8122100E	Water-proof COM cable (1.8 m)
594B8122820E	Water-proof USB cable (1.8 m)
594B8152710E	Water-proof LAN cable (1.8 m)
822B8120070E	GOT812 keyboard bracket (without keyboard)
50966224010E	Adapter 24V 90W, M12 A-code 5P FSP090AAAN3

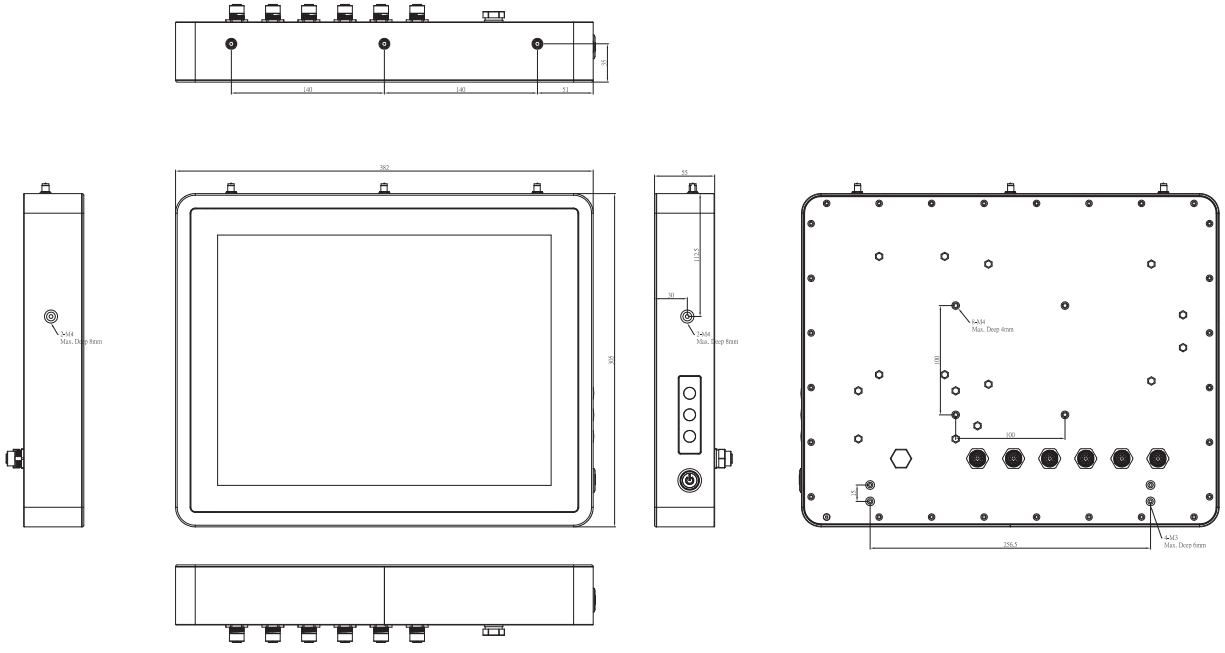
Optional EOS Installation

WES 7
WE8S

Optional OS Installation

Windows® 7
Windows® 8/8.1
Windows® 10

Dimensions



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GOT817L-511

17" SXGA TFT IP66 & IP69K-rated Stainless Steel Fanless PCT (or Resistive Touch) Panel Computer with Intel® Core™ i5-7300U Processor and Flat Bezel Design (-20°C to +50°C)

Features

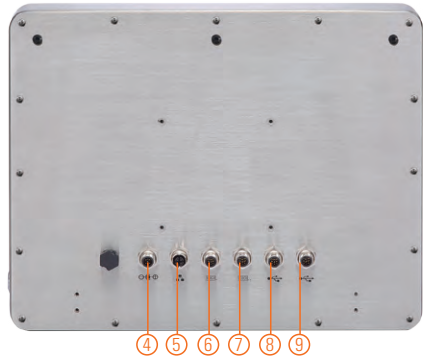
- 17" SXGA TFT flat bezel LCD display
- IP66/IP69K-rated (NEMA 4X) water/dust/corrosion-proof design
- Full stainless steel enclosure with type 316
- -20°C to +50°C wide operating temperature range
- Fanless design with Intel® Core™ i5-7300U processor
- Optional Wi-Fi/3G kit for wireless network connectivity
- 9 to 36 VDC wide range power input
- Supports suspension and VESA mount
- M12 type connectors for harsh environments





▲ Side view

1. Backlight on/off
2. Brightness adjust +/-
3. Power on/off



4. DC power connector
5. 1 x LAN
6. 1 x RS-232/422/485 (default RS-232)
7. 1 x RS-232/422/485 (default RS-232)
8. 2 x USB 2.0
9. 2 x USB 2.0



Introduction

The 17-inch GOT817L-511 is specially designed for food processing applications. Its IP66-rated stainless steel housing protects entire system from damage of water, powder and dust. It also supports a wide operating temperature range from -20°C to +50°C. Thus, this robust unit is specifically designed for high humidity, dusty or wet spaces in food factories or kitchens and more harsh applications.

Full IP66 and IP69K Certified

The GOT817L-511 adopts a water/dust-proof housing design with five IP66-rated M12 I/O connectors and IP69K that ensures the product's ability to resist ingress of high temperature and high pressure water. It passed entire system IP66 test by SGS, and verified salt mist test. Additionally, it was tested by a spray nozzle with high temperature water (+80°C), a flow rate of 14 to 16 L/min and a nozzle hold with distance 10 to 15 cm away from the device at angles of 0°, 30°, 60° and 90° for 30 seconds. The GOT817L-511 is qualified to meet harsh environment applications.

Wide Temp. (-20°C to +50°C) & Anti-vibration (1G) Design

The GOT817L-511 featuring fanless and noiseless design supports a wide operating temperature range from -20°C to +50°C. Besides, the patent of anti-vibration for SSD ensures system reliability and stability.

Specifications

Enclosure	Stainless type 316	
LCD Panel	Display Type	17" SXGA TFT LCD
	Brightness (cd/m^2)	350 nits
	Resolution	1280 x 1024
	Viewing Angle (H/V)	170°/160°
Main System	CPU	Intel® Core™ i5-7300U 3.5 GHz (Kaby Lake)
	Chipset	SoC integrated
	System Memory	1 x 260-pin DDR4-2133 SO-DIMM, up to 16GB
	BIOS	AMI UEFI BIOS
	Storage	1 x 2.5" SSD HDD or 1 x 2.5" SATA HDD (9.5 mm height)
	Watchdog Timer	255 levels, 1 to 255 sec.
	Onboard Graphics	Integrated in Intel® GFX

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Specifications

I/O Connector	2 x RS-232/422/485 (default RS-232, A-coded) 4 x USB 2.0 (A-coded) 1 x 10/100/1000 Mbps Ethernet supporting PXE and LAN wake-up (Intel® I210-IT; X-coded)
Expansion Interface	1 x Full-size PCI Express Mini Card slot 1 x Half-size PCI Express Mini Card slot
Touchscreen	5-wire resistive touch or projected capacitive multi-touch
Power Input	9 to 36 VDC
Power Consumption	67.5W
Dimensions	415.92 mm (16.4") (W) x 55 mm (2.2") (D) x 348.34 mm (13.7") (H)
Packing Dimensions	615 mm (24.2") (W) x 250 mm (9.84") (D) x 585 mm (23") (H)
Weight (net/gross)	6.94 kgs (15.3 lb)/10.2 kgs (22.5 lb)
Operating Temperature	-20°C to +50°C (-4°F to +122°F)
Relative Humidity	10% - 95% @ +40°C, non-condensing
Operation Vibration	1G, 5 - 500Hz, random for 2.5" SSD
Certifications	CE

*W.T.: Wide temperature. All W.T. supported products have to be sorted by Axiomtek.

Packing List

1 x GOT817L-511
1 x Driver DVD
1 x DC cable

Ordering Information

GOT817L-511-C-DC	17" SXGA fanless IP66 & IP69K-rated stainless steel touch panel computer with Intel® Core™ i5-7300U, projected capacitive touch screen, 420 nits LCD and 9 to 36 VDC power input
GOT817L-511-R-DC	17" SXGA fanless IP66 & IP69K-rated stainless steel touch panel computer with Intel® Core™ i5-7300U, 5-wire flat resistive touch screen, 9 to 36 VDC power input

Optional Accessories

594B8122100E	Water-proof COM cable (1.8 m)
594B8152710E	Water-proof LAN cable (1.8 m)
594B8152820E	Water-proof USB cable (1.8 m)
822B8120070E	GOT812 keyboard bracket (without keyboard)
50966224010E	Adapter 24V 90W, M12 A-code 5P FSP090AAAN3

*Specifications and certifications may vary based on different requirements.

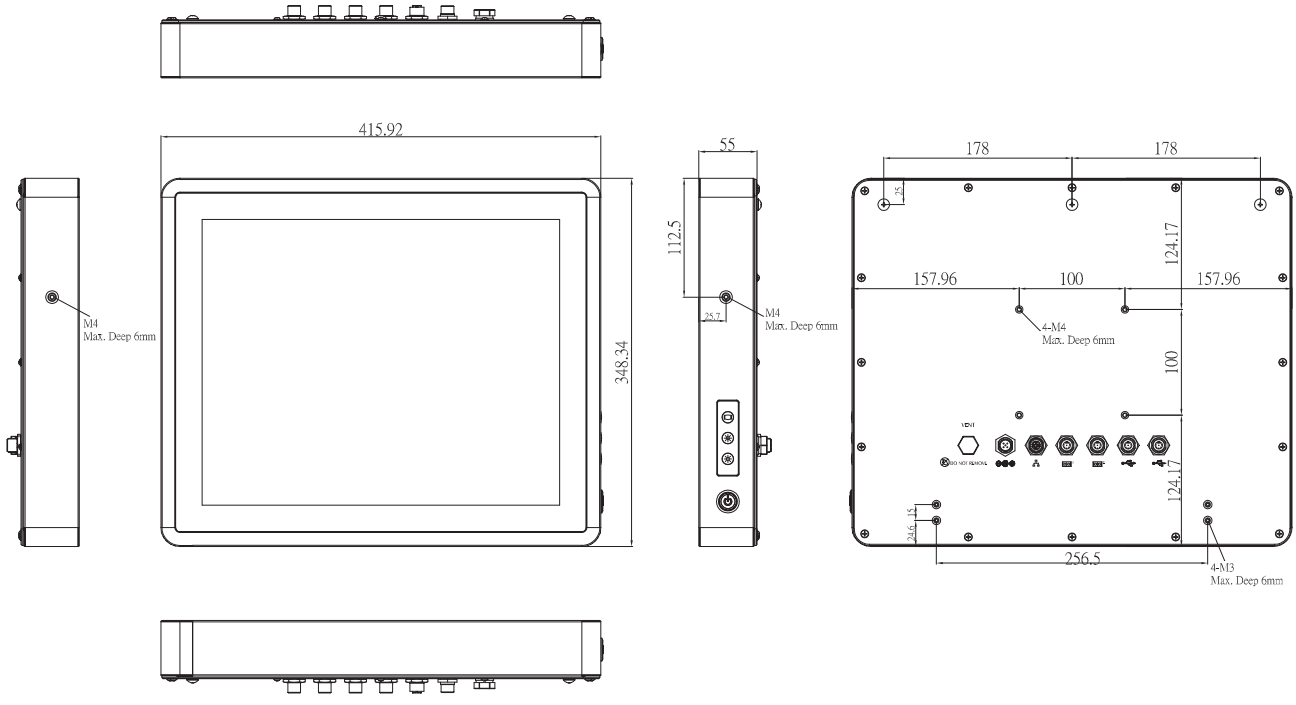
Optional EOS Installation

Windows® 10 IoT

Optional OS Installation

Windows® 10

Dimensions



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GOT817-834

17" SXGA TFT IP66 & IP69K-rated Stainless Steel Fanless PCT (or Resistive Touch) Panel Computer with Intel® Atom® Processor E3827 and Flat Bezel Design (-20°C to +55°C)

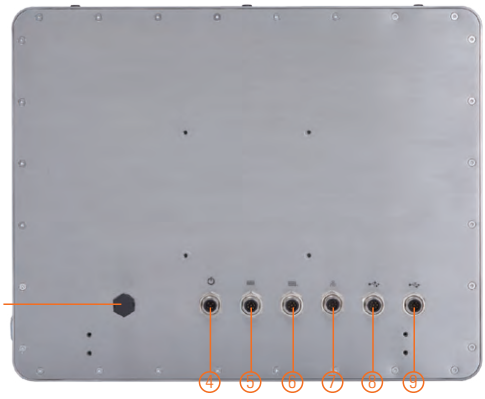
Features

- 17" SXGA TFT LCD flat bezel projected capacitive (or resistive) touch
- IP66/IP69K-rated (NEMA 4X) water/dust/corrosion-proof design
- Full stainless steel enclosure with type 316
- -20°C to +55°C wide operating temperature range
- Fanless system with Intel® Atom® processor E3827
- Optional Wi-Fi/3G kit for wireless network connectivity
- 12 to 36 VDC wide range power input
- M12 type I/O connectors for harsh environments





▲ Side view



1. Backlight switch
2. Brightness adjust
3. Power on/off
4. DC power connector
5. 1 x RS-232/422/485
6. 1 x RS-232/422/485
7. 1 x LAN
8. 2 x USB 2.0
9. 2 x USB 2.0
10. 3 x Wi-Fi/3G antenna (optional, only for RF version)



Introduction

The 17-inch GOT817-834 is specially designed for food processing applications. Its IP66-rated stainless steel housing protects entire system from damage of water, powder and dust. It also supports a wide operating temperature range from -20°C to +55°C. Thus, this robust unit is specifically designed for high humidity, dusty or wet spaces in food factories or kitchens and more harsh applications.

Full IP66 and IP69K Compliance

The GOT817-834 adopts a water/dust-proof housing design with five IP66-rated M12 I/O connectors and IP69K compliance that ensures the product's ability to resist ingress of high temperature and high pressure water. It passed entire system IP66 test by SGS, and verified salt mist test. Additionally, it was tested by a spray nozzle with high temperature water (+80°C), a ow rate of 14 to 16 L/min and a nozzle hold with distance 10 to 15 cm away from the device at angles of 0°, 30°, 60° and 90° for 30 seconds. The outstanding GOT817-834 stainless touch panel PC is qualified to meet harsh environment applications.

Wide Temp. (-20°C to +55°C) & Anti-vibration (2G) Design

The rugged 17" industrial stainless touch panel PC featuring fanless and noiseless design supports a wide operating temperature range from -20°C to +55°C. Besides, the patent of anti-vibration for SSD ensures system reliability and stability.

Specifications

Enclosure	Stainless type 316	
LCD Panel	Display Type	17" SXGA TFT LCD
	Brightness (cd/m^2)	350 nits
	Resolution	1280 x 1024
	Viewing Angle (H/V)	160°/140°
Main System	CPU	Intel® Atom® processor E3827 1.75 GHz (Bay Trail)
	Chipset	SoC integrated
	System Memory	1 x 204-pin DDR3L-1333 SO-DIMM dual channel, up to 8GB
	BIOS	AMI with Axiomtek standard features, such as SmartView, Ethernet Boot ROM (RPL & PXE), customer CMOS backup
	Storage	1 x 2.5" SSD 1 x CFast™
	Watchdog Timer	255 levels, 1 to 255 sec.
	Onboard Graphics	Integrated in Intel® GFX

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Specifications

I/O Connector	2 x RS-232/422/485 (default RS-232, A-coded) 4 x USB 2.0 (A-coded) 1 x 10/100/1000 Mbps Ethernet (X-coded)
Expansion Interface	2 x PCI Express Mini Card slot
Touchscreen	5-wire resistive touch or projected capacitive multi-touch
Power Input	12 to 36 VDC
Power Consumption	50W
Dimensions	415.92 mm (16.37") (W) x 54.96 mm (2.16") (D) x 348.34 mm (13.71") (H)
Packing Dimensions	615 mm (24.2") (W) x 250 mm (9.84") (D) x 585 mm (23") (H)
Weight (net/gross)	7.04 kg (15.52 lb)/10.3 kg (22.71 lb)
Operating Temperature	-20°C to +55°C (-4°F to +131°F)
Relative Humidity	10% - 95% @ +40°C, non-condensing
Operation Vibration	2G, 5 - 500Hz, random for 2.5" SSD 2G, 5 - 500Hz, random for CFast™
Certifications	CE

* W.T.: Wide Temperature. All W.T. supported products have to be sorted by Axiomtek.

Packing List

1 x GOT817-834
1 x Driver DVD
1 x DC cable

Ordering Information

Sunlight readable type	
GOT817-834-C-DC	17" SXGA fanless IP66 & IP69K-rated stainless steel touch panel computer with Intel® Atom® E3827, projected capacitive touch screen, flat-bezel design and 12 to 36 VDC power input
GOT817-834-R-DC	17" SXGA fanless IP66 & IP69K-rated stainless steel touch panel computer with Intel® Atom® E3827, 5-wire flat resistive touch screen, flat-bezel design and 12 to 36 VDC power input

*Specifications and certifications may vary based on different requirements.

Optional Accessories

594B8122100E	Water-proof COM cable (1.8 m)
594B8122820E	Water-proof USB cable (1.8 m)
594B8152710E	Water-proof LAN cable (1.8 m)
822B8120070E	GOT812 keyboard bracket (without keyboard)
50966224010E	Adapter 24V 90W, M12 A-code 5P FSP090AAAN3

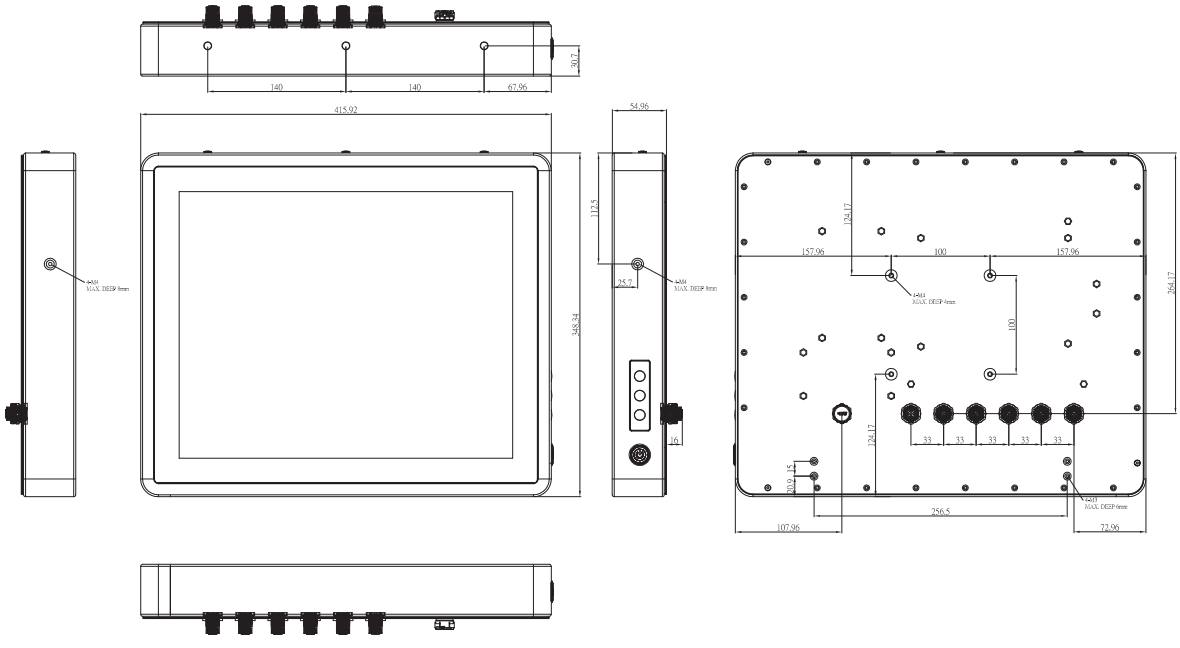
Optional EOS Installation

WES 7
WE8S
Windows® 10 IoT

Optional OS Installation

Windows® 7
Windows® 8/8.1
Windows® 10

Dimensions



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Fanless Touch Panel Computers

Heavy-duty Fanless Touch Panel Computers

Stainless Touch Panel Computers

Transportation Touch Panel Computers and Monitors

Industrial Touch Panel Computers

Industrial Touch Monitors

Medical Panel Computers

Open Frame Panel Computer

Industrial Panel PCs

4 Transportation Touch Panel Computers & Monitors

Axiomtek's GOT600 series is defined as vehicle mount terminal for logistics, automation and heavy-duty markets, especially in the case of forklifts. The GOT700 series is designed as a train operator interface to inform the train engineer about the status of the train's functions during operation. It complies with the EMC, shock and vibration test requirements of the European standard EN 50155 for railway applications. The P6100 series is EN 50155 certified railway touchscreen monitor designed specifically for transportation application. The railway touchscreen monitor has an industrial-grade IP65/NEMA 4/12 compliant metal front bezel which resists water spillage and is specifically designed for railway sector. It could work perfectly for displaying information of train functions, fleet management, and many types of heavy transport equipment.

	Selection Guide		343
NEW	GOT610-837	10.4" XGA TFT LCD Vehicle Mount Terminal with Intel® Atom® Processor E3845 1.91 GHz for Heavy-duty Vehicle (-30°C to +55°C)	345
	GOT710-837	10.4" XVGA TFT LCD Railway Fanless Touchscreen Panel PC with Intel® Atom® Processor E3845 1.91 GHz (-25°C to +70°C)	347
	GOT712-837	12.1" XGA TFT LCD Railway Fanless Touchscreen Panel PC with Intel® Atom® Processor E3845 1.91 GHz (-25°C to +70°C)	349
	P6105	10.4" XGA TFT LCD Railway Touchscreen Monitor (-25°C to +55°C)	351
	P6125	12.1" XGA TFT LCD Railway Touchscreen Monitor (-25°C to +55°C)	353
NEW	P6187W-PIS	18.5" Railway Monitor for Passenger Information System (PIS)	355

Transportation Touch Panel Computers

Selection Guide

NEW







Features\Models	GOT610-837	GOT710-837	GOT712-837
CPU Level	Intel® Atom® E3845 (1.91 GHz)	Intel® Atom® E3845 (1.91 GHz)	Intel® Atom® E3845 (1.91 GHz)
Chipset	SoC intergrated	SoC intergrated	SoC intergrated
System Memory	DDR3 4GB (default) or 8GB memory onboard	DDR3 4GB onboard	DDR3 4GB onboard
Display	10.4" XGA TFT LCD, 500 nits	10.4" SVGA TFT, 1000 nits	12.1" XGA TFT, 800 nits
I/O	1 x 10/100/1000 Mbps Ethernet with isolated 1.5kV 4 x USB port type A connector 1 x RS-232/422/485 with isolated 1.5kV (D-sub 9 male) 1 x DC for power input with isolated 1.5kV 1 x Audio (Line-out & Mic-in) 1 x DIO (6-in/2-out) with isolated 1.5kV (Phoenix type) 1 x CANBus with isolated 1.5kV (D-sub 9 male) 3 x Internal Antenna (SMA) 1 x SIM Card socket	2 x RS-232/422/485 with isolated 1.5kV (M12, A-coded) 2 x RJ-45 with isolated 1.5kV (M12, X-coded) 2 x USB 2.0 (M12, A-coded) 1 x DC power input with isolated 1.5kV (M12, A-coded) 1 x Audio (Line-out & Mic-in), Speaker (D-sub) 1 x DIO (6-in/2-out) with isolated 1.5kV (D-sub) 1 x CANBus with isolated 1.5kV (D-sub)	2 x RS-232/422/485 with isolated 1.5kV (M12, A-coded) 2 x RJ-45 with isolated 1.5kV (M12, X-coded) 2 x USB 2.0 (M12, A-coded) 1 x DC power input with isolated 1.5kV (M12, A-coded) 1 x Audio (Line-out & Mic-in), Speaker (D-sub) 1 x DIO (6-in/2-out) with isolated 1.5kV (D-sub) 1 x CANBus with isolated 1.5kV (D-sub)
Storage	16GB flash onboard 1 x mSATA	16GB flash onboard 1 x mSATA	16GB flash onboard 1 x mSATA
Expansion Interface	2 x Full-size PCI Express Mini Card slot	2 x PCI Express Mini Card slot	2 x PCI Express Mini Card slot
Touchscreen	5-wire resistive or projected capacitive touch	5-wire resistive type or glass with keyboard	5-wire resistive type or glass with keyboard
Operating System	Windows® 7, WES7 Windows® 8/8.1, WE8S Windows® 10, Windows® 10 IoT	Windows® 8.1, WE8S, Windows® 7, WES7 Windows® 10 IoT	Windows® 8.1, WE8S, Windows® 7, WES7 Windows® 10 IoT
Power Supply	9 to 60 VDC	16.8 to 30 VDC or 77 to 137.5 VDC	16.8 to 30 VDC or 77 to 137.5 VDC
Power Consumption	44.5W	36W	35W
Watchdog Timer	255 levels, 1 to 255 sec	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.
Front Bezel	Aluminum with rugged protection	Aluminum with rugged protection	Aluminum with rugged protection
Dimensions (W x D x H)	291 x 50 x 266 mm (11.46" x 1.97" x 10.47")	310 x 65 x 216 mm (12.20" x 2.56"x 8.50")	330 x 64.4 x 245 mm (13" x 2.53"x 9.65")
Weight (net/gross)	2.0 kg (4.4 lb)/3.25 kg (7.16 lb)	2.4 kg (5.29 lb)/5 kg (11.02 lb)	2.4 kg (5.29 lb)/5 kg (11.02 lb)
Operating Temperature	-30°C to +55°C (-22°F to +131°F)	-25°C to +70°C (-13°F to +158°F)	-25°C to +70°C (-13°F to +158°F)
Certifications	CE, EN 60721-3-5	EN 50155 railway EN 50121-3-2 railway EMC EN 61373 railway shock/vibration	EN 50155 railway EN 50121-3-2 railway EMC EN 61373 railway shock/vibration

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Transportation Touch Displays

Selection Guide





NEW



Features\Models	P6105	P6125	P6187W-PIS
Display Type	10.4" XGA TFT	12.1" XGA TFT	18.5" FHD LCD
Max. Colors	16.2M	16.2M	16.7M
Active Area (mm)	210.4 x 157.8	210.4 x 157.8	408.96 x 203.04
Max. Resolution	1024 x 768	1024 x 768	1920 x 1080
Display Mode	VGA 640 x 480 (60/72 Hz) SVGA 800 x 600 (60/72 Hz) XGA 1024 x 768 (60/72 Hz)	VGA 640 x 480 (60/72 Hz) SVGA 800 x 600 (60/72 Hz) XGA 1024 x 768 (60/72 Hz)	N/A
Pixel Pitch (H x V, mm)	0.0685 x 0.2055	0.0685 x 0.2055	0.213 x 0.213
Backlight	LED	LED	LED
Backlight MTBF (hrs)	50,000	50,000	N/A
Viewing Angle (H/V)	176°/176°	176°/176°	178°/178°
Response Time	25ms	25ms	20 m/sec.
Contrast Ratio	1000 (TYP)	1000 (TYP)	1000 (TYP)
Brightness (cd/m²)	500 nits	800 nits	500 nits
Display Control	OSD	OSD	OSD
I/O Connectors	1 x DC power input 1 x RS-232 for touch and remote control 1 x VGA 1 x HDMI 1 x DVI-D 1 x Line-in	1 x DC power input 1 x RS-232 for touch and remote control 1 x VGA 1 x HDMI 1 x DVI-D 1 x Line-in	1 x DC power input 1 x RS-232 for touch and remote control 1 x HDMI 1 x VGA 1 x DVI-D 1 x Line-in
Touchscreen	Resistive type	Resistive type	Glass type
Power Consumption	16W	33W	TBD
Power Supply	24 or 110 VDC power input	24 or 110 VDC power input	24 to 110 VDC
Dimensions (W x D x H)	310 x 49 x 214 mm (12.20" x 1.94" x 8.43")	330 x 57 x 245 mm (12.99" x 2.24" x 9.65")	445.2 x 269.4 x 50.3 mm (17.52" x 10.6" x 1.98")
Weight (net/gross)	2.0 kg (4.4 lb)/3.25 kg (7.16 lb)	2.2 kg (4.85 lb)/3.45 kg (7.61 lb)	4.4 kg (9.7 lb)/5.9 kg (13.0 lb)
Operating Temperature	-25°C to +55°C (-13°F to +131°F)	-25°C to +55°C (-13°F to +131°F)	-25°C to +55°C (-13°F to +131°F)
Mounting	Panel mount/Wall mount/VESA arm	Panel mount/Wall mount/VESA arm	VESA arm
Certifications	EN 50155 railway EN 50121-3-2 railway EMC EN 613703 railway shock/vibration	EN 50155 railway EN 50121-3-2 railway EMC EN 613703 railway shock/vibration	EN 50155/IEC 60571, EN 50121-3-2, EN 45545-2, CE

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GOT610-837 NEW

10.4" XGA TFT LCD Vehicle Mount Terminal with Intel® Atom® Processor E3845 1.91 GHz for Heavy-duty Vehicle (-30°C to +55°C)

Features

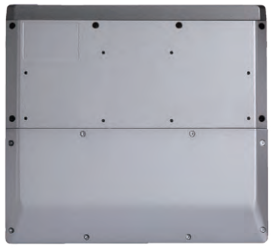
- Intel® Atom® processor E3845 1.91 GHz
- Auto-dimming for different environment
- Rugged IP65 front bezel design
- Front hot keys for easy access
- Wide operating temperature range from -30°C to +55°C
- Various mounting ways
- 5-wire resistive or projected capacitive touch
- EN 60721-3-5 class 5M3 and MIL-STD-810F for high vibration/shock-proof



▲ Top view



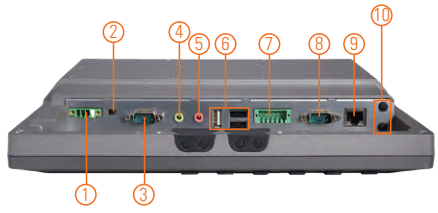
▲ Side view



▲ Rear view



1. Multi-function key
2. Brightness +/-
3. Volume +/-
4. LCD on/off
5. LED indicator
6. LED light sensor



1. DC-in
2. AX/ATX mode switch
3. CANbus
4. 1 x line-out
5. 1 x mic-in
6. 3 x USB 2.0 type A
7. DIO (6-in/2-out)
8. 1 x RS-232/422/485
9. 1 x LAN
10. 2 x Wi-Fi SMA antenna opening
11. 3G/LTE/Wi-Fi SMA antenna opening
12. SIM card socket
13. 1 x USB 2.0 type A



Introduction

The GOT610-837 vehicle mount terminal focuses on logistics, automation and heavy-duty markets. The 10.4" vehicle mount terminal is engineered specifically for in-vehicle use and can be operated in extreme and regular environments indoor and outdoor. The GOT610-837 is designed to improve efficiencies across the facility. Especially in the case of forklifts, embedding a capable mobile terminal can improve productivity and reduce errors between docks and warehouse. Having access to accurate information at all time in real-time aids in every process from receiving to storing, moving around, cross docking and picking.

Wide Temperature (-30°C to +55°C)
The Intel® Atom®-based vehicle mount terminal, GOT610-837, applies unique extended temperature technology with wide temperature range support as well as fanless operation. It also has a compact design to fit seamlessly into forklift and other heavy-duty vehicles.

Designed for Vehicle Markets
The Axiomtek GOT610-837 is particularly suitable for demanding HMI applications in the vehicle-mounted sector, including arranging stocks and picking goods up and away. To ensure the reliable operation in a variety of different locations, the 10.4" vehicle-mounted panel PC supports various mounting options: wall mount, VESA arm and desktop stand. Moreover, it is also ready for Windows® 10, 8.1 or 7.

Specifications

Front Bezel	IP65, NEMA 4 rugged protection, aluminum front bezel	
LCD Panel	Display Type	10.4" TFT LCD
	Brightness (cd/m^2)	500 nits
	Resolution	1024 x 768
	Viewing Angle (H/V)	176°/176°
Main System	CPU	Intel® Atom® processor E3845 1.91 GHz (Bay Trail)
	Chipset	SoC integrated
	System Memory	DDR3 4GB (default) or 8GB memory onboard
	BIOS	AMI with Axiomtek standard features, such as SmartView, Ethernet Boot ROM (RPL & PXE), customer CMOS backup
	Storage	16GB flash onboard 1 x mSATA
	Watchdog Timer	255 levels, 1 to 255 sec.
	Onboard Graphics	Integrated in Intel® GFX

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Specifications

I/O Connector	1 x RJ-45 GbE (isolation level 1.5kV) 4 x USB 2.0 type A 1x Isolated DB9 RS-232/422/485 (isolation level 1.5kV) 1 x 4-pin terminal block DC-in 2 x Audio line-out, mic-in 1 x Isolated terminal block DIO (6-in/2-out, isolation level 1.5kV) 1 x Isolated DB9 CANbus (isolation level 1.5kV) 3 x SMA antenna opening 1 x SIM card socket
Expansion Interface	2 x PCI Express Mini Card slot
Flat Panel	5-wire resistive or projected capacitive touch
Power Supply	9 to 60 VDC
Power Consumption	44.5W
Dimensions	291 mm (11.46") (W) x 50 mm (1.97") (D) x 266 mm (10.47") (H)
Packing Dimensions	382 mm (15.04") (W) x 185 mm (7.28") (D) x 427 mm (16.81") (H)
Weight (net)	2.0 kg (4.4 lb)/3.25 kg (7.16 lb)
Operating Temperature	-30°C to +55°C (-22°F to +131°F)
Relative Humidity	10% to 95% @ 40°C, non-condensing
Certifications	CE, EN 60721-3-5

* W.T.: Wide Temperature. All W.T. supported products have to be sorted by Axiomtek.

Packing List

1 x GOT610-837 unit
2 x Phoenix connector (1 x power -pin/1 x DIO 12-pin)

Ordering Information

GOT610-837 (P/N: E22B610100)	10.4" XGA fanless vehicle mount terminal with Intel® Atom® E3845, 5-wire resistive touch screen and 9 to 60 VDC power input

Specifications and certifications may vary based on different requirements.

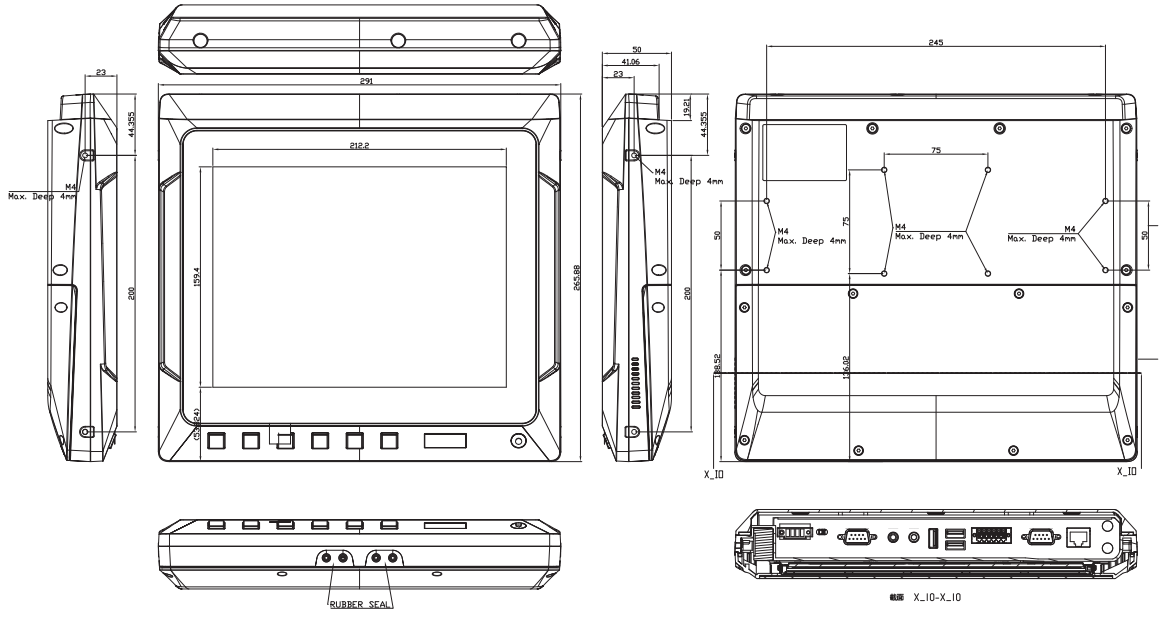
Optional EOS Installation

WES 7
WE8S
Windows® 10 IoT

Optional OS Installation

Windows® 7
Windows® 8/8.1
Windows® 10

Dimensions



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GOT710-837

10.4" SVGA TFT LCD Railway Fanless Touchscreen Panel PC with Intel® Atom® Processor E3845 1.91 GHz (-25°C to +70°C)

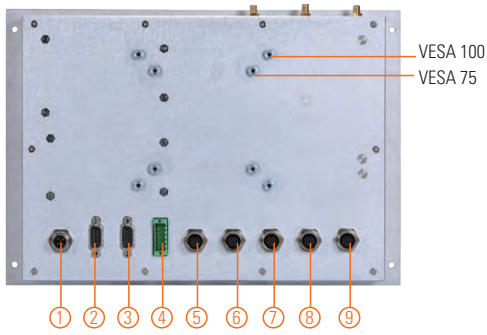
Features

- Sunlight readable 10.4" SVGA TFT LCD with 1000 nits of brightness
- Intel® Atom® processor E3845 1.91 GHz
- Alternative keypad control in the front bezel
- M12-type lockable connectors design
- Auto-dimming for different environments
- -25°C to +70°C wide temperature range (T3 Level)
- EN 50155, EN 45545 certified for railway application





▲ Side view



1. DC power input with isolation 1.5kV
2. CANbus with isolation 1.5kV
3. Audio (line-out, line-in, mic-in & speaker-out)
4. DIO (6-in/2-out with isolation 1.5kV)
5. 2 x USB 2.0
6. 1 x RS-232/422/485 with isolation 1.5kV
7. 1 x RS-232/422/485 with isolation 1.5kV
8. 1 x GbE with isolation 1.5kV
9. 1 x GbE with isolation 1.5kV



Introduction

The EN 50155 certified, GOT710-837 is equipped with a 10.4-inch SVGA TFT LCD with high brightness LED backlight (1000 nits), which allows a train operator to easily read any operational status messages, even under direct sunlight. Design for ease of use and maintenance, this all-in-one 10.4" railway touchscreen panel PC also has an alternative keypad control on the front bezel for easy access and cleaning purposes. This feature-rich panel PC has an IP65-rated, M12 connectors and is EN 50155 certified.

Wide Temperature (-25°C to +70°C)

The Intel® Atom®-based railway panel PC, GOT710-837, applies unique extended temperature technology with wide temperature range support as well as fanless operation. It also has a high brightness TFT LCD display and compact design for transport heavy-duty environment.

Designed for Railway Application

The Axiomtek GOT710-837 is particularly suitable for demanding HMI applications in the railway sector, including tasks like monitoring and controlling as speed, temperature, and security, or for fleet management. To ensure the reliable operation in a variety of different locations, the 10.4-inch railway panel PC supports various mounting options: panel mount, wall mount, VESA arm and desktop stand. Moreover, it is also ready for Windows® 10, 8 and 7.

Specifications

Front Bezel	IP65, NEMA 4 rugged protection, aluminum front bezel	
LCD Panel	Display Type	10.4" TFT LCD
	Brightness (cd/m^2)	1000 nits
	Resolution	800 x 600
	Viewing Angle (H/V)	160°/160°
Main System	CPU	Intel® Atom® processor E3845 1.91 GHz (Bay Trail)
	Chipset	SoC integrated
	System Memory	DDR3 4GB (default) or 8GB memory onboard
	BIOS	AMI with Axiomtek standard features, such as SmartView, Ethernet Boot ROM (RPL & PXE), customer CMOS backup
	Storage	16GB flash onboard 1 x mSATA
	Watchdog Timer	255 levels, 1 to 255 sec.
	Onboard Graphics	Integrated in Intel® GFX

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Specifications

I/O Connector	2 x Isolated M12 A-coded RS-232/422/485 (isolation level 1.5kV) 2 x isolated M12 X-coded GbE (isolation level 1.5kV) 1 x M12 A-coded USB 2.0 (2 port signal) 1 x M12 A-coded DC-in 1 x DB15 audio line-in, line-out, mic-in and speaker-out 1 x Isolated terminal block DIO (6-in/2-out, isolation level 1.5kV) 1 x Isolated DB9 CANbus (isolation level 1.5kV)
Expansion Interface	2 x PCI Express Mini Card slot
Flat Panel	Alternative 5-wire resistive touchscreen or keyboard
Power Supply	24 VDC or 110 VDC 10ms hold up time (S2)
Power Consumption	36W
Dimensions	310 mm (12.20") (W) x 65.05 mm (2.56") (D) x 216 mm (8.50") (H)
Packing Dimensions	382 mm (15.04") (W) x 185 mm (7.28") (D) x 427 mm (16.81") (H)
Weight (net/gross)	2.4 kg (5.29 lb)/5 kg (11.02 lb)
Operating Temperature	-25°C to +70°C (-13°F to +158°F)
Relative Humidity	10% to 95% @ +40°C, non-condensing
Certifications	CE, EN 50155, EN 45545 Complied UIC 612

* W.T.: Wide Temperature. All W.T. supported products have to be sorted by Axiomtek.

Ordering Information

24 VDC Power Input	
GOT710-837-R-E3845-24 VDC (P/N: E22B710101)	10.4" SVGA railway fanless touchscreen panel PC with Intel® Atom® E3845, sunlight readable LCD (1000 nits), 5-wire resistive touchscreen and 24 VDC power input
GOT710-837-R-E3845-24 VDC with keypad (P/N: E22B710102)	10.4" SVGA railway fanless touchscreen panel PC with Intel® Atom® E3845, sunlight readable LCD (1000 nits), 5-wire resistive touchscreen 24 VDC power input and keypad
GOT710-837-G-E3845-24 VDC with keypad (P/N: E22B710103)	10.4" SVGA railway fanless panel computer with Intel® Atom® E3845, sunlight readable LCD (1000 nits), non-touchscreen, 24 VDC power input and keypad
110 VDC Power Input	
GOT710-837-R-E3845-110 VDC (P/N: E22B710104)	10.4" SVGA railway fanless touchscreen panel PC with Intel® Atom® E3845, sunlight readable LCD (1000 nits), 5-wire resistive touchscreen and 110 VDC power input
GOT710-837-R-E3845-110 VDC with keypad (P/N: E22B710105)	10.4" SVGA EN 50155 railway fanless touchscreen panel PC with Intel® Atom® E3845, sunlight readable LCD (1000 nits), 5-wire resistive touchscreen, 110 VDC power input and keypad

*Specifications and certifications may vary based on different requirements.

Packing List

1 x GOT710-837 unit
1 x Power cable
1 x Phoenix connector

Optional Accessories

822B7100140E	GOT710 3G+GPS kit
8812B7100A0E	GOT710 Wi-Fi Kit
594B8122820E	M12 A-coded USB cable
594B7102100E	RS-232 cable
594B7102700E	M12 X-coded LAN cable



▲ Touch without keypad version

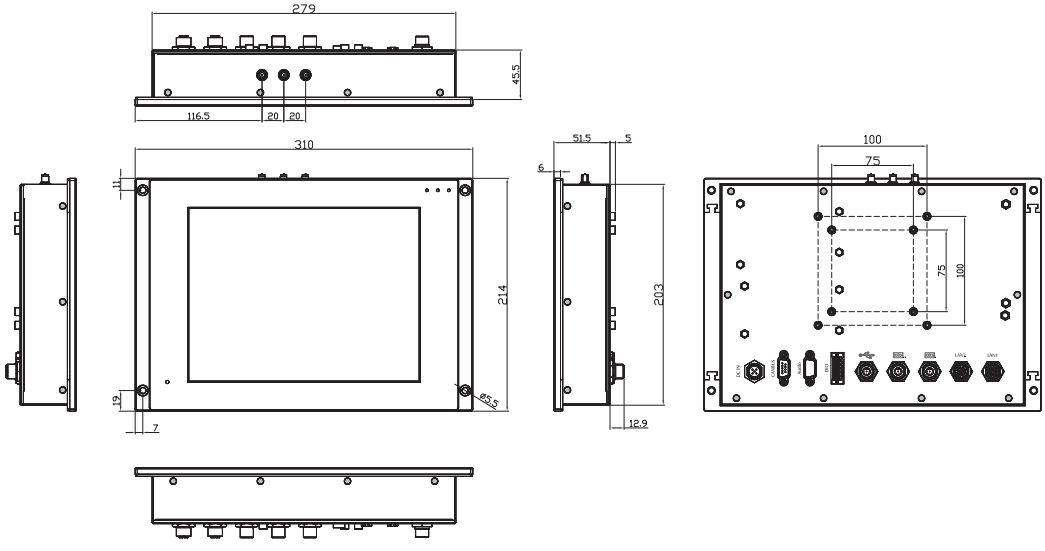
Optional EOS Installation

WES 7
WE8S
Windows® 10 (IoT)

Optional OS Installation

Windows® 7
Windows® 8/8.1
Windows® 10

Dimensions



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GOT712-837

12.1" XGA TFT LCD Railway Fanless Touchscreen Panel PC with Intel® Atom® Processor E3845 1.91 GHz (-25°C to +70°C)

Features

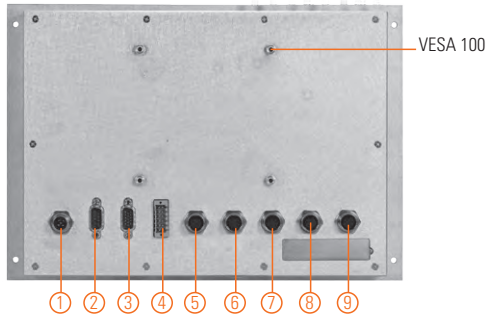
- Sunlight readable 12.1" XGA TFT LCD with a high brightness of 800 nits
- Fanless with Intel® Atom® processor E3845 1.91 GHz
- All lockable connectors design
- Auto-dimming for different environments
- -25°C to +70°C wide temperature range
- EN 50155 compliance

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▲ Side view



1. DC power input
2. CANbus with isolation 1.5kV
3. Audio (line-out, line-in, mic-in & speaker-out)
4. DIO (6-in/2-out with isolation 1.5kV)
5. 2 x USB 2.0
6. 1 x RS-232/422/485 with isolation 1.5kV
7. 1 x RS-232/422/485 with isolation 1.5kV
8. 1 x GbE with isolation 1.5kV
9. 1 x GbE with isolation 1.5kV

EN50155 | M12 Connector | Fanless | Low Power | Ext. Temp | DDR3

Introduction

The EN 50155 railway touchscreen panel PC, GOT712-837, is equipped with a 12.1-inch XGA TFT LCD with high brightness LED backlight (800 nits), which allows a train operator to easily read any operational status messages, even under direct sunlight. Design for ease of use and maintenance, this all-in-one 12.1" railway touch panel PC also has an alternative keypad control on the front bezel for easy access and cleaning purposes. This feature-rich panel PC has an IP65-rated front bezel, M12 connectors and EN 50155 compliance.

Wide Temperature (-25°C to +70°C)

The Intel® Atom®-based railway panel PC, GOT712-837, applies unique extended temperature technology with wide temperature range support as well as fanless operation. It also has a high brightness display and compact design for transport heavy-duty environment.

Designed for Railway Application

The Axiomtek GOT712-837 is particularly suitable for demanding HMI applications in the railway sector, including tasks like monitoring and controlling speed, temperature, and security, or for fleet management. To ensure the reliable operation in a variety of different locations, the 12.1-inch railway panel PC supports various mounting options: panel mount, wall mount, VESA arm and desktop stand. Moreover, it is also ready for Windows® 7, 8.1 and 10.

Specifications

Front Bezel	IP65, NEMA 4 rugged protection, aluminum front bezel	
LCD Panel	Display Type	12.1" TFT LCD
	Brightness (cd/m^2)	800 nits
	Resolution	1024 x 768
	Viewing Angle (H/V)	160°/160°
Main System	CPU	Intel® Atom® processor E3845 1.91 GHz (Bay Trail)
	Chipset	SoC integrated
	System Memory	DDR3 4GB (default) or 8GB memory onboard
	BIOS	AMI with Axiomtek standard features, such as SmartView, Ethernet Boot ROM (RPL & PXE), customer CMOS backup
	Storage	16GB flash onboard 1 x mSATA
	Watchdog Timer	255 levels, 1 to 255 sec.
	Onboard Graphics	Integrated in Intel® GFX

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Specifications

I/O Connector	2 x Isolated M12 A-coded RS-232/422/485 (isolation level 1.5kV) 2 x Isolated M12 X-coded GbE (isolation level 1.5kV) 1 x M12 A-coded USB 2.0 (2 port signal) 1 x M12 A-coded DC-in 1 x DB15 audio line-in, line-out, mic-in and speaker-out 1 x Isolated terminal block DIO (6-in/2-out, isolation level 1.5kV) 1 x Isolated DB9 CANbus (isolation level 1.5kV)
Expansion Interface	2 x PCI Express Mini Card slot
Flat Panel	Alternative 5-wire resistive touchscreen or keyboard
Power Supply	24 VDC or 110 VDC 10ms hold up time (S2)
Power Consumption	35W
Dimensions	330 mm (13") (W) x 64.4 mm (2.53") (D) x 245 mm (9.65") (H)
Packing Dimensions	510 mm (20.08") (W) x 186 mm (7.32") (D) x 532 mm (20.94") (H)
Weight (net/gross)	5.54 kg (12.21 lb)/3 kg (6.61 lb)
Operating Temperature	-25°C to +70°C (-13°F to +158°F)
Relative Humidity	10% to 95% @ +40°C, non-condensing
Certifications	CE, EN 50155, EN 45545 compliance

* W.T.: Wide Temperature. All W.T. supported products have to be sorted by Axiomtek.

Packing List

1 x GOT712-837 unit
1 x Power cable
1 x Phoenix connector

Ordering Information

24VDC Power Input	
GOT712-837-R-E3845-24VDC (P/N: E22B712100)	12" XGA railway fanless touchscreen panel PC with Intel® Atom® E3845, sunlight readable LCD (800 nits), 5-wire resistive touchscreen and 24 VDC power input
110VDC Power Input	
GOT712-837-R-E3845-110VDC (P/N: E22B712101)	12" XGA railway fanless touch panel computer with Intel® Atom® E3845, sunlight readable LCD (800 nits), 5-wire resistive touchscreen and 110 VDC power input

*Specifications and certifications may vary based on different requirements.

Optional Accessories

822B7100140E	GOT712 3G+GPS kit
8812B7100A0E	GOT712 Wi-Fi kit
594B8122820E	M12 A-coded USB cable
594B7102100E	RS-232 cable
594B7102700E	M12 X-coded LAN cable

Optional EOS Installation

WES 7
WE8S
Windows® 10 (IoT)

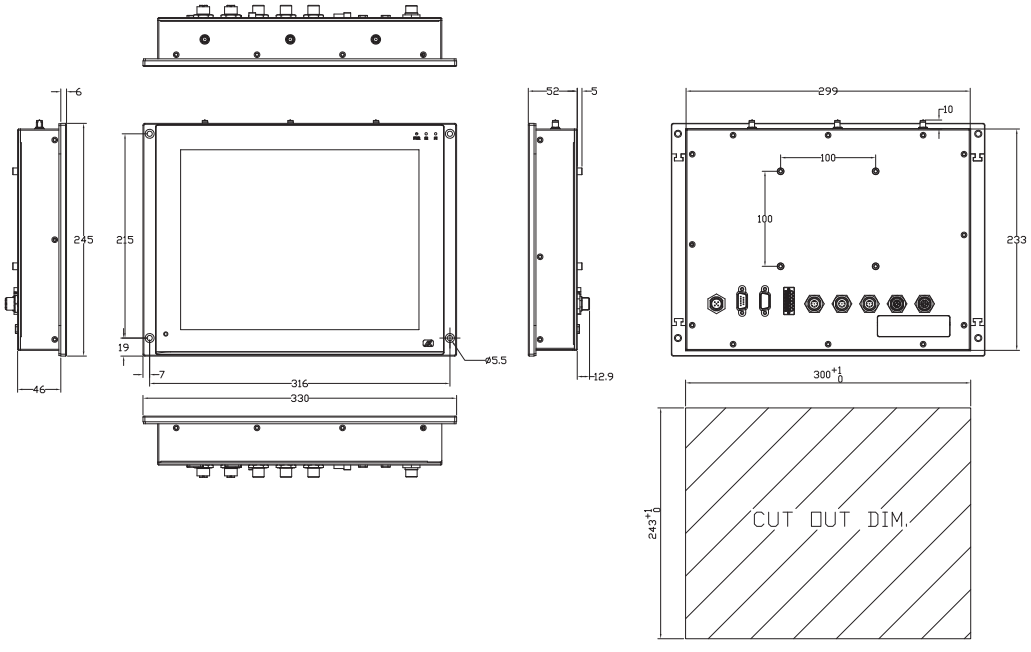
Optional OS Installation

Windows® 7
Windows® 8/8.1
Windows® 10



▲ Touch without keypad version

Dimensions



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P6105

10.4" XGA TFT LCD Railway Touchscreen Monitor (-25°C to +55°C)

Features

- EN 50155, EN 45545 certified railway monitor (touchscreen is optional)
- Wide viewing angle and high brightness 500 nits
- VGA, DVI-D and HDMI with multiple video inputs
- Light sensor for auto-dimming
- 24 VDC or 110 VDC power input
- -25°C to +55°C wide temperature range
- Supports 5 OSD keys on the front bezel

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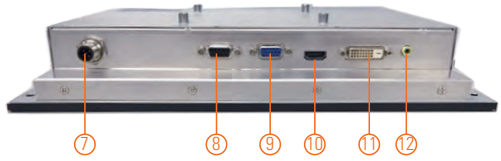


1. Menu
2. SEL+
3. SEL-
4. Exit
5. Power LED
6. Power switch



▲ Side view





7. DC power input
8. 1 x RS-232 (touch & remote control)
9. 1 x VGA
10. 1 x HDMI
11. 1 x DVI-D
12. 1 x Line-in
13. Speaker

EN50155 | EN45545-2 | Ext. Temp

Introduction

The EN 50155 railway touchscreen monitor P6105 adopts a 10.4-inch XGA TFT LCD with 500 nits brightness and a 5-wire resistive touchscreen with IP65-rated aluminum front bezel to provide water-proof and user friendly control interface.

Wide Temperature (-25°C to +55°C)
The Axiomtek 10.4-inch railway touchscreen monitor adopts extended temperature technology with a wide range from -25°C to +55°C and fanless cooling system as well as super compact design for transportation & harsh environment.

High Brightness 500 nits with Wide Viewing Angle
The railway grade P6105 adopts a high brightness 500 nits 10.4-inch LCD with sunlight readable technology. With its wide viewing angle, user won't miss information on the display.

Anti-vibration for Railway
With an anti-vibration design and complied to EN 50155, EN 61373 Cat. 1 Class B, the Axiomtek rugged 10.4" railway touchscreen monitor can work perfectly on the train.

Specifications

Front Bezel	NEMA 4/12 (IP65)-compliant, metal front bezel	
LCD Panel	Display Type	10.4" TFT LCD
	Max. Resolution	1024 x 768
	Max. Colors	16.2M/262k
	Active Area (mm)	210.4 (H) x 157.8 (V)
	Pixel Pitch (mm)	0.0685 (H) x 0.2055 (V)
	Response Time	25ms
	Backlight	LED
	Backlight MTBF	50,000 hrs
	Viewing Angle (H/V)	176°/176°
	Contrast Ratio	1000 (TYP.)
	Brightness (cd/m^2)	500 nits
Display Control	OSD (on screen display)	
Display Mode	VGA 640 x 480 (60/72 Hz) SVGA 800 x 600 (60/72 Hz) XGA 1024 x 768 (60/72 Hz)	
Input Signal	VGA HDMI DVI-D RS-232 for touchscreen and IR remote control	

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Specifications

I/O Connectors	1 x RS-232 for touchscreen and remote control 1 x HDMI 1 x DVI-D 1 x M12 DC-in 1 x VGA 1 x Line-in
Power Supply	24 VDC or 110 VDC power input
Power Consumption	24V, 16W
Touchscreen	Thickness Resistive: 2.2 mm Light Transmission Resistive: 80% Power Consumption Resistive: +5V @ 100mA Touch Life Resistive: 35 million touches Controller Interface: RS-232 DB9 male connector
Dimensions	310 mm (12.20") (W) x 49 mm (1.94") (D) x 214 mm (8.43") (H)
Packing Dimensions	372 mm (14.65") (W) x 175 mm (6.89") (W) x 412 mm (16.2") (H)
Weight (net/gross)	2.2 kg (4.85 lb) /3.45 kg (7.61 lb)
Operating Temperature	-25°C to +55°C (-13°F to +131°F)
Relative Humidity	20% to 90% @ +40°C, non-condensing
Certifications	CE, EN 50155, EN 45545

Packing List

1 x P6105 unit
1 x VGA cable
1 x RS-232 cable (for resisitve touch)

Ordering Information

P6105PR-24VDC with VGA (P/N: E226105103)	10.4" XGA LCD railway touchscreen monitor with 24 VDC power input
P6105PR-110VDC with VGA (P/N: E226105104)	10.4" XGA LCD railway touchscreen monitor with 110 VDC power input

*Specifications and certifications may vary based on different requirements.

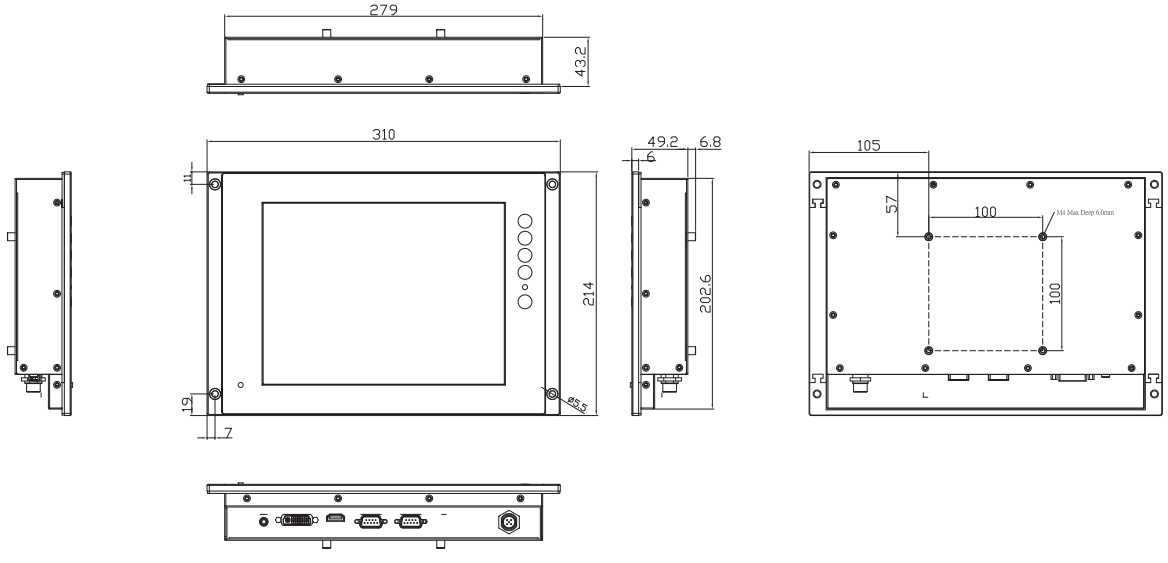
Optional Accessories

5946L203800E	HDMI cable
59461713400E	DVI cable



▲ Rear view

Dimensions



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P6125

12.1" XGA TFT LCD Railway Touchscreen Monitor (-25°C to +55°C)

Features

- EN 50155 compliant monitor for railway application
- 12.1" high brightness XGA TFT touchscreen LCD
- Wide viewing angle and high brightness 800 nits
- VGA, DVI-D and HDMI with multiple video inputs
- Light sensor for auto-dimming
- 24 to 110 VDC power input
- -25°C to +55°C wide temperature range
- Supports 5 OSD keys on the front panel

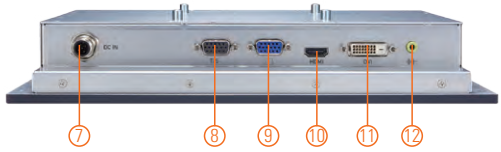


1. Menu
2. SEL+
3. SEL-
4. Exit
5. Power LED
6. Power switch



▲ Side view





7. DC power input
8. 1 x RS-232 (touch & remote control)
9. 1 x VGA
10. 1 x HDMI
11. 1 x DVI-D
12. 1 x Line-in
13. Speaker

EN50155 | Compliant EN 45545-2 | Ext. Temp

Introduction

The EN 50155 compliant railway touchscreen monitor P6125 adopts a 12.1inch XGA TFT LCD with 800 nits of brightness and a 5-wire resistive touchscreen with IP65-rated aluminum front bezel to provide protection of liquad damage and user friendly control interface.

Wide Temperature (-25°C to +55°C)
The EN50155 compliant railway touchscreen monitor supports a wide temperature range from -25°C to +55°C. Its fanless cooling system and super compact designs are suited for rolling stock applications as well as other harsh environments.

High Brightness 800 nits with Wide Viewing Angle
The railway grade P6125 adopts a high brightness of 800 nits 12.1-inch LCD with sunlight readable technology. The screen is legible even under strong sunlight and is readable under skies outdoor in parking lots and more. Additionally, with its wide viewing angle feature, users won't miss any information.

Anti-vibration for Railway
With an anti-vibration design and complied to EN 50155, EN 61373 Cat. 1 Class B, the Axiomtek rugged 12.1" railway touchscreen monitor can work perfectly on the train.

Specifications

Front Bezel	NEMA 4/12 (IP65)-compliant, metal front bezel	
LCD Panel	Display Type	12.1" TFT LCD
	Max. Resolution	1024 x 768
	Max. Colors	16.2M/262k
	Active Area (mm)	210.4 (H) x 157.8 (V)
	Pixel Pitch (mm)	0.0685 (H) x 0.2055 (V)
	Response Time	25ms
	Backlight	LED
	Backlight MTBF	50,000 hrs
	Viewing Angle (H/V)	176°/176°
	Contrast Ratio	1000 (TYP.)
	Brightness (cd/m^2)	800 nits
Display Control	OSD (on screen display)	
Display Mode	VGA 640 x 480 (60/72 Hz) SVGA 800 x 600 (60/72 Hz) XGA 1024 x 768 (60/72 Hz)	
Input Signal	VGA HDMI DVI-D RS-232 for touchscreen and IR remote control	

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Specifications

I/O Connectors	1 x RS-232 for touchscreen and remote control 1 x HDMI 1 x DVI-D 1 x M12 DC-in 1 x VGA 1 x Line-in
Power Supply	24 to 110 VDC power input
Power Consumption	33W
Touchscreen	Thickness Resistive: 2.2 mm Light Transmission Resistive: 80% Power Consumption Resistive: +5V @ 100mA Touch Life Resistive: 35 million touches Controller Interface: RS-232 D-type 9-pin male connector
Dimensions	330 mm (12.99") (W) x 57 mm (2.24") (D) x 245 mm (9.65") (H)
Packing Dimensions	510 mm (20.08") (W) x 186 mm (7.32") (W) x 532 mm (20.94") (H)
Weight (net/gross)	2.2 kg (4.85 lb)/3.45 kg (7.61 lb)
Operating Temperature	-25°C to +55°C (-13°F to +131°F)
Relative Humidity	20% to 90% @ +40°C, non-condensing
Certifications	CE, EN 50155, EN 45545 compliance

Packing List

1 x P6125 unit
1 x VGA cable
1 x RS-232 cable (for resisitve touch)

Ordering Information

P6125PR (P/N: E226125100)	12.1" XGA LCD railway touchscreen monitor with 24 to 110 VDC power input

*Specifications and certifications may vary based on different requirements.

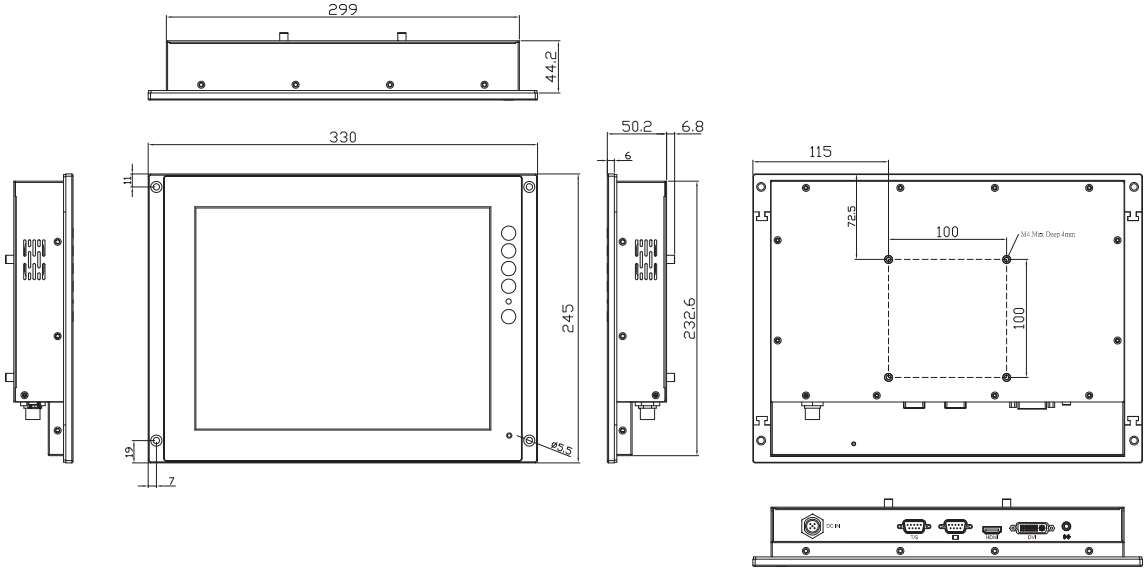
Optional Accessories

5946L203800E	HDMI cable
59461713400E	DVI cable



▲ Raer view

Dimensions



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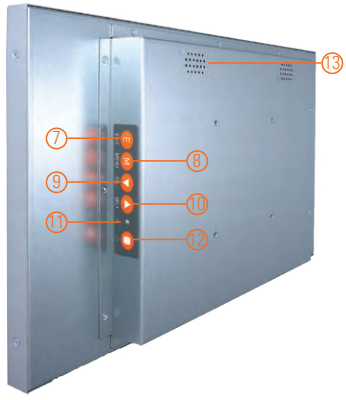
P6187W-PIS NEW

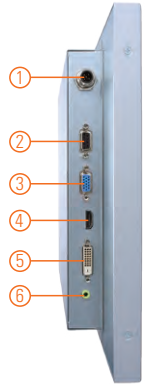
18.5" Full HD TFT LCD Railway Monitor for Passenger Information System (PIS)

Features

- EN 50155, EN 45545 certified monitor
- IP42-rated front bezel design
- 18.5" Full HD TFT LCD, brightness 500 nits
- HDMI, DVI-D and VGA video inputs
- 24 to 110 VDC power input
- Supports VESA arm (100 x 100 mm)
- -25°C to +55°C wide operating temperature range
- Anti-fog glass
- Supports 5 OSD keys







1. DC power input
2. 1 x RS-232 (touch & remote control)
3. 1 x VGA
4. 1 x HDMI
5. 1 x DVI-D
6. 1 x Line-in
7. Exit
8. Menu
9. Select -
10. Select +
11. Power LED
12. Power switch
13. Speaker

EN50155 | Ext. Temp | EN45545-2

Introduction

The P6187W-PIS is a EN 50155 certified and slim-type monitor with IP42 (NEMA 4)-rated front bezel and flat front bezel design, which adopts 18.5-inch 500 nits Full HD TFT LCD and supports multi-signal video-in interfaces including HDMI, DVI-D and VGA. With the compact mechanism design and supporting VESA mounting, The P6187W-PIS is proper for Passenger Information System (PIS) in railway environments.

Wide Temperature (-25°C to +55°C) & Wide DC Power Input
The P6187W-PIS supports a wide temperature range from -25°C to +55°C. Its fanless cooling system and wide range power input of 24V to 110V DC are suited for railway application as well as other harsh environments.

High Brightness 500 nits with Wide Viewing Angle
The railway grade P6187W-PIS adopts a high brightness of 500 nits 18.5-inch TFT LCD, with its wide viewing angle feature, passengers may check the information on the TFT LCD from any angel of positions.

Anti-vibration for Railway
With an anti-vibration design and complied to EN 50155, IEC 60571 and EN 45545, the Axiomtek rugged 18.5" railway monitor can work perfectly on the rolling stock.

Specifications

Front Bezel	IP42, metal front bezel	
Mounting	VESA arm (100 x 100 mm)	
LCD Panel	Display	18.5" TFT LCD
	Max. Resolution	1920 x 1080
	Max. Colors	16.7M colors (8-bit)
	Active Area (mm)	408.96 (H) x 203.04 (V)
	Pixel Pitch (mm)	0.213 x 0.213
	Response Time	20ms
	Backlight	LED
	Viewing Angle (H/V)	178°/178°
	Contrast Ratio	1000 (TYP.)
	Brightness (cd/m^2)	500 nits
Display Control	OSD	
Display Mode	VGA 640 x 480 (60/72/75Hz) SVGA 800 x 600 (56/60/75Hz) XGA 1024 x 768 (60/70/75Hz) WSXGA 1680 x 1050 (60Hz)	
Input Signal	HDMI VGA DVI-D	

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Specifications

I/O Connectors	1 x RS-232 for remote control 1 x HDMI 1 x VGA 1 x DVI-D 1 x M12 DC-in 1 x Line-in
Power Supply	24 to 110 VDC
Dimensions	445.2 mm (17.52") (W) x 269.4 mm (10.6") (D) x 50.3 mm (1.98") (H)
Packing Dimensions	575 mm (22.63") (W) x 170 mm (6.69") (D) x 460 mm (18.11") (H)
Weight (net/gross)	4.4 kg (9.7 lb)/5.9 kg (13.0 lb)
Operating Temperature	-25°C to +55°C (-13°F to +131°F)
Relative Humidity	20% - 90% @ +40°C, non-condensing
Certifications	CE, EN 50155/IEC 60571, EN 45545

Ordering Information

P6187W-PIS	18.5" full HD TFT LCD railway monitor with 24 to 110 VDC power input for passenger information system

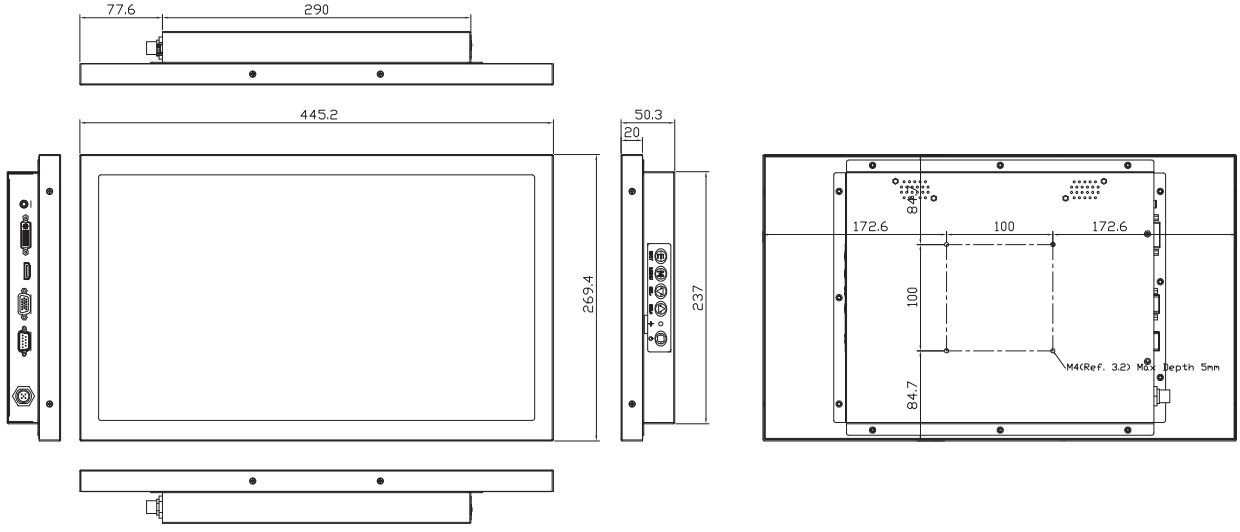
Optional Accessories

5946L203800E	HDMI cable
59461713400E	DVI cable

Packing List

1 x P6187W-PIS unit
1 x VGA cable

Dimensions



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Fanless Touch Panel Computers

Heavy-duty Fanless Touch Panel Computers

Stainless Touch Panel Computers

Transportation Touch Panel Computers and Monitors

Industrial Touch Panel Computers

Industrial Touch Monitors

Medical Panel Computers

Open Frame Panel Computer

Industrial Panel PCs

5 Industrial Touch Panel Computers

Axiomtek provides a complete range of industrial panel computers for automation applications. The high performance P1000 series focuses on factory and machinery market, offering ideal thermal solution, featuring compact sized, easy maintenance design and light weight. The IP65-rated front bezel is specially designed for continuous use in harsh environments. The P1000 series can help customers reduce time-to-market for industry automation.

Selection Guide		359
P1127E-500	12.1" XGA TFT Expandable Industrial Touch Panel Computer with 7th/6th Gen Intel® Core™ i7/i5/i3, Celeron® & Pentium® Processor and PCI/PCIe Slot	361
P1157E-500	15" XGA TFT Expandable Industrial Touch Panel Computer with 7th/6th Gen Intel® Core™ i7/i5/i3, Celeron® & Pentium® Processor and PCI/PCIe Slot	363
P1177E-500	17" SXGA TFT Expandable Industrial Touch Panel Computer with 7th/6th Gen Intel® Core™ i7/i5/i3, Celeron® & Pentium® Processor and PCI/PCIe Slot	365
P1197E-500	19" SXGA TFT Expandable Industrial Touch Panel Computer with 7th/6th Gen Intel® Core™ i7/i5/i3, Celeron® & Pentium® Processor, PCI/PCIe Slot	367

Industrial Touch Panel Computers

Selection Guide

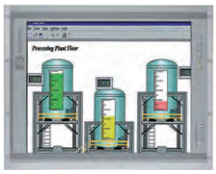






Features\Models	P1127E-500	P1157E-500	P1177E-500
CPU Level	LGA1151 socket 6/7th gen Intel® Core™ i7/i5/i3, Celeron® & Pentium®	LGA1151 socket 6/7th gen Intel® Core™ i7/i5/i3, Celeron® & Pentium®	LGA1151 socket 6/7th gen Intel® Core™ i7/i5/i3, Celeron® & Pentium®
Chipset	Intel® H110	Intel® H110	Intel® H110
System Memory	2 x 288-pin DDR4-2133 Long-DIMM dual channel, up to 32GB	2 x 288-pin DDR4-2133 Long-DIMM dual channel, up to 32GB	2 x 288-pin DDR4-2133 Long-DIMM dual channel, up to 32GB
Display	12.1" XGA TFT, 500 nits	15" XGA TFT, 250 nits	17" SXGA TFT, 250 nits
I/O	3 x RS-232 1 x RS-232/422/485 1 x HDMI 1 x VGA 1 x DisplayPort 4 x USB 3.0 2 x USB 2.0 2 x 10/100/1000 Mbps Ethernet 1 x Audio (Mic-in & Line-out) 1 x PS/2 combo 1 x Remote power switch	3 x RS-232 1 x RS-232/422/485 1 x HDMI 1 x VGA 1 x DisplayPort 4 x USB 3.0 2 x USB 2.0 2 x 10/100/1000 Mbps Ethernet 1 x Audio (Mic-in & Line-out) 1 x PS/2 combo 1 x Remote power switch	3 x RS-232 1 x RS-232/422/485 1 x HDMI 1 x VGA 1 x DisplayPort 4 x USB 3.0 2 x USB 2.0 2 x 10/100/1000 Mbps Ethernet 1 x Audio (Mic-in & Line-out) 1 x PS/2 combo 1 x Remote power switch
Storage	1 x 2.5" SATA HDD	1 x 3.5" or 2 x 2.5" SATA HDD	1 x 3.5" or 2 x 2.5" SATA HDD
DVD-RW	N/A	N/A	N/A
Expansion Interface	1 x PCIe x4 or 1 x PCI	1 x PCIe x4 or 1 x PCI	1 x PCIe x4 or 1 x PCI
Touchscreen	5-wire resistive type	5-wire resistive type	5-wire resistive type
Operation System	Skylake: Windows® 7, Windows® 8.1, Windows® 10 Kaby Lake: Windows® 10	Skylake: Windows® 7, Windows® 8.1, Windows® 10 Kaby Lake: Windows® 10	Skylake: Win 7, Win 8.1, Win 10 Kaby Lake: Win 10
Power Supply	200W, 100 to 240 VAC	200W, 100 to 240 VAC	200W, 100 to 240 VAC
Power Consumption	121W	97.6W	143W
Watchdog Timer	255 levels, 1 to 255 sec	255 levels, 1 to 255 sec	255 levels, 1 to 255 sec
Front Bezel	Aluminum with IP65/NEMA 4 rugged protection	Aluminum with IP65/NEMA 4 rugged protection	Aluminum with IP65/NEMA 4 rugged protection
Dimensions (W x D x H)	314.2 x 105 x 253.7 mm (12.37" x 4.13" x 9.99")	378.3 x 90 x 310.3 mm (14.89" x 3.54" x 12.22")	411.82 x 90 x 353.24 mm (16.21" x 3.54" x 13.91")
Weight (net/gross)	4.2 kg (9.26 lb)/6.3 kg (13.89 lb)	5.4 kg (11.90 lb)/7.8 kg (17.20 lb)	6.4 kg (14.11 lb)/10.2 kg (22.49 lb)
Operating Temperature	0°C to +50°C (+32°F to +122°F)	0°C to +50°C (+32°F to +122°F)	0°C to +50°C (+32°F to +122°F)
Certifications	CE	CE	CE

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Features\Models	P1197E-500
CPU Level	LGA1151 socket 6/7th Gen Intel® Core™ i7/i5/i3, Celeron® & Pentium®
Chipset	Intel® H110
System Memory	2 x 288-pin DDR4-2133 Long-DIMM dual channel, up to 32GB
Display	19" SXGA TFT, 250 nits
I/O	3 x RS-232 1 x RS-232/422/485 1 x HDMI 1 x VGA 1 x DisplayPort 4 x USB 3.0 2 x USB 2.0 2 x 10/100/1000 Mbps Ethernet 1 x Audio (Mic-in & Line-out) 1 x PS/2 combo
Storage	1 x 3.5" or 2 x 2.5" SATA HDD
DVD-RW	1 x Built-in slim type (optional)
Expansion Interface	1 x PCIe x4 or 1 x PCI
Touchscreen	5-wire resistive type
Operation System	Skylake: Windows® 7 、Windows® 8.1 、 Windows® 10 Kaby Lake: Windows® 10
Power Supply	200W, 100 to 240 VAC
Power Consumption	157W
Watchdog Timer	255 levels, 1 to 255 sec.
Front Bezel	Aluminum with IP65/NEMA 4 rugged protection
Dimensions (W x D x H)	378 x 72.2 x 309 mm (14.88" x 2.84" x 12.17")
Weight (net/gross)	8 kg (17.64 lb)/10.4 kg (22.93 lb)
Operating Temperature	0°C to +45°C (+32°F to +113°F)
Certifications	CE

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P1127E-500

12.1" XGA TFT Expandable Industrial Touch Panel Computer with 7th/6th Gen Intel® Core™ i7/i5/i3, Celeron® & Pentium® Processor and PCI/PCIe Slot

Features

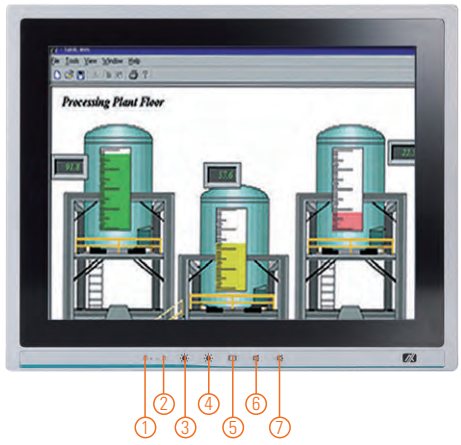
- 12.1" XGA TFT LCD display
- LGA1151 socket 7th/6th gen Intel® Core™ i7/i5/i3, Celeron® & Pentium® processors
- Intel® H110 chipset
- Less screw design for easy installation
- 4 USB 3.0, 2 USB 2.0 and 4 COM
- One PCIe x4 or one PCIe slot
- Built-in speakers and optional Wi-Fi 802.11 b/g/n module
- Robust IP65 compliant aluminum front bezel
- Supports 5 OSD keys on the front panel



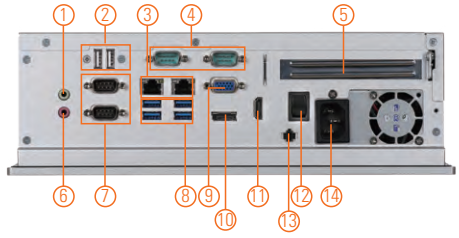
▲ Side view



▲ Back view



1. Display status LED
2. SATA status LED
3. Brightness -
4. Brightness +
5. Display monitor ON/OFF
6. Volume -
7. Volume +



1. 1 x Line-out
2. 2 x USB 2.0
3. 2 x LAN
4. 2 x RS-232
5. PCI or PCIe x4 Card expansion slot
6. 1 x Mic-in
7. 1 x RS-232/422/485 & 1 x RS-232
8. 4 x USB 3.0
9. 1 x VGA
10. 1 x DisplayPort
11. 1 x HDMI
12. Switch for power on/off
13. Remote switch button
14. AC plug



Introduction

The P1127E-500 is a multimedia 12.1" touch panel PC for kiosk application. It has a fashionable mechanism design and industrial-grade material front bezel which can avoid damage from chemical corrosion. To meet the demands of multimedia application, the P1127E-500 is powered by a high performance LGA1151 socket 7th/6th generation Intel® Core™ processor with the Intel® H110 chipset. It features four COM ports, two Gigabit Ethernet and up to 32GB memory of dual-channel DDR4-2133 that delivers high computing capability for high performance-demanding applications. The industrial touch panel PC is most suitable for kiosk, factory and automation.

Expandable for 1 PCIe or 1 PCI
The P1127E-500 has one PCIe x4 or one PCI slot for expansion purpose. User can easily plug in standard half-size PCI or PCIe card based on any application needs.

Speaker and WLAN Antenna Supported
The P1127E-500 features built-in speakers for kiosk application to display multimedia content program. It also supports WLAN module antenna (optional) for wireless network connectivity.

Friendly Less Screw Design
The P1127E-500 is designed with easy of maintenance in mind. There are only three screws on the back chassis, so that technicians can quickly remove the system's back cover with minimum effort.

Specifications

Front Bezel	Aluminum w/ IP65/NEMA 4 rugged protection	
LCD Panel	Display Type	12.1" XGA TFT LCD
	Brightness	500 nits
	Resolution	1024 x 768 pixels
	Viewing Angle	160°/140°
Main System	CPU	LGA1151 socket 7th/6th gen Intel® Core™ i7/i5/i3, Celeron® & Pentium® processor
	Chipset	Intel® H110
	System Memory	2 x 288-pin DDR4-2133 Long-DIMM, up to 32GB
	BIOS	AMI UEFI BIOS
	Storage	1 x 2.5" SATA HDD (9.5 mm height)
	Drive	N/A
	Watchdog Timer	255 levels, 1 to 255 sec.

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Specifications

IO Connector	3 x RS-232 1 x RS-232/422/485 1 x HDMI 1 x VGA 1 x DisplayPort 4 x USB 3.0 2 x USB 2.0 2 x 10/100/1000 Mbps Ethernet (Intel® i219-LM/i211-AT) 1 x Audio (Mic-in & Line-out) 1 x Remote Power Switch
TPM	N/A
Expansion Interface	1 x PCIe x4 or 1 x PCI
Touchscreen	5-wire resistive type Light transmission 79% 1 million activations (typical) at a single point
Power Supply	100 to 240 VAC, 200W
Power Consumption	121W
Dimensions	314.2 mm (12.37") (W) x 105 mm (4.13") (D) x 253.7 mm (9.99") (H)
Packing Dimensions	510 mm (20.08") (W) x 190 mm (7.48") (D) x 540 mm (21.26") (H)
Weight(net/gross)	4.2 kg (9.26 lb)/6.3 kg (13.89 lb)
Operating temperature	0°C to +50°C (+32°F to +122°F)
Relative humidity	10% to 90% @ +40°C, non-considering
Operating vibration	1.0G, 5 - 500 Hz, random
Certifications	CE

Packing list

1 x P1127E-500
1 x Driver CD
1 x Panel mount kit
1 x US power cord

Ordering Information

P1127E-500 with PCIe	12.1" XGA expandable industrial touch panel computer with LGA1151 socket 7th/6th gen Intel® Core™ i7/i5/i3, Pentium® & Celeron® processor, resistive touch screen, PCIe x4 slot and 100 to 240 VAC
P1127E-500 with PCI	12.1" XGA expandable industrial touch panel computer with LGA1151 socket 7th/6th gen Intel® Core™ i7/i5/i3, Pentium® & Celeron® processor, resistive touch screen, PCI slot and 100 to 240 VAC

*Specifications and certifications may vary based on different requirements.

Optional Accessories

Wi-Fi kit	
82211270280E	P1127E-500 VESA & wall mount kit
E981604011	ATC10 (VESA arm clamp type)
E981604012	ATW10 (VESA arm wall mount)
E226171119	PPC S1702B black stand (S)
59403200B00E	Remote power switch cable (100 cm)
TBD	P1127E-500 rack mount kit

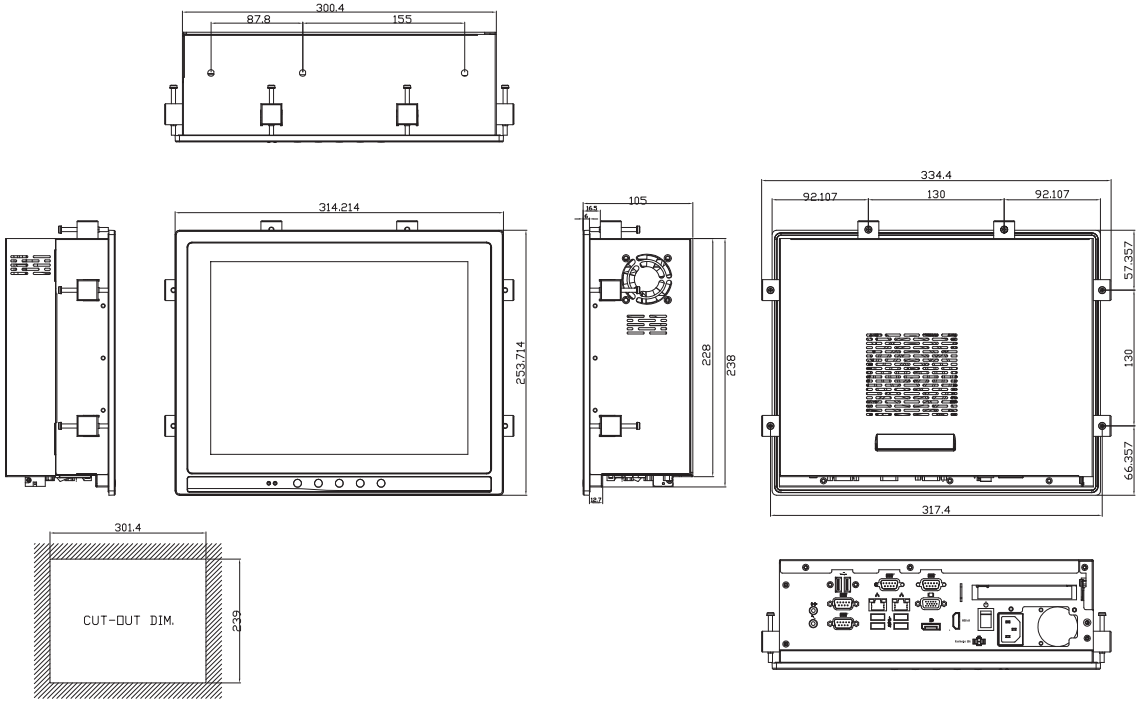
Optional EOS Installation

Windows® 7
Windows® 8.1
Windows® 10 IoT Enterprise

Optional OS Installation

Skylake: Windows® 7 Windows® 8.1 Windows® 10
Kaby Lake: Windows® 10

Dimensions



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P1157E-500

15" XGA TFT Expandable Industrial Touch Panel Computer with 7th/6th Gen Intel® Core™ i7/i5/i3, Celeron® & Pentium® Processor and PCI/PCIe Slot

Features

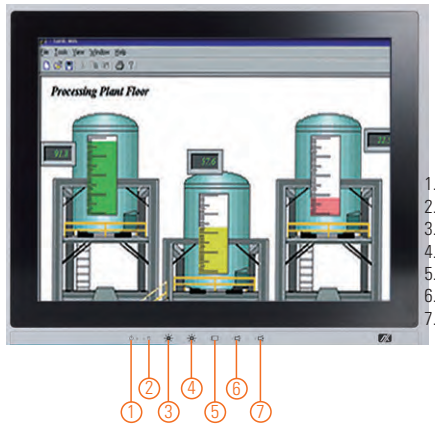
- 15" XGA TFT LCD display
- LGA1151 socket 7th/6th gen Intel® Core™ i7/i5/i3, Celeron® & Pentium® processors
- Intel® H110 chipset
- Less screw design for easy installation
- 4 USB 3.0, 2 USB 2.0 and 4 COM
- One PCIe x4 or one PCIe slot
- Built-in speakers and optional Wi-Fi 802.11 b/g/n module
- Robust IP65 compliant aluminum front bezel
- Supports 5 OSD keys on the front panel



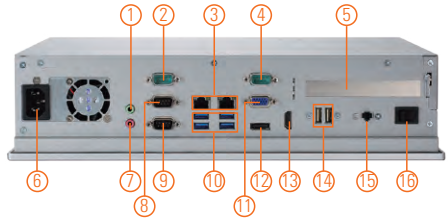
▲ Side view



▲ Back view



1. Display status LED
2. SATA status LED
3. Brightness -
4. Brightness +
5. Display monitor ON/OFF
6. Volume -
7. Volume +



1. 1 x Line-out
2. 1 x RS-232
3. 2 x LAN
4. 1 x RS-232
5. PCI or PCIe x4 expansion slot
6. AC plug
7. 1 x Mic-in
8. 1 x RS-232/422/485
9. 1 x RS-232
10. 4 x USB 3.0
11. 1 x VGA
12. 1 x DisplayPort
13. 1 x HDMI
14. 2 x USB 2.0
15. Remote power switch
16. Switch for power on/off



Introduction

The P1157E-500 is a multimedia 15" touch panel PC for kiosk application. It has a fashionable mechanism design and industrial-grade material front bezel which can avoid damage from chemical corrosion. To meet the demands of multimedia application, the P1157E-500 is powered by a high performance LGA1151 socket 7th/6th generation Intel® Core™ processor with the Intel® H110 chipset. It features four COM ports, two Gigabit Ethernet and up to 32GB memory of dual-channel DDR4-2133 that delivers high computing capability for high performance-demanding applications. The industrial touch panel PC is most suitable for kiosk, factory and automation.

Expandable for 1 PCIe or 1 PCI
The P1157E-500 has one PCIe x4 or PCI slot for expansion purpose. User can easily plug in standard half-size PCI or PCIe card based on any application needs.

Speaker and WLAN Antenna Supported
The P1157E-500 features built-in speakers for kiosk application to display multimedia content program. It also supports WLAN module antenna (optional) for wireless network connectivity.

Friendly Less Screw Design
The P1157E-500 is designed with easy of maintenance in mind. There are only four screws on the back chassis, so that technicians can quickly remove the system's back cover with minimum effort.

Specifications

Front Bezel	Aluminum w/ IP65/NEMA 4 rugged protection	
LCD Panel	Display Type	15" XGA TFT LCD
	Brightness	250 nits
	Resolution	1024 x 768 pixels
	Viewing Angle	160°/140°
Main System	CPU	LGA1151 socket 7th/6th gen Intel® Core™ i7/i5/i3, Celeron® & Pentium® processor
	Chipset	Intel® H110
	System Memory	2 x 288-pin DDR4-2133 Long-DIMM, up to 32GB
	BIOS	AMI UEFI BIOS
	Storage	1 x 3.5" or 1 x 2.5" SATA HDD (9.5 mm height)
	Drive	N/A
	Watchdog Timer	255 levels, 1 to 255 sec.

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Specifications

IO Connector	3 x RS-232 1 x RS-232/422/485 1 x HDMI 1 x VGA 1 x DisplayPort 4 x USB 3.0 2 x USB 2.0 2 x 10/100/1000 Mbps Ethernet (Intel® i219-LM/i211-AT) 1 x Audio (Mic-in & Line-out) 1 x Remote power switch
TPM	N/A
Expansion Interface	1 x PCIe x4 or 1 x PCI
Touchscreen	5-wire resistive type or projected capacitive multi-touch
Power Supply	100 to 240 VAC, 200W
Power Consumption	97.6W
Dimensions	378.3 mm (14.89") (W) x 90 mm (3.54") (D) x 310.3 mm (12.22") (H)
Packing Dimensions	510 mm (20.08") (W) x 186 mm (7.32") (D) x 532 mm (20.94") (H)
Weight (net/gross)	5.4 kg (11.90 lb)/7.8 kg (17.20 lb)
Operating temperature	0°C to +50°C (+32°F to +122°F)
Relative humidity	10% to 90% @ +40°C, non-considering
Operating vibration	1.0G, 5 - 500 Hz, random
Certifications	CE

Packing list

1 x P1157E-500
1 x Driver CD
1 x Panel mount kit
1 x US power cord

Ordering Information

P1157E-500 w/PCIe	15" XGA expandable industrial touch panel computer with LGA1151 socket 7th/6th gen Intel® Core™ i7/i5/i3, Pentium® & Celeron® processor, resistive touch screen, PCIe x4 slot and 100 to 240 VAC
P1157E-500 w/PCI	15" XGA expandable industrial touch panel computer with LGA1151 socket 7th/6th gen Intel® Core™ i7/i5/i3, Pentium® & Celeron® processor, resistive touch screen, PCI slot and 100 to 240 VAC
P1157E-500-PCT w/PCIe	15" XGA expandable industrial touch panel computer with LGA1151 socket 7th/6th gen Intel® Core™ i7/i5i/i3, Pentium® & Celeron® processor, PCAP multi-touch screen, PCIe x4 slot and 100 to 240VAC
P1157E-500-PCT w/PCI	15" XGA expandable industrial touch panel computer with LGA1151 socket 7th/6th gen Intel® Core™ i7/i5i/i3, Pentium® & Celeron® processor, PCAP multi-touch screen, PCI slot and 100 to 240VAC

*Specifications and certifications may vary based on different requirements.

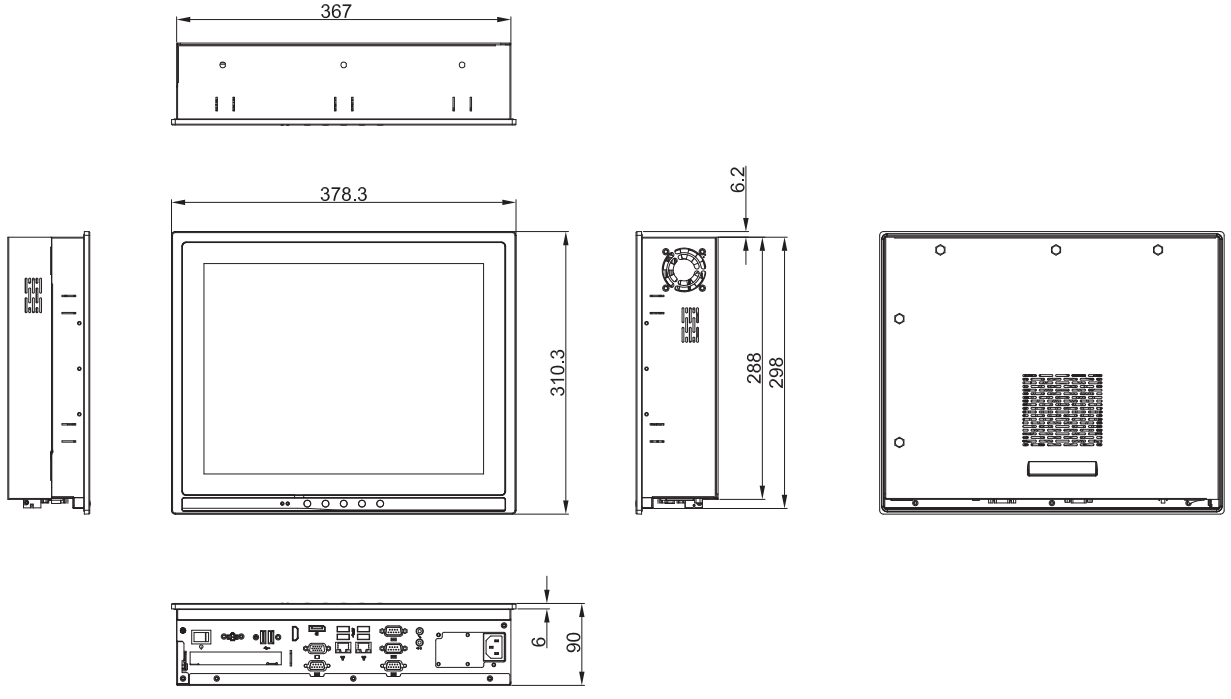
Optional Accessories

Wi-Fi kit	
82211570380E	P1157E-500 2.5" slim HDD kit
82211570410E	P1157E-500 rack mount kit
82211570420E	P1157E-500 VESA & wall mount bracket
E981604011	ATC10 (VESA arm clamp type)
E981604012	ATW10 (VESA arm wall mount)
E226171119	PPC S1702B black stand (S)
59403200B00E	Remote power switch cable (100 cm)
82211570410E	P1157E-500 rack mount

Optional OS Installation

Skylake: Windows® 7 Windows® 8.1 Windows® 10
Kaby Lake: Windows® 10

Dimensions



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P1177E-500

17" SXGA TFT Expandable Industrial Touch Panel Computer with 7th/6th Gen Intel® Core™ i7/i5/i3, Celeron® & Pentium® Processor and PCI/PCIe Slot

Features

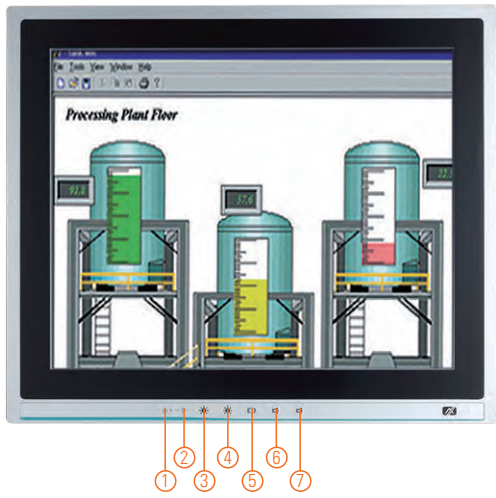
- 17" SXGA TFT LCD display
- LGA1151 socket 7th/6th gen Intel® Core™ i7/i5/i3, Celeron® & Pentium® processors
- Intel® H110 chipset
- Less screw design for easy installation
- 4 USB 3.0, 2 USB 2.0 and 4 COM
- One PCIe x4 or one PCIe slot
- Built-in speakers and optional Wi-Fi 802.11 b/g/n module
- Robust IP65 compliant aluminum front bezel
- Supports 5 OSD keys on the front panel



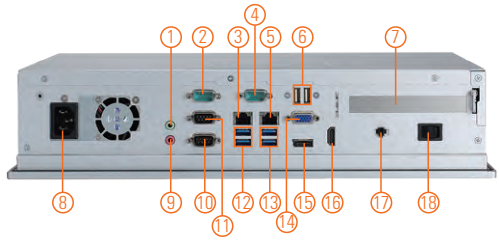
▲ Side view



▲ Back view



1. Display status LED
2. SATA status LED
3. Brightness -
4. Brightness +
5. Display monitor ON/OFF
6. Volume -
7. Volume +



1. 1 x Line-out
2. 1 x RS-232
3. 1 x LAN
4. 1 x RS-232
5. 1 x LAN
6. 2 x USB 2.0
7. PCI or PCIe x4 Card expansion slot
8. AC plug
9. 1 x Mic-in
10. 1 x RS-232
11. 1 x RS-232/422/485
12. 2 x USB 3.0
13. 2 x USB 3.0
14. 1 x VGA
15. 1 x DisplayPort
16. 1 x HDMI
17. Remote switch button
18. Switch for power on/off



Introduction

The P1177E-500 is a multimedia 17" touch panel PC for kiosk application. It has a fashionable mechanism design and industrial-grade material front bezel which can avoid damage from chemical corrosion. To meet the demands of multimedia application, the P1177E-500 is powered by a high performance LGA1151 socket 7th/6th generation Intel® Core™ processor with the Intel® H110 chipset. It features four COM ports, two Gigabit Ethernet and up to 32GB memory of dual-channel DDR4-2133 that delivers high computing capability for high performance-demanding applications. The industrial touch panel PC is most suitable for kiosk, factory and automation.

Expandable for 1 PCIe or 1 PCI

The P1177E-500 has one PCIe x4 or one PCI slot for expansion purpose. User can easily plug in standard half-size PCI or PCIe card based on any application needs.

Speaker and WLAN Antenna Supported

The P1177E-500 is equipped with built-in speakers for multimedia applications. It also supports WLAN module antenna (optional) for wireless network connectivity.

Friendly Less Screw Design

The P1177E-500 is designed with easy of maintenance in mind. There are only four screws on the back chassis, so that technicians can quickly remove the system's back cover with minimum effort.

Specifications

Front Bezel	Aluminum w/ IP65/NEMA 4 rugged protection	
LCD Panel	Display Type	17" SXGA TFT LCD
	Brightness	250 nits
	Resolution	1280 x 1024 pixels
	Viewing Angle	160°/140°
Main System	CPU	LGA1151 socket 7th/6th gen Intel® Core™ i7/i5/i3, Celeron® & Pentium® processor
	Chipset	Intel® H110
	System Memory	2 x 288-pin DDR4-2133 Long-DIMM, up to 32GB
	BIOS	AMI UEFI BIOS
	Storage	1 x 3.5" or 1 x 2.5" SATA HDD (9.5 mm height) 2 x 2.5" SATA HDD (9.5 mm height) (optional)
	Drive	N/A
	Watchdog Timer	255 levels, 1 to 255 sec.

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Specifications

IO Connector	3 x RS-232 1 x RS-232/422/485 1 x HDMI 1 x VGA 1 x DisplayPort 4 x USB 3.0 2 x USB 2.0 2 x 10/100/1000 Mbps Ethernet (Intel® i219-LM/i211-AT) 1 x Audio (Mic-in & Line-out) 1 x Remote power switch
TPM	N/A
Expansion Interface	1 x PCIe x4 or 1 x PCI
Touchscreen	5-wire resistive type Light transmission 79% 1 million activations (typical) at a single point
Power Supply	100 to 240 VAC, 200W
Power Consumption	143W
Dimensions	411.82 mm (16.21") (W) x 90 mm (3.54") (D) x 353.24 mm (13.91") (H)
Packing Dimensions	610 mm (24.02") (W) x 260 mm (10.24") (D) x 590 mm (23.23") (H)
Weight (net/gross)	6.4 kg (14.11 lb)/10.2 kg (22.49 lb)
Operating temperature	0°C to +50°C (+32°F to +122°F)
Relative humidity	10% to 90% @ +40°C, non-considering
Operating vibration	1.0G, 5 - 500 Hz, random
Certifications	CE

Packing list

1 x P1177E-500
1 x Driver CD
1 x Panel mount kit
1 x US power cord

Ordering Information

P1177E-500 with PCIe	17" SXGA expandable industrial touch panel computer with LGA1151 socket 7th/6th gen Intel® Core™ i7/i5/i3, Pentium® & Celeron® processor, resistive touch screen, PCIe x4 slot and 100 to 240 VAC
P1177E-500 with PCI	17" SXGA expandable industrial touch panel computer with LGA1151 socket 7th/6th gen Intel® Core™ i7/i5/i3, Pentium® & Celeron® processor, resistive touch screen, PCI slot and 100 to 240 VAC

*Specifications and certifications may vary based on different requirements.

Optional Accessories

Wi-Fi kit	
82211570380E	P1157E-500 2.5" slim HDD kit supports 15"/17" touch panel PC
82211770360E	P1177E-500 VESA & wall mount bracket
E981604011	ATC10 (VESA arm clamp type)
E981604012	ATW10 (VESA arm wall mount)
E221177116	PPC HA741L black stand (L)
59403200B00E	Remote power switch cable (100 cm)
82211770380E	P1177E-500 rack mount kit

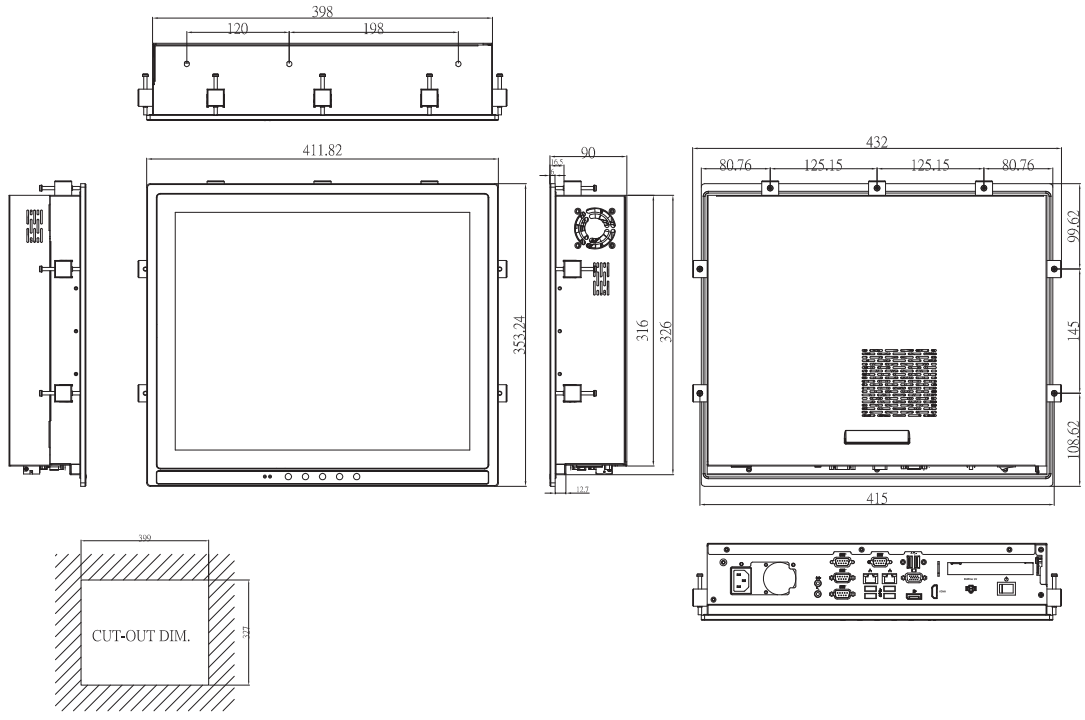
Optional EOS Installation

Windows® 7
Windows® 8.1
Windows® 10 IoT Enterprise

Optional OS Installation

Skylake: Windows® 7 Windows® 8.1 Windows® 10
Kaby Lake: Windows® 10

Dimensions



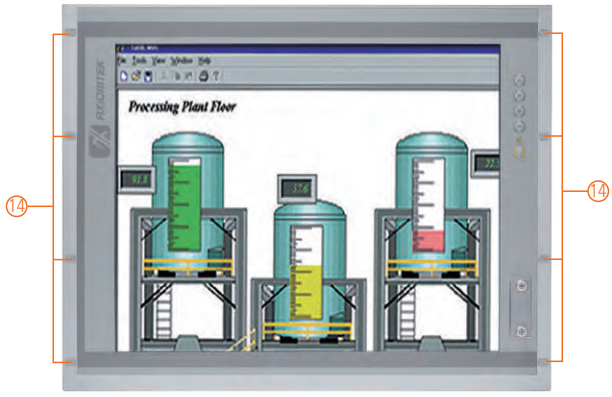
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P1197E-500

19" SXGA TFT Expandable Industrial Touch Panel Computer with 7th/6th Gen Intel® Core™ i7/i5/i3, Celeron® & Pentium® Processor, PCI/PCIe Slot

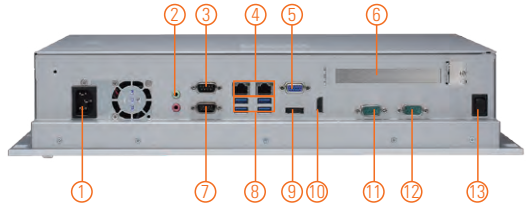
Features

- 19" SXGA TFT LCD display
- LGA1151 socket 7th/6th gen Intel® Core™ i7/i5/i3, Celeron® & Pentium® processor
- Intel® H110 chipset
- Less screw design for easy installation
- 4 USB 3.0, 2 USB 2.0 and 4 COM
- One PCIe x4 or one PCIe expansion slots
- Built-in speakers and optional Wi-Fi 802.11 b/g/n module
- Robust aluminum with IP65 compliant front bezel design





▲ Optional ODD Drive



1. AC plug
2. Audio (Mic-in/Line-out)
3. 1 x RS-232/422/485
4. 2 x LAN
5. VGA
6. PCIe x4 or PCI
7. 1 x RS-232
8. 4 x USB 3.0
9. 1 x DisplayPort
10. 1 x HDMI
11. 1 x RS-232
12. 1 x RS-232
13. Power switch
14. Rack mount hole

DDR4 IP65 DualView

Introduction

The P1197E-500 is a multimedia 19" touch panel PC for kiosk application. It has a fashionable mechanism design and industrial-grade material front bezel which can avoid damage from chemical corrosion. To meet the demands of multimedia application, the P1197E-500 is powered by a high performance LGA1151 socket 7th/6th generation Intel® Core™ processor with the Intel® H110 chipset. It features four COM ports, two Gigabit Ethernet and up to 32GB memory of dual-channel DDR4-2133 that delivers high computing capability for high performance-demanding applications. The industrial touch panel PC is most suitable for kiosk, factory and automation.

Expandable for 1 PCIe or 1 PCI
The P1197E-500 has one PCIe x4 or one PCI slot for expansion purpose. User can easily plug in standard half-size PCI or PCIe card based on any application needs.

Speaker and WLAN Antenna Supported
The P1197E-500 is equipped with built-in speakers for multimedia applications. It also supports WLAN module antenna (optional) for wireless network connectivity.

Friendly Less Screw Design
The P1197E-500 is designed with ease of maintenance in mind. There are only three screws on the back chassis, so that technicians can quickly remove the system's back cover with minimum effort.

Specifications

Front Bezel	Aluminum w/ IP65/NEMA 4 rugged protection	
LCD Panel	Display Type	19" SXGA TFT LCD
	Brightness	250 nits
	Resolution	1280 x 1024 pixels
	Viewing Angle	170°/160°
Main System	CPU	LGA1151 socket 7th/6th gen Intel® Core™ i7/i5/i3, Celeron® & Pentium® processor
	Chipset	Intel® H110
	System Memory	2 x 288-pin DDR4-2133 Long-DIMM, up to 32GB
	BIOS	AMI UEFI BIOS
	Storage	1 x 3.5" or 1 x SATA HDD (9.5 mm height)
	Drive	1 x Built-in slim DVD-RW (optional)
	Watchdog Timer	255 levels, 1 to 255 sec.

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Specifications

IO Connector	3 x RS-232 1 x RS-232/422/485 1 x HDMI 1 x VGA 1 x DisplayPort 4 x USB 3.0 2 x USB 2.0 2 x 10/100/1000 Mbps Ethernet (Intel® i219-LM/i211-AT) 1 x Audio (Mic-in & Line-out)
TPM	N/A
Expansion Interface	1 x PCIe x4 or 1 x PCI
Touchscreen	5-wire resistive type Light transmission 79% 1 million activations (typical) at a single point
Power Supply	100 to 240 VAC, 200W
Power Consumption	157W
Dimensions	482 mm (18.98") (W) x 94.7 mm (3.73") (D) x 380.8 mm (14.99") (H)
Packing Dimensions	615 mm (24.21") (W) x 250 mm (9.84") (D) x 585 mm (23.03") (H)
Weight(net/gross)	8 kg (17.64 lb)/10.4 kg (22.93 lb)
Operating temperature	0°C to +45°C (+32°F to +113°F)
Relative humidity	10% to 90% @ +40°C, non-considering
Operating vibration	1.0G, 5 - 500 Hz, random
Certifications	CE

Packing list

1 x P1197E-500
1 x Driver CD
1 x Panel mount kit
1 x US power cord

Ordering Information

P1197E-500 with PCIe	19" SXGA expandable industrial touch panel computer with LGA1151 socket 7th/6th gen Intel® Core™ i7/i5/i3, Pentium® & Celeron® processor, resistive touch screen, PCIe x4 slot and 100 to 240 VAC
P1197E-500 with PCI	19" SXGA expandable industrial touch panel computer with LGA1151 socket 7th/6th gen Intel® Core™ i7/i5/i3, Pentium® & Celeron® processor, resistive touch screen, PCI slot and 100 to 240 VAC

*Specifications and certifications may vary based on different requirements.

Optional Accessories

Wi-Fi kit	
82211970070E	VESA & wall mount kit
E981604011	ATC10 (VESA arm clamp type)
E981604012	ATW10 (VESA arm wall mount)
E221177116	PPC HA741L black stand (L)

Optional EOS Installation

Windows® 10 IoT Enterprise

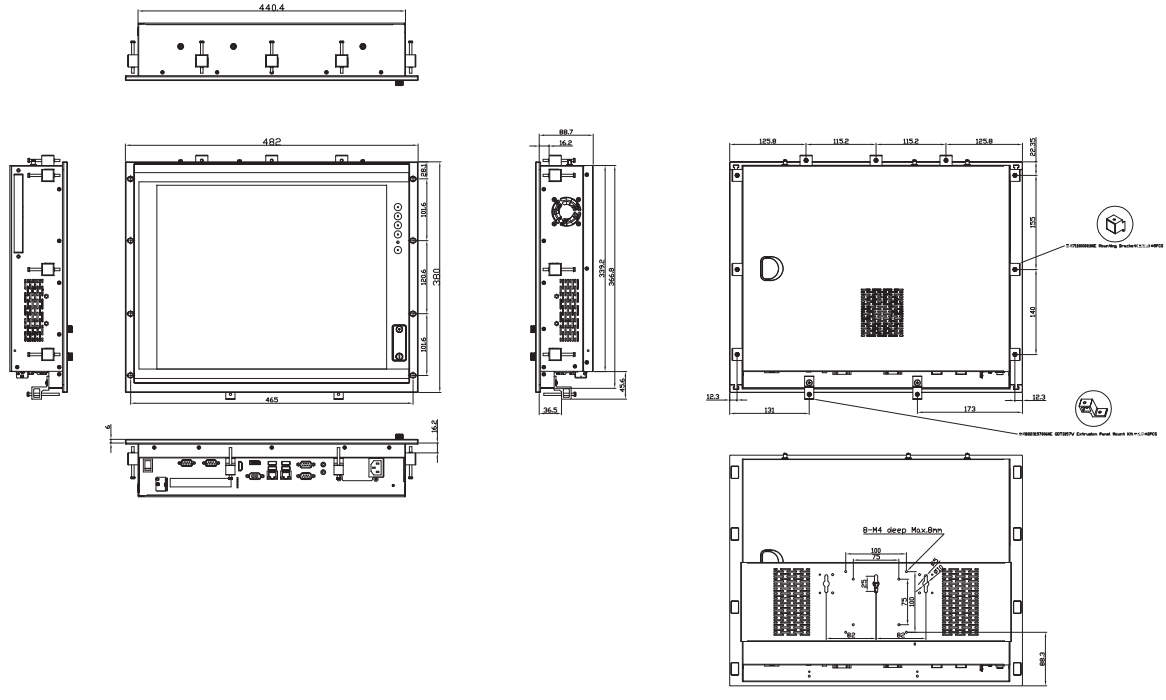
Optional OS Installation

Windows® 10



▲ Less screw design

Dimensions



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Fanless Touch Panel Computers

Heavy-duty Fanless Touch Panel Computers

Stainless Touch Panel Computers

Transportation Touch Panel Computers and Monitors

Industrial Touch Panel Computers

Industrial Touch Monitors

Medical Panel Computers

Open Frame Panel Computer

Industrial Panel PCs

6 Industrial Touch Monitors

The P6000 product series offers flexible options of resistive or projective capacitive touch screens for ease and practicality of use. The P6000 products are ideal solutions for use in industrial automation and control systems, building automation, machinery manufacturing environments, self-service kiosks, and other HMI applications.

Selection Guide		371
P6157W-V2	15.6" WXGA TFT Widescreen Industrial LCD Monitor	373
P6171-V2	17" SXGA TFT Industrial LCD Monitor	375
P6187W-V2	18.5" WXGA TFT Widescreen Industrial LCD Monitor	377
P6217W	21.5" FHD TFT Widescreen Industrial LCD Monitor	379

Industrial Touch Monitors

Selection Guide







Features\Models	P6157W-V2	P6171-V2	P6187W-V2
Front Bezel	Flat, NEMA 4/12 (IP65)-compliant	metal, NEMA 4/12 (IP65)-compliant	Flat, NEMA 4/12 (IP65)-compliant
Display Type	15.6" WXGA TFT	17" SXGA TFT	18.5" WXGA TFT
Max. Colors	16.7M	16.2M	16.7M
Active Area (mm)	344.232 x 193.536	337.920 x 270.336	409.8 x 230.4
Max. Resolution	1366 x 768	1280 x 1024	1366 x 768
Display Mode	VGA 640 x 480 (60/72/75 Hz) SVGA 800 x 600 (56/60/75 Hz) XGA 1024 x 768 (60/70/75 Hz) SXGA 1280 x 1024 (60/70/75 Hz) WXGA 1366 x 768 (60 Hz)	VGA 640 x 350 (70 Hz) VGA 640 x 480 (60/72/75 Hz) VGA 720 x 400 (70 Hz) SVGA 800 x 600 (60/72/75 Hz) XGA 1024 x 768 (60/72/75 Hz) SXGA 1280 x 1024 (60/72/75 Hz)	VGA 640 x 350 (70 Hz) VGA 720 x 400 (70 Hz) VGA 640 x 480 (60/72/75 Hz) SVGA 800 x 600 (60/72/75 Hz) XGA 1024 x 768 (60/70/75 Hz) WXGA 1366 x 768 (60 Hz)
Pixel Pitch (H x V, mm)	0.252 x 0.252	0.264 x 0.264	0.3 x 0.3
Backlight	LED	LED	LED
Backlight MTBF (hrs)	50,000	30,000	50,000
Viewing Angle (H/V)	170°/160°	170°/160°	170°/160°
Response Time	8ms	5ms	5ms
Contrast Ratio	500 (TYP)	1000 (TYP)	1000 (TYP)
Brightness (cd/m^2)	400 nits	250 nits	450 nits
Display Control	OSD	OSD	OSD
I/O Connectors	1 x DC power input 1 x RS-232 or USB for touch 1 x VGA 1 x HDMI 1 x DVI-D 1 x Line-in	1 x DC power input 1 x RS-232 or USB for touch 1 x VGA 1 x HDMI 1 x DVI-D 1 x Line-in	1 x DC power input 1 x RS-232 or USB for touch 1 x VGA 1 x HDMI 1 x DVI-D 1 x Line-in
Touchscreen	Capacitive type 10-point projected capacitive multi-touch	Resistive type	Capacitive multi-touch
Power Consumption	19W	24W	22W
Power Adapter	Screw-type external AC/DC power adapter	Screw-type external AC/DC power adapter	Screw-type external AC/DC power adapter
Dimensions (W x D x H)	397 x 247 x 54 mm (15.63" x 9.72" x 2.13")	410.31 x 28 x 38.31 mm (16.15" x 1.10" x 13.32")	460 x 57 x 285 mm (18.11" x 2.44" x 11.22")
Weight (net/gross)	4.5 kg (9.92 lb)/6.5 kg (14.33 lb)	3.8 kg (8.38 lb)/6.56 kg (14.46 lb)	6.0 kg (12.22 lb)/7.35 kg (16.20 lb)
Operating Temperature	0°C to +55°C (+32°F to +131°F)	0°C to +45°C (+32°F to +113°F)	0°C to +55°C (+32°F to +131°F)
Mounting	Panel mount/wall mount/ VESA mount	Panel mount/wall mount/rackmount/ VESA mount	Panel mount/wall mount/VESA arm
Certifications	CE	CE	CE

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Features\Models	P6217W
Front Bezel	Flat, NEMA 4/12 (IP65)-compliant
Display Type	21.5" FHD TFT
Max. Colors	16.7M
Active Area (mm)	476.64 x 268.11
Max. Resolution	1920 x 1080
Display Mode	VGA 640 x 350 (70 Hz) VGA 720 x 400 (70 Hz) VGA 640 x 480 (60/72/75 Hz) SVGA 800 x 600 (60/72/75 Hz) XGA 1024 x 768 (60/70/75 Hz) WXGA 1366 x 768 (60 Hz) FHD 1920 x 1080 (60 Hz)
Pixel Pitch (H x V, mm)	0.24 x 0.24
Backlight	LED
Backlight MTBF (hrs)	50,000
Viewing Angle (H/V)	178°/178°
Response Time	18ms
Contrast Ratio	3000 (TYP)
Brightness (cd/m²)	250 nits
Display Control	OSD
I/O Connectors	1 x DC power input 1 x RS-232 or USB for touch 1 x VGA 1 x HDMI 1 x DVI-D 1 x Line-in
Touchscreen	Capacitive type 10-point projected capacitive multi-touch
Power Consumption	20W
Power Adapter	Screw-type external AC/DC power adapter
Dimensions (W x D x H)	547.59 x 53 x 339.05 mm (21.56" x 2.09" x 13.34")
Weight (net/gross)	6.42 kg (14.15 lb)/7.78 kg (17.15 lb)
Operating Temperature	0°C to +45°C (+32°F to +113°F)
Mounting	Panel mount/wall mount/VESA arm
Certifications	CE

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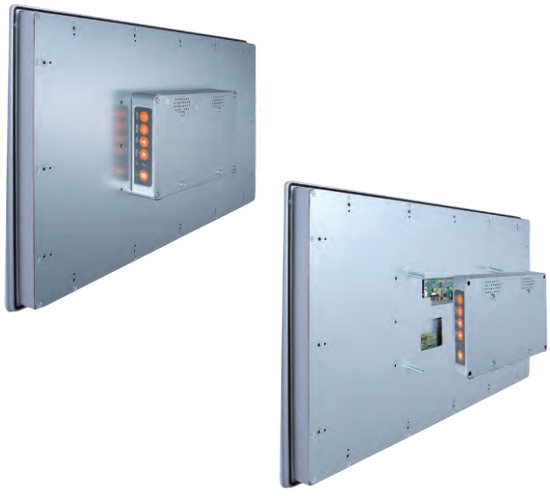
P6157W-V2

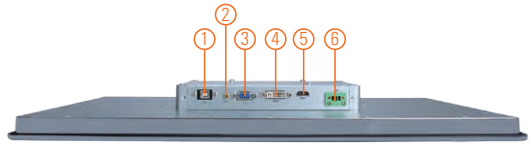
15.6" WXGA TFT Widescreen Industrial LCD Monitor

Features

- 15.6" WXGA TFT 400 nits LCD with projective capacitive multi-touch
- NEMA 4/12 (IP65) compliant flat panel monitor
- Supports panel mount, wall mount and VESA mount
- Full range screw-type (locked) AC-in or 24V DC-in (optional)
- VGA, HDMI and DVI with multi-signal inputs







1. USB for touchscreen
2. Line-in
3. VGA
4. DVI
5. HDMI
6. Screw type or Phoenix type power input

Introduction

The P6157W-V2 is a slim-type industrial LCD monitor with flat front bezel design, which adopts 15.6-inch 300 nits full HD LCD display and supports multi-signal interfaces including DVI, VGA and HDMI. Featuring IP65 (NEMA 4)-rated front bezel, screw-type adaptor plug design, and 12/24V DC-in , the 15.6-inch P6157W-V2 is designed to fit for all kinds of industrial environments. Moreover, the P6157W-V2 supports panel mount, wall mount or VESA FPMPMI (Video Electronics Standards Association Flat Panel Monitor Physical Mounting Interface) mounting. With the compact mechanism design, the P6157W-V2 can be deployed easily in any space-limited place. It is especially suitable for POI/POS, HMI and all kinds of heavy-duty industrial fields.

Specifications

Front Bezel	NEMA 4/12 (IP65)-compliant, flat front bezel	
Mounting	Panel mount, wall mount and VESA arm FPMPMI mounting (video electronics standards association Flat Panel monitor physical mounting interface)	
LCD Panel	Display	15.6" WXGA TFT LCD
	Max. Resolution	1366 x 768
	Max. Colors	16.7 M
	Active Area (mm)	344.232 x 193.536
	Pixel Pitch (mm)	0.252 x 0.252
	Response Time	8 ms
	Backlight	LED
	Backlight MTBF	50,000 hrs
	Viewing Angle (H/V)	170°/160°
	Contrast Ratio	500 (TYP.)
	Brightness (cd/m^2)	400 nits
Display Control	OSD (on screen display)	
Display Mode	VGA 640 x 350 (70 Hz), VGA 640 x 480 (60/72/75 Hz), VGA 720 x 400 (70 Hz), SVGA 800 x 600 (60/72/75 Hz), XGA 1024 x 768 (60/72/75 Hz), WXGA 1366 x 768 (60 Hz)	
Input Signal	VGA HDMI DVI (only for DVI-D) Touchscreen: USB interface	

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Specifications

I/O Connectors	1 x USB for touchscreen version 1 x Audio (Line-in) 1 x VGA 1 x HDMI 1 x DVI 1 x Screw type or Phoenix type power input
Power Adapter	Screw-type external AC/DC power adapter
Power Consumption	16W
Touchscreen	Multi-touch projective capacitive (optional)
Dimensions	396.8mm (15.62") (W) x 247.1mm (9.73") (D) x 54mm (2.13") (H)
Packing Dimensions	505 mm (19.88") (W) x 166 mm (6.53") (D) x 440 mm (17.32") (H)
Weight (net/gross)	3.9 kg (8.598 lb)/5.88 kg (12.963 lb)
Operating temperature	0°C to +50°C (+32°F to +131°F)
Relative humidity	20% to 90% @ +40°C, non-condensing
Certifications	CE

Packing List

1 x P6157W-V2 unit
1 x VGA cable
1 x USB cable or RS-232 cable (for resistive touch version only)
1 x Audio cable
1 x Driver CD

Ordering Information

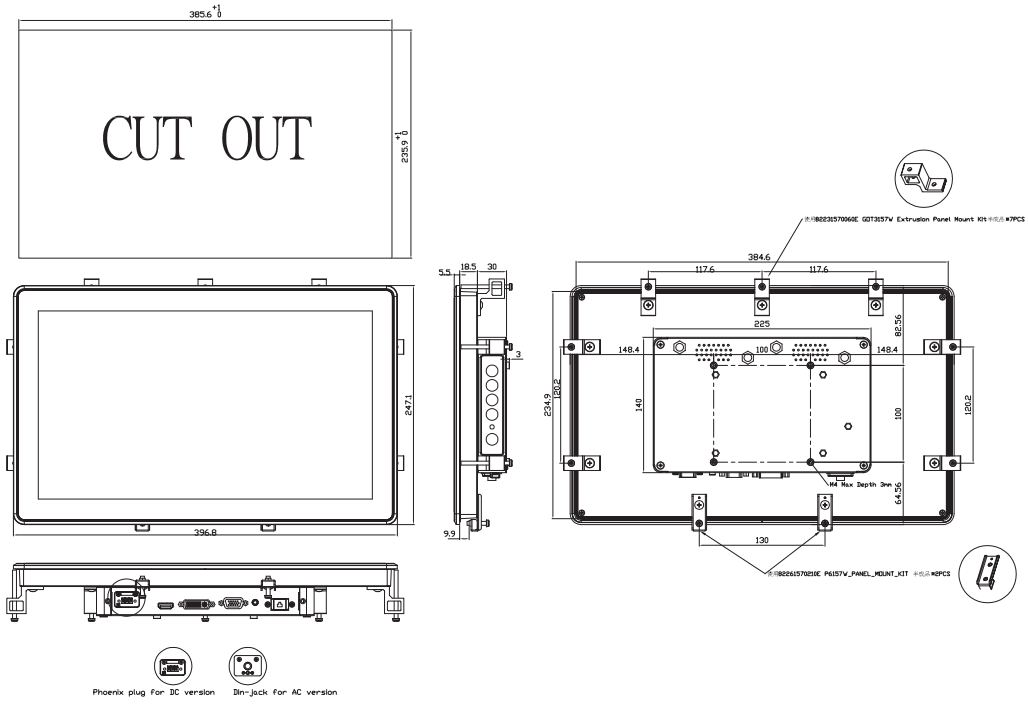
P6157W-V2		
AC Power	Panel mount monitor	
	Capacitive (USB)	P6157WPC-AC-U-US-EU-V2
24VDC Power	Panel mount monitor	
	Capacitive (USB)	P6157WPC-24VDC-U-V2

Optional Accessories

5946L203800E	HDMI cable
59461713400E	DVI cable
82261570240E	Panel mount kit
82231770050E	Wall mount kit
E221177116	Desktop stand for 15.6" to 21.5"

*Specifications and certifications may vary based on different requirements.

Dimensions



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P6171-V2

17" SXGA TFT Industrial LCD Monitor

Features

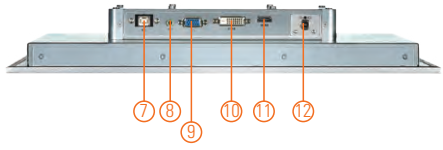
- 17" SXGA TFT LED backlight LCD
- NEMA 4/12 (IP65) compliant flat panel monitor
- Supports panel mount, wall mount, rack mount and VESA arm
- Resistive touchscreen
- Full range screw-type (locked) AC-in or 12V/24V DC-in (option)
- HDMI, DVI-D and VGA with multi signal inputs



▲ Ultra-slim mechanism design



1. Menu
2. SEL+
3. SEL-
4. Exit
5. Power LED
6. Power switch



7. RS-232 or USB for Touch
8. Line-in
9. VGA
10. DVI-D
11. HDMI
12. Screw type or Phoenix type power input

Introduction

The P6171 is an ultra slim industrial LCD monitor, which adopts 17-inch 250 nits SXGA LED backlight LCD display and supports multi-signal interfaces including DVI, DisplayPort and HDMI. Featuring NEMA 4/12 & IP65 compliant front bezel, screw-type adaptor plug design, and 12/24V DC-in means it is fit for all kinds of industrial environments. Moreover, the P6171 supports panel mount, wall mount, rack mount or VESA FPMPMI (Video Electronics Standards Association Flat Panel Monitor Physical Mounting Interface) mounting. With the compact mechanism design, users can enjoy free from space constraint. It is especially suitable for POI/POS, excellent HMI and all kinds of heavy-duty industrial fields.

Specifications

Front Bezel	NEMA 4/12 (IP65)-compliant, metal front bezel	
Mounting	Panel mount, wall mount, rackmount or VESA arm FPMPMI mounting (video electronics standards association Flat Panel monitor physical mounting interface)	
LCD Panel	Display	17" SXGA TFT LCD
	Max. Resolution	1280 x 1024
	Max. Colors	16.2 M
	Active Area (mm)	337.92 x 270.33
	Pixel Pitch (mm)	0.264 x 0.264
	Response Time	5ms
	Backlight	LED backlight
	Backlight MTBF	30,000 hrs
	Viewing Angle (H/V)	170°/160°
	Contrast Ratio	1000 (TYP.)
	Brightness (cd/m^2)	250 nits
Display Control	OSD (on screen display)	
Display Mode	VGA 640 x 350 (70Hz), VGA 640 x 480 (60/72/75Hz), VGA 720 x 400 (70Hz), SVGA 800 x 600 (60/72/75Hz), XGA 1024 x 768 (60/72/75Hz), SXGA 1280 x 1024 (60/72/75Hz)	
Input Signal	DVI-D VGA HDMI Touchscreen: Serial RS-232 or USB interface	

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Specifications

I/O Connectors	1 x RS-232 or USB for touchscreen version 1 x DVI-D 1 x VGA 1 x HDMI 1 x Screw-type DC power input	
Power Adapter	Screw-type external AC/DC power adapter	
Power Consumption	24W	
Touchscreen	Thickness	Resistive: 3.2 mm
	Light Transmission	Resistive: 80%
	Power Consumption	Resistive: +5V @ 100mA
	Touch Life	Resistive: 35 million touches Controller Interface: RS-232 D-type 9-pin male connector or USB
Dimensions	410.31 mm (16.15") (L) x 58 mm (2.28") (H) x 338.31 mm (13.32") (W)	
Packing Dimensions	510 mm (20.08") (L) x 532 mm (20.94") (H) x 186 mm (7.32") (W)	
Weight (net/gross)	3.8 kg (8.38 lb)/6.56 kg (14.46 lb)	
Operating Temperature	0°C to +45°C (+32°F to +113°F)	
Relative Humidity	20% to 90% @ +40°C, non-condensing	
Certifications	CE	

Packing List

1 x P6171 unit
1 x VGA cable
1 x USB cable or RS-232 cable (for resistive touch version only)
1 x Adaptor (for AC version only)
1 x Audio cable
1 x Driver CD

Ordering Information

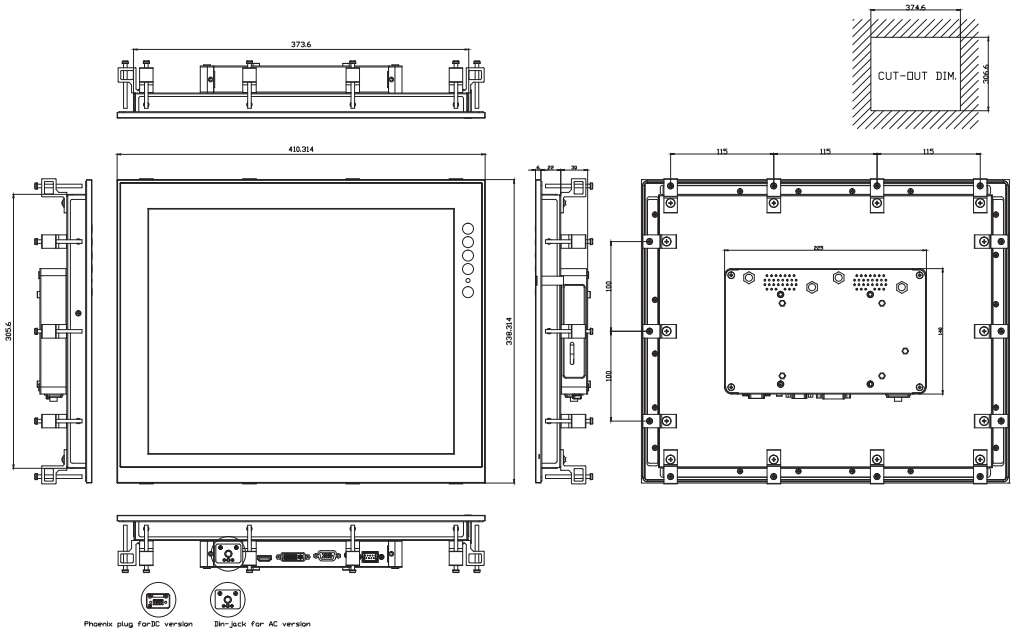
AC Power	Resistive (RS-232)	P6171PR-AC-RS-US-EU-V2
	Resistive (USB)	P6171PR-AC-U-US-EU-V2
12V/24VDC Power	Resistive (USB)	P6171PR-24VDC-U-V2
	Glass	P6171PG-24VDC-V2

Optional Accessories

5946L203800E	HDMI cable
59461713400E	DVI cable
82231770050E	Wall mount kit
82261710120E	Panel mount kit
82261710170E	Rack mount kit
E221177116	Desktop stand for 15.6" to 21.5"

*Specifications and certifications may vary based on different requirements.

Dimensions



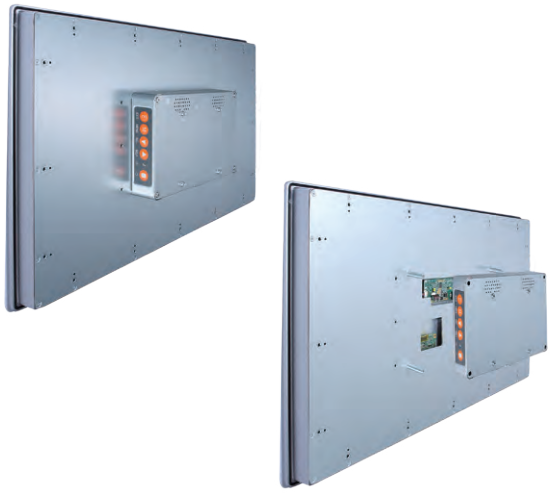
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P6187W-V2

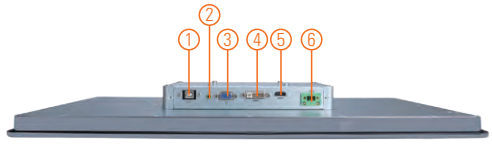
18.5" WXGA TFT Widescreen Industrial LCD Monitor

Features

- 18.5" WXGA TFT 450 nits LCD with projective capacitive multi-touch
- NEMA 4/12 (IP65) compliant flat panel monitor
- Supports panel mount, wall mount and VESA mount
- Full range screw-type (locked) AC-in or 24V DC-in (optional)
- VGA, HDMI and DVI with multi-signal inputs







1. USB for touchscreen
2. Line-in
3. VGA
4. DVI
5. HDMI
6. Screw type or Phoenix type power input

Introduction

The P6187W-V2 is a slim-type industrial LCD monitor with flat front bezel design, which adopts 18.5-inch 300 nits full HD LCD display and supports multi-signal interfaces including DVI, VGA and HDMI. Featuring IP65 (NEMA 4)-rated front bezel, screw-type adaptor plug design, and 12/24V DC-in , the 18.5-inch P6187W-V2 is designed to fit for all kinds of industrial environments. Moreover, the P6187W-V2 supports panel mount, wall mount or VESA FPMPMI (Video Electronics Standards Association Flat Panel Monitor Physical Mounting Interface) mounting. With the compact mechanism design, the P6187W-V2 can be deployed easily in any space-limited place. It is especially suitable for POI/POS, HMI and all kinds of heavy-duty industrial fields.

Specifications

Front Bezel	NEMA 4/12 (IP65)-compliant, flat front bezel	
Mounting	Panel mount, wall mount and VESA arm FPMPMI mounting (video electronics standards association Flat Panel monitor physical mounting interface)	
LCD Panel	Display	18.5" WXGA TFT LCD
	Max. Resolution	1366 x 768
	Max. Colors	16.7 M
	Active Area (mm)	409.8 x 230.4
	Pixel Pitch (mm)	0.3 x 0.3
	Response Time	5 ms
	Backlight	LED
	Backlight MTBF	50,000 hrs
	Viewing Angle (H/V)	170°/160°
	Contrast Ratio	1000 (TYP.)
	Brightness (cd/m^2)	450 nits
Display Control	OSD (on screen display)	
Display Mode	VGA 640 x 350 (70 Hz), VGA 640 x 480 (60/72/75 Hz), VGA 720 x 400 (70 Hz), SVGA 800 x 600 (60/72/75 Hz), XGA 1024 x 768 (60/72/75 Hz), WXGA 1366 x 768 (60 Hz)	
Input Signal	VGA HDMI DVI (only for DVI-D) Touchscreen: USB interface	

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Specifications

I/O Connectors	1 x USB for touchscreen version 1 x Audio (Line-in) 1 x VGA 1 x HDMI 1 x DVI 1 x Screw type or Phoenix type power input
Power Adapter	Screw-type external AC/DC power adapter
Power Consumption	16W
Touchscreen	Multi-touch projective capacitive (optional)
Dimensions	460 mm(18.11") (W) x 285 mm (11.22") (D) x 58.45 mm (2.30") (H)
Packing Dimensions	575 mm (22.63") (W) x 170 mm (6.69") (D) x 460 mm (18.11") (H)
Weight (net/gross)	4.83 kg (10.63 lb)/6.33 kg (13.93 lb)
Operating Temperature	0°C to +55°C (+32°F to +131°F)
Relative Humidity	20% to 90% @ +40°C, non-condensing
Certifications	CE

Packing List

1 x P6187W-V2 unit
1 x VGA cable
1 x USB cable or RS-232 cable (for resistive touch version only)
1 x Audio cable
1 x Driver CD

Ordering Information

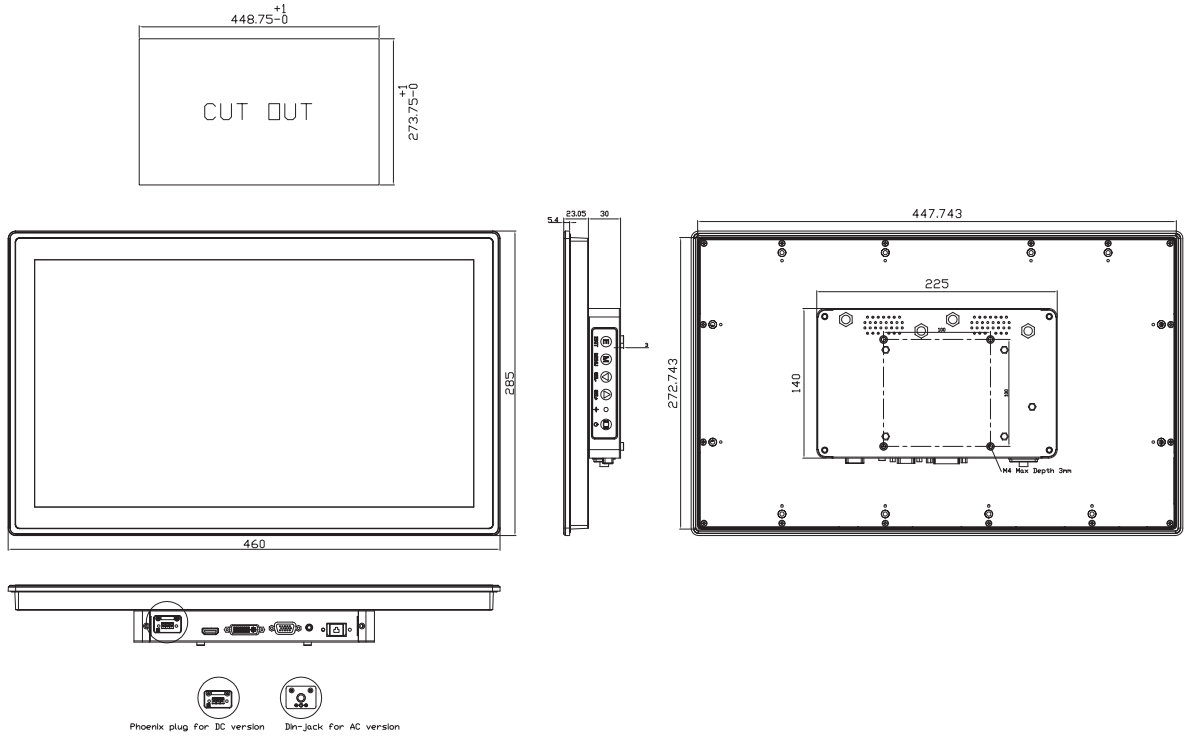
P6187W-V2		
AC Power	Panel mount monitor	
	Capacitive (USB)	P6187WPC-AC-U-US-EU-V2
24VDC Power	Panel mount monitor	
	Capacitive (USB)	P6187WPC-24VDC-U-V2
	Glass	P6187WPG-24VDC-V2

Optional Accessories

5946L203800E	HDMI cable
59461713400E	DVI cable
82261870070E	Panel mount kit
82231770050E	Wall mount kit
E221177116	Desktop stand for 15.6" to 21.5"

*Specifications and certifications may vary based on different requirements.

Dimensions



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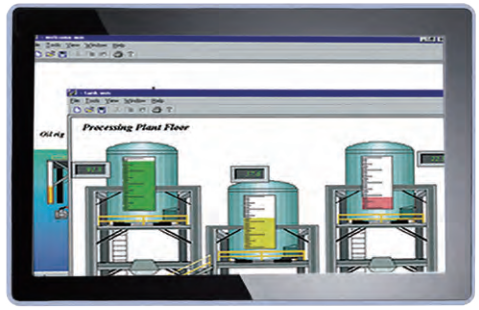
P6217W

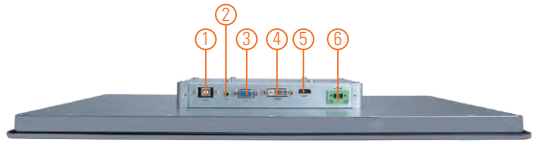
21.5" FHD TFT Widescreen Industrial LCD Monitor

Features

- 21.5" FHD TFT 250 nits LCD with projective capacitive multi-touch
- NEMA 4/12 (IP65) compliant flat panel monitor
- Supports panel mount, wall mount and VESA mount
- Full range screw-type (locked) AC-in or 24V DC-in (optional)
- VGA, HDMI and DVI with multi-signal inputs







1. USB for touchscreen
2. Line-in
3. VGA
4. DVI
5. HDMI
6. Screw type or Phoenix type power input

Introduction

The P6217W is a slim-type industrial LCD monitor with flat front bezel design, which adopts 21.5-inch 250 nits full HD LCD display and supports multi-signal interfaces including DVI, VGA, S-Video, Video. Featuring IP65 (NEMA 4)-rated front bezel, screw-type adaptor plug design, and 12/24V DC-in , the 21.5-inch P6217W is designed to fit for all kinds of industrial environments. Moreover, the P6217W supports panel mount, wall mount or VESA FPMPMI (Video Electronics Standards Association Flat Panel Monitor Physical Mounting Interface) mounting. With the compact mechanism design, the P6217W can be deployed easily in any space-limited place. It is especially suitable for POI/POS, HMI and all kinds of heavy-duty industrial fields.

Specifications

Front Bezel	NEMA 4/12 (IP65)-compliant, flat front bezel	
Mounting	Panel mount, wall mount and VESA arm FPMPMI mounting (video electronics standards association Flat Panel monitor physical mounting interface)	
LCD Panel	Display	21.5" FHD TFT LCD
	Max. Resolution	1920 x 1080
	Max. Colors	16.7 M
	Active Area (mm)	476.64 x 268.11
	Pixel Pitch (mm)	0.24 × 0.24
	Response Time	18 ms
	Backlight	LED
	Backlight MTBF	50,000 hrs
	Viewing Angle (H/V)	178°/178°
	Contrast Ratio	3000 (TYP.)
	Brightness (cd/m^2)	250 nits
Display Control	OSD (on screen display)	
Display Mode	VGA 640 x 350 (70 Hz), VGA 640 x 480 (60/72/75 Hz), VGA 720 x 400 (70 Hz), SVGA 800 x 600 (60/72/75 Hz), XGA 1024 x 768 (60/72/75 Hz), WXGA 1366 x 768 (60 Hz), FHD 1920 x 1080 (60 Hz)	
Input Signal	VGA HDMI DVI (only for DVI-D) Touchscreen: USB interface	

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Specifications

I/O Connectors	1 x USB for touchscreen version 1 x Audio (Line-in) 1 x VGA 1 x HDMI 1 x DVI 1 x Screw type or Phoenix type power input
Power Adapter	Screw-type external AC/DC power adapter
Power Consumption	20W
Touchscreen	Multi-touch projective capacitive (optional)
Dimensions	547.59 mm (21.56") (W) x 339.05 mm (13.34") (D) x 53 mm (2.09") (H)
Packing Dimensions	700 mm (27.56") (W) x 185 mm (7.28") (D) x 510 mm (20.07") (H)
Weight (net/gross)	6.42 kg (14.15 lb)/7.78 kg (17.15 lb)
Operating Temperature	0°C to +45°C (+32°F to +113°F)
Relative Humidity	20% to 90% @ +40°C, non-condensing
Certifications	CE

Packing List

1 x P6217W unit
1 x VGA cable
1 x USB cable or RS-232 cable (for resistive touch version only)
1 x Audio cable
1 x Driver CD

Ordering Information

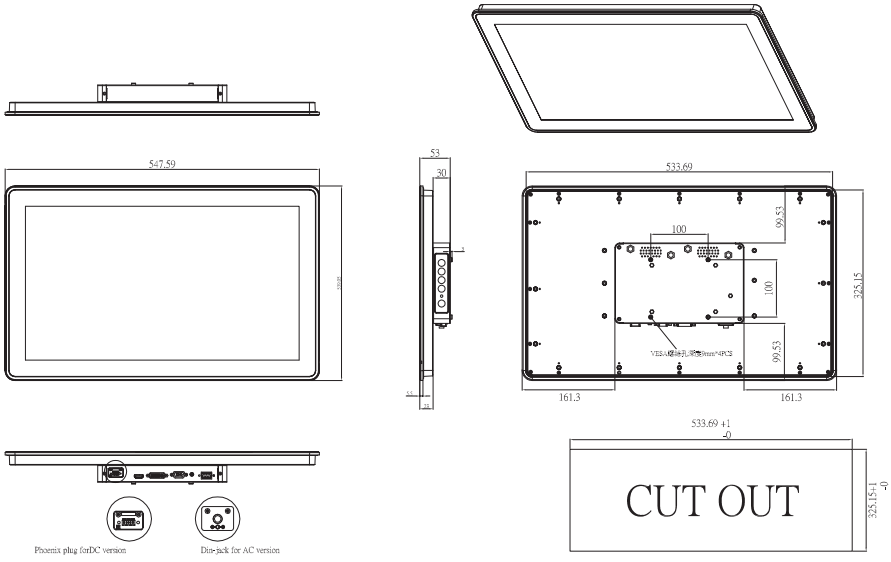
P6217W		
AC Power	Panel mount monitor	
	Capacitive (USB)	P6217WPC-AC-U-US-EU
	Glass	P6217WPG-AC-US-EU
24VDC Power	Panel mount monitor	
	Capacitive (USB)	P6217WPC-24VDC-U
	Glass	P6217WPG-24VDC

Optional Accessories

5946L203800E	HDMI cable
59461713400E	DVI cable
82262170000E	Panel mount kit
82231770050E	Wall mount kit
E221177116	Desktop stand for 15.6" to 21.5"

*Specifications and certifications may vary based on different requirements.

Dimensions



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Fanless Touch Panel Computers

Heavy-duty Fanless Touch Panel Computers

Stainless Touch Panel Computers

Transportation Touch Panel Computers and Monitors

Industrial Touch Panel Computers

Industrial Touch Monitors

Medical Panel Computers

Open Frame Panel Computer

Industrial Panel PCs

7 Medical Panel Computers

The MPC products are specifically designed for medical image processing and medical measuring instruments. The MPC product line is EN 60601-1, CE and FCC class B certified to ensure operational safety in the challenging healthcare environment adopts an IP65-rated front bezel and IPX1-rated enclosure for system protection against dust/liquid spillage.

Selection Guide		383
MPC103-845	10.1" WXGA TFT Fanless Medical Grade Touch Panel Computer with Intel® Celeron® Processor N3060	385
MPC102-845	10.4" XGA TFT Fanless Medical Grade Touch Panel Computer with Intel® Celeron® Processor N3060	387
MPC152-845	15" XGA TFT Fanless Medical Grade Touch Panel Computer with Intel® Celeron® Processor N3060	389
MPC153-834	15.6" WXGA TFT Fanless Medical Grade Touch Panel Computer with Intel® Celeron® Processor J1900	391
MPC240	24" FHD TFT Medical Grade Panel Computer with 4th Gen Intel® Core™ i7/i5/i3, Celeron® & Pentium® Mobile Processor	393

Medical Panel Computers

Selection Guide







Features\Models	MPC103-845	MPC102-845	MPC152-845
CPU Level	Intel® Celeron® N3060 (up to 2.48 GHz)	Intel® Celeron® N3060 (up to 2.48 GHz)	Intel® Celeron® N3060 (up to 2.48 GHz)
Chipset	SoC integrated	SoC integrated	SoC integrated
System Memory	1 x 204-pin DDR3L-1600 SO-DIMM, up to 8GB	1 x 204-pin DDR3L-1600 SO-DIMM, up to 8GB	1 x 204-pin DDR3L-1600 SO-DIMM, up to 8GB
Display	10.1" WXGA TFT, 350 nits	10.4" SVGA TFT, 350 nits	15" XGA TFT, 420 nits
I/O	1 x RS-232 1 x RS-232/422/485 2 x 10/100/1000 Mbps Ethernet 2 x USB 2.0 2 x USB 3.0 1 x Audio (Line-out) 1 x Switch for power on/off 1 x AT/ATX selectable switch	1 x RS-232 1 x RS-232/422/485 2 x 10/100/1000 Mbps Ethernet 2 x USB 2.0 2 x USB 3.0 1 x Audio (Line-out) 1 x Switch for power on/off 1 x AT/ATX selectable switch	1 x RS-232 1 x RS-232/422/485 2 x 10/100/1000 Mbps Ethernet 2 x USB 2.0 2 x USB 3.0 1 x Audio (Line-out) 1 x Switch for power on/off 1 x AT/ATX selectable switch 1 x 8-bit DIO (programmable, DB9)
Storage	1 x 2.5" half slim SSD (AC type only) 1 x mSATA	1 x 2.5" HDD 1 x mSATA	1 x 2.5" HDD 1 x mSATA
DVD-RW	N/A	N/A	N/A
Expansion Interface	2 x PCI Express Mini Card slot	2 x PCI Express Mini Card slot	2 x PCI Express Mini Card slot
Touchscreen	Projected capacitive multi-touch	5-wire flat Resistive Type	5-wire flat Resistive Type
Power Supply	9 to 36 VDC 100 to 240V, 65W (medical grade power adapter)	9 to 36 VDC 100 to 240V, 65W (medical grade power adapter)	9 to 36 VDC 100 to 240V, 65W (medical grade power adapter)
Watchdog Timer	255 levels, 0 to 255 sec.	255 levels, 0 to 255 sec.	255 levels, 0 to 255 sec.
Dimensions (W x D x H)	260.8 x 38 x 194.1 mm (10.27" x 1.5" x 7.65")	292.5 x 45.8 x 235.8 mm (1.52" x 1.8" x 9.28")	387.9 x 54.6 x 307.7 mm (15.27" x 2.14" x 12.11")
Weight (net/gross)	1.08 kg (2.38 lb)/2.18 kg (4.8 lb)	1.8 kg (3.96 lb)/3 kg (6.61 lb)	3.2 kg (7.05 lb)/5.1 kg (11.24 lb)
Operating Temperature	0° to +40°C (+32°F to +104°F)	0° to +40°C (+32°F to +104°F)	0° to +40°C (+32°F to +104°F)
Certifications	CE, EN 60601-1	CE, EN 60601-1	CE, EN 60601-1

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Features\Models	MPC153-834	MPC240
CPU Level	Intel® Celeron® J1900 (up to 2.42 GHz)	Socket G3 4th gen Intel® Core™ i7/i5/i3 & Celeron®, Pentium® mobile
Chipset	SoC integrated	Intel® HM86
System Memory	1 x 204-pin DDR3L-1066/1333 SO-DIMM, up to 8GB	2 x 204-pin DDR3L-1600 SO-DIMM, up to 16GB
Display	15.6" WXGA TFT, 300 nits	24" FHD TFT, 250 nits
I/O	2 x RS-232/422/485 1 x RS-232/422/485 (with isolated 4KV) 2 x 10/100/1000 Mbps Ethernet 2 x USB 3.0 1 x Audio (Line-out)	4 x USB 3.0 4 x USB 2.0 1 x 10/100/1000 Mbps Ethernet 1 x Audio (Line-out) 1 x Audio (Mic-in) 1 x HDMI 1 x DC-in jack
Storage	1 x Half-slim SSD 1 x CFast™ or mSATA	1 x 2.5" SATA HDD 1 x M.2-2242 SATA SSD
DVD-RW	N/A	1 x Super multi drive (optional)
Expansion Interface	2 x PCI Express Mini Card slot	1 x PCI Express Mini Card slot
Touchscreen	Projected capacitive multi-touch 5-wire flat resistive type	Projected capacitive multi-touch
Power Supply	9 to 36 VDC 100 to 240V, 65W (medical grade power adapter)	100 to 240V, 135W (medical grade power adapter)
Watchdog Timer	255 levels, 0 to 255 sec.	255 levels, 0 to 255 sec.
Dimensions (W x D x H)	394.2 x 57 x 257.2 mm (15.53" x 2.25" x 10.13")	610 x 35.5 x 415 mm (24.01" x 1.40" x 16.34")
Weight (net/gross)	3.0 kg (6.61 lb)/4.5 kg (9.92 lb)	6.2 kg (13.66 lb)/9 kg (19.84 lb)
Operating Temperature	0°C to +40°C (+32°F to +104°F)	5°C to +40°C (+13°F to +104°F)
Certifications	CE, EN 60601-1, FCC classB	CE, EN 60601-1

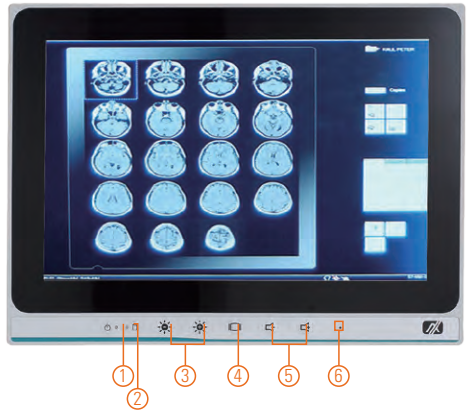
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MPC103-845

10.1" WXGA TFT Fanless Medical Grade Touch Panel Computer with Intel® Celeron® Processor N3060

Features

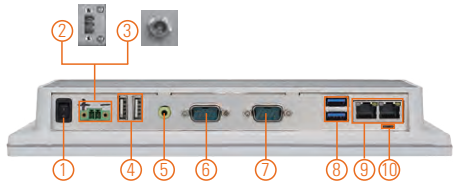
- 10.1" WXGA TFT LCD display with LED backlight
- Fanless design with Intel® Celeron® processor N3060
- 2 GbE LANs, 4 USB and 2 COM
- Plastic and IP65-rated front bezel
- Supports RFID (optional)
- External AT/ATX mode selection switch
- Easy access storage design
- Supports panel mount, wall mount, VESA arm and desktop stand
- Adjustable RS-232/422/485 setting via BIOS
- 4th EN 60601-1 (ESD contact 8kV, air 15kV), CE and FCC



1. Power LED
2. HDD LED
3. Brightness adjust +/-
4. Display on/off
5. Volume adjust
6. Mic-in (optional)



▲ Side view



1. Power switch (ATX)
2. Terminal block for DC power input
3. Screw connector with AC power adapter
4. 2 x USB 2.0
5. Audio (Line-out)
6. 1 x RS-232/422/485
7. 1 x RS-232
8. 2 x USB 3.0
9. 2 x LAN
10. AT/ATX switch



Introduction

The MPC103-845 is a 10.1" fanless medical touch panel computer. It adopts a modern, super sleek and fanless design and has a 10.1" TFT LCD. It is powered by the Intel® Celeron® processor N3060 dual core up to 2.48 GHz. For wireless network connection, the MPC103-845 offers 2 PCI Express Mini Card slots. By just plugging in the WLAN card, customers can have instant access to wireless LAN/GPRS/GSM/4G environments. Besides, it provides two types of power input: DC power with terminal block connector and AC power adapter with screw type connector.

Super Slim & Ultra Lightweight Design
With a thickness of 38 mm and weight of 1.08 kg, the MPC103-845 is designed for use in space-constrained environments.

Certifications
This 10.1-inch medical panel platform complies with 4th version of EN 60601-1 and CE, FCC Class B certifications to ensure medical operation safety.

Aluminum Back Chassis with Excellent Thermal Solution
With Axiomtek's patent for plastic plus aluminum mechanism design, the MPC103-845 can dissipate the heat easily and keep the system operation stable.

Specifications

Front Bezel	IP65, NEMA 4 rugged protection, plastic front bezel	
LCD Panel	Display Type	10.1" WXGA TFT LCD with LED backlight
	Brightness (cd/m^2)	350 nits
	Resolution	1280 x 800
	Viewing Angel (H/V)	170°/170°
Main System	CPU	Intel® Celeron® processor N3060 2 cores (up to 2.48 GHz)
	System Memory	1 x 204-pin DDR3L-1600 SO-DIMM, up to 8GB
	BIOS	AMI UEFI BIOS
	Storage	1 x Half-slim SATA SSD (only for MPC103-845-PCT-J) 1 x mSATA
	Watchdog Timer	255 levels, 0 to 255 sec.
	Onboard Graphics	Integrated in Intel® GFX

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Specifications

I/O Connector	1 x RS-232 1 x RS-232/422/485 (default RS-232) 1 x Switch for power on/off 1 x AT/ATX mode selection switch 2 x USB 2.0 2 x USB 3.0 1 x Audio (Line-out) 2 x 10/100/1000 Mbps Ethernet (Intel® i211-AT)
Expansion Interface	1 x Full-size PCI Express Mini Card slot with mSATA 1 x Full-size PCI Express Mini Card slot with SIM
Touchscreen	Projected capacitive multi-touch
Power Supply	AC version: 100 to 240 VAC-DC, 65W power adapter DC version: 9 to 36 VDC with over current protection fuse
Power Consumption	40.32 W
Dimension	387.9 mm (15.27") (W) x 54.6 mm (2.14") (D) x 307.7 mm (12.11") (H)
Packing Dimensions	510 mm (20.08") (W) x 105 mm (4.13") (D) x 385 mm (15.16") (H)
Weight (net/gross)	1.08 kg (2.38 lb)/2.18 kg (4.8 lb)
Operating Temperature	0°C to +40°C (+32°F to +122°F)
Relative Humidity	20% to 90% @ +40°C; non-condensing
Operation Vibration	2G, 5 - 500Hz, random for SSD
Certifications	4th EN 60601-1 (ESD contact 8KV, air 15KV), CE and FCC

Packing List

1 x MPC103-845
1 x Driver CD
1 x Adapter (MPC103-845-J)
1 x Power cord (MPC103-845-J)
1 x Phoenix connector (MPC103-845 DC)

Ordering Information

Standard	
MPC103-845-J	10.1" WXGA fanless medical touch panel computer with Intel® Celeron® processor N3060, projected capacitive touch screen, AC-DC 65W power adapter (screw type connector) and EMI class B
MPC103-845-DC	10.1" WXGA fanless medical touch panel computer with Intel® Celeron® processor N3060, projected capacitive touch screen and DC power input (terminal block connector)

Optional Accessories

Wi-Fi + Bluetooth kit	
Half slim SATA SSD bracket kit	
82251030080E	GOT5103W-845 half slim SSD kit SFP for GOT5103W-845-PCT-J
881251030A0E	Panel mount kit
881238460A0E	Wall mount kit
881251203A0E	RFID kit
E226171119	Stand Kit

*Specifications and certifications may vary based on different requirements.

Optional EOS Installation

WES 7
WE8S (64-bit)

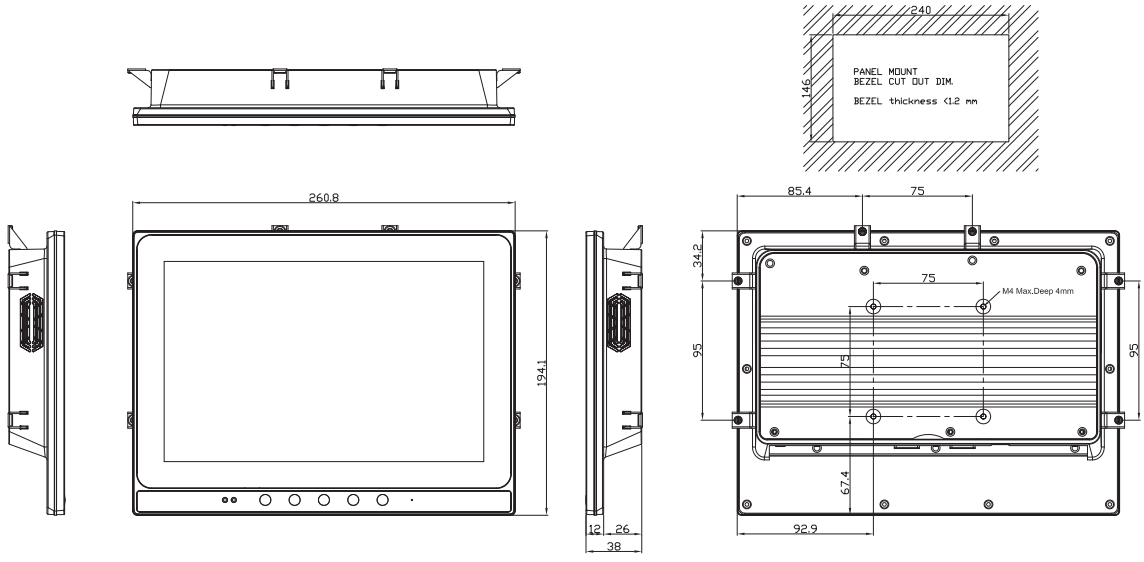
Optional OS Installation

Windows® 7
Windows® 8.1 (64-bit)
Windows® 10



▲ AC power adapter (for MPC103-845-J)

Dimensions



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MPC102-845

10.4" XGA TFT Fanless Medical Grade Touch Panel Computer with Intel® Celeron® Processor N3060

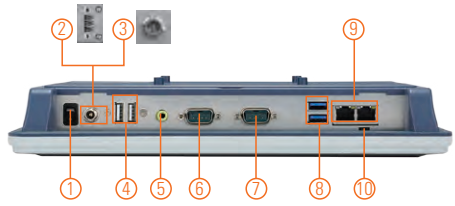
Features

- 10.4" XGA TFT LCD display with LED backlight
- Fanless design with Intel® Celeron® processor N3060
- 2 GbE LANs, 4 USB and 2 COM
- Plastic and IP65-rated front bezel
- Supports RFID (optional)
- External AT/ATX mode selection switch
- Easy access storage design
- Supports panel mount, wall mount, VESA arm and desktop stand
- 4th EN 60601-1 (ESD contact 8kV, air 15kV), CE and FCC certified





▲ Side view



1. Power switch (ATX)
2. Terminal block for DC power input
3. Screw connector with AC power adapter
4. 2 x USB 2.0
5. Audio (Line-out)
6. 1 x RS-232/422/485
7. 1 x RS-232
8. 2 x USB 3.0
9. 2 x LAN
10. AT/ATX selectable switch
11. Touch on/off button



Introduction

The MPC102-845 is a 10.4" fanless medical touch panel computer. In response to market demand, this medical panel computer is a cost effective solution. It adopts a modern, super sleek and fanless design and is powered by the Intel® Celeron® processor N3060 dual core up to 2.48 GHz. For wireless network connection, the MPC102-845 offers 2 PCI Express Mini Card slots. By just plugging in the WLAN card, customers can have instant access to wireless LAN/GPRS/GSM/4G environments. Besides, it provides two types of power input: DC power with terminal block connector and AC power adapter with screw type connector.

Super Slim & Ultra Lightweight Design
With a thickness of 45.8 mm and weight of 1.8 kg, the MPC102-845 is designed for use in space-constrained environments.

Certifications
This 10.4-inch medical panel platform complies with 4th version of EN 60601-1 and CE, FCC Class B certifications to ensure medical operation safety.

Aluminum Back Chassis with Excellent Thermal Solution
With Axiomtek's patent for plastic plus aluminum mechanism design, the MPC102-845 can dissipate the heat easily and keep the system operation stable.

Specifications

Front Bezel	IP65, NEMA 4 rugged protection, plastic front bezel	
LCD Panel	Display Type	10.4" XGA TFT LCD with LED backlight
	Brightness (cd/m^2)	350 nits (XGA)
	Resolution	1024 x 768 (XGA)
	Viewing Angel (H/V)	150°/150°
Main System	CPU	Intel® Celeron® processor N3060 2 cores (up to 2.48 GHz)
	System Memory	1 x 204-pin DDR3L-1600 SO-DIMM, up to 8GB
	BIOS	AMI UEFI BIOS
	Storage	1 x 2.5" SATA HDD (9.5 mm height) 1 x mSATA
	Watchdog Timer	255 levels, 0 to 255 sec.
	Onboard Graphics	Integrated in Intel® GFX

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Specifications

I/O Connector	1 x RS-232 1 x RS-232/422/485 (default RS-232) 1 x Switch for power on/off 1 x AT/ATX mode selection switch 2 x USB 2.0 2 x USB 3.0 1 x Audio (Line-out) 2 x 10/100/1000 Mbps Ethernet (Intel® i211-AT)
Expansion Interface	1 x Full-size PCI Express Mini Card slot with mSATA 1 x Full-size PCI Express Mini Card slot with SIM
Touchscreen	Resistive type
Power Supply	AC version: 100 to 240 V AC-DC, 65W power adapter DC version: 9 to 36 VDC with over current protection fuse
Power Consumption	32W
Dimension	292.5 mm (11.52") (W) x 45.8 mm (1.80") (D) x 235.8 mm (9.28") (H)
Packing Dimensions	415 mm (16.34") (W) x 100 mm (3.94") (D) x 315 mm (12.4") (H)
Weight (net/gross)	1.8 kg (3.96 lb)/3 kg (6.61 lb)
Operating Temperature	0°C to +40°C (+32°F to +122°F)
Relative Humidity	20% to 90% @ +40°C; non-condensing
Operation Vibration	2G, 5 - 500Hz, random for SSD
Certifications	4th EN 60601-1 (ESD contact 8KV, air 15KV), CE and FCC

Packing List

1 x MPC102-845
1 x Driver CD
1 x Adapter (MPC102-845-J)
1 x Power cord (MPC102-845-J)
1 x Phoenix connector (MPC102-845 DC)

Ordering Information

Standard	
MPC102-845-J	10.4" XGA fanless medical touch panel computer with Intel® Celeron® processor N3060, 5-wire resistive touch screen, AC-DC 65W power adapter (screw type connector) and EMI class B

Optional Accessories

Wi-Fi + Bluetooth kit	
881281021A0E	Panel mount kit
881251001A0E	Wall mount kit
E226171119	Stand kit
881251203A0E	RFID kit

*Specifications and certifications may vary based on different requirements.

Optional EOS Installation

WES 7
WE8S (64-bit)

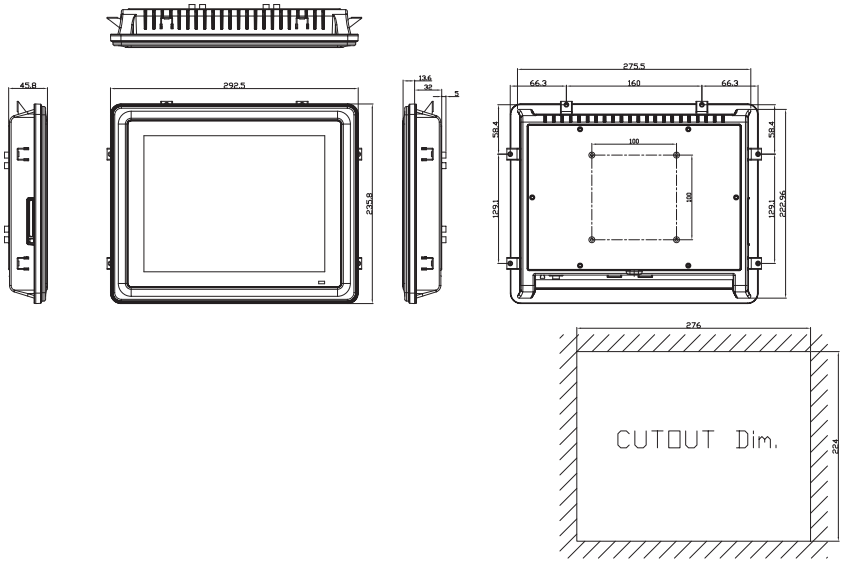
Optional OS Installation

Windows® 7
Windows® 8.1 (64-bit)
Windows® 10



▲ AC power adapter
(for MPC102-845-J)

Dimensions



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MPC152-845

15" XGA TFT Fanless Medical Grade Touch Panel Computer with Intel® Celeron® Processor N3060

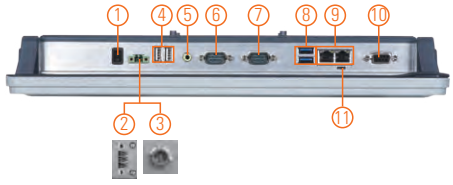
Features

- 15" XGA TFT LCD display with LED backlight
- Fanless design with Intel® Celeron® processor N3060
- 2 GbE LANs, 4 USB and 2 COM
- Plastic and IP65-rated front bezel
- Supports RFID (optional)
- External AT/ATX mode selection switch
- Easy access storage design
- Supports panel mount, wall mount, VESA arm and desktop stand
- Adjustable RS-232/422/485 setting via BIOS
- 4th EN 60601-1 (ESD contact 8kV, air 15kV), CE and FCC





▲ Side view



1. Power switch (ATX)
2. Terminal block for DC power input
3. Screw connector with AC power adapter
4. 2 x USB 2.0
5. 1 x Audio (Line-out)
6. 1 x RS-232/422/485
7. 1 x RS-232
8. 2 x USB 3.0
9. 2 x LAN
10. 8 x DIO (programmable, DB9)
11. AT/ATX selectable switch
12. Touch LED indicator
13. Touch on/off button
14. HDD & Power LED indicator



Introduction

The MPC152-845 is a 15" fanless medical touch panel computer. In response to market demand, this medical panel computer is a cost effective solution. It adopts a modern, super sleek and fanless design and is equipped with a 15" TFT LCD. It is powered by the Intel® Celeron® processor N3060 dual core up to 2.48 GHz. For wireless network connection, the MPC152-845 offers 2 PCI Express Mini Card slots. By just plugging in the mini card WLAN card, customers can have instant access to wireless LAN/GPRS/GSM/4G environments. Besides, it provides two types of power input: DC power with terminal block connector and AC power adapter with screw type connector.

Super Slim & Ultra Lightweight Design

With a thickness of 54.6 mm and weight of 3.2 kg, the MPC152-845 is designed for use in space-constrained environments.

Certifications

This 15-inch medical panel platform complies with 4th version of EN 60601-1 and CE, FCC Class B certifications to ensure medical operation safety.

Aluminum Back Chassis with Excellent Thermal Solution

With Axiomtek's patent for plastic plus aluminum mechanism design, the MPC152-845 can dissipate the heat easily and keep the system operation stable.

Specifications

Front Bezel	IP65, NEMA 4 rugged protection, plastic front bezel	
LCD Panel	Display Type	15" XGA TFT LCD with LED backlight
	Brightness (cd/m^2)	420 nits (XGA)
	Resolution	1024 x 768 (XGA)
	Viewing Angel (H/V)	160°/160°
Main System	CPU	Intel® Celeron® processor N3060 2 cores (up to 2.48 GHz)
	System Memory	1 x 204-pin DDR3L-1600 SO-DIMM, up to 8GB
	BIOS	AMI UEFI BIOS
	Storage	1 x 2.5" SATA HDD (9.5 mm height) 1 x mSATA
	Watchdog Timer	255 levels, 0 to 255 sec.
	Onboard Graphics	Integrated in Intel® GFX

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Specifications

I/O Connector	1 x RS-232 1 x RS-232/422/485 2 x 10/100/1000 Mbps Ethernet 2 x USB 2.0 2 x USB 3.0 1 x Audio (Line-out) 1 x Switch for power on/off 1 x AT/ATX selectable switch 1 x 8-bit DIO (programmable, DB9)
Expansion Interface	1 x Full-size PCI Express Mini Card slot with mSATA 1 x Full-size PCI Express Mini Card slot with SIM
Touchscreen	Resistive type
Power Supply	AC version: 100 to 240 V AC-DC, 65W power adapter DC version: 9 to 36 VDC with over current protection fuse
Power Consumption	32 W
Dimension	387.9 mm (15.27") (W) x 54.6 mm (2.14") (D) x 307.7 mm (12.11") (H)
Packing Dimensions	510 mm (20.08") (W) x 105 mm (4.13") (D) x 385 mm (15.16") (H)
Weight (net/gross)	3.2 kg (7.05 lb)/5.1 kg (11.24 lb)
Operating Temperature	0°C to +40°C (+32°F to +122°F)
Relative Humidity	20% to 90% @ +40°C; non-condensing
Operation Vibration	2G, 5 - 500Hz, random for SSD
Certifications	4th EN 60601-1 (ESD contact 8KV, air 15KV), CE and FCC

Packing List

1 x MPC152-845
1 x Driver CD
1 x Adapter (MPC152-845-J)
1 x Power cord (MPC152-845-J)
1 x Phoenix connector (MPC152-845 DC)

Ordering Information

Standard	
MPC152-845-J	15" XGA fanless medical touch panel computer with Intel® Celeron® processor N3060, 5-wire resistive touch screen, AC-DC 65W power adapter (screw type connector) and EMI class B
MPC152-845-DC	15" XGA fanless medical touch panel computer with Intel® Celeron® processor N3060, 5-wire resistive touch screen and DC power input (terminal block connector)

Optional Accessories

Wi-Fi + Bluetooth kit	
881251520A0E	Panel mount kit
881251521A0E	Wall mount kit
E226171119	Stand kit
881251203A0E	RFID kit

*Specifications and certifications may vary based on different requirements.

Optional EOS Installation

WES 7
WE8S (64-bit)

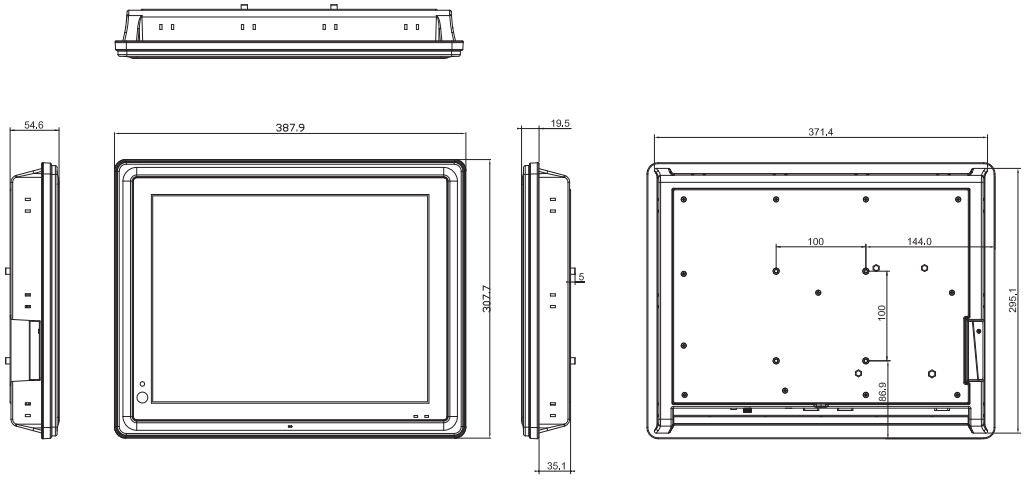
Optional OS Installation

Windows® 7
Windows® 8.1 (64-bit)
Windows® 10



▲ AC power adapter (for MPC152-845-J)

Dimensions



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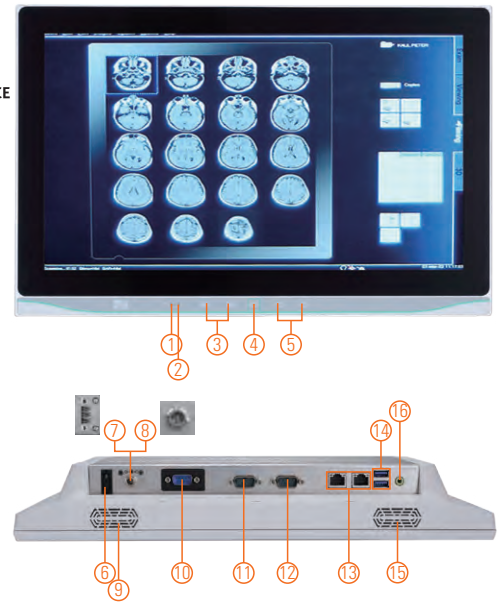
MPC153-834

15.6" WXGA TFT Fanless Medical Grade Touch Panel Computer with Intel® Celeron® Processor J1900

Features

- 15.6" WXGA TFT LCD display with LED backlight
- Projected capacitive touch or 5-wire flat resistive touch for optional
- Fanless design with Intel® Celeron® processor J1900 4 cores (up to 2.42 GHz)
- EN 60601-1/CE/FCC class B certified
- Half-slim SSD & CFast™ or mSATA
- Antimicrobial plastic enclosure
- IP65 front bezel and IPX1 full enclosure design
- Supports wall mount, VESA arm and desktop stand
- Supports smart card reader (optional)

TAIWAN EXCELLENCE 2016



1. Power LED
2. HDD LED
3. Brightness adjust +/-
4. Display on/off
5. Volume adjust
6. Power switch (ATX)
7. Terminal block for DC power input
8. Screw connector with AC power adapter
9. Speaker
10. Isolated COM
11. 1 x RS-232/422/485
12. 1 x RS-232/422/485
13. 2 x LAN
14. 2 x USB 3.0
15. Speaker
16. 1 x Audio (Line-out)



▲ Side view



Smart card reader cover

▲ Rear view

CFast™ cover

Fanless | Low Power | DDR3L | AiRD | IP65 | Isolation

Introduction

The MPC153-834 is a 15.6" fanless medical grade touch panel computer. In response to market demand, this medical touch panel computer is a cost effective solution. It adopts a modern, sleek and fanless design and is powered by the Intel® Celeron® processor J1900 4 cores up to 2.42 GHz (Bay Trail). For wireless network connection, the MPC153-834 offers 2 PCI Express Mini Card slots. By just plugging in a WLAN card, customers can have instant access to wireless LAN/GPRS/GSM/4G environments. Besides, it provides two types of power input: DC power input (9 to 36VDC) with terminal block connector and AC medical power adapter with screw type connector.

Slim & Lightweight Design
The 15.6-inch medical panel PC is slim and lightweight, perfect for limited space installation.

Built-in Internal WLAN Antenna
The MPC153-834 has 2 PCI Express Mini Card slots and a built-in WLAN antenna for wireless network connections. By simply plugging in the wireless LAN card, customers can use the medical computer in wireless LAN/GPRS/GPS/4G environment.

Support Front Membrane Keys
The MPC153-834 has 5 membrane keys on the front panel which allows users to adjust the LCD on/off, LCD brightness and volume setting easily.

Certifications
This 15.6-inch fanless medical panel platform complies with EN 60601-1, CE, FCC Class B certifications to ensure medical operation safety.

Specifications

Front Bezel	IP65 front bezel	
LCD Panel	Display Type	15.6" WXGA TFT LCD display with LED backlight
	Brightness (cd/m^2)	300 nits
	Resolution	1366 x 768
Main System	CPU	Intel® Celeron® processor J1900 4 cores
	System Memory	1 x 204-pin DDR3L-1066/1333 SO-DIMM, up to 8GB
	BIOS	AMI UEFI BIOS
	Storage	1 x Half-slim SSD 1 x CFast™ or mSATA
	Watchdog Timer	255 levels, 0 to 255 sec.
	Onboard Graphics	Integrated Intel® GFX

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Specifications

I/O Connector	2 x RS-232/422/485 (default RS-232) 1 x RS-232 with isolated 4kV 2 x 10/100/1000 Mbps Ethernet (Intel® i210-IT) 2 x USB 3.0 1 x Audio (Line-out)
Expansion Interface	1 x Full-size PCI Express Mini Card with mSATA 1 x Full-size PCI Express Mini Card with SIM
Touchscreen	Projected capacitive multi-touch or 5-wire flat resistive touch
Power Supply	AC version: medical grade 100 to 240 V AC-DC, 60W power adapter DC version: 9 to 36 VDC with terminal block
Dimensions	394.2 mm (15.53") (W) x 57 mm (2.25") (D) x 257.2 mm (10.13") (H)
Packing Dimensions	510 mm (20.09") x 190 mm (7.48") x 540 mm (21.26")
Weight (net/gross)	3.0 kg (6.61 lb)/4.5 kg (9.92 lb)
Operating Temperature	0°C to +40°C (32°F to +104°F, with RAM thermal kit)
Relative Humidity	20% to 90% @ +40°C; non-condensing
Operation Vibration	2G, 10 - 500Hz, random for CFast™
Certifications	CE, FCC class B and EN60601-1

* W.T.: Wide Temperature. All W.T. supported products have to be sorted by Axiomtek.
* The DC power source to be used with MPC153-834 must be galvanically isolated according to IEC60601-1 safety of medical devices!

Packing List

1 x MPC153-834
1 x Driver CD
1 x Adapter (MPC153-834-J)
1 x Power cord (MPC153-834-J)
1 x Phoenix connector (MPC153-834 DC)

Ordering Information

Standard	
MPC153-834-FR-J	15.6" WXGA fanless medical touch panel computer with Intel® Celeron® processor J1900, 5-wire flat resistive touch screen, AC-DC 60 W power adapter (screw type connector), EMI class B and EN 60601-1 certified

Optional Accessories

Wi-Fi + Bluetooth kit
Smart card reader kit

*Specifications and certifications may vary based on different requirements.

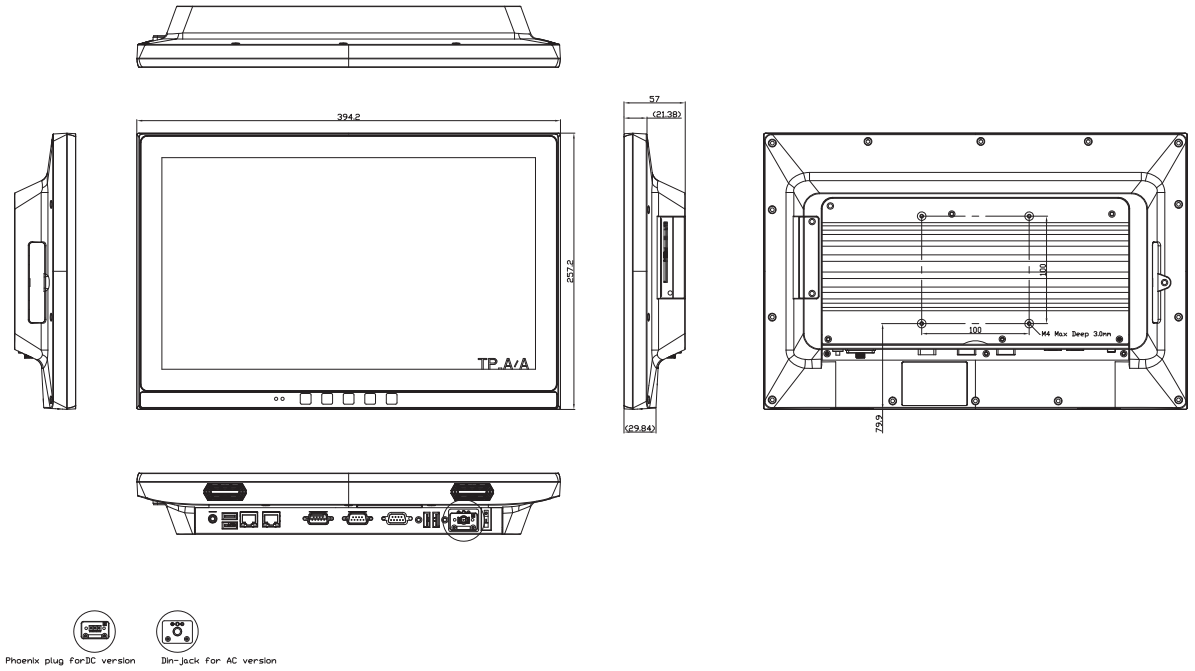
Optional EOS Installation

WES7
WE8S

Optional OS Installation

Windows® 7
Windows® 8.1

Dimensions



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MPC240

24" FHD TFT Medical Grade Panel Computer with 4th Gen Intel® Core™ i7/i5/i3, Celeron® & Pentium® Mobile Processor

Features

- 24" FHD TFT LCD display with LED backlight
- Socket G3 4th gen Intel® Core™ i7/i5/i3, Celeron® & Pentium® mobile processors
- EN 60601-1 and CE certified
- Spill-proof front panel design
- 10-point multi-touch screen
- Antimicrobial enclosure
- Ultra slim and super lightweight design
- Supports wall mount, VESA arm and desktop stand



▲ Side view





1. Camera
2. Optical disc drive
3. Cable tie slot
4. DC-in jack
5. 4 x USB 2.0
6. 4 x USB 3.0
7. 1 x LAN
8. 1 x HDMI
9. Speakers
10. Power button
11. Earphone jack
12. Microphone jack
13. Card reader

EN60601-1 | Low Power | DualView | DDR3L

Introduction

The MPC240 is an 24-inch medical grade touch panel computer which is designed for applications like medical image processing and medical measuring instrument. Especially designed for the medical & healthcare environment, the 10-point touchscreen medical panel PC has spill-proof front panel design which protects the entire system from outside liquid, preventing system from crashing.

Super Slim & Ultra Lightweight Design
With a thickness of 35.5 mm and weight of 6.2 kg, the MPC240 is designed for use in space-constrained environments. Besides, it provides medical grade AC power adapter.

Built-in Internal WLAN
The stylish MPC240 has a PCI Express Mini Card slot and a built-in WLAN antenna for wireless network connections. By simply plugging in the wireless LAN card, customers can use the 24-inch medical computer in a wireless LAN/GPRS/GSM/4G environment.

Certifications
This 24" multi-touch medical panel platform complies with EN 60601 and CE to ensure medical operation safety.

Specifications

Front Bezel	Spill-proof	
LCD Panel	Display Type	24" FHD TFT LCD with LED backlight
	Brightness (cd/m^2)	250 nits
	Resolution	1920 x 1080
Main System	CPU	Socket G3 4th gen Intel® Core™ i7/ i5/i3 & Celeron®, Pentium® mobile processors
	System Memory	2 x 204-pin DDR3L-1600 SO-DIMM, up to 16GB, 8GB for each socket
	BIOS	AMI BIOS
	Storage	1 x 2.5" SATA HDD (9.5 mm height) 1 x M.2-2242 SATA SSD
	Optical Drive	1 x Super multi-drive (optional)
	Watchdog Timer	255 levels, 0 to 255 sec.
	Onboard Graphics	Integrated in Intel® GFX

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Specifications

I/O Connector	4 x USB 3.0 4 x USB 2.0 1 x Audio (Line-out & Mic-in) 1 x 10/100/1000 Mbps Ethernet 1 x DC-in jack 1 x HDMI
Expansion Interface	1 x SDXC card reader slot 1 x PCI Express Mini Card slot for Wi-Fi
Audio	2 x 1.5 KHz speaker/70dB 1 x Microphone
Camera	1 x 2M pixels webcam
Sensor	1 x Proximity sensor
Touch Screen	Projected capacitive multi-touch 10-point
Power Supply	100 to 240 V, 135 W medical grade power adapter Built-in UPS battery (optional)
Dimensions	610 mm (24.01") (W) x 35.5 mm (1.40") (D) x 415 mm (16.34") (H)
Packing Dimensions	780 mm (30.71") (W) x 160 mm (6.30") (D) x 530 mm (20.87") (H)
Weight(net/gross)	6.2 kg (13.66 lb)/9 kg (19.84 lb)
Operating Temperature	+5°C to +40°C (+13°F to +104°F)
Relative Humidity	10% to 90% @ +40°C; non-condensing
Certifications	CE, EN 60601-1

Packing List

1 x MPC240
1 x Driver CD
1 x Adapter
1 x EU power cord

Ordering Information

Standard	
MPC240	24" FHD medical touch panel computer with Intel® Core™ processor, projected capacitive multi-touch screen, AC-DC 135 W medical grade power adapter (screw type connector), EMI class B and EN 60601-1 certified

Optional Accessories

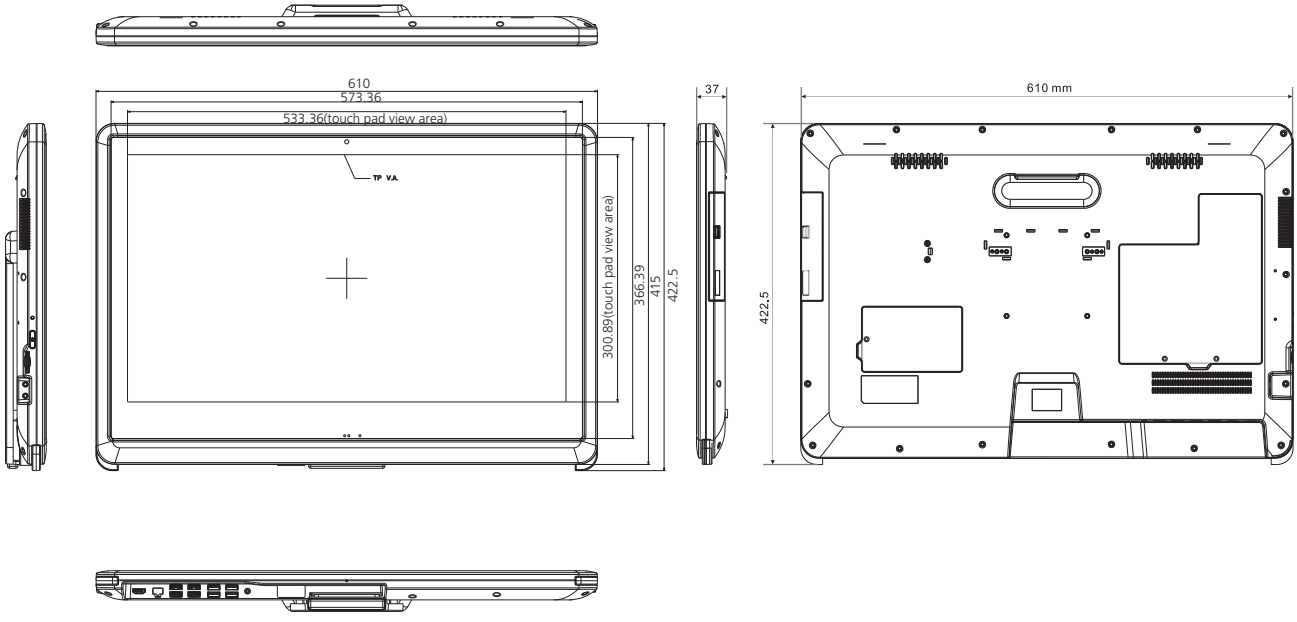
Wi-Fi + Bluetooth kit

*Specifications and certifications may vary based on different requirements.

Optional OS Installation

Windows® 7
Windows® 8.1

Dimensions



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8 Open Frame Panel Computer

Axiomtek's FDK series is an open frame LCD panel computer with outstanding configuration flexibility to help system integrators with configuring kiosk PCs. To easily fit into any space or to be encased into any chassis, the FDK series comes with open frame and slim design. For versatile applications, several touchscreen options are available to offer different viewer experiences. The FDK series can be widely deployed for indoor kiosk, HMI automation, and much more applications.

Selection Guide		396
FDK172-834	17" SXGA TFT Open Frame Panel Computer with Intel® Celeron® Processor J1900	397

Industrial Panel PCs

Open Frame Panel Computer

Selection Guide



Features\Models	FDK172-834
CPU Level	Intel® Celeron® J1900 2.0 GHz
LCD Panel	17" SXGA TFT LCD 250 nits 1280 x 1024
Chipset	SoC integrated
System Memory	1 x 204-pin DDR3L-1333 SO-DIMM, up to 8GB
CPU FSB Frequency	N/A
I/O	4 x RS-232/422/485 2 x USB 3.0 2 x USB 2.0 1 x 10/100/1000 Mbps Ethernet 1 x Audio (Line-out) 1 x VGA
Storage	1 x 2.5" SATA HDD 1 x CFast™ or mSATA
FDD	N/A
CD-ROM	N/A
Expansion	2 x PCI Express Mini Card slot
Touchscreen	5-wire resistive type (optional)
Operating System	Windows® 8.1, WE8S, Windows® 7, WES 7
Power Supply	9 to 36 VDC
Power Comsumption	57.60W
Watchdog Timer	255 levels, 0 to 255 sec.
Dimensions (W x D x H)	367 x 65 x 304.5 mm (14.45" x 2.6" x 11.99")
Weight (net/gross)	5.52 kg (12.16 lb)/7.5 kg (16.53 lb)
Operating Temperature	0°C to +50°C (+32°F to +122°F)
Certifications	CE

* All specifications and photos are subject to change without notice.

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FDK172-834

17" SXGA TFT Open Frame Panel Computer with Intel® Celeron® Processor J1900

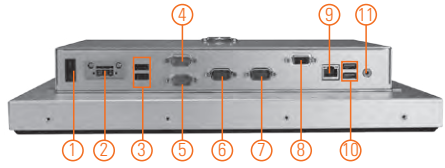
Features

- Front panel open frame design
- Outstanding configuration flexibility delivering best ROI
- 17" SXGA TFT LCD display
- Intel® Celeron® processor J1900 2.0 GHz (Bay Trail-D)
- Resistive touchscreen optional
- Supports VESA arm and open frame mount
- Two PCI Express Mini card slots
- RS-232/422/485 selectable via BIOS





▲ Rear view



1. Power switch (ATX)
2. Terminal block for DC power input or screw connector with AC adapter
3. 2 x USB 2.0
4. RS-232/422/485
5. RS-232/422/485
6. RS-232/422/485
7. RS-232/422/485
8. 1 x VGA
9. 1 x LAN
10. 2 x USB 3.0
11. Audio (Line-out)

Introduction

The FDK172-834 is an open frame panel computer with outstanding flexibility, configurable in a variety of ways to deliver best ROI for a variety of applications. It features Intel® Celeron® processor J1900 2.0 GHz with a 17" LCD display with up to 1280 x 1024 resolution, providing a very cost effective low power solution.

Slim design
Designed to integrate into your custom enclosure, this 17-inch open frame unit offers an open frame slim design architecture for easy fit. The FDK172-834 is ideal for indoor kiosk, HMI, automation, signage and other applications. The system is only 65 mm deep and provides narrow bezel widths of 13-15 mm for space-saving custom bezels and enclosure applications.

Touchscreen option
A resistive touchscreen option is available for interactive user interface requirements. Optionally, when ordered without touchscreen you get an even lower cost solution for dynamic signage or informational applications.

RS-232/422/485 adjustment & PCIe Mini Card slot
It is user friendly to adjust RS-232/422/485 setting via BIOS instead of adjusting it via jumper. Dual PCI Express Mini Card slots are standard for I/O expansion such as Wi-Fi, 3G connection, or other 3rd party I/O cards.

Specifications

LCD Panel	Display Type	17" SXGA TFT LCD
	Brightness (cd/m^2)	250 nits
	Resolution	1280 x 1024
	Viewing Angle (H/V)	170°/160°
Main System	CPU	Intel® Celeron® processor J1900 4C@2.0 GHz
	Chipset	SoC integrated
	System Memory	1 x 204-pin DDR3L-1333/1600 SO-DIMM, up to 8GB
	BIOS	AMI UEFI BIOS
	Storage	1 x 2.5" SATA HDD (9.5 mm height) 1 x CFast™ or 1 x mSATA
	Watchdog Timer	255 levels, 0 to 255 sec.
	Onboard Graphics	Integrated Intel® GFX

Updated Aug. 28, 2019.
* All specifications and photos are subject to change without notice.

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Specifications

I/O Connector	4 x RS-232/422/485 (default RS-232) 1 x 10/100/1000 Mbps Ethernet (Intel® i210-IT) 2 x USB 3.0 2 x USB 2.0 1 x Audio (Line-out) 1 x VGA
Expansion Interface	2 x PCI Express Mini Card slot
Touchscreen	Resistive type (optional)
Power Supply	DC version: 12 to 36 VDC with over-current protection fuse AC version: 100 to 240 VAC-DC 60W power adapter
Power Consumption	57.60W
Dimensions	367 mm (14.45") (W) x 65 mm (2.6") (D) x 304.5 mm (11.99") (H) (FDK172-834-N, without touch) 367 mm (14.45") (W) x 69.8 mm (2.74") (D) x 304.5 mm (11.99") (H) (FDK172-834-R, with touch)
Packing Dimensions	510 mm (20.08") (W) x 190 mm (7.48") (D) x 540 mm (21.26") (H)
Weight (net/gross)	5.52 kg (12.16 lb)/7.5 kg (16.53 lb)
Operating Temperature	0°C to +50°C (+32°F to +122°F)
Relative Humidity	10% to 90% @40°C, non-condensing
Certifications	CE

* Specification and certifications are based on options and may vary.

** W.T.: Wide Temperature. All W.T. supported products have to be sorted by Axiomtek.

Packing List

1 x FDK172-834 DC
1 x Driver CD
1 x Phoenix connector (FDK172-834 DC)

Ordering Information

FDK172-834-R-DC	17" SXGA open frame touch panel computer with Intel® Celeron® processor J1900, 5-wire resistive touch screen, and 12 to 36 VDC power input (terminal block connector)
FDK172-834-N-DC	17" SXGA open frame panel computer with Intel® Celeron® processor J1900 and 12 to 36 VDC power input (terminal block connector)

* Specifications and certifications may vary based on different requirements.

Optional OS Installation

WES7
WE8S
Windows® 8
Windows® 7

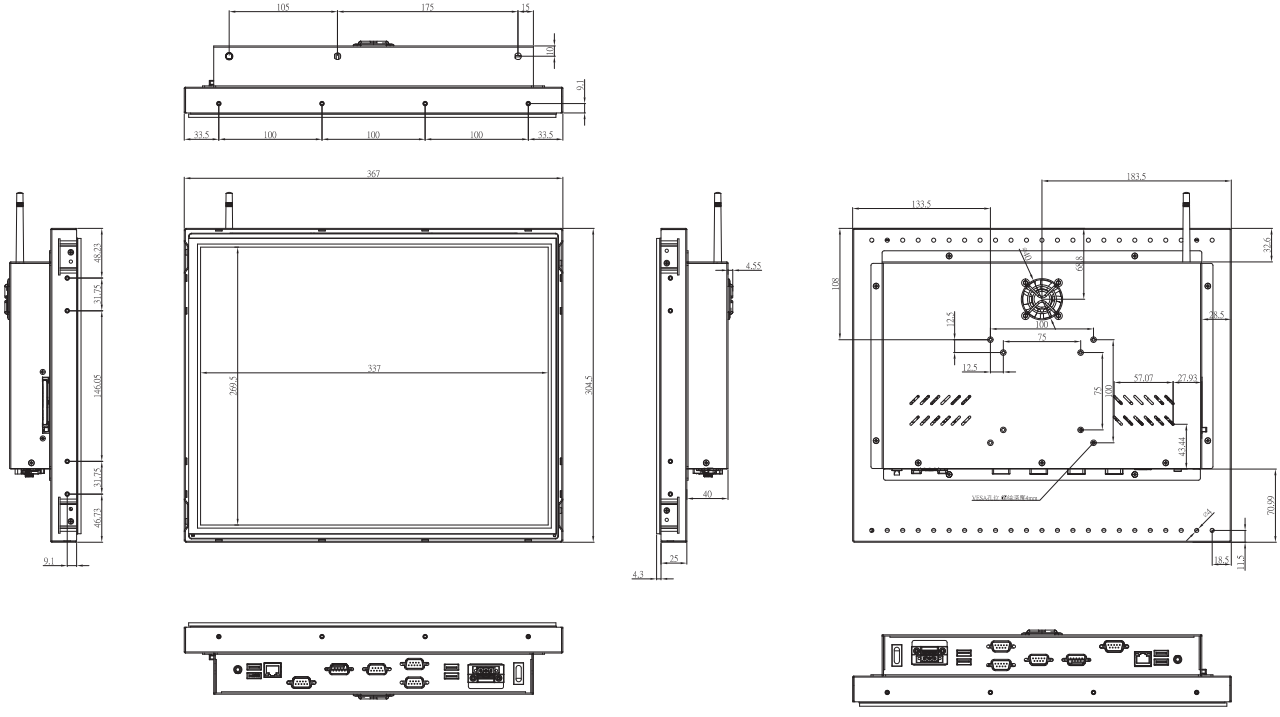


▲ Rear view



▲ Side view

Dimensions



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NOTES

Table of **Contents**

Network Appliances

1 SMB Network Appliances

Selection Guide 403

2U Rackmount Series

NA850 2U Rackmount Network Appliance Platform with Dual LGA2011 Socket Intel® Xeon® E5-2600 v3/v4 Family Processors, Intel® C612 and up to 42 LAN 406

NA860 2U Rackmount Network Appliance Platform with Dual LGA3647 Socket Intel® Xeon® Scalable Processors, Intel® C621 (Purley) and up to 66 LAN 407

1U Rackmount Series

NEW NA160 1U Rackmount Edge Platform with Intel® Pentium® processor N4200/Celeron® processor N3350 and 24-port L2 Managed Switch 408

NA362R 1U Rackmount Network Appliance Platform with Intel® Atom® Processor C3558/C3758 and up to 10 LAN 409

NEW NA363R 1U Rackmount Network Appliance Platform with Intel® Atom® Processor C3558/C3758 and up to 14 LAN 410

NA580 1U Rackmount Network Appliance Platform with LGA1151 Socket Intel® Xeon® E3/Core™ Processor and 8 LAN 411

NA590 1U Rackmount Network Appliance Platform with LGA1151 Socket Intel® Core™/Xeon® E-2100 Series Processor, Intel® C246/H310 and up to 26 LAN 412

NEW NA591 1U Rackmount Network Appliance Platform with LGA1151 Socket Intel® Xeon® E-2200/Core™ Processor, Intel® C246 and up to 34 LAN 413

NEW NA592 1U Rackmount Network Application Platform with AMD EPYC 3000 Series SoC Processor 414

NA861 1U Rackmount Network Appliance Platform with LGA3647 Socket Intel® Skylake Sever Processor, Intel® C621 (Purley) and up to 34 LAN 415

2 SOHO Network Appliances

Selection Guide 417

NA342 Desktop Network Appliance Platform with Intel® Celeron® Processor J1900 and 4 LAN 419

NA345 Desktop Network Appliance Platform with Intel® Pentium® Processor N4200/Celeron® Processor N3350 and 4 LAN 420

NEW	NA346	Fanless Small Form Factor IoT Security Platform with Intel® Atom® x5-E3930 Processor/Celeron® Processor N3350 (Apollo Lake) and 4 LAN	421
NEW	NA347	Desktop Network Appliance Platform with Intel® Atom® Processor (Elkhart Lake) and 6 LAN	422
	NA361	Desktop Network Appliance Platform with Intel® Atom® Processor C2358 and 6 LAN	423
	NA362	Desktop Network Appliance Platform with Intel® Atom® Processor C3338/C3558/C3758 and up to 10 LAN	424
NEW	NA363	Desktop Network Appliance Platform with Intel® Atom® Processor C3758 and up to 6 LAN	425

3 DIN-rail Network Appliances

	Selection Guide		427
NEW	iNA260	DIN-rail Industrial-grade Network Appliance with Intel® Atom® Processor and up to 10 LAN	428
NEW	iNA600	DIN-rail ndustrial-grade Network Appliance with Intel® Xeon® Processor and 16-port L2 Managed Switch	429

1 SMB Network Appliances

Axiomtek's SMB (small and medium business) network appliance platforms with 1U/2U rackmount form factor, enclosure management capability, flexible configurations and various combinations of Ethernet modules (1G/10G/25G/40G/ Copper/Fiber/Bypass), are suitable for different environments and applications. Axiomtek's SMB series provides not only high computing performance and reliable hardware platforms, but also system development kits for software integration.

Selection Guide 403

2U Rackmount Series

NA850 2U Rackmount Network Appliance Platform with Dual LGA2011 Socket Intel® Xeon® E5-2600 v3/v4 Family Processors, Intel® C612 and up to 42 LAN 406

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NA580 1U Rackmount Network Appliance Platform with LGA1151 Socket Intel® Xeon® E3/Core™ Processor and 8 LAN 411

NA590 1U Rackmount Network Appliance Platform with LGA1151 Socket Intel® Core™/Xeon® E-2100 Series Processor, Intel® C246/H310 and up to 26 LAN 412

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NA861 1U Rackmount Network Appliance Platform with LGA3647 Socket Intel® Skylake Sever Processor, Intel® C621 (Purley) and up to 34 LAN 415

SMB Network Appliances

Selection Guide





NEW



Features \ Models		NA850	NA860	NA160
Form Factor		2U, 19" rackmount	2U, 19" rackmount	1U, 19" rackmount
Processor		LGA2011 Intel® Xeon® E5-2600 v3/v4	Dual LGA3647 Intel® Xeon® Scalable processors	Intel® Pentium® N4200 Intel® Celeron® N3350
Chipset		Intel® C612	Intel® C621	SoC integrated
BIOS		AMI SPI Flash BIOS	AMI SPI Flash BIOS	AMI SPI Flash BIOS
Memory	**Technology**	DDR4-2133	DDR4-2400	DDR3L-1866
	Max Capacity	512GB non-ECC/ECC	384GB non-ECC/ECC	8GB non-ECC
	Socket	16 x 288-pin R-DIMM	12 x 288-pin R-DIMM	1 x SO-DIMM
Network Interface	**Ethernet (default)**	2 x 10/100/1000 Mbps (Intel® i210)	2 x 10/100/1000 Mbps (Intel® i210)	2 x 10/100/1000 Mbps Ethernet
	Ethernet (max.)	42 x 10/100/1000 Mbps	66 x 10/100/1000 Mbps	24 x 10/100/1000 Mbps Ethernet (L2 managed switch)
	LAN Bypass	Upon LAN module	Upon LAN module	Upon LAN module
	LAN Module	5 NIC slots (Dual CPUs) 3 NIC slots (Single CPU)	8 NIC slots (Dual CPUs) 4 NIC slots (Single CPU)	N/A
Storage		2 x 3.5" HDD (hot swappable) 1 x CompactFlash™ 1 x CFast™ (optional)	2 x 2.5" HDD (hot swappable) 1 x mSATA	1 x 2.5" SATA3 HDD 1 x mSATA
I/O	**USB**	2 x USB 3.0	2 x USB 3.0	2 x USB 3.0
	Console	1 x RJ-45	1 x RJ-45	1 x RS-232
	Display	1 x VGA	1 x VGA	1 x HDMI (optional)
Power Supply		650W 2U redundant	800W 2U redundant	110/220 VAC
Expansion Interface		2 x PCIe x8 (optional)	1 x PCIe x16 (optional) 2 x PCIe x8 (optional)	1 x PCI Express Mini Card slot (USB interface)
Operating Temperature		0°C to +45°C (+32°F to +113°F)	0°C to +40°C (+32°F to +104°F)	0°C to +45°C (+32°F to +113°F)
LCD Module		Yes	Yes	Yes
OS Support		Linux Kernel	Linux Kernel	Win 10, Linux
Dimensions (H x W x D)		88 x 430 x 550 mm (3.46" x 16.93" x 21.65")	88 x 430 x 562 mm (3.46" x 16.93" x 22")	44 x 430 x 390 mm (1.73" x 16.92" x 15.35")
Certifications		CE/FCC	CE/FCC	CE/FCC

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NEW





Features \ Models		NA362R	NA363R	NA580
Form Factor		1U, 19" rackmount	1U, 19" rackmount	1U, 19" rackmount
Processor		Intel® Atom® C3558/C3758	Intel® Atom® processor C3558/C3758	LGA1151 Intel® Xeon® E3/Intel® Core™
Chipset		SoC integrated	SoC integrated	Intel® C236/H110
BIOS		AMI SPI Flash BIOS	AMI SPI Flash BIOS	AMI SPI Flash BIOS
Memory	**Technology**	DDR4	DDR4	DDR4-2400
	Max Capacity	128GB non-ECC/ECC	128GB non-ECC/ECC	64GB non-ECC/ECC
	Socket	4 x 288-pin R-DIMM/U-DIMM	4 x 288-pin R-DIMM/U-DIMM	4 x 288-pin U-DIMM (Intel® C236) 2 x 288-pin U-DIMM (Intel® H110)
Network Interface	**Ethernet (default)**	6 x 10/100/1000 Mbps (Intel® i210) 2 x 10G SFP+ or 4 x 10G SFP+	6 x 10/100/1000 Mbps Ethernet (Intel® i210)	8 x 10/100/1000 Mbps (Intel® C236) 6 x 10/100/1000 Mbps (Intel® H110)
	Ethernet (max.)	6 x 10/100/1000 Mbps 4 x 10G SFP+	6 x 10/100/1000 Mbps Ethernet	18 x 10/100/1000 Mbps
	LAN Bypass	1 pair	1 pair 2 pair (optional)	2 pairs
	LAN Module	N/A	1 NIC slot (optional)	1 NIC slot
Storage		2 x 2.5" HDD 1 x mSATA	2 x 2.5" SATA3 HDD 1 x mSATA	2 x 2.5" HDD or 1 x 3.5" HDD (optional) 1 x CFast™ 1 x mSATA
I/O	**USB**	2 x USB 2.0	2 x USB 2.0	2 x USB 3.0
	Console	1 x RJ-45	1 x RJ-45	1 x RJ-45
	Display	N/A	N/A	1 x VGA (pin header)
Power Supply		120W open frame	120W open frame	270W ATX power 280W 1U redundant (optional)
Expansion Interface		N/A	1 x LAN module through AX98614 (83986141010E, for C3758 only)	1 x PCIe x8 (Intel® C236 only)
Operating Temperature		0°C to +45°C (+32°F to +113°F)	0°C to +45°C (+32°F to +113°F)	0°C to +45°C (+32°F to +113°F) (270W ATX power) 0°C to +40°C (+32°F to +104°F) (280W 1U redundant)
LCD Module		Yes	Yes	Yes
OS Support		Yocto, Linux	Yocto, Linux	Linux Kernel
Dimensions (H x W x D)		44 x 430 x 250 mm (1.73" x 16.93" x 9.84")	44 x 430 x 251 mm (1.73" x 16.93" x 9.88")	44 x 430 x 450 mm (1.73" x 16.93" x 17.7")
Certifications		CE/FCC	CE/FCC	CE/FCC

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SMB Network Appliances

Selection Guide








Features \ Models		NA590	NA591	NA592	NA861
Form Factor		1U, 19" rackmount	1U, 19" rackmount	1U, 19" rackmount	1U, 19" rackmount
Processor		LGA1151 Intel® Xeon® E-2200/ Intel® Core™	LGA1151 Intel® Xeon® E-2200/ Intel® Core™	AMD EYPC 3000	LGA3647 Intel® Xeon® Scalable
Chipset		Intel® C246/H310	Intel® C246	SoC integrated	Intel® C621
BIOS		AMI SPI Flash BIOS	AMI SPI Flash BIOS	AMI SPI Flash BIOS	AMI SPI Flash BIOS
Memory	**Technology**	DDR4-2666	DDR4-2666	DDR4-2666	DDR4-2400
	Max Capacity	128GB non-ECC/ECC	128GB non-ECC/ECC	256GB non-ECC/ECC	192GB non-ECC/ECC
	Socket	4 x 288-pin U-DIMM (Intel® C246) 2 x 288-pin U-DIMM (Intel® H310)	4 x 288-pin U-DIMM	8 x 288-pin DIMM	6 x 288-pin R-DIMM
Network Interface	**Ethernet (default)**	8 x 10/100/1000 Mbps (Intel® C246) 6 x 10/100/1000 Mbps (Intel® H310)	2 x 10/100/1000 Mbps (Intel® i210-AT)	2 x 10/100/1000 Mbps	2 x 10/100/1000 Mbps (Intel® i210)
	Ethernet (max.)	26 x 10/100/1000 Mbps	34 x 10/100/1000 Mbps	34 x 10/100/1000 Mbps	34 x 10/100/1000 Mbps
	LAN Bypass	2 pairs	Upon LAN module	Depends on LAN module	Upon LAN module
	LAN Module	2 NIC slots	4 NIC slots	4 NIC slots	4 NIC slots
Storage		2 x 2.5" HDD or 1 x 3.5" HDD (optional) 1 x mSATA	2 x 2.5" HDD 1 x mSATA	2 x 2.5" HDD (internal) 1 x M.2 Key M 2280	2 x 2.5" HDD 1 x mSATA
I/O	**USB**	2 x USB 3.0	2 x USB 2.0	2 x USB 2.0	2 x USB 2.0
	Console	1 x RJ-45	1 x RJ-45	2 x RJ-45 (one port share IPMI by option)	1 x RJ-45
	Display	1 x VGA (pin header)	1 x VGA (pin header)	1 x VGA (option by IPMI)	1 x VGA
Power Supply		400W ATX power 400W 1U redundant (optional)	400W ATX power, 400W 1U redundant (optional)	400W single ATX power 400W 1U redundant power	400W 1U redundant
Expansion Interface		1 x PCIe x8 (Intel® C246 only)	1 x PCIe x4 (optional)	1 x PCIe x16 (optional)	N/A
Operating Temperature		0°C to +45°C (+32°F to +113°F) (270W ATX power) 0°C to +40°C (+32°F to +104°F) (300W 1U redundant)	0°C to +45°C (+32°F to +113°F)	0°C to +40°C (+32°F to +104°F)	0°C to +40°C (+32°F to +104°F)
LCD Module		Yes	Yes	Yes	Yes
OS Support		Linux Kernel	Linux Kernel	Linux Kernel	Linux Kernel
Dimensions (H x W x D)		44 x 430 x 450 mm (1.73" x 16.93" x 17.7")	44 x 430 x 500 mm (1.73" x 16.92" x 19.69")	44 x 430 x 500 mm (1.73" x 16.93" x 19.69")	44 x 430 x 561 mm (1.73'' x 16.93'' x 22")
Certifications		CE/FCC	CE/FCC	CE/FCC	CE/FCC

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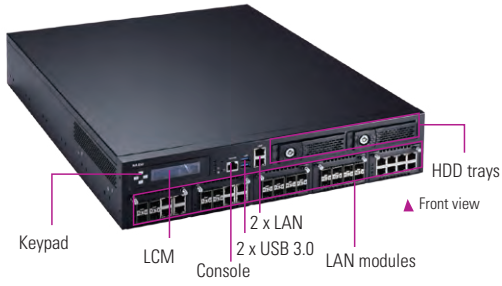
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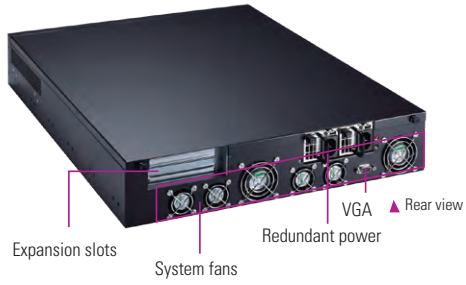
NA850

2U Rackmount Network Appliance Platform with Dual LGA2011 Socket Intel® Xeon® E5-2600 v3/v4 Family Processors, Intel® C612 and up to 42 LAN

Features

- Dual LGA2011 socket Intel® Xeon® E5-2600 v3/v4 family processors
- 16 DDR4-2133 R-DIMM for up to 512GB of memory
- Max. up to forty-two 10/100/1000 Mbps Ethernet ports
- 5 expandable LAN modules supporting 1GbE/10GbE/25GbE/40GbE/Fiber/Copper/Bypass
- Supports 2U redundant power supply
- High computing power for SDN, NGFW, IDS, IPS and UTM applications





LAN Bypass | EN 60950-1 | CFast™ | Swappable | Redundant Power | NIC Module

Specifications

System	
CPU	Dual LGA2011 socket Intel® Xeon® E5-2600 v3/v4 family processors
Chipset	Intel® C612
Memory	16 x DDR4-2133 R-DIMM, up to 512GB non-buffer non-ECC/ECC memory
BIOS	AMI SPI Flash BIOS
Storage	2 x 3.5" SATA HDD, hot swappable 1 x CompactFlash™ type-II 1 x CFast™ (optional)
Network Interface	2 x 10/100/1000 Mbps Ethernet (Intel® i211) Single CPU: 3 x LAN modules (optional), max. up to 26 LANs Dual CPU: 5 x LAN modules (optional), max. up to 42 LANs
I/O	1 x RS-232 (RJ-type) 2 x USB 3.0 2 x RJ-45 1 x VGA
Other Features	LAN Bypass function through latch relay (depends on LAN modules)
Expansion Interface	2 x PCIe x8 through AX96709 (83967091000E) riser card (optional)
Watchdog Timer	255 stepping for system reset 8 stepping for LAN Bypass
Power Supply	650W 2U redundant power supply
OS Compatibility	Linux Kernel

Mechanical/ Environmental	
Form Factor	2U rackmount
LED	Power, HDD, GPIO programmable, LAN Bypass, Link/Act with transfer rate
Operating Temperature	0°C to +45°C (+32°F to +113°F)
Humidity	10% to 95% RH, non-condensing
Chassis Material	Steel
Dimensions	88 mm (3.46") (H) x 430 mm (16.92") (W) x 550 mm (21.65") (D)
Weight (net/gross)	13 kg (28.6 lb)/16 kg (35.2 lb)
Certifications	FCC class A/CE class A

Ordering Information

Standard	
NA850-R2GI-RC-US (P/N: E26E850100)	2U rackmount appliance with dual LGA2011 Intel® Xeon® E5-2600 v3/v4 family processors and 2 GbE LAN

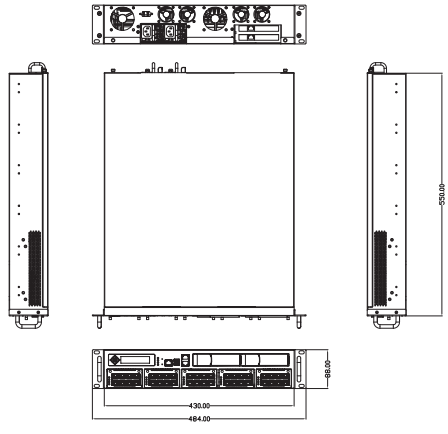
Optional	
5916E552000E	DB9F-RJ-45 1.8M console cable for Cisco

* Specifications and certifications may vary based on different requirements.

Packing List

1 x SATA cable
1 x Power cord

Dimensions



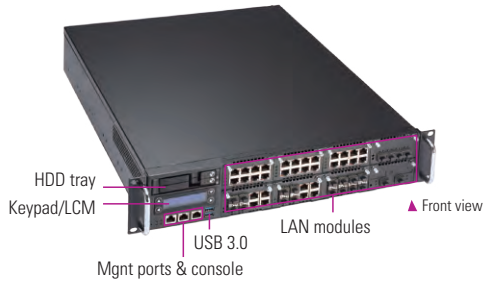
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NA860

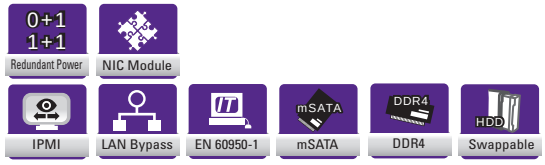
2U Rackmount Network Appliance Platform with Dual LGA3647 Socket Intel® Xeon® Scalable Processors, Intel® C621 (Purley) and up to 66 LAN

Features

- Dual LGA3647 socket Intel® Xeon® Scalable processors
- 12 DDR4-2400 R-DIMM for up to 384GB of memory
- Max. up to sixty-six 10/100/1000 Mbps Ethernet ports
- 8 expandable LAN modules supporting 1GbE/10GbE/25GbE/40GbE/Fiber/Copper/Bypass
- Supports 2U redundant power supply
- Supports IPMI/TPM (onboard) for optional
- High computing power for SDN, NGFW, IDS, IPS and UTM applications







Specifications

System	
CPU	Dual LGA3647 socket Intel® Xeon® Scalable processors (Cascade Lake/Skylake)
Chipset	Intel® C621
Memory	12 x DDR4-2400 R-DIMM, up to 384GB non-buffer non-ECC/ECC memory
BIOS	AMI SPI Flash BIOS
Storage	2 x 2.5" SATA HDD hot swappable 1 x mSATA
Network Interface	2 x 10/100/1000 Mbps Ethernet (Intel® i210) Single CPU: 4 x LAN module (optional), max. up to 34 LAN ports Dual CPU: 8 x LAN module (optional), max. up to 66 LAN ports
I/O	1 x RS-232 (RJ-type) 2 x USB 3.0 2 x RJ-45 1 x VGA
Other Features	LAN Bypass function through latch relay (depends on LAN modules)
Expansion Interface	2 x PCIe x8 through AX96709 (83967091000E) riser card (optional)
Watchdog Timer	255 stepping for system reset 8 stepping for LAN Bypass
Power Supply	800W 2U redundant power supply
OS Compatibility	Linux Kernel

Mechanical/ Environmental	
Form Factor	2U rackmount
LED	Power, HDD, GPIO programmable, LAN Bypass, Link/Act with transfer rate
Operating Temperature	0°C to +40°C (+32°F to +104°F)
Humidity	10% to 95% RH, non-condensing
Chassis Material	Steel
Dimensions	88 mm (3.46") (H) x 430 mm (16.92") (W) x 562 mm (22.12") (D)
Weight (net/gross)	12 kg (26.4 lb)/20 kg (44 lb)
Certifications	FCC class A/CE class A

Ordering Information

Standard	
NA860-R2GI-C621-US (P/N: E26E860100)	2U rackmount appliance with dual LGA3647 socket Intel® Xeon® Scalable processors and 2 GbE LAN

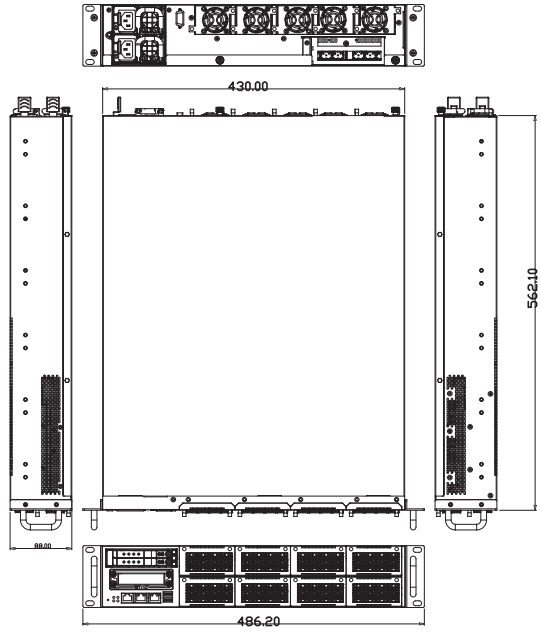
Optional	
5916E552000E	DB9F-RJ-45 1.8M console cable for Cisco

* Specifications and certifications may vary based on different requirements.

Packing List

1 x SATA cable
1 x Power cord

Dimensions



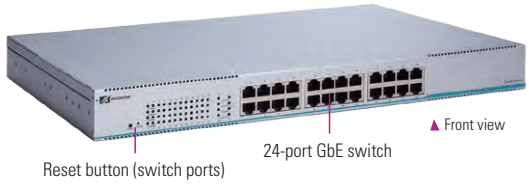
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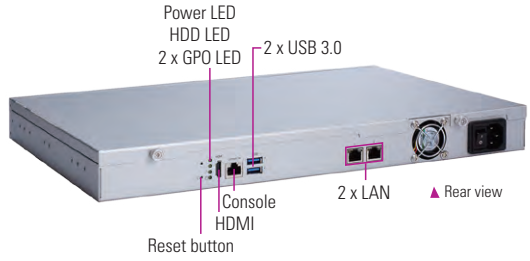
NA160 NEW

1U Rackmount Edge Platform with Intel® Pentium® Processor N4200/Celeron® Processor N3350 and 24-port L2 Managed Switch

Features

- Intel® Pentium® processor N4200/Celeron® processor N3350 (Apollo Lake)
- 1 DDR3L-1866 SO-DIMM for up to 8GB of memory
- Two 10/100/1000 Mbps Ethernet ports
- 24-port L2 managed switch
- Suitable for firewall, IoT security and SDN applications





Low Power | LAN Bypass | EN 60950-1 | mSATA

Specifications

System	
CPU	Intel® Pentium® processor N4200 (Apollo Lake) Intel® Celeron® processor N3350 (Apollo Lake)
Chipset	SoC integrated
Memory	1 x DDR3L-1866 SO-DIMM, up to 8GB non-ECC memory
BIOS	AMI SPI Flash BIOS
Storage	1 x 2.5" SATA3 HDD 1 x mSATA
Network Interface	24 x 10/100/1000 Mbps Ethernet (L2 managed switch)
I/O	1 x RS-232 (RJ-type) 2 x USB 3.0 2x 10/100/1000 Mbps Ethernet 1 x HDMI (optional)
Expansion Interface	1 x PCI Express Mini Card slot (USB interface)
Watchdog Timer	255 stepping for system reset
Power Supply	110/220 VAC
OS Compatibility	Win 10, Linux

Mechanical/ Environmental	
Form Factor	1U rackmount
LED	Power, HDD, GPIO programmable, Ethernet ports Link/Act with transfer rate
Operating Temperature	0°C to +45°C (+32°F to +113°F)
Humidity	10% - 95% RH, non-condensing
Chassis Material	Steel
Dimensions	44 mm (1.73") (H) x 430 mm (16.92") (W) x 390 mm (15.35") (D)
Weight (net/gross)	8 kg/9 kg
Certifications	FCC (Class A), CE (Class A)

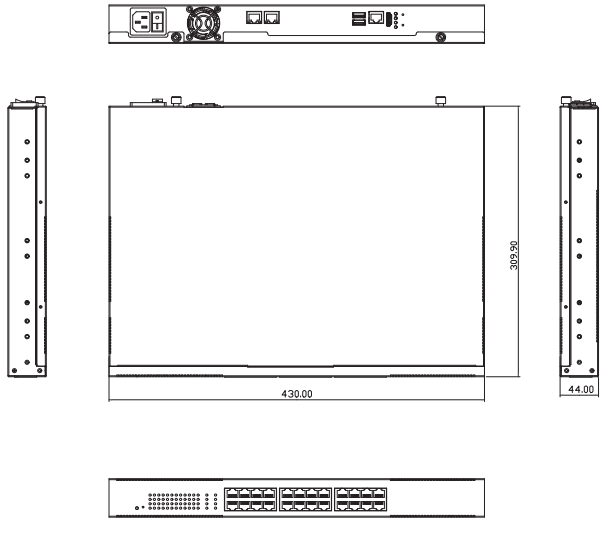
Ordering Information

Standard	
NA160	1U rackmount edge platform with Intel® Pentium® processor N4200/Celeron® processor N3350 and 24-port L2 managed switch

Packing List

1 x Power cord
1 x SATA cable

Dimensions



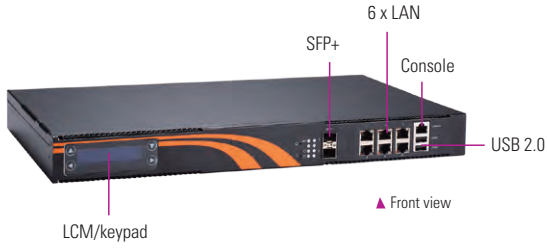
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NA362R

1U Rackmount Network Appliance Platform with Intel® Atom® Processor C3558/ C3758 and up to 10 LAN

Features

- Intel® Atom® processor C3558/C3758 (Denverton)
- 4 DDR4 R-DIMM/U-DIMM for up to 128GB of memory
- Six 10/100/1000 Mbps Ethernet ports and four 10GbE SFP+ ports
- Supports Intel® QuickAssist Technology
- Supports Intel® Data Plane Development Kit (Intel® DPDK)
- Suitable for VPN, network bandwidth controller, firewall and UTM applications





DDR4 | Supports Intel Atom | Low Power | TPM | LAN Bypass | EN 60950-1 | mSATA

Specifications

System	
CPU	Intel® Atom® processor C3558/C3758 (Denverton)
Chipset	SoC integrated
Memory	4 x DDR4 R-DIMM/U-DIMM (not allowed mixing). up to 128GB non-buffer non-ECC/ECC memory
BIOS	AMI SPI Flash BIOS
Storage	2 x 2.5" SATA3 HDD 1 x mSATA
Network Interface	6 x 10/100/1000 Mbps Ethernet (Intel® i210) 2 x 10GbE SFP+ (C3558)/4 x 10GbE SFP+ (C3758)
I/O	1 x RS-232 (RJ-type) 2 x USB 2.0 6 x RJ-45 + 2 x SFP+ (C3558); 4 x SFP+ (C3758)
Other Features	LAN Bypass function through latch relay (one pair)
Expansion Interface	N/A
Watchdog Timer	255 stepping for system reset 8 stepping for LAN Bypass
Power Supply	120W open frame
OS Compatibility	Yocto, Linux

Mechanical/ Environmental	
Form Factor	1U rackmount
LED	Power, HDD, GPIO programmable, LAN Bypass, Link/Act with transfer rate
Operating Temperature	0°C to +45°C (+32°F to +113°F)
Humidity	10% to 95% RH, non-condensing
Chassis Material	Steel
Dimensions	44 mm (1.73") (H) x 430 mm (16.93") (W) x 251 mm (9.88") (D)
Weight (net/gross)	3.5 kg (7 lb)/4.5 kg (9 lb)
Certifications	FCC class A/CE class A

Ordering Information

Standard	
NA362R-R8MI-C3558-US (P/N:E26E362103)	1U rackmount network appliance with Intel® Atom® processor C3558, 6 GbE LAN and 2 SFP+ ports
NA362R-RAMI-C3758-US (P/N:E26E362104)	1U rackmount network appliance with Intel® Atom® processor C3758, 6 GbE LAN and 4 SFP+ ports

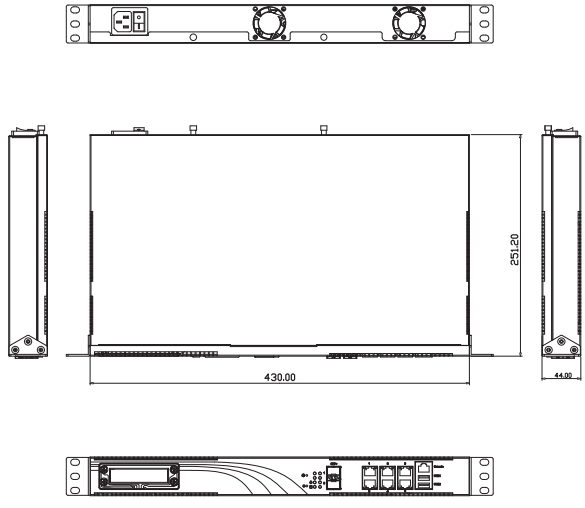
Optional	
5916E552000E	DB9F-RJ-45 1.8M console cable for Cisco

* Specifications and certifications may vary based on different requirements.

Packing List

1 x SATA cable
1 x Power cord

Dimensions



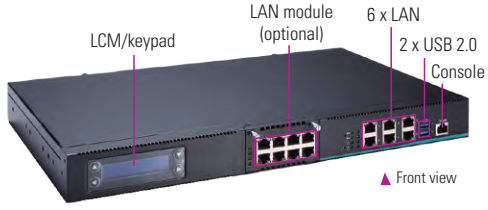
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NA363R NEW

1U Rackmount Network Appliance Platform with Intel® Atom® Processor C3558/ C3758 and up to 14 LAN

Features

- Intel® Atom® processor C3558/C3758 (Denverton)
- 4 DDR4 R-DIMM/U-DIMM for up to 128GB of memory
- Six 10/100/1000 Mbps Ethernet ports
- Supports Intel® QuickAssist Technology
- Supports Intel® Data Plane Development kit (Intel® DPDK)
- Suitable for VPN, network bandwidth controller, firewall and UTM applications





DDR4 | Supports Intel Atom | Low Power | TPM | LAN Bypass | EN 60950-1 | mSATA

Specifications

System	
CPU	Intel® Atom® processor C3558/C3758 (Denverton)
Chipset	SoC integrated
Memory	4 x DDR4 R-DIMM/U-DIMM (not allowed mixing), up to 128GB memory
BIOS	AMI SPI Flash BIOS
Storage	2 x 2.5" SATA3 HDD 1 x mSATA
Network Interface	6 x 10/100/1000 Mbps Ethernet (Intel® i210) 1 x LAN module (optional), max. up to 14 LAN
I/O	1 x RS-232 (RJ-type) 2 x USB 2.0
Other Features	One pair LAN Bypass function through latch relay Two pairs LAN Bypass (optional)
Expansion Interface	One LAN module through AX98614 (83986141010E, for C3758 only)
Watchdog Timer	255 stepping for system reset 8 stepping for LAN Bypass
Power Supply	120W open frame
OS Compatibility	Yocto, Linux

Mechanical/ Environmental	
Form Factor	1U rackmount
LED	Power, HDD, GPIO programmable, LAN Bypass, Link/Act with transfer rate
Operating Temperature	0°C to +45°C (+32°F to +113°F)
Humidity	10% - 95% RH, non-condensing
Chassis Material	Steel
Dimensions	44 mm (1.73") (H) x 430 mm (16.93") (W) x 251 mm (9.88") (D)
Weight (net/gross)	3.5 kg (7 lb)/4.5 kg (9 lb)
Certifications	CE/FCC

Ordering Information

Standard	
NA363R-R6GI-C3558-US w/1 LBP (P/N: E26E363100)	1U rackmount network appliance platform with Intel® Atom® processor C3558 and 6 GbE LAN
NA363R-R6GI-C3758-US w/1 LBP (P/N: E26E363101)	1U rackmount network appliance platform with Intel® Atom® processor C3758 and 6 GbE LAN

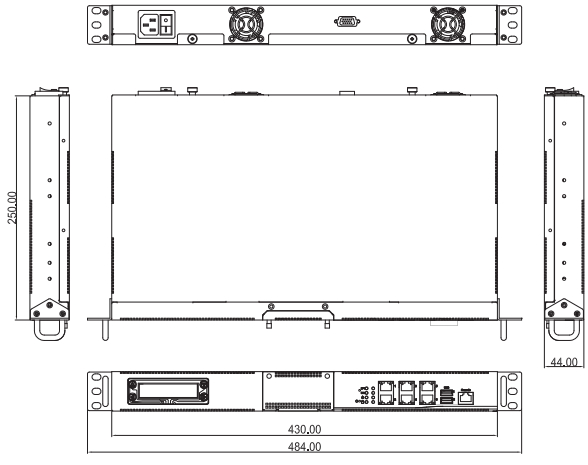
Optional	
5916E552000E	DB9F-RJ-45 1.8M console cable for Cisco

* Specifications and certifications may vary contingent on options.

Packing List

- 1 x SATA cable
- 1 x Power cord

Dimensions



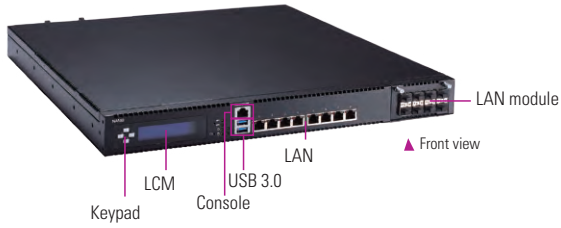
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NA580

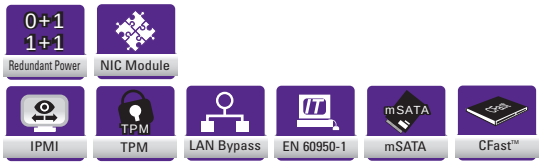
1U Rackmount Network Appliance Platform with LGA1151 Socket
Intel® Xeon® E3/Core™ Processor and 8 LAN

Features

- LGA1151 socket 6th/7th gen Intel® Core™/Xeon® E3 processor (Skylake/Kaby Lake)
- Four DDR4-2400 U-DIMM for up to 64GB of memory
- Max. up to eighteen 10/100/1000 Mbps Ethernet ports
- One expandable LAN module supporting 1GbE/10GbE/Fiber/Copper/Bypass
- Supports 1U redundant power supply for optional
- Supports IPMI/TPM module for optional
- Suitable for network security, cloud computing and data centers applications







Specifications

System	
CPU	LGA1151 socket Intel® Xeon® E3/Core™ processor (Skylake/Kaby Lake)
Chipset	Intel® C236/H110
Memory	Intel® C236: 4 x DDR4-2400 U-DIMM, up to 64GB non-buffer non-ECC/ECC memory Intel® H110: 2 x DDR4-2400 U-DIMM, up to 32GB non-buffer non-ECC memory
BIOS	AMI SPI Flash BIOS
Storage	2 x 2.5" SATA HDD 1 x CFast™ 1 x mSATA 1 x 3.5" SATA HDD (optional for 270 W ATX power supply only)
Network Interface	C236 PCH: 8 x 10/100/1000 Mbps Ethernet (Intel® i210) 10 x 10/100/1000 Mbps Ethernet (optional) 8 x RJ-45 + 2 x SFP (optional) H110 PCH: 6 x 10/100/1000 Mbps Ethernet (Intel® i210) 1 x LAN module (optional), max. up to 18 LANs
I/O	1 x RS-232 (RJ-type) 2 x USB 3.0 8 x RJ-45 1 x VGA (pin header)
Other Features	LAN Bypass function through latch relay (two pairs)
Expansion Interface	1 x PCIe x8 (Intel® C236 only) through AX96708 (83967081010E) riser card (optional)
Watchdog Timer	255 stepping for system reset 8 stepping for LAN Bypass
Power Supply	270W ATX power supply 280W 1U redundant power supply (optional)
OS Compatibility	Linux Kernel

Note : Kaby Lake doesn't support Cent OS 6.6/6.7/6.8

Mechanical/ Environmental	
Form Factor	1U rackmount
LED	Power, HDD, GPIO programmable, LAN Bypass, Link/Act with transfer rate
Operating Temperature	0°C to +45°C (+32°F to +113°F) (270 W ATX power supply) 0°C to +40°C (+32°F to +104°F) (280 W 1U redundant power supply)
Humidity	10% to 95% RH, non-condensing
Chassis Material	Steel
Dimensions	44 mm (1.73") (H) x 430 mm (16.93") (W) x 450 mm (17.7") (D)
Weight (net/gross)	6 kg (13.2 lb)/10 kg (22 lb)
Certifications	FCC class A/CE class A

Ordering Information

Standard	
NA580-R8GI-C236 (P/N: E26E580100)	1U rackmount appliance with LGA1151 socket Intel® Xeon® E3/Core™ processor, 8 GbE LAN, 2-pair LAN bypass and 1 expandable LAN module (optional)
NA580-R6GI-H110 (P/N: E26E580101)	1U rackmount appliance with LGA1151 socket Intel® Core™ processor, 6 GbE LAN, 2-pair LAN bypass and 1 expandable LAN module (optional)
NA580-R8GI-C236-US with IPMI (P/N: E26E580114)	1U rackmount appliance with LGA1151 socket Intel® Xeon® E3/Core™ processor, 8 GbE LAN, 1 IPMI port, 2-pair LAN bypass and 1 expandable LAN module (optional)

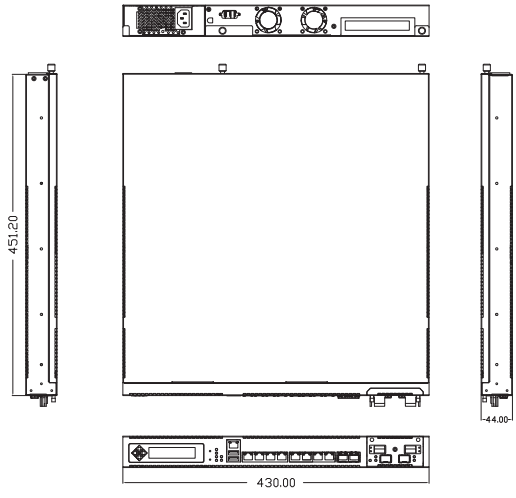
Optional	
5916E552000E	DB9F-RJ-45 1.8M console cable for Cisco

* Specifications and certifications may vary based on different requirements.

Packing List

1 x SATA cable
1 x Power cord

Dimensions



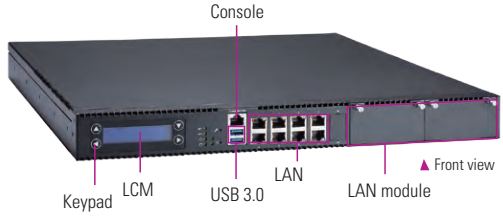
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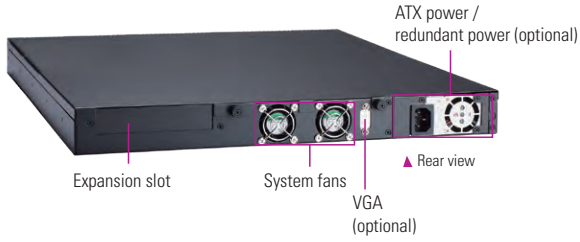
NA590

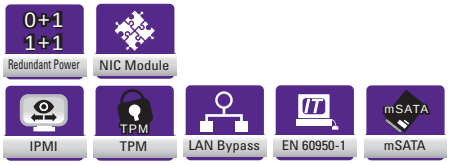
1U Rackmount Network Appliance Platform with LGA1151 Socket Intel® Core™/ Xeon® E-2200 Processor, Intel® C246/H310 and up to 26 LAN

Features

- LGA1151 socket 9th/8th gen Intel® Core™/Xeon® E-2200 processor (Coffee Lake)
- 4 DDR4-2666 U-DIMM for up to 64GB of memory
- Max. up to twenty-six 10/100/1000 Mbps Ethernet ports
- 2 expandable LAN modules supporting 1GbE/10GbE/ 25GbE/40GbE/Fiber/Copper/Bypass
- Supports 1U redundant power supply for optional
- Supports IPMI/TPM for optional
- Suitable for network security, cloud computing and data centers applications







Specifications

System	
CPU	LGA1151 socket 8th/9th gen Intel® Core™/Xeon® E-2200 processor (Coffee Lake)
Chipset	Intel® C246/H310
Memory	Intel® C246: 4 x DDR4-2666 U-DIMM, up to 128GB non-buffer non-ECC/ECC memory Intel® H310: 2 x DDR4-2666 U-DIMM, up to 64GB non-buffer non-ECC memory
BIOS	AMI SPI Flash BIOS
Storage	2 x 2.5" SATA HDD 1 x mSATA 1 x M.2 2280 (C246 only) 1 x 3.5" SATA HDD (optional for 270W ATX power supply only)
Network Interface	C246: 8 x 10/100/1000 Mbps (Intel® i210) 10 x 10/100/1000 Mbps (by project) 2 x LAN module (optional), max. up to 26 LANs H310: 6 x 10/100/1000 Mbps (Intel® i210) 1 x LAN module (optional), max. up to 14 LANs
I/O	1 x RS-232 (RJ-type) 2 x USB 3.0 8 x RJ-45 1 x VGA (pin header)
Other Features	LAN Bypass function through latch relay (two pairs)
Expansion Interface	1 x PCIe x8 (Intel® C246 only) through AX96708 (83967081010E) riser card (optional)
Watchdog Timer	255 stepping for system reset 8 stepping for LAN Bypass
Power Supply	400W ATX power supply
	400W 1U redundant power supply (by project)
OS Compatibility	Linux Kernel

Mechanical/ Environmental	
Form Factor	1U rackmount
LED	Power, HDD, GPIO programmable, LAN Bypass, Link/Act with transfer rate
Operating Temperature	0°C to +45°C (+32°F to +113°F) (400W ATX power supply) 0°C to +40°C (+32°F to +104°F) (400W 1U redundant power supply)
Humidity	10% to 95% RH, non-condensing
Chassis Material	Steel
Dimensions	44 mm (1.73") (H) x 430 mm (16.93") (W) x 450 mm (17.7") (D)
Weight (net/gross)	6 kg (13.2 lb)/10 kg (22 lb)
Certifications	FCC class A, CE class A

Ordering Information

Standard	
NA590-R6GI-H310-US 9th w/o IPMI (P/N: E26E590108)	1U rackmount appliance with LGA1151 socket Intel® Core™ processor, 6 GbE LAN, 2-pair LAN bypass and 1 expandable LAN module (optional)
NA590-R8GI-C246-US 9th w/o IPMI (P/N: E26E590109)	1U rackmount appliance with LGA1151 socket Intel® Core™/Xeon® E-2200 processor, 8 GbE LAN, 2-pair LAN bypass and 2 expandable LAN modules (optional)

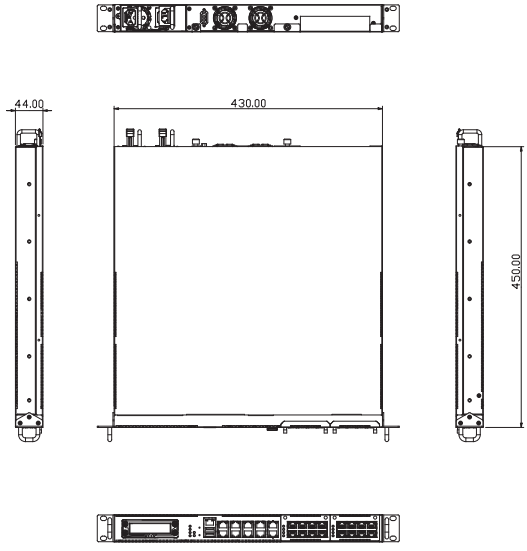
Optional	
5916E552000E	DB9F-RJ-45 1.8M console cable for Cisco

* Specifications and certifications may vary based on different requirements.

Packing List

1 x SATA cable
1 x Power cord

Dimensions



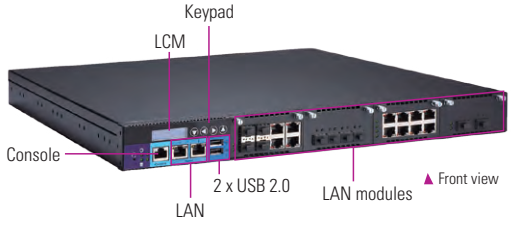
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NA591 NEW

1U Rackmount Network Appliance Platform with LGA1151 Socket Intel® Xeon® E-2200/Core™ Processor, Intel® C246 and up to 34 LAN

Features

- LGA1151 socket 9th/8th Intel® Core™ i7/i5/i3 & Xeon® E-2200 processor (Coffee Lake/Coffee Lake Reflash)
- 4 DDR4-2666 U-DIMM, up to 128GB memory
- Max. up to 34 GbE LAN ports
- 4 expandable LAN modules supporting 1GbE/10GbE/25GbE/40GbE/Fiber/Copper/Bypass for optional
- Supports 1U redundant power supply for optional
- Supports IPMI/TPM for optional
- Suitable for network security, cloud computing and data centers applications





EN 60950-1 | CFast™ | 0+1 1+1 Redundant Power | NIC Module

Specifications

System	
CPU	LGA1151 socket 9th/8th Intel® Core™ i7/i5/i3 & Xeon® E-2200 processor (Coffee Lake/Coffee Lake reflash)
Chipset	Intel® C246
Memory	4 x DDR4-2666 U-DIMM, up to 128GB non-buffer non-ECC/ECC memory
BIOS	AMI SPI Flash BIOS
Storage	2 x 2.5" SATA HDD 1 x mSATA 1 x M.2 2280 1 x 3.5" SATA HDD (optional for 400W ATX power supply only)
Network Interface	2 x 10/100/1000 Mbps Ethernet (Intel® i210) 4 x LAN module (optional), max. up to 34 LAN ports
I/O	1 x RS-232 (RJ-type) 2 x USB 2.0 2 x RJ-45 1 x VGA (pin header)
Other Features	LAN Bypass function through latch relay (depends on LAN modules)
Expansion Interface	1 x PCIe x4 (optional)
Watchdog Timer	255 stepping for system reset 8 stepping for LAN Bypass
Power Supply	400W ATX power supply 400W 1U redundant power supply (optional)
OS Compatibility	Linux Kernel

Mechanical/ Environmental	
Form Factor	1U rackmount
LED	Power, HDD, GPIO programmable, Link/Act with transfer rate
Operating Temperature	0°C to +45°C (+32°F to +113°F)
Humidity	10% - 95% RH, non-condensing
Chassis Material	Steel
Dimensions	44 mm (1.73") (H) x 430 mm (16.93") (W) x 500 mm (19.69") (D)
Weight (net/gross)	8.32 kg (18.34 lb)/12.76 kg (28.13 lb)
Certifications	FCC class A/CE class A

Ordering Information

Standard	
NA591-R2GI-C246-US w/ IPMI (P/N: E26E591100)	1U rackmount appliance with LGA1151 socket Intel® Core™/Xeon® E-2200 processor (Coffee Lake/Coffee Lake reflash), 2 GbE LAN, and 4 expandable LAN modules (optional), w/IPMI
NA591-R2GI-C246-US w/o IPMI (P/N: E26E591101)	1U rackmount appliance with LGA1151 socket Intel® Core™/Xeon® E-2200 processor (Coffee Lake/Coffee Lake reflash), 2 GbE LAN, and 4 expandable LAN modules (optional), w/o IPMI

Optional	
5916E552000E	DB9F-RJ-45 1.8M console cable for Cisco

* Specifications and certifications may vary based on different requirements.

Packing List

1 x SATA cable
1 x Power cord

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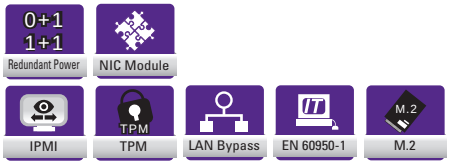
NA592 NEW

1U Rackmount Network Application Platform with AMD EPYC 3000 series SoC Processor

Features

- AMD EPYC 3000 family SoC (Snowy Owl)
- 8 DDR4-2666 U-DIMM for up to 256GB of memory
- Max. up to twenty-six 10/100/1000 Mbps Ethernet ports
- 4 expandable LAN module supporting 1GbE/10GbE/25GbE/40GbE/Copper/LAN Bypass
- Supports 1U redundant power supply for optional
- Supports IPMI/TPM for optional
- Suitable for network security, cloud computing and data centers applications
- Expansion PCIe x16 slot supprts Intel® 100G NIC module





Specifications

System	
CPU	AMD EPYC 3000 series SoC processor(Snowy Owl)
Chipset	Soc integrated
Memory	8 x DDR4 2666 U-DIMM, up to 256GB non-ECC/ECC memory
BIOS	AMI SPI Flash BIOS
Storage	2 x 2.5" SATA HDD/SSD internal 1 x M.2 Key M 2280 via PCIe x4
Network Interface	C246: 8 x 10/100/1000 Mbps (Intel® i210) 10 x 10/100/1000 Mbps (by project) 2 x LAN module (optional), max. up to 26 LANs H310: 6 x 10/100/1000 Mbps (Intel® i210) 1 x LAN module (optional), max. up to 14 LANs
I/O	1 x RS-232 (RJ-type) 2 x USB 2.0 2 x RJ-45 (one port share IPMI by option) 1 x VGA (pin header)
Other Features	LAN Bypass depends on LAN module
Expansion Interface	1 x PCIe x8 through PCIe riser card (optional)
Watchdog Timer	255 stepping for system reset 8 stepping for LAN Bypass
Power Supply	400W single ATX power 400W 1U redundant power
OS Compatibility	Linux Kernel

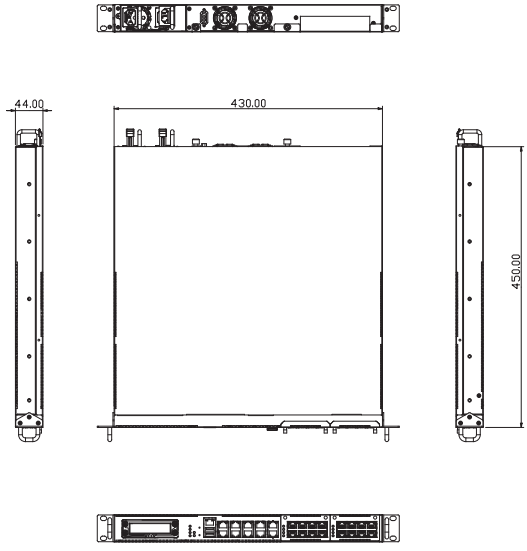
Mechanical/ Environmental	
Form Factor	1U rackmount
LED	Power, HDD, GPIO programmable, LAN Bypass, Link/Act with transfer rate
Operating Temperature	0°C to +40°C (+32°F to +104°F)
Humidity	10% to 95% RH, non-condensing
Chassis Material	Steel
Dimensions	44 mm (1.73") (H) x 430 mm (16.93") (W) x 500 mm (19.69") (D)
Weight (net/gross)	6 kg (13.2 lb)/10 kg (22 lb)
Certifications	FCC class A, CE class A

Ordering Information

Standard	
NA592	1U rackmount network application platform with AMD EPYC 3000 series SoC processor

* Specifications and certifications may vary based on different requirements.

Dimensions



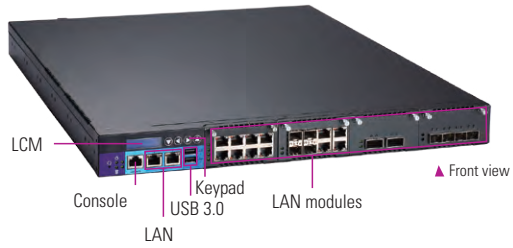
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NA861

1U Rackmount Network Appliance Platform with LGA3647 Socket Intel® Xeon® Scalable Processor (Cascade Lake/Skylake), Intel® C621 (Purley) and up to 34 LAN

Features

- LGA3647 socket Intel® Xeon® Scalable processor
- 6 DDR4-2400 R-DIMM for up to 192GB of memory
- Max. up to thirty-four 10/100/1000 Mbps Ethernet ports
- 4 expandable LAN modules supporting 1GbE/10GbE/25GbE/40GbE/Fiber/Copper/Bypass
- Supports 1U redundant power supply
- Supports IPMI/TPM (onboard) for optional
- High computing power for SDN, NGFW, IDS, IPS and UTM applications







Specifications

System	
CPU	LGA3647 socket Intel® Xeon® Scalable processors (Cascade Lake/Skylake)
Chipset	Intel® C621
Memory	6 x DDR4-2400 R-DIMM, up to 192GB non-buffer non-ECC/ECC memory
BIOS	AMI SPI Flash BIOS
Storage	2 x 2.5" SATA HDD 1 x mSATA
Network Interface	2 x 10/100/1000 Mbps Ethernet (Intel® i210) Single CPU: 4 x LAN module (optional), max. up to 34 LAN ports
I/O	1 x RS-232 (RJ-type) 2 x USB 2.0 2 x RJ-45 1 x VGA
Other Features	LAN Bypass function through latch relay (depends on LAN modules)
Expansion Interface	N/A
Watchdog Timer	255 stepping for system reset 8 stepping for LAN Bypass
Power Supply	400W 1U redundant power supply
OS Compatibility	Linux Kernel

Mechanical/ Environmental	
Form Factor	1U rackmount
LED	Power, HDD, GPIO programmable, LAN Bypass, Link/Act with transfer rate
Operating Temperature	0°C to +40°C (+32°F to +104°F)
Humidity	10% to 95% RH, non-condensing
Chassis Material	Steel
Dimensions	44 mm (1.73") (H) x 430 mm (16.92") (W) x 561 mm (22") (D)
Weight (net/gross)	8 kg (17.6 lb)/12 kg (26.4 lb)
Certifications	FCC class A/CE class A

Ordering Information

Standard	
NA861-R2GI-US with Redn power (P/N: E26E861100)	1U rackmount appliance with Intel® Xeon® Scalable processor, 2 GbE LAN and redundant power
NA861-R2GI-US with Single power (P/N: E26E861101)	1U rackmount appliance with single Intel® Xeon® Scalable processor, 2 GbE LAN and single power

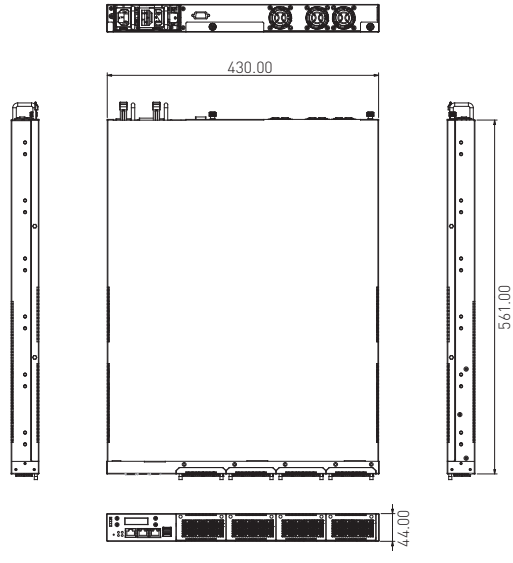
Optional	
5916E552000E	DB9F-RJ-45 1.8M console cable for Cisco

* Specifications and certifications may vary based on different requirements.

Packing List

1 x SATA cable
1 x Power cord

Dimensions



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2 SOHO Network Appliances

Axiomtek's SOHO (Small Office and Home Office) network appliance platforms with compact size design, fantastic enclosure management capability, strict electromagnetic compatibility for class B, energy saving and multiple Ethernet ports, are suitable for various environments and applications in space-limited environments. Axiomtek's SOHO series provides not only reasonable performance and reliable hardware platforms, but also system development kits for software integration.

	Selection Guide		417
	NA342	Desktop Network Appliance Platform with Intel® Celeron® Processor J1900 and 4 LAN	419
	NA345	Desktop Network Appliance Platform with Intel® Pentium® Processor N4200/Celeron® Processor N3350 and 4 LAN	420
NEW	NA346	Fanless Small Form Factor IoT Security Platform with Intel® Atom® x5-E3930 Processor/Celeron® Processor N3350 (Apollo Lake) and 4 LAN	421
NEW	NA347	Desktop Network Appliance Platform with Intel® Atom® Processor (Elkhart Lake) and 6 LAN	422
	NA361	Desktop Network Appliance Platform with Intel® Atom® Processor C2358 and 6 LAN	423
	NA362	Desktop Network Appliance Platform with Intel® Atom® Processor C3338/C3558/C3758 and up to 10 LAN	424
NEW	NA363	Desktop Network Appliance Platform with Intel® Atom® Processor C3758 and up to 6 LAN	425

Network Appliances

SOHO Network Appliances

Selection Guide





NEW



NEW



Features \ Models		NA342	NA345	NA346	NA347
Form Factor		1U desktop	1U desktop	Desktop	1U Desktop
Processor		Intel® Celeron® J1900 (4-core)	Intel® Pentium® N4200 (4-core) Intel® Celeron® N3350 (2-core)	Intel® Celeron® N3350 Intel® Atom® x5-E3930	Intel® Atom® Elkhart Lake (4-core)
Chipset		SoC integrated	SoC integrated	SoC integrated	SoC integrated
BIOS		AMI SPI Flash BIOS	AMI SPI Flash BIOS	AMI SPI Flash BIOS	AMI SPI Flash BIOS
Memory	**Technology**	DDRL-1333	DDR3L-1866	DDR3L-1866	DDR4-3200
	Max Capacity	Up to 8GB non-ECC	Up to 8GB non-ECC	Up to 8GB non-ECC/ECC	Up to 32GB
	Socket	1 x 204-pin SO-DIMM	1 x 204-pin SO-DIMM	1 x 204-pin SO-DIMM	1 x 260-pin SO-DIMM
Network Interface	**Ethernet**	4 x 10/100/1000 Mbps (6 ports by request)	4 x 10/100/1000 Mbps (6 ports by request)	4 x 10/100/1000 Mbps	6 x 10/100/1000 Mbps (3-port w/ TSN MACs)
	LAN Bypass	2 pairs (optional)	2 pairs (optional)	1 pair (optional)	1 pairs (optional)
	Controllers	Intel® i211	Intel® i211	Intel® i211	Intel® LAN Controllers
	LAN Module	N/A	N/A	N/A	N/A
Storage	**HDD**	1 x 2.5" HDD	1 x 2.5" HDD	N/A	1 x 2.5" HDD (optional)
	CompactFlash™ / CFast™ /mSATA	1 x CompactFlash™	1 x mSATA	1 x mSATA (half type)	1 x eMMC (optional) 1 x mSATA (optional)
I/O	**USB**	1 x USB 2.0, 1 x USB 3.0	2 x USB 3.0	2 x USB3.0	2 x USB 2.0
	Console	1 x RJ-45	1 x RJ-45	1 x RJ-45	1 x RJ-45
Power Supply		12V, 5A power adapter	12V, 5A power adapter	12V/5A	12V/7A
Expansion Interface		1 x PCI Express Mini Card slot (USB interface)	1 x PCI Express Mini Card slot (USB interface)	1 x PCI Express Mini Card slot (USB interface)	1 x PCIe mini card (USB+PCe interface) for wireless/LTE 1 x PCIe mini card (SATA+USB interface) for LTE
VGA/HDMI		Pin-header	1 x HDMI (optional)	1 x HDMI	1 x HDMI
Fanless		N/A	NA345FL (by request)	NA364FL (by request)	N/A
Operating Temperature		0°C to +40°C (+32°F to +104°F)	0°C to +40°C (+32°F to +104°F)	0°C to +40°C (+32°F to +104°F)	0°C to +40°C (+32°F to +104°F)
LCD Module		N/A	N/A	N/A	N/A
OS Support		Win7, WES7, Win8, WE8S, Linux	Win 10, Linux	Win 10, Linux (Yocto project)	Win 10, Yocto, Linux
Dimensions (H x W x D)		44 x 231.9 x 152 mm (1.73" x 9" x 5.98")	44 x 231.9 x 152 mm (1.73" x 9" x 5.98")	33.5 x 146 x 118.2 mm (1.32" x 5.75" x 4.65")	44 x 231.9 x 152 mm (1.73" x 9" x 5.95")
Certifications		CE/FCC	CE/FCC	CE/FCC	CE/FCC

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NEW



Features \ Models		NA361	NA362	NA363
Form Factor		1U desktop	1U desktop	1U desktop
Processor		Intel® Atom® C2358 (2-core)	Intel® Atom® C3338/C3558/C3758	Intel® Atom® C3338
Chipset		SoC integrated	SoC integrated	SoC integrated
BIOS		AMI SPI Flash BIOS	AMI SPI Flash BIOS	AMI SPI Flash BIOS
Memory	**Technology**	DDR3-1600	DDR4-2400	DDR4-2400
	Max Capacity	Up to 16GB non-ECC/ECC	Up to 64GB non-ECC/ECC (Atom® C3338) Up to 128GB non-ECC/ECC (Atom® C3558/C3758)	Up to 64G R-DIMM non-buffer, non-ECC/ECC
	Socket	2 x 240-pin U-DIMM	2 x 288-pin R-DIMM/U-DIMM (Intel® C3338) 4 x 288-pin R-DIMM/U-DIMM (Intel® C3558/C3758)	2 x 288-pin R-DIMM/U-DIMM
Network Interface	**Ethernet**	6 x 10/100/1000 Mbps	6 x 10/100/1000 Mbps (default) and 2 or 4 x 10GbE SFP+ (depends on CPU)	6 x 10/100/1000Mbps
	LAN Bypass	2 pairs (optional)	1 pair (optional)	1 pairs (optional)
	Controllers	Intel® i354 & i210	Intel® i210	Intel® i210
	LAN Module	N/A	N/A	N/A
Storage	**HDD**	1 x 2.5" HDD	1 x 2.5" HDD	1 x 2.5" HDD
	CompactFlash™ / CFast™ /mSATA	1 x CompactFlash™ 1 x CFast™ (optional) 1 x mSATA (optional)	1 x mSATA	1 x mSATA (optional)
I/O	**USB**	2 x USB 2.0	2 x USB 2.0	2 x USB 3.0
	Console	1 x RJ-45	1 x RJ-45	1 x RJ-45
Power Supply		12V, 5A power adapter	12V, 5A power adapter (Atom® C3338/C3558) 12V, 7A power adapter (Atom® C3758)	12V/5A (Atom® C3558) 12V/7A (Atom® C3758)
Expansion Interface		1 x PCI Express Mini Card slot (USB interface)	1 x PCI Express Mini Card slot	1 x PCIe Mini Card (USB+SATA interface) 1 x PCIe Mini Card (USB+PCIe interface)
VGA/HDMI		N/A	N/A	N/A
Fanless		NA361FL (by request)	N/A	N/A
Operating Temperature		0°C to +40°C (+32°F to +104°F)	0°C to +40°C (+32°F to +104°F)	0°C to +40°C (+32°F to +104°F)
LCD Module		N/A	N/A	N/A
OS Support		Yocto, Linux	Yocto, Linux	Yocto, Linux
Dimensions (H x W x D)		44 x 231 x 197 mm (1.73" x 9.09" x 7.76")	44 x 231 x 197 mm (1.73" x 9.09" x 7.76")	44 x 231 x 197 mm (1.73" x 9.09" x 7.76")
Certifications		CE/FCC	CE/FCC	CE/FCC

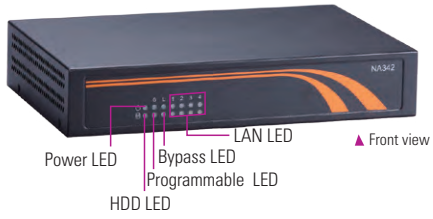
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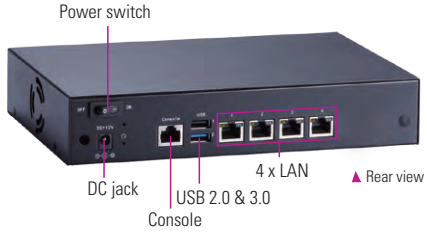
NA342

Desktop Network Appliance Platform with Intel® Celeron® Processor J1900 and 4 LAN

Features

- Intel® Celeron® processor J1900 (Bay Trail)
- One DDR3L-1333 SO-DIMM for up to 8GB of memory
- Four 10/100/1000 Mbps Ethernet ports (Intel® i211)
- Wi-Fi/3G/LTE through PCI Express Mini Card slot for optional
- Suitable for VPN, network bandwidth controller and firewall applications





Supports Intel Atom inside | Low Power | TPM | LAN Bypass | EN60950-1

Specifications

System	
CPU	Intel® Celeron® processor J1900 (Bay Trail)
Chipset	SoC integrated
Memory	1 x DDR3L-1333 SO-DIMM, up to 8GB non-ECC memory
BIOS	AMI SPI Flash BIOS
Storage	1 x 2.5" SATA HDD 1 x CompactFlash™ type-II
Network Interface	4 x 10/100/1000 Mbps Ethernet (Intel® i211, optional 6 ports by request)
I/O	1 x RS-232 (RJ-type) 1 x USB 2.0 1 x USB 3.0 4 x RJ-45
Other Features	LAN Bypass function through latch relay (two pairs) for optional
Expansion Interface	1 x PCI Express Mini Card slot with USB interface
Watchdog Timer	255 stepping for system reset 8 stepping for LAN Bypass
Power Supply	1 x 12V, 5A power adapter
OS Compatibility	Win7, WES7, Win8, WE8S, Linux

Mechanical/Environmental	
Form Factor	1U desktop
LED	Power, HDD, GPIO programmable, LAN Bypass, Link/Act with transfer rate
Operating Temperature	0°C to +40°C (+32°F to +104°F)
Humidity	10% - 95% RH, non-condensing
Chassis Material	Steel
Dimensions	44 mm (1.73") (H) x 231.9 mm (9.00") (W) x 152 mm (5.98") (D)
Weight (net/gross)	2.5 kg (5.51 lb)/2.9 kg (6.39 lb)
Certifications	FCC class B/CE class B

Ordering Information

Standard	
NA342-D4GI-1900-B-US w/o LBP (PN: E26E342103)	1U desktop network appliance with Intel® Celeron® processor J1900 and 4 GbE LAN

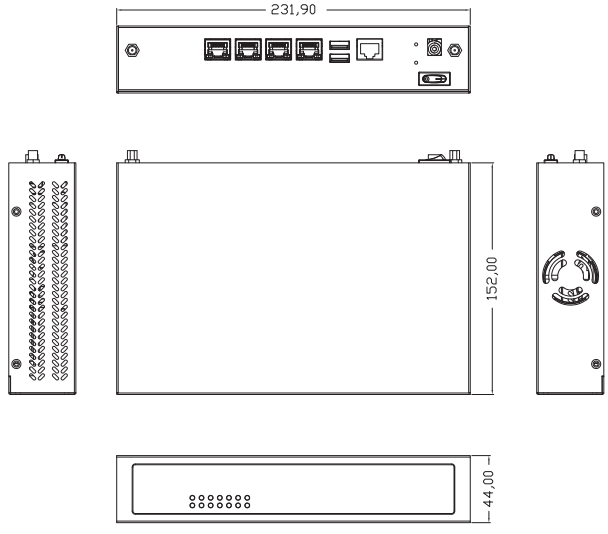
Optional	
5916E552000E	DB9F-RJ-45 1.8M console cable

* Specifications and certifications may vary based on different requirements.

Packing List

1 x DC power adapter 12V/5A
1 x Power cord
1 x SATA cable

Dimensions



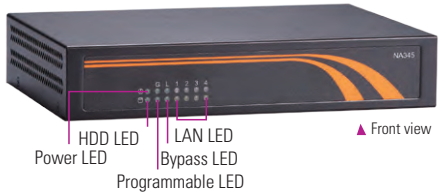
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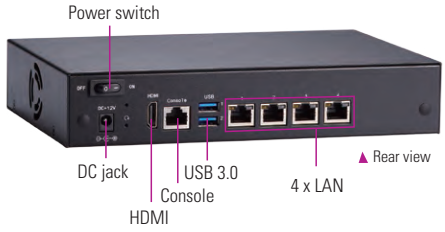
NA345

Desktop Network Appliance Platform with Intel® Pentium® Processor N4200/Celeron® Processor N3350 and 4 LAN

Features

- Intel® Pentium® processor N4200/Celeron® processor N3350 (Apollo Lake)
- One DDR3L-1866 SO-DIMM for up to 8GB of memory
- Four 10/100/1000 Mbps Ethernet ports (Intel® i211)
- Wi-Fi/3G/LTE through PCI Express Mini Card slot for optional
- Suitable for VPN, network bandwidth controller and firewall applications





Supports Intel Atom | Low Power | TPM | LAN Bypass | EN60950-1 | mSATA

Specifications

System	
CPU	Intel® Pentium® processor N4200 (Apollo Lake) Intel® Celeron® processor N3350 (Apollo Lake)
Chipset	SoC integrated
Memory	1 x DDR3L-1866 SO-DIMM, up to 8GB non-ECC memory
BIOS	AMI SPI Flash BIOS
Storage	1 x 2.5" SATA3 HDD 1 x mSATA
Network Interface	4 x 10/100/1000 Mbps Ethernet (Intel® i211, optional 6 ports by request)
I/O	1 x RS-232 (RJ-type) 2 x USB 3.0 4 x RJ-45 1 x HDMI (optional)
Other Features	LAN Bypass function through latch relay (two pairs) for optional
Expansion Interface	1 x PCI Express Mini Card slot with USB interface
Watchdog Timer	255 stepping for system reset 8 stepping for LAN Bypass
Power Supply	1 x 12V, 5A power adapter
OS Compatibility	Win 10, Linux

Mechanical/ Environmental	
Form Factor	1U desktop
LED	Power, HDD, GPIO programmable, LAN Bypass, Link/Act with transfer rate
Operating Temperature	0°C to +40°C (+32°F to +104°F)
Humidity	10% - 95% RH, non-condensing
Chassis Material	Steel
Dimensions	44 mm (1.73") (H) x 231.9 mm (9.00") (W) x 152 mm (5.98") (D)
Weight (net/gross)	2.35 kg (5.18 lb)/2.61 kg (5.75 lb)
Certifications	FCC class B/CE class B

Ordering Information

Standard	
NA345-D4GI-N3350-US w/o LBP (P/N: E26E345100)	1U desktop network appliance with Intel® Celeron® processor N3350 and 4 GbE LAN
NA345-D4GI-N4200-US w/o LBP (P/N: E26E345102)	1U desktop network appliance platform with Intel® Pentium® processor N4200 and 4 GbE LAN
NA345-D6GI-N4200-US & HDMI w/ 2 LBP (P/N: E26E345103)	1U desktop network appliance platform with Intel® Pentium® processor N4200, 6 GbE LAN, 2 LAN Bypass & HDMI

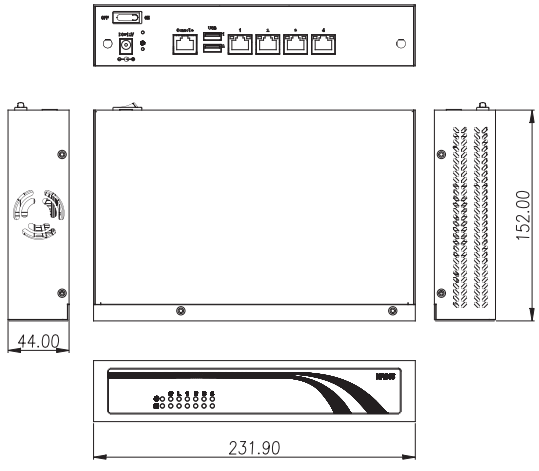
Optional	
5916E552000E	DB9F-RJ-45 1.8M console cable for Cisco

* Specifications and certifications may vary based on different requirements.

Packing List

1 x DC power adapter 12V/5A
1 x Power cord
1 x SATA cable

Dimensions



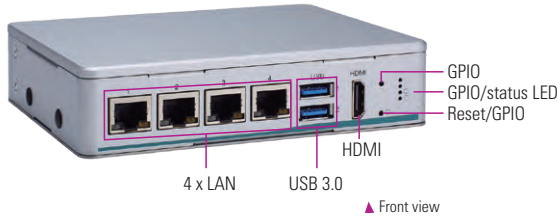
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NA346 NEW

Fanless SFF Network Appliance Platform with Intel® Atom® x5-E3930 Processor/ Celeron® Processor N3350 and 4 LAN

Features

- Small form factor with fanless and noiseless design
- Intel® Atom® x5-E3930 processor/Celeron® Processor N3350 (Apollo Lake)
- One DDR3L-1866 SO-DIMM for up to 8GB of memory
- Four 10/100/1000 Mbps Ethernet ports (Intel® i211)
- PCI Express Mini Card slot for optional
- Suitable for IoT security applications



▲ Front view



▲ Rear view

Fanless | Supports Intel Atom | Low Power | TPM | LAN Bypass | EN 60950-1 | mSATA

Specifications

System	
CPU	Intel® Atom® x5-E3930 processor (Apollo Lake) Intel® Celeron® processor N3350 (Apollo Lake)
Chipset	SoC integrated
Memory	1 x DDR3L-1866 SO-DIMM, up to 8GB non-ECC/ECC memory
BIOS	AMI SPI Flash BIOS
Storage	1 x mSATA (half type)
Network Interface	4 x 10/100/1000 Mbps Ethernet (Intel® i211)
I/O	1 x RS-232 (RJ-type) 4 x RJ-45 2 x USB 3.0 1 x HDMI
Other Features	LAN Bypass (optional)
Expansion Interface	1 x PCI Express Mini Card slot (USB interface) Remote power switch
Watchdog Timer	255 stepping for system reset
Power Supply	12V DC
OS Compatibility	Win 10, Linux (Yocto project)

Mechanical/ Environmental	
Form Factor	Desktop, small form factor and fanless
LED	Power, HDD, GPIO programmable, LAN Bypass, Link/Act with transfer rate
Operating Temperature	0°C to +40°C (+32°F to +104°F)
Humidity	10% - 95% RH, non-condensing
Chassis Material	Aluminum
Dimensions	33.5 mm (1.32") (H) x 146 mm (5.75") (W) x 118.2 mm (4.65") (D)
Weight (net/gross)	2.2 kg (4.85 lb)/2.46 kg (5.42 lb)
Certifications	FCC class B/CE class B

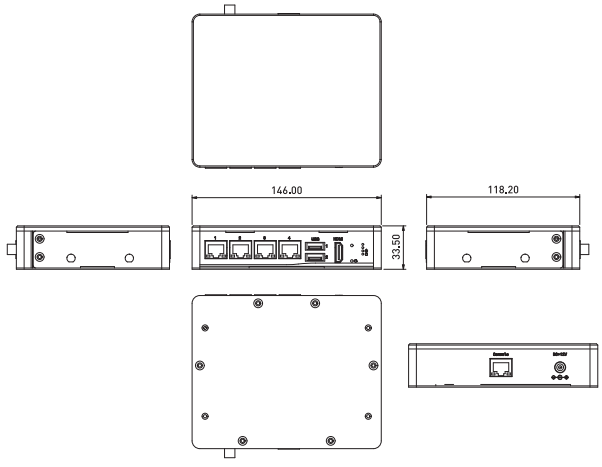
Ordering Information

Standard	
NA346-D4GI-N3350-US w/o LBP	Fanless SFF network appliance with Intel® Celeron® processor N3350 and 4 GbE LAN
NA346-D4GI-E3930-US w/o LBP	Fanless SFF network appliance with Intel® Atom® x5-E3930 processor and 4 GbE LAN

Optional	
5916E552000E	DB9F-RJ-45 1.8M console cable for Cisco

* Specifications and certifications may vary contingent on options.

Dimensions



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NA347 NEW

Desktop Network Appliance Platform with Intel® Atom® Processor (Elkhart Lake) and 6 LAN

Features

- Intel® Atom® processor, up to 12W (Elkhart Lake)
- One LPDDR4-4200 SO-DIMM for up to 32GB of memory
- Six 10/100/1000 Mbps Ethernet ports (Intel® i211)
- PCI Express Mini Card slot for optional
- Suitable for IoT security applications



▲ Front view



▲ Rear view

Fanless

Supports Intel Atom

Low Power

TPM

LAN Bypass

EN 60950-1

mSATA

Specifications

System	
CPU	Intel® Atom® processor, up to 12W (Elkhart Lake)
Chipset	SoC integrated
Memory	1 x LPDDR4-4200 SO-DIMM, up to 32GB non-ECC/ECC memory
BIOS	AMI SPI Flash BIOS
Storage	1 x 2.5" HDD (optional) 1 x eMMC (optional) 1 x mSATA (optional)
Network Interface	6 x 10/100/1000 Mbps Ethernet (Intel® i211, 3-port w/ TSN MACs)
I/O	4 x RJ-45 2 x USB 2.0 1 x HDMI
Other Features	LAN Bypass (optional)
Expansion Interface	1 x PCI Express Mini Card Slot (USB+PCIe interface) 1 x PCI Express Mini Card Slot (SATA+USB interface)
Watchdog Timer	255 stepping for system reset
Power Supply	12V DC
OS Compatibility	Win 10, Linux (Yocto project)

Mechanical/ Environmental	
Form Factor	1U desktop
LED	Power, HDD, GPIO programmable, LAN Bypass, Link/Act with transfer rate
Operating Temperature	0°C to +40°C (+32°F to +104°F)
Humidity	10% - 95% RH, non-condensing
Chassis Material	Aluminum
Dimensions	44 x 231.9 x 152 mm (1.73" x 9" x 5.95")
Weight (net/gross)	2.35 kg (5.18 lb)/2.61 kg (5.75 lb)
Certifications	FCC class B/CE class B

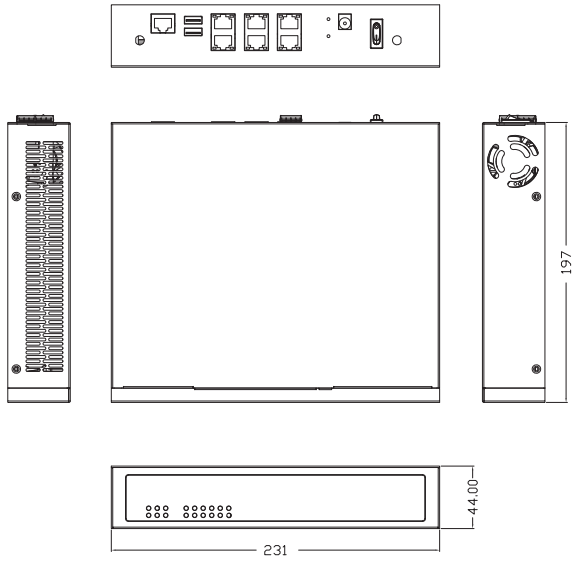
Ordering Information

Standard	
NA347-D6GI-US w/o LBP	1U compact network appliance with Intel® Atom® processor (Elkhart Lake) and 6 LAN

Optional	
5916E552000E	DB9F-RJ-45 1.8M console cable for Cisco

* Specifications and certifications may vary contingent on options.

Dimensions



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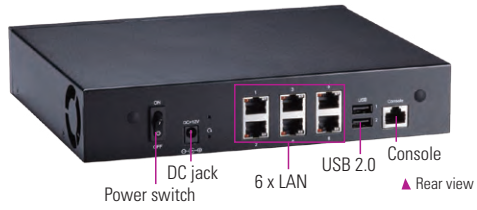
NA361

Desktop Network Appliance Platform with Intel® Atom® Processor C2358 and 6 LAN

Features

- Intel® Atom® processor C2358 (Rangeley)
- Two DDR3-1600 U-DIMM for up to 16GB of memory
- Six 10/100/1000 Mbps Ethernet ports (Intel® i354 & Intel® i210)
- Wi-Fi/3G/LTE through PCI Express Mini Card for optional
- Supports Intel® QuickAssist Technology
- Supports Intel® Data Plane Development Kit (Intel® DPDK)
- Suitable for VPN, network bandwidth controller, firewall and UTM applications





Supports Intel Atom | Low Power | TPM | LAN Bypass | EN 60950-1

Specifications

System	
CPU	Intel® Atom® processor C2358 (2-core) (Rangeley)
Chipset	SoC integrated
Memory	2 x DDR3-1600 U-DIMM, up to 16GB non-buffer non-ECC/ ECC memory
BIOS	AMI SPI Flash BIOS
Storage	1 x 2.5" SATA HDD 1 x CompactFlash™ type-II 1 x mSATA (optional) 1 x CFast™ (optional)
Network Interface	6 x 10/100/1000 Mbps Ethernet (Intel® i354 & Intel® i210) 4 x RJ-45 + 2 x SFP (optional)
I/O	1 x RS-232 (RJ-type) 2 x USB 2.0 6 x RJ-45
Other Features	LAN Bypass function through latch relay (two pairs) for optional
Expansion Interface	1 x PCI Express Mini Card slot with USB interface
Watchdog Timer	255 stepping for system reset 8 stepping for LAN Bypass
Power Supply	1 x 12V, 5A power adapter
OS Compatibility	Yocto, Linux

Mechanical/ Environmental	
Form Factor	1U desktop
LED	Power, HDD, GPIO programmable, LAN Bypass, Link/Act with transfer rate
Operating Temperature	0°C to +40°C (+32°F to +104°F)
Humidity	10% - 95% RH, non-condensing
Chassis Material	Steel
Dimensions	44 mm (1.73") (H) x 231 mm (9.09") (W) x 197 mm (7.76")
Weight (net/gross)	2.35 kg (5.18 lb)/2.61 kg (5.75 lb)
Certifications	FCC class B/CE class B

Ordering Information

Standard	
NA361-D6GI-2358-US (P/N: E26E361100)	1U compact network appliance with Intel® Atom® processor C2358 and 6 GbE LAN
NA361-D6GI-2358-US w/ LBP (P/N: E26E361101)	1U compact network appliance with Intel® Atom® processor C2358, 6 GbE LAN and LAN Bypass

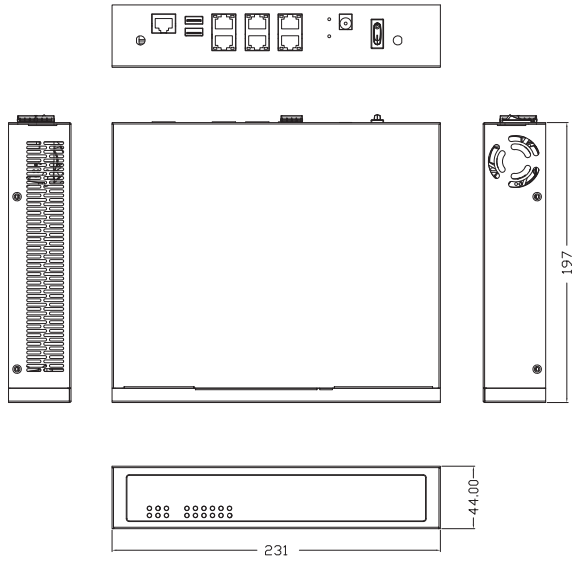
Optional	
5916E552000E	DB9F-RJ-45 1.8M console cable for Cisco

* Specifications and certifications may vary based on different requirements.

Packing List

1 x DC power adapter 12V/5A
1 x Power cord
1 x SATA cable

Dimensions



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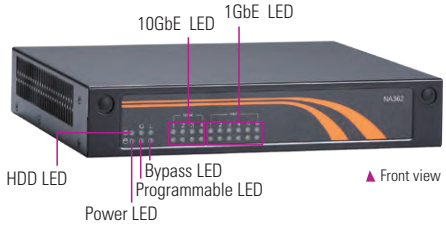
NA362

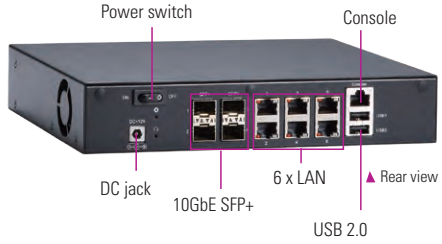
Desktop Network Appliance Platform with Intel® Atom® Processor C3338/C3558/C3758 and up to 10 LAN

Features

- Intel® Atom® processor C3338/C3558/C3758 (Denverton)
- Four DDR4 R-DIMM for up to 128GB of memory or U-DIMM for up to 64GB of memory
- Six 10/100/1000 Mbps Ethernet ports and four SFP+ ports
- Wi-Fi/3G/LTE through PCI Express Mini Card slot for optional
- Supports Intel® QuickAssist Technology
- Supports Intel® Data Plane Development Kit (Intel® DPDK)
- Suitable for VPN, network bandwidth controller, firewall and UTM applications







Specifications

System	
CPU	Intel® Atom® processor C3338/C3558/C3758 (Denverton)
Chipset	SoC integrated
Memory	4 x DDR4 R-DIMM, up to 128GB/U-DIMM, up to 64GB non-buffer non-ECC/ECC memory (Atom® C3558/C3758) 2 x DDR4 R-DIMM, up to 64GB/U-DIMM, up to 32GB non-buffer non-ECC/ECC memory (Atom® C3338)
BIOS	AMI SPI Flash BIOS
Storage	1 x 2.5" SATA3 HDD 1 x mSATA
Network Interface	6 x 10/100/1000 Mbps Ethernet (Intel® i210) (Atom® C3338) 6 x 10/100/1000 Mbps Ethernet (Intel® i210) and 2 x 10GbE SFP+ (Atom® C3558) 6 x 10/100/1000 Mbps Ethernet (Intel® i210) and 4 x 10GbE SFP+ (Atom® C3758)
I/O	1 x RS-232 (RJ-type) 2 x USB 2.0 6 x RJ-45 2 x SFP+ or 4 x SFP+
Other Features	LAN Bypass function through latch relay (one pair) for optional
Expansion Interface	1 x PCI Express Mini Card slot (PCIe interface)
Watchdog Timer	255 stepping for system reset 8 stepping for LAN Bypass
Power Supply	1 x 12V, 5A power adapter (Atom® C3338/C3558) 1 x 12V, 7A power adapter (Atom® C3758)
OS Compatibility	Yocto, Linux

Mechanical/ Environmental	
Form Factor	1U desktop
LED	Power, HDD, GPIO programmable, LAN Bypass, Link/Act with transfer rate
Operating Temperature	0°C to +40°C (+32°F to +104°F)
Humidity	10% - 95% RH, non-condensing
Chassis Material	Steel
Dimensions	44 mm (1.73") (H) x 231 mm (9.09") (W) x 197 mm (7.76") (D)
Weight (net/gross)	1.64 kg (3.62 lb)/2.54 kg (5.60 lb) with 12V/5A adapter Atom® (C3338/C3558) 1.64 kg (3.62 lb)/2.69 kg (5.93 lb) with 12V/7A adapter Atom® (C3758)
Certifications	FCC class B/CE class B

Packing List

1 x DC power adapter 12V/5A or 12V/7A
1 x Power cord
1 x SATA cable

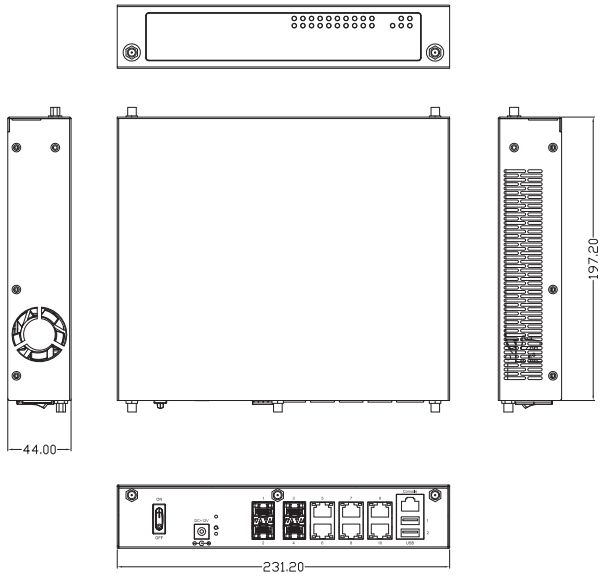
Ordering Information

Standard	
NA362-D6GI-C3338-US w/o LBP (P/N: E26E362102)	1U compact network appliance with Intel® Atom® processor C3338, 2 R-DIMM/U-DIMM and 6 GbE LAN
NA362-D6GI-C3558-US w/o LBP (P/N: E26E362100)	1U compact network appliance with Intel® Atom® processor C3558, 4 R-DIMM/U-DIMM and 6 GbE LAN
NA362-D8MI-C3558-US w/o LBP (P/N: E26E362105)	1U compact network appliance with Intel® Atom® processor C3558, 4 R-DIMM/U-DIMM, 6 GbE LAN and 2 10GbE SFP+ ports
NA362-DAMI-C3758-US w/ LBP (P/N: E26E362101)	1U compact network appliance with Intel® Atom® processor C3758, 4 R-DIMM/U-DIMM, 6 GbE LAN and 4 10GbE SFP+ ports

Optional	
5916E552000E	DB9F-RJ-45 1.8M console cable for Cisco

* Specifications and certifications may vary based on different requirements.

Dimensions



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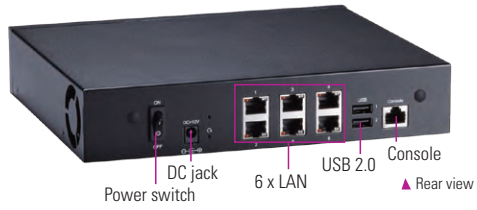
NA363

Desktop Network Appliance Platform with Intel® Atom® Processor C3758 and up to 6 LAN

Features

- Intel® Atom® processor C3758 (Denverton)
- Four DDR4 R-DIMM for up to 128GB of memory or U-DIMM for up to 64GB of memory
- Six 10/100/1000 Mbps Ethernet ports
- Wi-Fi/3G/LTE through PCI Express Mini Card slot for optional
- Supports Intel® QuickAssist Technology
- Supports Intel® Data Plane Development Kit (Intel® DPDK)
- Suitable for VPN, network bandwidth controller, firewall and UTM applications





Supports Intel Atom inside | Low Power | TPM | LAN Bypass | EN 60950-1 | mSATA | DDR4

Specifications

System	
CPU	Intel® Atom® processor C3758 (Denverton)
Chipset	SoC integrated
Memory	4 x DDR4 R-DIMM, up to 128GB/U-DIMM, up to 64GB non-buffer non-ECC/ECC memory
BIOS	AMI SPI Flash BIOS
Storage	1 x 2.5" SATA3 HDD 1 x mSATA
Network Interface	6 x 10/100/1000 Mbps Ethernet (Intel® i210)
I/O	1 x RS-232 (RJ-type) 1 x VGA (from AX93329) 2 x USB 2.0
Other Features	LAN Bypass function through latch relay (two pairs)
Expansion Interface	1 x PCI Express Mini Card slot (SATA+USB interface)
Watchdog Timer	255 stepping for system reset 8 stepping for LAN Bypass
Power Supply	1 x 12V, 7A power adapter
OS Compatibility	Yocto, Linux

Mechanical/ Environmental	
Form Factor	1U desktop
LED	Power, HDD, GPIO programmable, LAN Bypass, Link/Act with transfer rate
Operating Temperature	0°C to +40°C (+32°F to +104°F)
Humidity	10% - 95% RH, non-condensing
Chassis Material	Steel
Dimensions	44 mm (1.73") (H) x 231 mm (9.09") (W) x 197 mm (7.76") (D)
Weight (net/gross)	1.64 kg (3.62 lb)/2.69 kg (5.93 lb) with 12V/7A adapter Atom®
Certifications	FCC class B/CE class B

Packing List

1 x DC power adapter or 12V/7A
1 x Power cord
1 x SATA cable

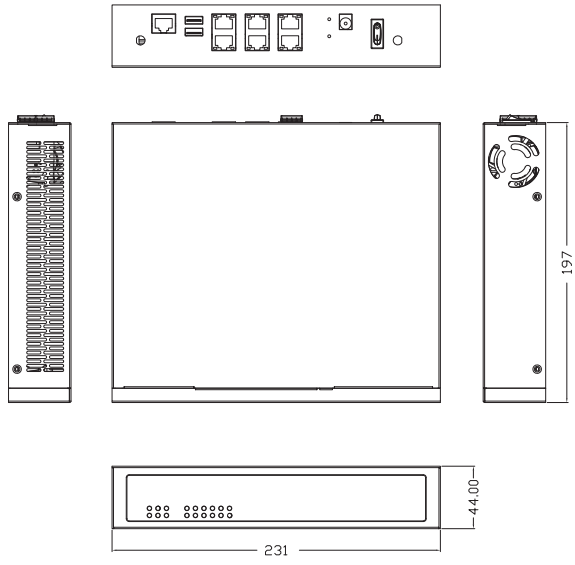
Ordering Information

Standard	
NA363-D6GI-C3758-US w/ LBP	1U compact network appliance with Intel® Atom® processor C3758, 4 R-DIMM/U-DIMM and 6 GbE LAN

Optional	
5916E552000E	DB9F-RJ-45 1.8M console cable for Cisco

* Specifications and certifications may vary based on different requirements.

Dimensions



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3 DIN-rail Network Appliances

The increasing prevalence of the Internet of things (IoT) today means that previously closed systems need to be made open to remote access and control. Axiomtek's ICS (industrial control system) network appliances platforms, available in a complete range of din-rail and wall mount form factors, can be applied to critical infrastructure projects to achieve optimal integration between IoT and Operational Technologies (OT).

	Selection Guide		427
NEW	iNA260	DIN-rail Industrial-grade Network Appliance with Intel® Atom® Processor and up to 10 LAN	428
NEW	iNA600	DIN-rail ndustrial-grade Network Appliance with Intel® Xeon® Processor and 16-port L2 Managed Switch	429

Edge Server Platforms

Selection Guide

NEW



NEW



Features \ Models		iNA260	iNA600
Form Factor		DIN-rail	2U compact
Processor		Intel® Atom® C3808 Intel® Atom® C3708	LGA1151 Intel® Xeon® (Coffee Lake)
Chipset		SoC integrated	Intel® C246
BIOS		AMI SPI Flash BIOS	AMI SPI Flash BIOS
Memory	**Technology**	DDR4-2400	DDR4-2400
	Max Capacity	64GB non-ECC/ECC	64GB non-ECC/ECC
	Socket	2 x 288-pin SO-DIMM	4 x 288-pin R-DIMM
Network Interface	**Switch**	N/A	24 port managed switch
	Ethernet	6 x 10/100/1000Mbps (default) and 2 x 10G SFP+ (depend on CPU)	4 x 10/100/1000 Mbps Ethernet (1-port share with IPMI) 16 x 10/100/1000 Mbps Ethernet (L2 managed switch)
Storage		2 x 2.5" SATA3 HDD 1 x mSATA	2 x 2.5" SSD 1 x SATA DOM
I/O	**Serial**	1 x RS-232/422/485 1 x RS-232	1 x RS-232/422/485
	USB	2 x USB 2.0	2 x USB 3.0
	Management	N/A	1 x RJ-45 management port
	Display	N/A	1 x HDMI
Expansion Interface		1 x Mini Card slot 1 x SIM socket for 3G (optional) 1 x M.2 for Key M or Key E 2280	1 x PCIe Mini Card slot (USB + PCIe interface) 1 x PCIe x8 MXM slot for GPU card (optional) 2 x PCIe x8 M.2 or mPCIe slot for VPU (optional)
IPMI		N/A	IPMI 2.0
TPM		TPM 2.0	TPM 2.0
Fanless		Yes	Yes
Power Supply		+9 to 36V (dual 2-pin terminal block)	24 VDC
Operating Temperature		-20°C to +60°C (-4°F to +140°F)	0°C to +60°C (+32°F to +140°F)
OS Support		Yocto, Linux	Win 10, Linux
Dimensions (H x W x D)		180 x 150 x 88 mm (7.09" x 5.91" x 3.46")	176" x 200 x 235 mm (6.93" x 7.87" x 9.25")
Certifications		CE/FCC class B	CE/FCC

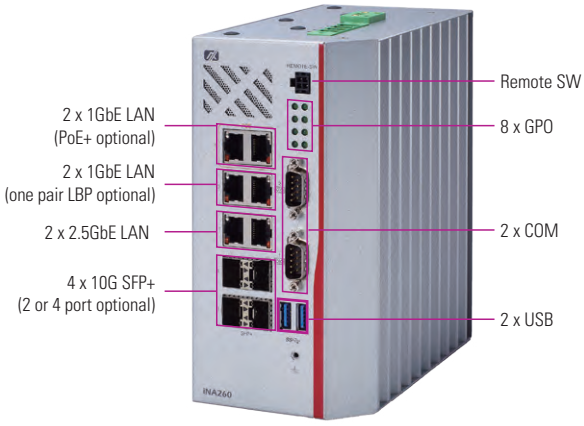
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iNA260 NEW

DIN-rail Industrial-grade Network Appliance with Intel® Atom® Processor and up to 10 LAN

Features

- Intel® Atom® processor C3558/C3708/C3808 (Denverton)
- 2 DDR4 SO-DIMM for up to 64GB of memory
- Six 10/100/1000 Mbps Ethernet ports and max up to four SFP+ ports
- Supports Intel® Quick Assist Technology (Intel® QAT)
- Supports Intel® Data Plane Development kit (Intel® DPDK)
- Supports RS-232/422/485 COM port with ESD protection
- Suitable IIoT cybersecurity, critical infrastructure protection



Fanless | Low Power | TPM | LAN Bypass | EN 60950-1 | mSATA | DDR4

Specifications

System	
CPU	Intel® Atom® processor C3558/C3708/C3808 (Denverton)
Chipset	SoC integrated
Memory	2 x 260-pin DDR4 SO-DIMM, up to 64GB memory
BIOS	AMI SPI Flash BIOS
Storage	1 x 2.5" SATA3 HDD M.2 slot for Key B 2280
Network Interface	4 x 10/100/1000 Mbps Ethernet & 2 x 2.5GbE & 2 x 10GbE SFP+ (Atom® C3558) 4 x 10/100/1000 Mbps Ethernet & 2 x 2.5GbE & 2 x 10GbE SFP+ (Atom® C3708/C3808)
I/O	1 x RS-232/422/485 1 x RS-232 2 x USB 2.0
Other Features	LAN Bypass function through latch relay (one pair) for optional
Expansion Interface	1 x Mini Card slot 1 x SIM socket for 3G (optional) 1 x M.2 for Key M or Key E 2280
Watchdog Timer	255 stepping for system reset 8 stepping for LAN Bypass
Power Supply	2 x 2-pin terminal block +9 to 36V
OS Compatibility	Yocto, Linux

Mechanical/ Environmental	
Form Factor	DIN-rail/desktop
LED	Power, HDD, GPIO programmable, LAN Bypass, Link/Act with transfer rate
Operating Temperature	-20°C to +60°C (-4°F to +140°F)
Humidity	10% to 95% RH, non-condensing
Chassis Material	Steel
Dimensions	88 mm (3.5") (W) x 150 mm (5.9") (D) x 180 mm (7.08") (H)
Weight (net/gross)	3 kg (6.6 lb)
Certifications	FCC class B/CE class B

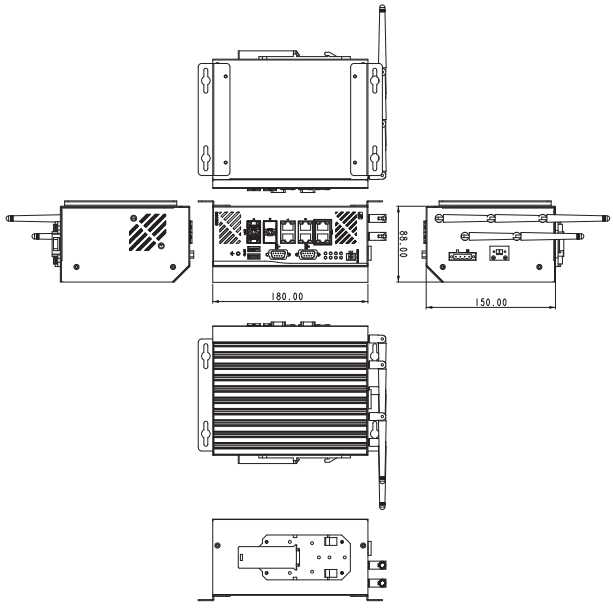
Packing List

1 x SATA cable

Ordering Information

Standard	
iNA260-D8MI-C3558-US (P/N: E26E260100)	DIN-rail industrial-grade network appliance with Intel® Atom® processor C3558 and up to 8 LAN

Dimensions



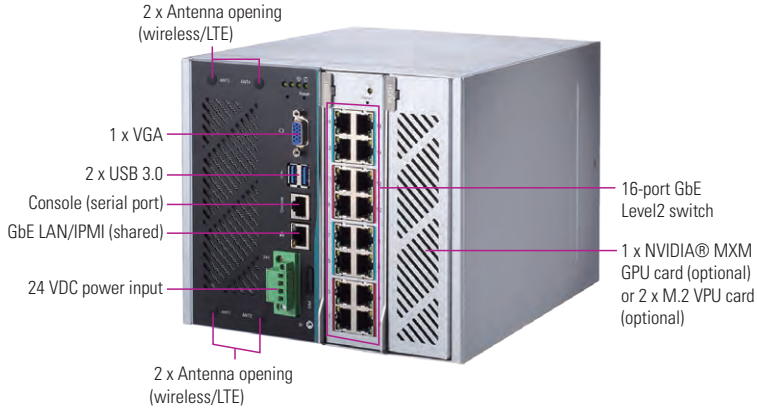
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iNA600 NEW

DIN-rail Industrial-grade Network Appliance with Intel® Xeon® Processor and 16-port L2 Managed Switch

Features

- Intel® Xeon® processor (Coffee Lake)
- 2 DDR4-2666 U-DIMM for up to 32GB of memory
- 16 ports L2 managed switch
- Supports NVIDIA® MXM GPU card
- Supports Intel® Movidius™ M.2 VPU card
- Supports IPMI 2.0 remote management
- Module design for flexible and fast provision
- 2 SATA with RAID 0/1
- For edge AI inference, IIoT security and function virtualization



IPMI | TPM | EN 60950-1 | DDR4 | Swiching | SSD | AI Inference

Specifications

System	
CPU	LGA1151 Intel® Xeon® processor (Coffee Lake)
Chipset	Intel® C246
Memory	DDR4-2666 U-DIMM, up to 32GB non-ECC/ECC memory
BIOS	AMI SPI Flash BIOS
Storage	2 x 2.5" SATA 3.0 SSD 1 x SATA DOM
Network Interface	4 x 10/100/1000 Mbps Ethernet (1-port share with IPMI) 16 x 10/100/1000 Mbps Ethernet (L2 managed switch)
I/O	1 x HDMI 2 x USB 3.0 2 x COM (RS-232/422/485) 2 x Tack switch 2 x Antenna hole 1 x Power input connector
Expansion Interface	1 x PCIe Mini Card slot (USB + PCIe interface) 1 x PCIe x8 MXM slot for GPU card (optional) 2 x PCIe x8 M.2 or mPCIe slot for VPU (optional)
IPMI	1 x IPMI 2.0
Watchdog Timer	255 stepping for system reset
Power Supply	24 VDC
OS Compatibility	Win 10, Linux

Mechanical/ Environmental	
Form Factor	DIN-rail
LED	Power, HDD/SSD, GPO x2
Operating Temperature	0°C to +60°C (+32°F to +140°F)
Humidity	10% to 95% RH, non-condensing
Chassis Material	Steel
Dimensions	200 mm (7.87") (W) x 235 mm (9.25") (D) x 176 mm (6.93") (H)
Weight (net/gross)	5 kg (11.02 lb)/5.5 kg (12.12 lb)
Certifications	CE/FCC class A

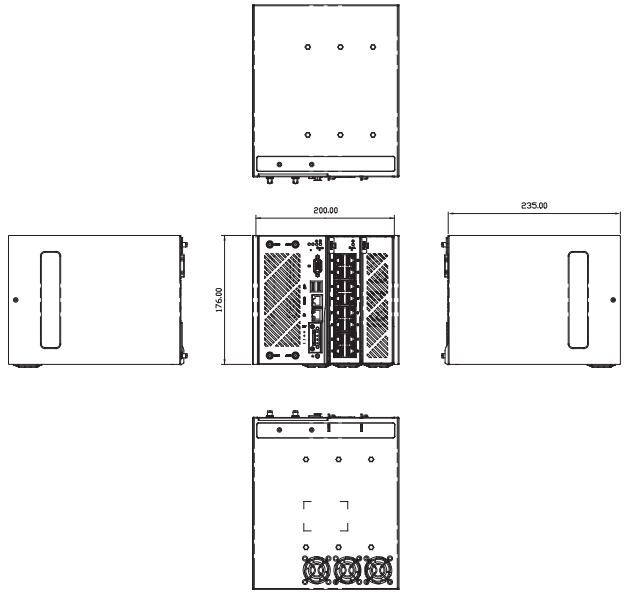
Ordering Information

Standard	
iNA600	DIN-rail Industrial-grade network appliance with Intel® Xeon® processor and 16-port L2 managed switch

Optional	
M3N1030-JN	NVIDIA® Pascal™ MXM 3.1 Type A GeForce® GT1030 module
M3N1050-LN	NVIDIA® Pascal™ MXM 3.1 Type A GeForce® GTX1050 module
M3N1050TI-LN	NVIDIA® Pascal™ MXM 3.1 Type A GeForce® GTX1050 Ti module

* Specifications and certifications may vary based on different requirements.

Dimensions



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