2021

PRODUCT
Solution Guide

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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.

Digital Security Surveillance

Power & Energy

Network Security

Industrial Automation

Systems and Platforms

Empowering IoT Innovation

Medical/Healthcare

Industrial Panel PC

Boards and Modules

Gaming Industry

Self-service Solutions

Retail/ Digital Signage

Transportation
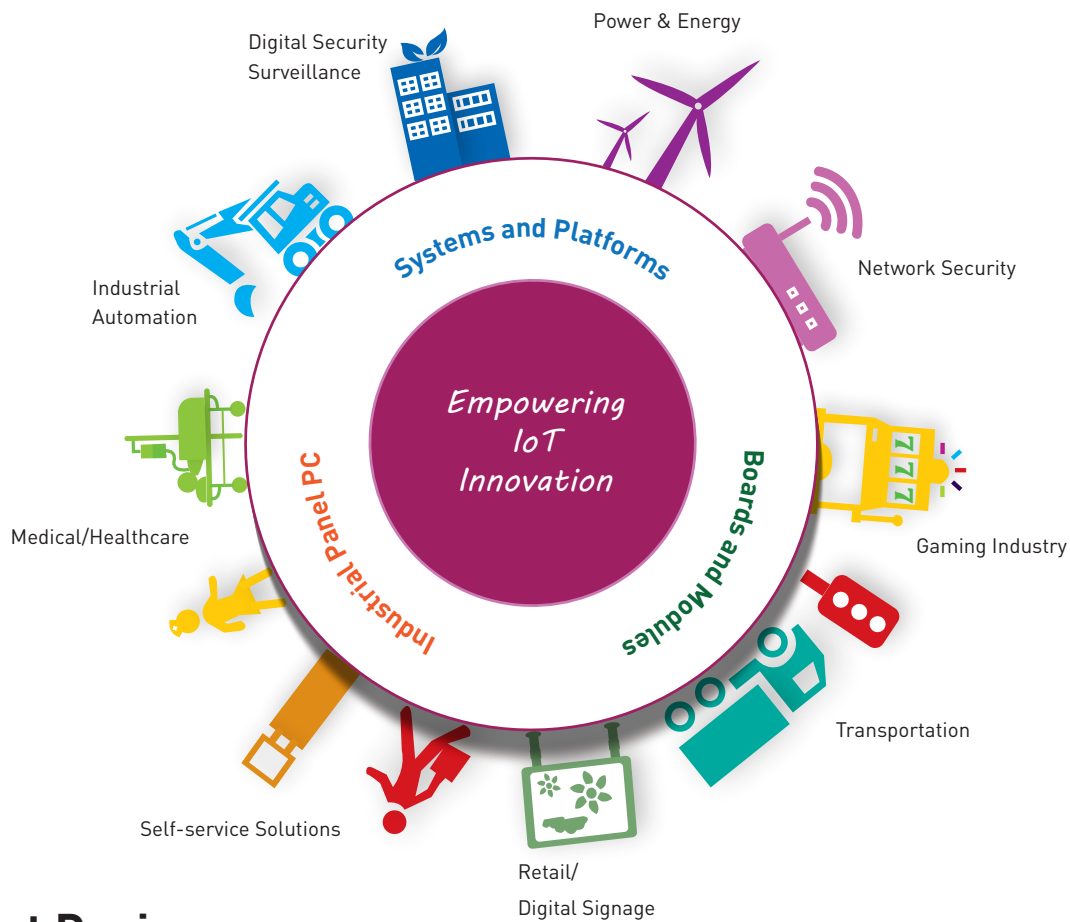
Product Design

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 certified for rolling-stock and railway applications
- 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 certified for power grid and substations
- Intel® OPS and Intel OPS+ signage player for retail applications
- EN 50155/EN 50121-4/EN 45545 certified for rolling-stock and railway management
- E-Mark and ISO 7637 certified for in-vehicle applications
- IEC 60945/DNV 2.4 certified for marine
- Intelligent remote management solution for IIoT (AMS.AXView)
- ATEX and C1D2 certified for anti-explosion

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.

Manchester, **United Kingdom**

Langenfeld, **Germany**

Las Vegas, **USA**

California, **USA**

Massachusetts, **USA**

Italy

Beijing, **China**

Shanghai, **China**

Shenzhen, **China**

Tokyo, **Japan**

Taipei, Taiwan
(Headquarters)

Thailand

Malaysia

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.
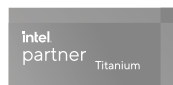
Strategic Business Focus

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

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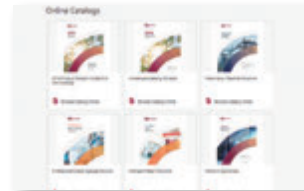
Here, you can find our environmentally-friendly paperless online catalogs and videos for additional product information.

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!

New Product
Highlights

3.5" Embedded Board

CAPA55R >>Page 52

3.5" Embedded SBC with 11 Gen Intel® Core™
i7/i5/i3, Celeron® Processor, DisplayPort++,
HDMI, LVDS, 1 GbE LAN and 2.5 GbE LAN

- 11th gen Intel® Core™ i7/i5/i3 & Celeron® processor
- 2 DDR4 SO-DIMM for up to 64GB of memory
- 1 GbE LAN and 1 2.5GbE LAN
- 3 M.2 expansion slot

Coming soon

Pico-ITX SBC

PICO52R >>Page 60

Pico-ITX SBC with 8th Gen Intel® Core™
i7/i5/i3 & Celeron Processor, DisplayPort,
HDMI, LVDS and 2 GbE LAN

- 8th gen Intel® Core™ i7/i5/i3 and Celeron® processor
- 1 DDR4 SO-DIMM for up to 16GB of memory
- 2 USB 2.0 and 2 USB 3.0
- 2 GbE LAN
- M.2 Key E
- Intel® AMT 11 supported

Embedded Vision Board

MIRU130 >>Page 66

Machine Vision SBC with AMD Ryzen™
Embedded V1807B and V1605B APU,
DisplayPort, HDMI, 2 GbE LAN, 2 IEEE
802.3at PoE GbE LAN and Vision-specific I/O

- AMD Ryzen™ Embedded V1807B and V1605B APU
- 2 DDR4 SO-DIMM for up to 16GB of memory
- 2 GbE LAN and 2 IEEE 802.3at PoE GbE LAN
- 2-CH camera trigger outputs
- 2-CH LED lighting control
- CH incremental quadrature encoder input
- 4 isolated DIO

Mini-ITX Motherboards

MANO526

Mini-ITX SBC with LGA1151 9th/8th Gen Intel® Core™ Processor, Intel® Q370, VGA, DisplayPort++, eDP, 2 GbE LAN and HD Audio

- 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

MANO540

Mini-ITX SBC with LGA1200 10th Gen Intel® Core™ i9/i7/i5/i3 Processor, VGA/DisplayPort/HDMI/eDP, 2GbE LAN and Audio

- LGA1200 10th gen Intel® Core™ i9/i7/i5/i3 processor
- Intel® H410 chipset
- 2 DDR4 SO-DIMM for up to 64GB of memory
- 4 USB 3.2 Gen1 and 1 USB 2.0 ports
- 6 COM ports

ATX Motherboards

IMB525R

ATX Motherboard with LGA1151 Socket 9th/8th Gen Intel® Core™ Processor, Intel® C246, USB 3.1 Gen, SATA 3.0, Dual LAN, VGA, DisplayPort, DVI-D, and HDMI

- LGA1151 socket 9th/8th gen Intel® Core™ i7/i5/i3, Xeon® E, Pentium® or Celeron® processor (Coffee Lake Refresh)
- Four 288-pin DDR4-2666/2400 ECC DIMM for up to 128GB of memory
- DisplayPort, DVI-D, HDMI and VGA with triple-view supported
- 5 SATA-600 with RAID 0/1/5/10
- 1 PCI Express Mini Card slot
- 2 USB 3.1 Gen2 and four USB 3.1 Gen1
- TPM 2.0 supported (optional)

IMB524R

ATX Motherboard with LGA1151 Socket 9th/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

- LGA1151 socket 9th/8th gen Intel® Core™ i7/i5/i3, Pentium® & Celeron® processor (Coffee Lake Refresh)
- Two 288-pin DDR4-2666/2400 DIMM for up to 64GB of memory
- DisplayPort++, DVI-D, HDMI and VGA with dual-view supported
- 4 SATA-600
- 1 PCI Express Mini Card slot
- 4 USB 3.1 Gen1 and 5 USB 2.0
- TPM 2.0 supported (optional)

IMB523R

ATX Motherboard with LGA1151 Socket 9th/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

- LGA1151 socket 9th/8th gen Intel® Core™ i7/i5/i3, Pentium® & Celeron® processor (Coffee Lake Refresh)
- Four 288-pin DDR4-2666/2400 DIMM for up to 128GB of memory
- DisplayPort, DVI-D, HDMI and VGA with triple-view supported
- 5 SATA-600 with RAID 0/1/5/10
- 1 PCI Express Mini Card slot
- Two USB 3.1 Gen2 and four USB 3.1 Gen1
- TPM 2.0 supported (optional)

ATX Motherboards

IMB700 >>Page 82

ATX Motherboard with LGA4189 Socket Intel® Xeon® Scalable Processor, Intel® C621A, 3 PCIe x16, 3 PCIe x8, VGA, NVMe

- Intel® Xeon® Scalable Ice Lake-SP platform
- Six 288-pin DDR4-3200 RDIMM, LRDIMM for up to 384GB of memory
- 3 PCIe x16, 3 PCIe x8
- Supports M.2 Key M
- TPM 2.0 supported (optional)
- Supports multiple graphic cards
- Supports internal USB dongle

IMB530 >>Page 83

ATX Motherboard with LGA1200 Socket 10th Gen Intel® Core™ i9/i7/i5/i3, Xeon® E Processor, Intel® W480E, ECC DDR4, USB 3.2 Gen2, NVMe, Dual LAN, VGA, DisplayPort++, DVI-D, and HDMI

- LGA1200 socket 10th gen Intel® Core™ i9/i7/i5/i3, Xeon® E, Pentium® or Celeron® processor (Comet Lake)
- Four 288-pin DDR4-2933 ECC/non-ECC un-buffered Long-DIMM, up to 128GB
- DisplayPort++, VGA, DVI-D and HDMI with triple-view supported
- Supports M.2 Key M 2280
- 2 USB 3.2 Gen2 and 4 USB 3.2 Gen1
- TPM 2.0 supported (optional)

Slot CPU Cards

SHB150R >>Page 87

PICMG 1.3 Full-size CPU Card with LGA1151 9th/8th Gen Intel® Core™ Processor, Intel® C246/Q370/H310, SATA3, USB 3.1 Gen1/Gen2, Dual LAN and DVI-I

- 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 Long-DIMM for up to 64GB of memory
- Supports Intel® AMT and vPro (C246/Q370)
- TPM 2.0 supported (optional)
- Supports M.2 Key M (C246/Q370)

SHB250R >>Page 88

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

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

ARM-based Embedded Board

SCM180 >>Page 92

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

- 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

PCI Express Cards

AX92324 >>Page 104

2-port 10GbE PoE PCI Express Card

- Intel® Ethernet Controller X550-AT2, up to 10 Gbps data rate
- Supports 15.5KB Jumbo Frame and IEEE 1588
- Compliant with IEEE802.3at to deliver 25.5W per port
- PCI Express x4 compliant
- PoE power on/off via Power Manager software and API
- Operating temperature range from 0°C to 55°C
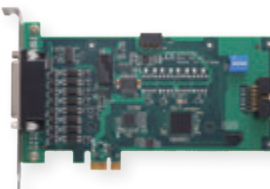
AX92352 >>Page 106

2-CH Encoder Card with Real-time trigger I/O

- Synchronizes devices via real-time I/O
- Applied to area scan and line scan applications
- Integrates multiple I/O
  - 2-CH 32-bit incremental quadrature encoder input
  - 4-CH trigger input
  - 4-CH trigger output
  - 8-CH isolated DI, 8-CH isolated DO
- Programmable interrupt functions
- PCI Express x1 compliant

AX92353 >>Page 107

4-CH Lighting Control Module

- 4-CH independent constant current LED drivers (up to 1 A)
- Supports strobe and trigger mode
- Intensity control by software
- Supports duration and delay time for LED output

Embedded Systems

eBOX560-52R-FL >>Page 127

Fanless Embedded System with Intel® Core™ i5-8665UE/8365UE/Celeron®4305UE, HDMI/DisplayPort, 2 GbE LAN, 2 COM, 2 USB 3.0, 2 USB 3.0 and 12VDC Power Input

- Intel® Whisky Lake-U processor onboard
- M.2 Key E 2230 for Wi-Fi
- 260-pin DDR4-2400 SO-DIMM max. up to 32GB
- Supports 2 COM , 4 USB and dual view
- Multiple mounting designs: Wall mount, DIN-rail and VESA mount

Coming soon

eBOX630-528-FL >>Page 137

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

- 8th gen Intel® Core™ i7/i5/i3 & Celeron® ULT processor (Whiskey Lake-U)
- Dual Channel DDR4 2400 SO-DIMM up to 64GB memory
- Supports 2 HDMI, VGA, 3 GbE LAN, 4 COM and 6 USB
- Trusted platform module (TPM 2.0 onboard)
- Fanless -40°C to +70°C* operating temperature
- 9 to 36 VDC wide range DC power input
- AMS.AXView intelligent remote monitoring software supported

Edge AI Systems

AIE100-903-FL >>Page 153

Fanless Edge AI System with NVIDIA® Jetson Nano™ SoM, 1 HDMI, 1 GbE LAN, 1 GbE PoE and 2 USB

- NVIDIA® Jetson Nano™ with Maxwell™ GPU architecture with 128 NVIDIA CUDA® cores
- High AI computing performance for GPU-accelerated processing
- Ideal for edge AI smart city applications
- Optional IP42 cover kit for semi-outdoor applications
- Supports one 15W GbE PoE for camera
- Wide operating temperature from -30°C to +60°C
- JetPack supported

AIE100-903-FL-NX >>Page 154

Fanless Edge AI System with NVIDIA® Jetson Xavier™ NX SoM, 1 HDMI, 1 GbE LAN, 1 GbE PoE and 2 USB, Remote Management Service Empowered by Allxon

- NVIDIA® Jetson Xavier™ NX with Volta™ GPU architecture with 384 NVIDIA CUDA® cores
- High AI computing performance for GPU-accelerated processing
- Ideal for edge AI smart city applications
- Supports one 15W GbE PoE for camera
- Wide operating temperature from -30°C to +50°C
- JetPack supported
- Supports 24/7 secure remote monitoring, control, and OTA deployment empowered by Allxon

AIE900-902-FL >>Page 156

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

- NVIDIA® Jetson AGX 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 PCIe x4 SSD slot
- Wide operating temperature from -30°C to +50°C
- JetPack supported

Transportation Embedded Systems

tBOX510-518-FL

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

- CE, LVD, FCC, and EN 50155 certified and EN 50124 compliant
- 7th gen Intel® Core™ i7/i5/i3 or Celeron® processor (Kaby Lake)
- Fanless and wide operating temperatures from -40°C to +70°C
- Compact size with 1 PIM (Plug-in I/O Module) slot for various I/O requirements
- 24 to 110 VDC wide range power input for railway applications
- Single-sided I/O design for easy maintenance
- OVP, UVP, OCP, RPP power protection design

UST200-83H-FL

Robust and Compact DIN-rail Fanless Embedded System with Intel® Atom® x5-E3930 Processor for In-Vehicle Gateway Application

- CE, FCC certified; ISO 7637-2 compliant
- Intel® Atom® x5-E3930 processor
- Extreme cost-effective with fanless and cableless design
- Wide operating temperature range from -40°C to +70°C
- Supports 12 & 24 VDC typical in-vehicle power input
- Smart Ignition for power on/off schedule, vehicle battery protection and different power mode
- 1 COM or CAN, 2 USB, 2 GbE LAN
- 8-bit programmable DIO for IoT gateway applications
- Supports SocketCAN
- AMS.AXView intelligent remote monitoring

UST210-83K-FL

Robust and Compact DIN-rail Fanless Embedded System with Intel® Atom® x5-E3940 Processor for In-Vehicle Gateway Application

- CE, FCC certified; ISO 7637-2 compliant
- Intel® Atom® x5-E3940 processor
- Extreme cost-effective with fanless and cableless design
- Wide operating temperature range from -40°C to +70°C
- Supports 9-36 VDC & 12/24 VDC typical in-vehicle power input
- Smart Ignition for power on/off schedule, vehicle battery protection and different power mode
- Support COM, CAN, USB, GbE PoE LAN
- 8-bit programmable DIO
- Supports SocketCAN
- AMS.AXView intelligent remote monitoring

UST510-52B-FL

Fanless Embedded System with 9th/8th Gen Intel® Core™, Pentium® and Celeron® Processor for Vehicle PC

- CE, FCC and E-Mark certified; EN 50155 compliant
- 9th/8th gen Intel® Core™ & Pentium® processors (LGA1151 up to 65W) with Intel® Q370
- Fanless and wide operating temperatures from -40°C to +70°C
- Up to 16 port GbE PoE by various connector type (RJ-45/ M12)
- 9 to 36 VDC power input with Smart Ignition Management
- Convenient and accessible two 2.5" SATA drives

Coming soon

DIN-rail Embedded System

ICO300-83M

Robust DIN-rail Fanless Embedded System with Intel® Atom® Processor E3930, Isolated COM, LAN and DIO with ATEX/C1D2 Certification

- Cost-effective with fanless and cableless design
- Intel® Atom® processor E3930
- 6 isolated COM, 2 USB 3.0, 3 GbE LAN
- 1 isolated DIO (8-in/8-out) for IoT applications
- Wide operating temperature range from -40°C to +75°C
- 9 to 36 VDC wide range power input
- OVP, UVP, OCP, RPP power protection design
- 2 mini-PCIe and 1 M.2 slot for expansion
- Supports 5G connectivity

Industrial Systems

IPC960-525-FL

Fanless Industrial System with LGA1151 Socket 9th/8th Gen Intel® Core™ i7/i5/i3 & Celeron® Processor, Intel® H310/Intel® Q370, and Front-access I/O

- LGA1151 Socket 9th/8th gen Intel® Core™ processor, up to 65W
- M.2 Key B slot for 5G wireless connection (optional)
- Supports RAID 0,1 (Intel® Q370)
- Supports Power-on delay function
- Supports TPM 2.0
- Supports AMT 12 (Intel® Q370)
- 2-slot/4-slot expansion kit for further expansion

IPC962-525

2-slot Industrial System with LGA1151 Socket 9th/8th Gen Intel® Core™ i7/i5/i3 & Celeron® Processor, Intel® H310/Intel® Q370, Front-access I/O, PCIe and PCI Slots

- NVIDIA® GPU card, up to 125W
- Supports NVIDIA® Tesla T4 GPU Card
- LGA1151 socket 9th/8th gen Intel® Core™ processor, up to 65W
- M.2 Key B slot for 5G wireless connection (optional)
- Supports RAID 0,1(Intel® Q370)
- Supports Power-on delay function
- Supports TPM 2.0
- Supports AMT 12 (Intel® Q370)

IPC964-525

4-slot Industrial System with LGA1151 Socket 8th/9th Gen Intel® Core™ i7/i5/i3 & Celeron® Processor, Intel® Q370, Front-access I/O, PCIe and PCI Slots

- NVIDIA® GPU card, up to 125W
- LGA1151 socket 9th/8th gen Intel® Core™ processor, up to 65W
- M.2 Key B slot for 5G wireless connection
- Supports RAID 0,1
- Supports Power-on delay function
- Supports TPM 2.0
- Supports AMT 12

Machine Vision System

MVS100-323-FL

Mini Vision System with Intel® Atom® x5-E3940 Processor, Vision I/O, 2-CH PoE and 2-CH LED Output

- Integrated real-time vision I/O
  - 2-CH trigger input
  - 2 trigger output
  - 2-CH LED lighting control
  - 4-CH isolated DIO
- Supports camera interfaces
  - 2 IEEE802.3af GbE LAN ports (PoE)
- Power input: 24 VDC
- -10°C to +55°C operating temperature range
- Supports TPM 2.0 function

Industrial Chassis

AX61135TM

1U Expandability Rackmount Chassis for ATX Motherboard

- Supports 12" x 9.6" standard ATX motherboard
- Two 4 cm system fan
- Supports 1U Flex ATX power supply
- Internal 2 x 3.5" HDD or internal 2 x 2.5" HDD

Intelligent Medical Systems

mBOX100

Medical Grade Fanless Slim System with 8th Gen Intel® Core™ i7/i5/i3 & Celeron® Processor for Smart Healthcare Applications

- 8th gen Intel® Core™ i7/i5/i3 & Celeron® processor (Whiskey Lake-U), TDP 15W
- 2 DDR4-2400 SO-DIMM for up to 64GB memory
- 1 HDMI and 1 DisplayPort with 4K UHD supported
- 2 COM & 2 GbE LAN supports 4kV isolation
- Swappable 2.5" SATAIII SSD tray with security lock
- Antimicrobial coating chassis (optional)

mBOX600

Medical Grade System with Intel® Xeon® & 8th Gen Intel® i7/i5/i3 processors for Smart Healthcare Applications

- Intel® Xeon® & 8th Gen Intel® i7/i5/i3 processors (Coffee Lake), TDP 45W
- 2 DDR4-2400 SO-DIMM for up to 64GB memory
- 1 HDMI and 2 DisplayPort++ with 4K UHD supported
- 2 COM and 2 GbE LAN supports 4kV isolation
- Supports half-size PCI Express x16 slot
- Swappable 2.5" SATAIII SSD tray with security lock
- Antimicrobial coating chassis (optional)

Intelligent Medical System

mHPC200

2U Rackmount Server with Dual Intel® Xeon® Gold 6226R Processors, Intel® C621 PCH for HPC in Medical Applications

- Dual Intel® Xeon® Gold 6226R processors
- 256GB DDR4-2666 ECC registered DIMM
- Micron 6.4TB PCIe NVMe U.2 SSD, 9300 pro series
- Supports PCIe x16 data center accelerator card
- 1200W Redundant Power ATX power supply
- Supports HDMI full HD output
- Supports dual 10G Base-T & dual SFP+

Heavy-duty Fanless Touch Panel Computers

GOT315W-521

15.6" WXGA TFT Multi-touch Panel Computer with 8th Gen Intel® Core™ i5 & Pentium® G5400T Processor

- 15.6" WXGA projected capacitive multi-touch widescreen
- Fanless design with 8th Gen Intel® Core™ i5 & Pentium® G5400T processor
- Supports WLAN module & antenna (optional)
- Supports 1 2.5" SATA HDD/SSD
- 2 LAN, 4 USB, 2 COM, 1 HDMI, 1 DP and 1 VGA
- IP65-rated aluminum front bezel
- Supports panel mount and VESA mount and wall mount

GOT3187WL-834

18.5" WXGA TFT Multi-touch Panel Computer with Intel® Celeron® Processor J1900

- 18.5" projected capacitive multi-touch wide screen
- Resolution up to FHD
- Fanless design with Intel® Celeron® Processor J1900
- 2.5" 7/9.5 mm SATA HDD & CFast™ or mSATA
- 3G, WLAN module & antennas (optional)
- 2 GbE LANs, 2 USB 3.0, 2 USB 2.0 and 2 COM
- IP65 aluminum front bezel
- Supports panel mount and optional VESA arm/desktop stand/wall mount
- 0°C to +40°C wide operating temperature range
- Adjust RS-232/422/485 setting via BIOS

GOT3217WL-845-PCT

21.5" FHD TFT Multi-touch Panel Computer with Intel® Pentium® Processor N3710

- 21.5" FHD 10-point multi-touch projected capacitive widescreen
- Fanless design with Intel® Pentium® processor N3710
- 2.5" 7/9.5 mm 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

Transportation Monitor

P718W >>Page 359

18.5" Full HD TFT LCD Railway Monitor for Passenger Information System (PIS)

- EN 50155, EN 45545 certified
- IP42-rated front bezel design
- 18.5" Full HD TFT LCD with high brightness of 500 nits
- Supports HDMI, DVI-D and VGA
- 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

Modular Panel PCs

ITC150WM >>Page 395

15.6" FHD TFT-LCD Modular Panel PC with Intel® Smart Display Module (SDM) CPU Card

- 15.6" full HD TFT-LCD
- Aspect ratio: 16:9; brightness: 300 nits
- Slim bezel shape under 40 mm thickness
- Projected capacity touch supported, 10-point touch
- Swappable Intel® SDM CPU card design
- Metal frame structure for various application
- Supports add-on modules and mounting kits (optional)

ITC210WM >>Page 397

21.5" FHD TFTLCD Slim Bezel Modular Panel PC with Intel® Smart Display Module (SDM) CPU Card

- 21.5" full HD TFT-LCD
- Aspect ratio: 16:9; brightness: 250 nits
- Slim bezel shape under 48.5 mm thickness
- Projected capacity touch supported, 10-point touch
- Swappable Intel® SDM CPU card design
- Metal frame structure for various application
- Supports add-on modules and mounting kits (optional)

Self-service Kiosk

SSK315 (REGATA Kiosk) >>Page 400

15.6" Self-Service Kiosk with Intel® Smart Display Module (SDM) CPU Card, Direct Bonding PCAP, 2D Barcode Scanner, Thermal Printer and NFC

- 15.6" optical bonding LCD with wide viewing angle; 400 nits of brightness
- Supports Intel® Smart Display Module Small (Intel® SDM-S) and Intel® Smart Display Module Large (Intel® SDM-L) with Intel® Core™ i5/i3 and Intel® Celeron® processor (Whiskey Lake)
- Push button design for easy maintenance
- Supports floor stand and counter-top stand
- Dual illuminating status LEDs
- Modular design
- All-in-one seamless design

SMB Network Appliances

NA870

2U Rackmount Network Appliance Platform with Dual LGA4189 Socket Intel® Xeon® Scalable Processors, Intel® C621A (Ice Lake-SP) and up to 66 LAN

- Dual LGA4189 socket Intel® Xeon® Scalable processors (Ice Lake-SP)
- 12 DDR4-2400 R-DIMM for up to 384GB of memory
- Max. up to 66 LAN ports
- 8 expandable LAN modules supporting 1GbE/10GbE/25GbE/40GbE/Fiber/Copper/Bypass
- Supports 2U redundant power supply
- Supports IPMI (onboard) for optional
- High computing power for SDN, NGFW, IDS, IPS and UTM applications

NA592

1U Rackmount Network Appliance Platform with LGA1200 Socket Intel® Core™/ Xeon® W-1200 Processor, Intel® W480/Q470 and up to 26 LAN

- LGA1200 socket 10th gen Intel® Core™/Xeon® W-1200 processor (Comet Lake)
- 4 DDR4-2666 U-DIMM for up to 128GB of memory
- Max. up to 26 LAN ports
- 2 expandable LAN modules supporting 1GbE/10GbE/25GbE/40GbE/Fiber/Copper/Bypass
- Supports 1U redundant power supply for optional
- Supports IPMI for optional
- Suitable for network security, cloud computing and data centers applications

SOHO Network Appliance

NA347

Fanless Ultra Compact Network Appliance with Intel® Celeron® Processor N3350 and up to 3 LAN for Entry Level SD-WAN, VPN and Security Gateway

- Intel® Celeron® processor N3350 (Apollo Lake)
- 1 DDR3L-1866 SO-DIMM for up to 8GB of non-ECC memory
- 3 GbE RJ45 ports (Intel® i211)
- 1 mini-PCIe slot for WiFi or LTE module
- 1 M.2 2242 Key B slot (SATA)
- Small form factor with fanless and noiseless design
- Suitable for SD-WAN, VPN and IOT security gateway applications

DIN-rail Network Appliance

iNA100

DIN-rail Industrial-grade Network Appliance Platform with Intel® Atom® x5-E3930 Processor and 4 LAN

- DIN-rail design with fanless and noiseless design
- Intel® Atom® x5-E3930 processor (Apollo Lake)
- One DDR3L-1866 SO-DIMM for up to 8GB of memory
- Four GbE RJ-45 (Intel® i211)
- PCI Express Mini Card slot for wireless module
- Supports 2 COM, 4 GbE LAN, 2 USB 3.0 and 1 HDMI
- Suitable ICS cybersecurity/critical infrastructure protection

NOTES

AI at the Edge: The Eye of IoT

Artificial intelligence (AI) is everywhere these days. In response to the growing needs driven by AI, Axiomtek is dedicated specifically to AI inference, GPU computing, machine learning, image processing, the artificial intelligence of things (AIoT), and much more. It delivers edge AI embedded systems in a wide range of form factors and configurations – from the low power consumption yet high-performance embedded systems to the server-grade industrial PCs – to meet the demands of various AI applications, helping our customers achieve operational improvements, increased productivity, performance boost, and efficiency gains in the domains of manufacturing, transportation, agriculture, smart cities, and retail industry.

eBOX800-900-FL
Smart City Surveillance

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The outstanding eBOX800-900-FL is powered by the NVIDIA Jetson™ TX2 module, which has a powerful 256-core NVIDIA® Pascal GPU and a hexcore ARMv8 64-bit CPU complex to deliver exceptional AI computing performance. It adopts a full IP67-rated extruded aluminum and heavy-duty steel case for dust protection and water resistance. To withstand extreme temperatures and drastic weather conditions such as lightning strikes, the eBOX800-900-FL comes with a wide operating temperature range of -30°C to 60°C and a built-in 10kV surge protection. It also features M12-type I/O connectors and four N-jack waterproof antenna openings to ensure operational stability in rugged environments. The eBOX800-900-FL is ideal for AI edge computing and deep learning applications in smart city, smart manufacturing, smart transportation and much more.

AIE100-903-FL
Face Mask Detection System & Social Distancing Detection

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During this critical time in our world, the precautionary measures of face mask detection, temperature check, and social distance detection are becoming increasingly important, especially in the public areas, office buildings, retail, and hospitals. The AIE100-903-FL, an ultra-compact edge AI system powered by the NVIDIA® Jetson Nano™ module, has a powerful quad-core ARM® Cortex®-A57 MPCore processor and NVIDIA Maxwell™ GPU architecture with 128 NVIDIA CUDA cores. To facilitate integration with an IP camera, this user-friendly AI-enabled system is equipped with a 15W GbE PoE port for both power and video transmission. It also offers an optional waterproof IP42-rated cover kit for enhanced protection in semi-outdoor environments.

AIE500-901-FL
Smart Packaging and Logistics

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Smart packaging and logistics solutions enabled by an intelligent IoT system can help drive business efficiencies to optimize supply chain management. Through the combination of a 3D camera, robotic arm, and artificial intelligence (AI), Axiomtek's AIE500-901-FL accelerates the processes of carton dimension measurement, carton classification, pallet optimization, and more. This edge AI system is powered by the NVIDIA Jetson™ TX2 module, which has a powerful 256-core NVIDIA® Pascal GPU and a hex-core ARMv8 64-bit CPU complex to deliver exceptional AI computing performance. To fulfill the automation demands and withstand the rigors of day-to-day operations, it also supports an extended operating temperature range of -30°C to +60°C, and offers a choice between 12 or 24 VDC power input. This fanless Artificial Intelligence edge system is well-suited for video analysis, object classification, computer vision, quality control and more.

AIE900-902-FL
Autonomous Self-Driving Vehicles

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Driven by autonomous driving technology, next-generation vehicles are now changing the way we view vehicles and mobility. In addition to enabling smart transportation, next-generation vehicles can also enhance passenger safety, comfort, and entertainment. The advanced driver assistance system (ADAS), for example, gives drivers a second pair of eyes on the road to help them avoid danger, prevent accidents, and reduce stress. To achieve high accuracy, fast reaction, and low latency, autonomous vehicle platforms require a high-performance edge AI computing system to improve image processing, data analysis, and reaction time. The AIE900-902-FL is powered by NVIDIA Jetson AGX Xavier™ module, which has an 8-core ARM CPU and NVIDIA® Volta GPU with 512 CUDA cores. To provide sufficient capacity for processing and storing massive image data, this edge AI computing system is equipped with one M.2 Key M NVMe SSD slot, one 2.5″ SATA hard drive bay, and one MicroSD slot. It also comes with one mini PCI Express slot and one M.2 Key E slot to support diverse wireless network connectivity.

Intelligent Medical Solutions

Axiomtek has years of experience in developing medical computing solutions, and has the ambition to fulfill the growing demands of the global medical device market. Axiomtek's medical panel PCs are fully customizable to suit the needs of a wide range of medical industry applications, featuring high-performance CPUs, extensive storage capabilities, rich I/O options for expandability, various form factor sizes, projected-capacitive multi-touch screen displays, plus multiple safety and medical certifications. Our products and design assistance services offer many benefits to our clients, who have chosen Axiomtek as their trusted partner to provide long-term expertise and complete product portfolio to support their complex, mission critical projects.
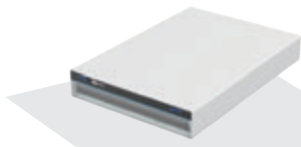
mHPC200
Artificial Intelligence (AI) Medical Imaging for Clinical Diagnosis

More and more medical applications are using AI technology to proceed with mass data analysis and accelerate data processing speed. It can be applied to the diagnosis, monitoring, and prediction of diseases using different imaging modalities. The mHPC200, a 2U rackmount server featuring dual Intel® Xeon® Gold 6226R processors with Intel® C621 PCH, is designed for high computing performance in medical fields. It supports 12 slots of DDR4-2933 ECC DIMM memory to provide up to 768GB capacity, and 6.4TB U.2 SSD to deliver 3G/2.9G RW performance. To accomplish multiple tasks at the same time, this highly efficient system has two PCIe x16 Gen 3.0 slots for data acceleration. The mHPC200 targets the healthcare markets such as next generation sequencing fields and AI diagnosis.

MPC103-845
Patient Information Terminal

The ultra-light MPC103-845, a 10.1-inch EN 60601-1 certified panel PC, is designed for applications such as nursing carts, medical image processing devices, patient infotainment terminal and point-of-care terminals. Healthcare staff can use the terminal to access medical records and hospital information systems, retrieve laboratory results, monitor patients' vital signs, and document treatment observations. This medical grade computer has rich I/O interfaces to connect to other medical instruments, such as electrocardiogram, thermometers, or skin rejuvenation devices, allowing medical professionals to obtain information with high efficiency.

PICO319
Medical Spectrometer for Blood Screening

The medical spectrometer for blood screening is used to perform the preliminary virus examination with a patient's blood sample. It is required to connect to a USB camera to scan the patient's ID card. The ability to connect to RAM modules, SSD and Wi-Fi cards is also necessary. Axiomtek's PICO319 is a low-power yet powerful fanless Pico-ITX SBC powered by the onboard Intel® Atom® x5-E3940 quad-core processor. It comes with two USB 2.0 ports, two USB 3.0 (USB 3.1 Gen1) ports, one RS-232/422/485 port, one RS-232 port, one HD Codec audio, and 4-channel digital I/O. With rich I/O connectivity, the scalable PICO319 is an ideal solution for medical system integrators. Besides, with immense experience and in-depth knowledge, Axiomtek's R&D team can provide prompt assistance to solve customers' issues in the medical field.

CEM310
Medical Tablet PC

The light medical tablet PCs aim to relieve medical professionals of the burden of complicated daily operations. The CEM310 is a COM Express Type 10 Mini module supporting the Intel® Atom® x5 and x7 processors in a board size of 84mm x 55mm. This ultra-small module can be easily integrated into most medical tablet PCs. The low-power CEM310 also has a wide voltage input range of 4.75V to 20V to meet the varying voltage input requirements for diverse industrial applications. With its compact and fanless design, the Computer-on-Module Type 10 Mini module can meet the increasing demands for mobility and efficiency in the healthcare field.

Future of Retail

As emerging technologies continue to drive digital disruption, customer experience has now become a key consideration for retailers. To meet customer expectations, retail businesses must be more creative in optimizing in-store experience, while at the same time being able to provide a protected and safe shopping environment. Axiomtek manufactures a wide range of products, including smart display modules, modular panel PCs, digital signage players, as well as open-frame touch monitors with an antimicrobial touchscreen that can be incorporated into brick-and-mortar retail stores. We believe our advanced solutions will play a significant role in restoring consumer confidence in retail and other public facilities during this challenging time to help people move forward into the future.

SDM300S
Voice and Gesture Recognition

The fear of touching contaminated surfaces is rising like never before. Yet to successfully alter how people interact with stores requires some sophisticated technologies. Sensory interfaces such as voice assistants and gesture recognition promise to be more intuitive and immediate. They point to a future where the interface is embedded in our environment, enabling frictionless, anticipatory, responsive and predictive interactions. Designed for use in space constraint environments, the scalable and feature-rich SDM-300S supports the Intel® Pentium® processor N4200 or Celeron® processor N3350 with the Intel® HD Graphics 505 or 500 chipset. It has 4GB LPDDR4 memory (8GB optional) and 64GB EMMC memory onboard. More features include PCIe x8 (98-pin), USB 3.0, HDMI 1.4, DisplayPort 1.2, serial TX/RX and I2C signals for connectivity.

ITC150WM
Retail Displays

Retail displays are often seen installed in the store because they can create immersive shopping experiences to boost business performance. Using an intelligent panel PC with excellent graphics capabilities is therefore an effective way to catch the shopper's eye. The SDM-based ITC150WM adopts a swappable signage computer module design, making it an ideal solution for easy maintenance in field replacement and upgrade. In addition to its thin IP54-rated front bezel with optional antimicrobial options, this modular touch computer features a 15.6" vivid HD LCD display with a 10-point projected capacity touchscreen and 300 nits of brightness. This reliable panel PC supports add-on modules and flexible mounting kits to simplify deployment for various usage needs.

DSP600-211
4K Video Walls

The video walls are particularly common in retail applications. Using an array of displays aligned edge-to-edge in a grid (1x2, 2x2, etc.) to combine into one larger attraction, the video wall can generate an impressive impact on a wider audience to maximize advertising results. Powered by the AMD Ryzen™ Embedded Quad-Core V1807B/V1605B, the feature-rich DSP600-211 is designed for multi-display purposes to enhance visual communication. It features high graphical capabilities by supporting up to four displays through four HDMI 2.0. It has rich I/Os including two GbE LANs, two RS2-232, two USB 3.1 and two USB 2.0, and offers flexible expandability with one M.2 Key E 2230 and two M.2 Key M 2280.

SSK315
(REGATA Kiosk)
Self-Service Kiosk

Restaurants, retail stores, smart cities, hotels, and hospitals are all using self-service kiosks to offer more seamless and convenient experiences. These solutions help lead to shorter lines, boosted revenue, lower labor costs, and increased customer satisfaction. Axiomtek's SSK315 is a 15.6" self-service kiosk with an Intel® Smart Display Module (SDM) CPU card. Its modular and push-button design delivers ease of maintenance. Integrated with a 2D barcode scanner, thermal printer and NFC, this all-in-one kiosk represents a true asset for enriching the customer journey. Whether it is ticket booking, product purchase, queue control, payment processing, subscriptions, or customer loyalty management, the SSK315 is perfectly suitable for all kinds of retail business and service operations.

Smart Transportation Solutions

Modern smart transportation not only means collecting data from across a smart city; it also means relaying that information to commuters. In response to the requirements for next-generation embedded hardware and software solutions today, we are ready to team with our transportation provider partners and head into the age of a dynamic smart city that survives on the arteries of a more intelligent transportation infrastructure. With the rise of intelligent transportation applications in vehicles, railways, marine and other station and facility usages, Axiomtek is committed to providing a broad portfolio of smart transportation solutions to pave the way for more intelligent and unified mobility management platforms that will drive the overall success of smart cities.
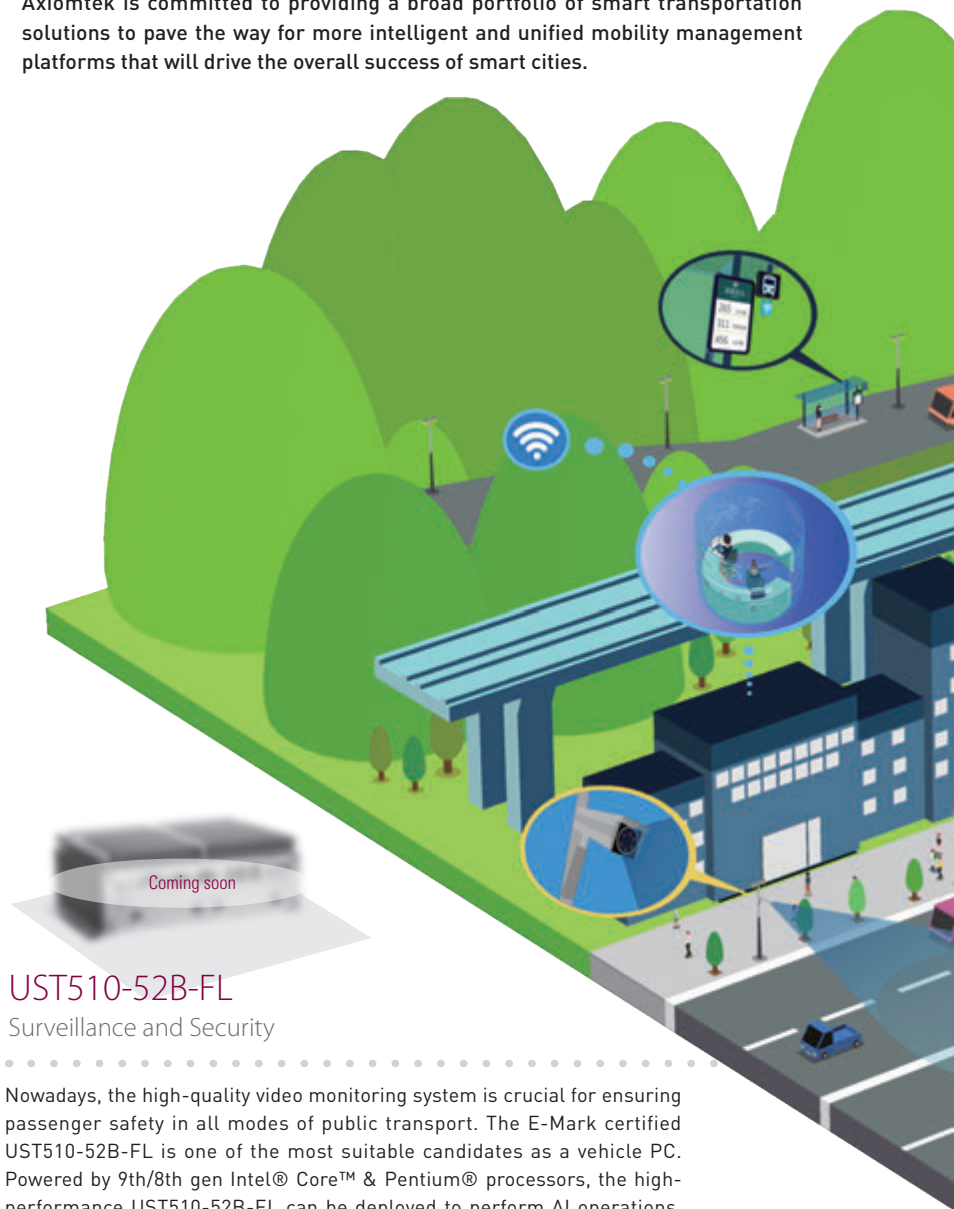
Coming soon

UST510-52B-FL
Surveillance and Security

Nowadays, the high-quality video monitoring system is crucial for ensuring passenger safety in all modes of public transport. The E-Mark certified UST510-52B-FL is one of the most suitable candidates as a vehicle PC. Powered by 9th/8th gen Intel® Core™ & Pentium® processors, the high-performance UST510-52B-FL can be deployed to perform AI operations, such as analyzing video streams and automatically alerting the driver and operation control center to potential dangers. Enhanced by its robust structure and system design, this rugged embedded system can operate under a wide temperature range from -40°C to +70°C, and can withstand vibration up to 3 Grms. It supports up to 16 M12-type PoE ports to reduce the possibility of loosening under the vibration environment.

GOT710-837/ GOT712-837
Train Control & Management HMI

To reduce human error and achieve high levels of efficiency, a great control interface becomes significantly important. The GOT710-837 and GOT712-837 come with 24 to 110 VDC input and S3 20ms power interruption protection, giving system integrators a safer and more convenient solution. Powered by Intel® Atom® quad-core processors, the high-performance panel PCs are the ideal solutions for fast-responding Driver Machine Interfaces. Moreover, the GOT710-837 and GOT712-837 are certified with EN 50155 and EN 45545-2 standards.

P718W
Passenger Information System

Helping passengers find the information they need with the least time and effort is among the list of priorities for public transportation companies. The P718W adopts an 18.5-inch TFT LCD display, with 500 nits of high brightness and LED backlights, and supports multiple video inputs with HDMI, DVI and VGA. Featuring an IP42 (NEMA 4)-rated front bezel, screw-type adapter plug design, and a full range DC power input from 24V to 110V DC-in, the P718W is well-suited for operation in railway environments.

tBOX510-518-FL
Train Driver Machine Interface

The tBOX510-518-FL is a modular fanless railway computer with EN 50155, EN 45545-2, EN 60950-1, CE (Class A) and FCC (Class A) certifications, and EN 50124 compliance for railway-related applications. It is suitable for rugged industrial and railway applications with varying voltage input requirements due to its overcurrent, overvoltage, under-voltage and reverse polarity protection as well as its 24V to 110V DC wide voltage input support. In addition, it has a Plug-in I/O Module (PIM) slot to meet different customization requirements. Powered by the 7th generation Intel® Core™ i7/i5/i3 or Celeron® processor 3965U, the tBOX510-518-FL is an ideal solution for performing data processing and transmission in train control and rail signaling applications.

UST200-83H-FL
Fleet Management

Fleet management and logistics play a significant role in transportation services, responsible for coordinating and facilitating various transportation activities. The UST200-83H-FL is a palm-sized in-vehicle IoT gateway powered by the low-power consumption Intel® Atom™ x5-E3930 processor. It is certified with CE and FCC and is in compliance with ISO 7637-2. Featuring the function of the Smart Ignition power control, the rugged embedded system can be used to arrange a power on/off schedule to protect the vehicle battery from unstable voltage. By switching the power mode, the UST200-83H-FL can support typical 12 and 24 VDC automotive power input or wide-range 9 to 36V DC power input. The flexible IoT gateway is designed for a broad range of in-vehicle applications, from shuttle buses, police cars, ambulances, cold chain trucks, and forklifts to heavy-duty vehicles.
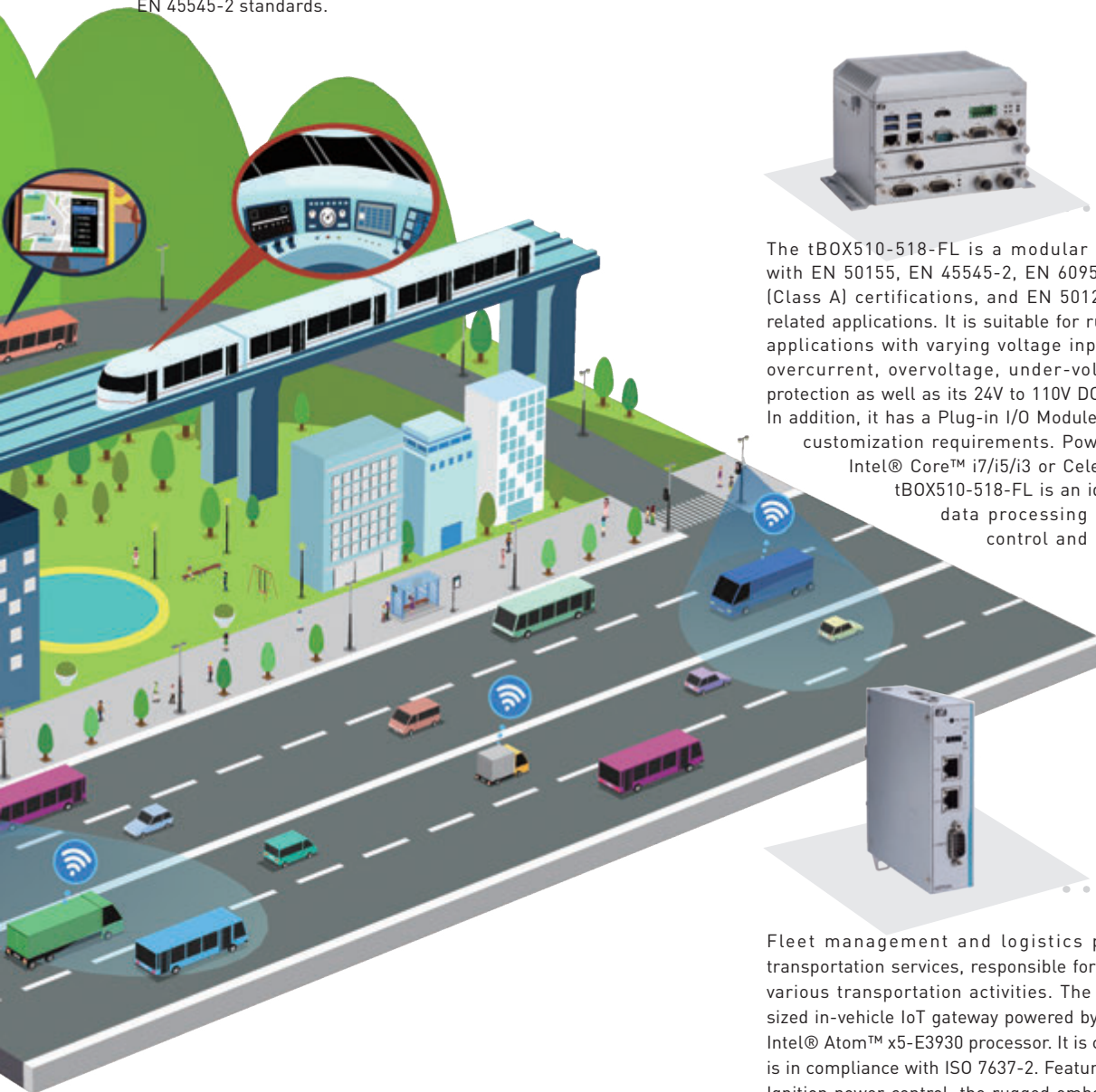
Factory Automation

In response to today's fast-paced business demands, factories, power plants, and manufacturing centers around the world now rely on automation, machine learning, computer vision, and other fields of AI to transform the way they make, move, and market products. The use of robotics and vision-based solutions in smart warehouses and production lines has resulted in higher efficiency and quality product output, as well as less waste of raw materials. The building blocks for smart manufacturing involve feature-rich and highly reliable industrial computer hardware with purpose-built features, such as PoE ports for connection with cameras. Axiomtek offers a full range of expandable, low power consumption and high-performance embedded systems that center around the needs of the vertical markets seeking to build genuinely AI-powered smart factories.

eBOX671-521-FL

Automatic Vision Inspection System
for Food Related Product Traceability

Beverage container manufacturers require a system to identify bar codes on ink-jet-printed labels with fast run rate and approximate 99% accuracy. To greatly improve efficiency, business owners have started to implement reliable graphical user interface for workers who have less technical background. The fanless eBOX671-521-FL is a powerful GPU computing embedded system designed with high reliability. This Intel® Coffee Lake-based vision system supports optional MXM3.1 type A GTX1030/1050 graphics modules to enhance visual display performance. It also has four Gigabit 802.3at (PoE, Power-over-Ethernet) compliant Ethernet ports with a total power budget of 60W, six USB 3.1 ports and two Gigabit LANs for connection to different devices or sensors.

Coming soon

eBOX560-52R-FL

AMR - Robotic Control
System

The best way to reduce human labor is to implement an autonomous mobile robot (AMR), which not only strengthens workplace safety but at the same time reinforces the efficiency in warehouse operations. Among the key elements of the AMR are the control system, motor, vision camera, sensors and software. The eBOX560-52R-FL is a powerful yet compact system suitable for being the control core of the AMR. It is powered by the Intel® Whisky Lake ULT processor and delivers high performance even when processing multiple data inputs and outputs. The system supports dual GbE ports and 4 USB ports to connect to various sensors and devices, along with one 2.5" hard drive bay that allows the system to store massive data to be transmitted to a control room or other edge computers via Wi-Fi. This AMR control system can be easily deployed in variety of auto robotics to help users rapidly implement smart warehousing management.

MVS900-511-FL
and Basler Camera

AI Vision in Automated
Optical Inspection

As AI technology advances, manufacturers are increasingly looking to machine vision solutions to expand their inspection capabilities in order to increase yield, improve product quality, and boost operational efficiency. The MVS900-511-FL is an all-in-one fanless machine vision system with real-time vision I/O and camera interfaces. Its vision I/O includes trigger input, trigger output, LED lighting control, quadrature encoder input, and isolated DIO. This integrated real-time vision I/O allows the machine vision system to achieve seamless interoperability between cameras and vision devices. Equipped with four IEEE802.3at GbE LAN ports (PoE) for connection to popular GigE cameras, the MVS900-511-FL can support area scan and line scan for automated optical inspection (AOI). When integrated with a Basler camera, this powerful vision system can also operate under sequential control, making it faster and easier for system integrators to configure and deploy vision applications.

Powering Smart Energy

Axiomtek provides various management and monitoring solutions involved in diverse energy and power fields, including solar power, oil refinery, electric vehicle charging and industrial utility. The products have been used as highly reliable and rugged edge controllers, servers and gateway devices. They are used to manage critical operational functions such as controlling, equipment operations and testing. Designed to deliver integration flexibility, customizability and high reliability in harsh operating environments, the fanless embedded systems offer extended operating temperatures, wide range power input with terminal block and over-voltage/reverse protection, and isolated COM and Ethernet ports.
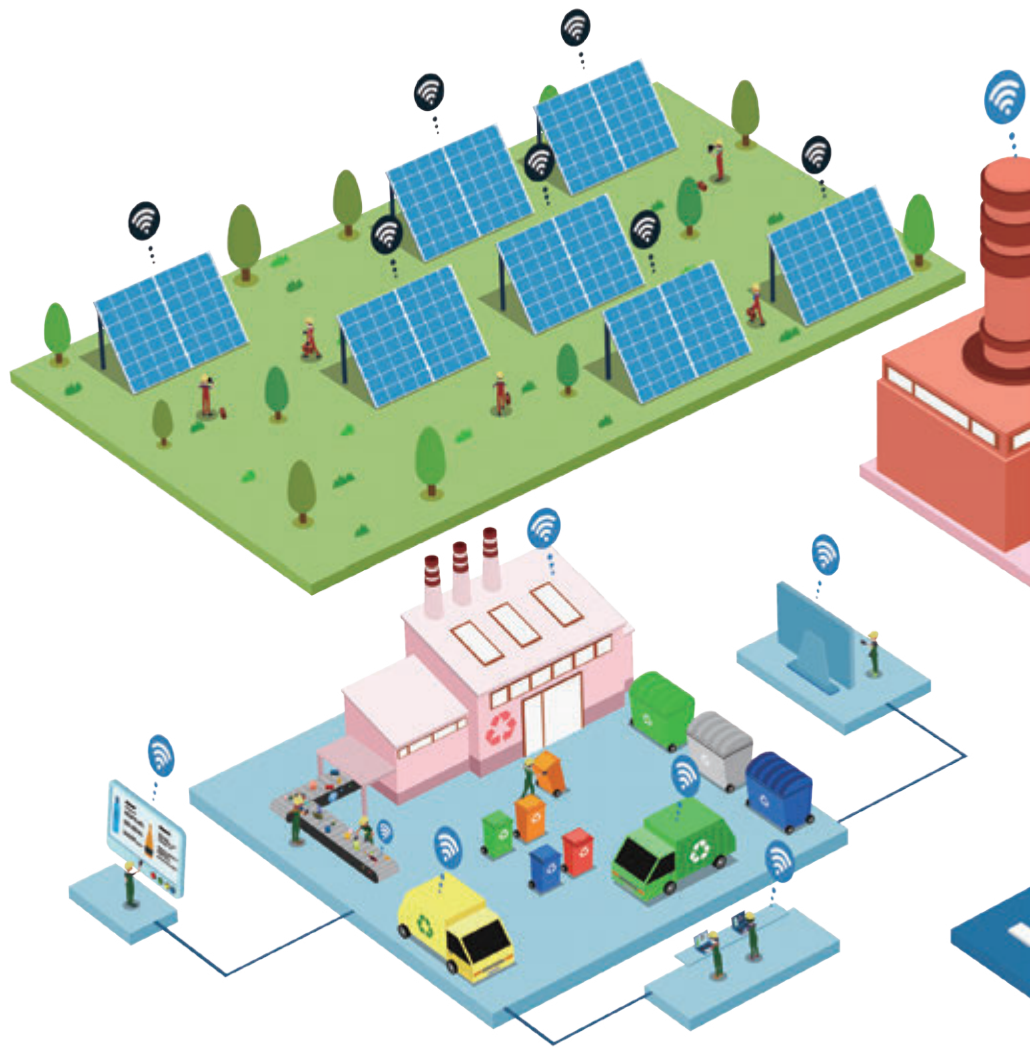
ICO300-83B
Solar Power Efficiency Monitoring

With the growing worldwide demand for renewable energy, more and more solar power plants are looking to expand their operation and production capacity. The main concerns from power plant owners and grid companies include data collection accuracy, status monitoring of solar photovoltaic and battery load, and management of solar energy assets. The ICO300-83B features a low-power consumption Intel® Celeron processor N3350/N4200, a DDR3L-1866 SO-DIMM slot supporting up to 8 GB of system memory, as well as an extended temperature range of -40°C to +70°C for operation in harsh environments. Additionally, the ICO300-83B is equipped with two full-size PCI Express Mini Card slots, one for an mSATA storage card and the other for 4G/GPRS/Wi-Fi connection - allowing it to be used as an energy-efficient IIoT gateway to provide flexible communication and data transfer functions.

ICO300-83M (ATEX/C1D2)
Oil Refinery Environment Monitoring

The working environment in oil and gas industry is extremely hazardous. Therefore, it is essential to have a reliable and accurate monitoring system which can constantly monitor the facility's conditions while collecting and transmitting data to remote sites. Axiomtek's ICO300-83M is an ideal gateway solution and has been certified with ATEX and C1D2 for use in harsh environments where ignitable concentrations of flammable gases, vapors or liquids might exist. It supports the dual-core Intel® Atom™ processor E3930 along with DDR3L system memory, and has six isolated RS-232/422/485 ports, three isolated 10/100/1000Mbps Ethernet ports, and one isolated DIO (8-IN/8-OUT) port. The ICO300-83M also support 5G connectivity as a next generation wireless gateway. Moreover, we also provide secure mounting for customers to easily install the system on a DIN-rail mount or in an enclosure box.
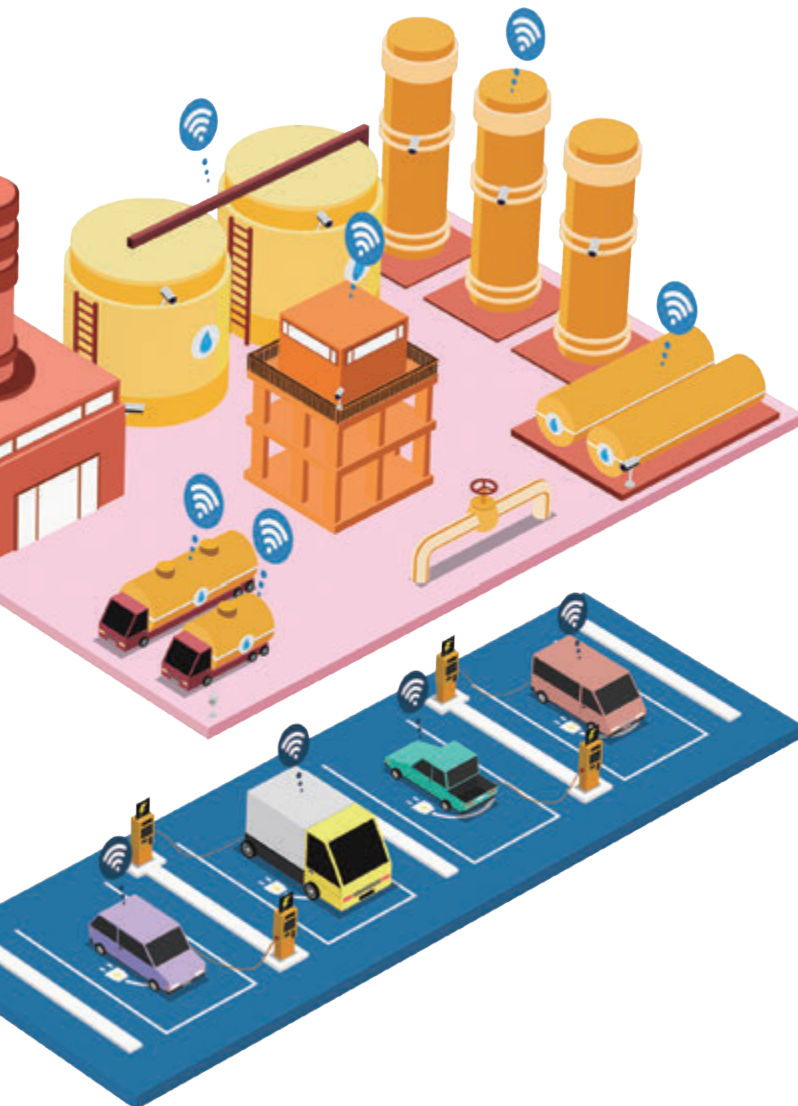
ICO120-83D
Electric Vehicle Charging Infrastructure Management

The rise of environmental awareness has led to the fast growing popularity of electric vehicles (EV) all over the world. The numbers of EV charging stations are steadily increasing on a daily basis. The biggest challenge in centralized management is how to control and maintain these unmanned stations remotely. The ICO120-83D is powered by the Intel® Celeron® processor N3350/N4200 and has a DDR3L-1866 SO-DIMM slot holding up to 8 GB of system memory. Additionally, it is equipped with one full-size PCI Express Mini Card slot, one half-size PCI Express Mini Card slot in support of mSATA, and one SIM socket to provide flexible extension capability for customers to achieve remote and real time control without incurring additional labor costs.

ICO300
Industrial Utility Control Management

Having efficient utility management for factories and plants helps to increase productivity and reduce operational cost. This can be accomplished through the implementation of automated control HVAC, utility consumption monitoring, as well as lighting and access control systems. The high-performance ICO300 can be used to collect the information generated by sensors and wireless modules to prevent system failures. The ICO300 supports the low power Intel® Atom™ processor E3815 (1.46 GHz) and DDR3L system memory maximum up to 4GB. It also features four RS-232/422/485 ports, two isolated Gigabit Ethernet ports, and two high-speed USB 2.0 ports. This intelligent IoT gateway system provides a perfect solution for IoT & M2M, industrial and embedded applications.

Industrial Cybersecurity

As we enter the era of IoT (Internet of Things), cyberattacks in industrial appliances are also on the rise. Cybersecurity has become a central concern amongst industrial automation and control system users and vendors. While IoT brings tremendous convenience and valuable insights to help optimize business operations, fast-growing numbers of connected devices also create possible vulnerabilities where data could be stolen or misused. As enterprises strive to regulate their increasingly complex networks, the ability to ensure cybersecurity compliance and data protection has never been more important. Axiomtek provides a wide range of network appliances featuring low power, fanless and slim form factor design as well as noiseless operation, delivering exceptional performance for versatile security gateway applications.

iNA100
Rugged Ethernet Gateway for Non-Stop Data Center Security

The iNA100 is a DIN-rail industrial-grade network appliance powered by the Intel® Atom® processor x5-E3930. It has one DDR3L-1866 SO-DIMM slot for up to 8GB of non-ECC/ECC memory. This fanless IIoT edge computing platform enables a wide array of uCPE (Universal Customer Premises Equipment) applications, including VPN, firewall, gateway, SD-WAN and vCPE. The iNA100 enables enterprises to strengthen the security of their networks against emerging threats, from the data center to the edge.

NA347
Security Gateway for Small and Home Offices

A surge in work-from-home activity due to the COVID-19 pandemic has brought many security issues for small and home office users. The NA347 security gateway is ideal for installation into narrow, space-constraint environments, for instance, the open-plan office or business with a small workplace. This ultra-small desktop network appliance is powered by the Intel® Celeron® processor N3350. It also offers one full-size PCI Express Mini Card slot with PCIe/USB signal support and one Nano SIM socket for expansion interfaces.

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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.

Boards and Modules

System on Modules

Selection Guide

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-1866	DDR4-2400	DDR4-2400/3200
Max. DRAM Capacity	4GB (default)/8GB (optional)	64GB	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
I/O — TPM	N/A	TPM 2.0	TPM 2.0
I/O — Serial — COM 1	TX/RX	TX/RX	TX/RX
I/O — Serial — COM 2	TX/RX	TX/RX	TX/RX
I/O — Serial — COM 3	N/A	N/A	N/A
I/O — Serial — COM 4	N/A	N/A	N/A
I/O — 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

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™ (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	DDR3L-1600
Max. DRAM Capacity	64GB	64GB	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
Serial COM 2	TX/RX	TX/RX	N/A
Serial COM 3	N/A	N/A	N/A
Serial 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

System on Modules

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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
- Max. up to 4 lanes of PCI Express
- 2 SATA-600
- 2 USB 3.0 and 8 USB 2.0

Onboard DDR3L memory chip

Onboard eMMC (optional)

Intel® Atom® x7-E3950
Intel® Atom® x5-E3940
Intel® Atom® x5-E3930

Onboard DDR3L memory chip

COM Express connector

▲ 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
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) with system thermal solution 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 I²C
GPIO	4-CH in & 4-CH out
Smart Battery	Yes
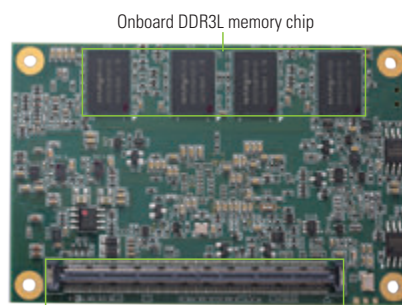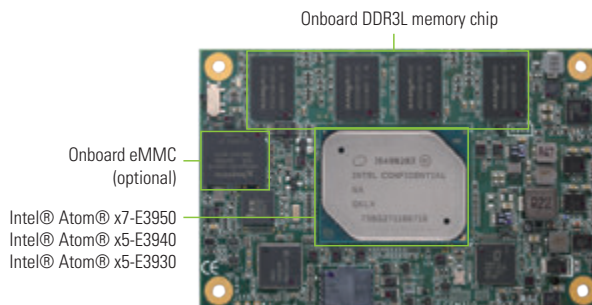
Packing List

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

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 64GB 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

Intel® Xeon® D-1500/
Pentium® D1500 processor

2 x DDR4 SO-DIMM

COM Express connector

▲ Rear view

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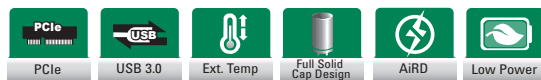
Core System

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 64GB
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) with system thermal solution 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 external PHY
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 I²C 1 x LPC 1 x SPI
GPIO	4-CH in & 4-CH out
Smart Battery	N/A
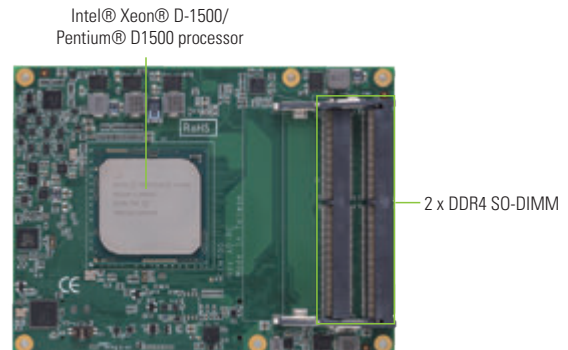
Packing List

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® Pentium® 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

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 64GB 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

2 x DDR4 SO-DIMM

AMD Ryzen™ Embedded
V1000 processor

COM Express
connector

▲ Rear view

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

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 64GB (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 I²C
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 (P/N: E38D130103)	COM Express Type 6 Compact module with AMD Ryzen™ Embedded V1202B, DDI, LVDS, GbE LAN, USB 3.0 and TPM
CEM130-V1605B (P/N: E38D130102)	COM Express Type 6 Compact module with AMD Ryzen™ Embedded V1605B, DDI, LVDS, GbE LAN, USB 3.0 and TPM
CEM130-V1756B (P/N: E38D130101)	COM Express Type 6 Compact module with AMD Ryzen™ Embedded V1756B, DDI, LVDS, GbE LAN, USB 3.0 and TPM
CEM130-V1807B (P/N: E38D130100)	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
E39J014100	CEM130 heat sink with fan
7128D130000E	CEM130 heat spreader

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 dual-channel DDR4-2400 SO-DIMM for up to 64GB
- Max. up to 8 lanes of PCI Express
- 3 SATA Gen3
- 4 USB 3.0 and 8 USB 2.0
- Supports eMMC for up to 64G (optional)
- TPM 2.0 supported
- AMS.AXView intelligent remote management software

Ext. Temp

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

2 x DDR4 SO-DIMM

8th gen Intel® Core™ processor

COM Express connector

▲ Rear view
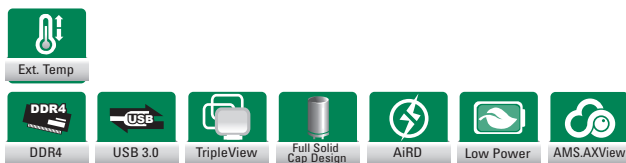
Core System

CPU	Intel® Core™ i7-8665UE/i5-8365UE/i3-8145UE processor (Whiskey Lake-U) & Intel® Celeron® processor 4305UE
System Memory	2 x Dual-channel DDR4-2400 SO-DIMM slot, up to 64GB
Chipset	SoC integrated
BIOS	AMI uEFI (Legacy free)
SSD	eMMC for up to 64G (optional)
Watchdog Timer	65536 levels, 0 to 65535 sec.
Expansion Interface	8 x PCI Express Gen3 (max. 5 PCIe Devices with LAN)
Battery Lithium	Yes
Power Input	ATX: +12V, +5VSB AT: +12V
Dimensions	95 x 95 mm
Board Thickness	2.0 mm
Operating Temperature	-40°C to +85°C (-40°F to +185°F) with system thermal solution
Humidity	10% - 95% relative humidity, non-condensing
Vibration Endurance	3.5 Grms

I/O

SATA	3 x SATA Gen3
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 I²C
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; 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

CEM521-i7-8665UE (P/N: E38D521100)	COM Express Type 6 Compact module with Intel® Core™ i7-8665UE, DDI, VGA, LVDS, GbE LAN, USB 3.0 and TPM
CEM521-i5-8365UE (P/N: E38D521102)	COM Express Type 6 Compact module with Intel® Core™ i5-8365UE, DDI, VGA, LVDS, GbE LAN, USB 3.0 and TPM
CEM521-i3-8145UE (P/N: E38D521104)	COM Express Type 6 Compact module with Intel® Core™ i3-8145UE, DDI, VGA, LVDS, GbE LAN, USB 3.0 and TPM
CEM521-Cel-4305UE (P/N: E38D521105)	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
E39J016100	CEM521 heat sink with fan
7128D521000E	CEM521 heat spreader

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
- Intel® CM246/QM370/HM370 chipset
- 2 dual-channel DDR4-2400 SO-DIMM for up to 64GB of memory
- 1 PCIe x16 and 8 PCIe x1 Gen3
- 4 SATA Gen3 with RAID 0/1/5/10
- 4 USB 3.2 and 8 USB 2.0
- TPM 2.0 function supported
- AMS.AXView intelligent remote management software for industrial IoT applications

Intel® Xeon® & 8th gen Intel® Core™ processor

Intel® CM246/ QM370/HM370

2 x DDR4 SO-DIMM
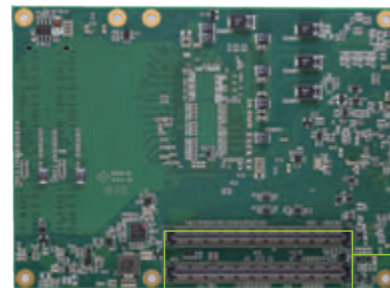
COM Express interface connector

▲ Rear view

TripleView | Full Solid Cap Design

DDR4 | USB 3.2 | AMS.AXView | Ext. Temp | AiRD

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 64GB 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	-40°C to +85°C (-40°F to +185°F) with system thermal solution (operation with heatsink and fan)
Humidity	10% - 95% relative humidity, non-condensing
Vibration	3.5 Grms

I/O

SATA	4 x SATA Gen3 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 3.2 Gen 2 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^{2}C
GPIO	4-CH in & 4-CH out (SDIO optional)
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; 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

Ordering Information

Standard

CEM520-E-2176M+CM246 (P/N: E38D520100)	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 (P/N: E38D520104)	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 (P/N: E38D520102)	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 (P/N: E38D520101)	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
E39J015100	CEM520 heat sink with fan
E39J006100	CEM520 heat spreader

CEB94018

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

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

▲ Front view

▲ Rear view

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 I$_2$C, FP
GPIO	3-CH in & 3-CH out
Display	1 x LVDS; 18/24-bit single channel 1 x VGA
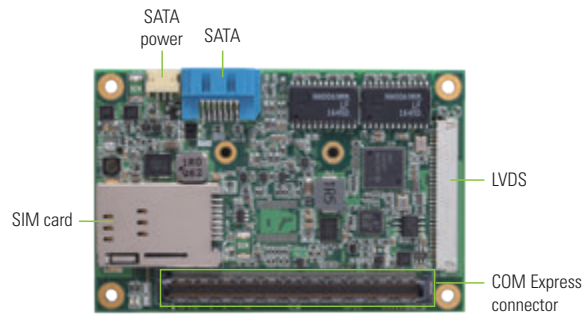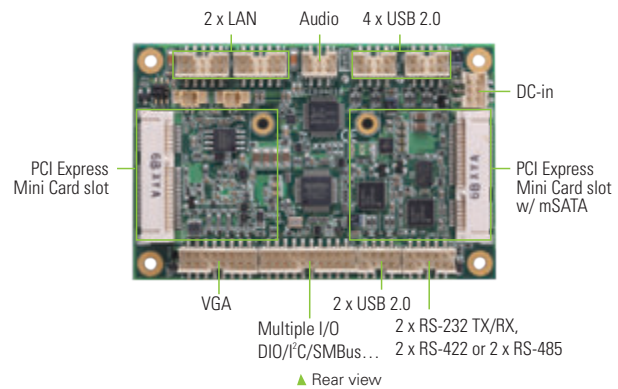
Packing List

Quick installation guide

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

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	On the module
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	-40ºC to +85ºC (-40ºF to +185ºF)
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^{2}C
GPIO	8-CH in & 8-CH out
Display	1 x LVDS; 18/24-bit dual channel 1 x VGA 1 x DDI

Packing List

Quick installation guide

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)

Optional	
59466993900E	AX98699 IDC 30P to 30P P=0.4mm L=150mm
83986991010E	AX98699-HDMI Converter Board

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
- 3 USB 3.0 and 4 USB 2.0 or 2 USB 3.0 and 6 USB 2.0 (optional)
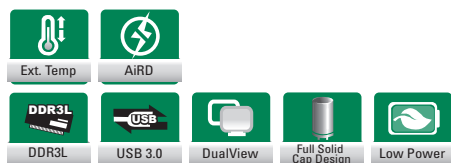
DDR3L onboard memory

Intel® Atom® processor x5/x7 series E3930/E3940/E3950

Onboard DDR3L memory

| Ext. Temp | AiRD |

| DDR3L | USB 3.0 | DualView | Full Solid Cap Design | Low Power |

▲ Rear view

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	-40ºC to +85ºC (-40ºF ~ +185ºF), operation
Operation Humidity	10% - 95% relative humidity, non-condensing

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
	4 x USB 2.0
Serial	1 x LPC interface (optional w/GPIO)
	1 x SPI interface
	1 x Serial TX/RX
TPM	N/A
SMBus	Yes
Others	1 x I²C
Digital I/O	8 x GPIO
SDIO	Yes
Smart Battery	Yes
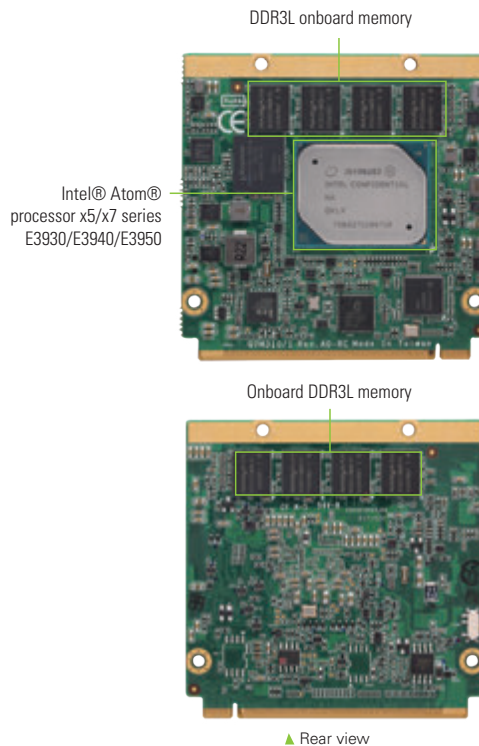
Display

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 (Ind.) (P/N: E38Q310101)	Qseven module with Intel® Atom® x7-E3950, 4GB DRAM, DDI, LVDS, USB 3.0 and GbE LAN (Industrial temperature)
Q7M310PG-E3940-4G (Ind.) (P/N: E38Q310102)	Qseven module with Intel® Atom® x5-E3940, 4GB DRAM, DDI, LVDS, USB 3.0 and GbE LAN (Industrial temperature)
Q7M310PG-E3930-4G (Ind.) (P/N: E38Q310104)	Qseveni module with Intel® Atom® x5-E3930, 4GB DRAM, DDI, LVDS, USB 3.0 and GbE LAN (Industrial temperature)
Q7M310-E3930+4GB (P/N: E38Q310105)	Qseven module with Intel® Atom® x7-E3950, 4GB DRAM, DDI, LVDS, USB 3.0 and GbE LAN
Q7M310-E3940+4GB (P/N: E38Q310106)	Qseven module with Intel® Atom® x5-E3940, 4GB DRAM, DDI, LVDS, USB 3.0 and GbE LAN
Q7M310-E3950+4GB (P/N: E38Q310107)	Qseveni module with Intel® Atom® x5-E3930, 4GB DRAM, DDI, LVDS, USB 3.0 and GbE LAN
7128Q310000E	Q7M310 heat spreader
7118Q310000E	Q7M310 heatsink without fan

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

2 x LAN   2 x USB 3.0   HDMI

I²C
SMBus

USB 2.0
LVDS
DC-in

2 x COM   SATA
SATA power   ▲ Front view

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

Qseven
connector

Micro SD
card slot

▲ Rear view

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	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 1 x Micro SD 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	-40ºC to +85ºC (-40ºF to +185ºF)
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

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

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.

Boards and Modules

3.5" Embedded Boards

Selection Guide

NEW
Coming soon

NEW

NEW

Features\Models			CAPA55R	CAPA13R	CAPA520
Form Factor			3.5"	3.5"	3.5"
CPU Level			11th gen Intel® Core™ i7/i5/i3 & Celeron®	AMD® RYZEN™ Embedded V1807B and V1605B APU	9th/8th gen Intel® Core™ i7/i5/i3 & Celeron®
CPU Socket			Onboard	Onboard	Onboard
Core Logic Chipset			SoC integrated	SoC integrated	Intel® H310/Intel® Q370
Memory Type			DDR4-3200	DDR4-3200/2400	DDR4-2666
Max. DRAM Capacity			64GB	16GB	16GB
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, 0 to 65535 sec.	256 Levels, 0 to 255 sec.	256 Levels, 0 to 255 sec.
SSD			1 x M.2 Key M 22 x 80 (NVMe)	1 x M.2 Key B 22 x 42	1 x mSATA (optional)
Digital I/O			8 channels in/out programmable	8 channels in/out programmable	8 channels in/out programmable
I/O	SATA		1 x SATA-600	1 x SATA-600	2 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	N/A
		COM 3	N/A	N/A	N/A
		COM 4	N/A	N/A	N/A
	USB		4 x USB 2.0 3 x USB 3.2 Gen2	2 x USB 2.0 2 x USB 3.2 Gen2	3 x USB 2.0 3 x USB 3.0
SIM Card Slot			N/A	N/A	N/A
Display			1 x DisplayPort++ 1 x HDMI 1 x LVDS 1 x eDP (optional)	1 x DisplayPort 2 x HDMI 1 x LVDS	1 x DisplayPort 1 x HDMI 1 x LVDS
Ethernet			1x 10/100/1000 Mbps Ethernet 1 x 10/100/1000/2500 Mbps Ethernet	2 x 10/100/1000 Mbps Ethernet 2 x 10/100/1000 Mbps Ethernet (optional)	2 x 10/100/1000 Mbps Ethernet 1 x 10/100/1000 Mbps Ethernet (Optional)
Audio			HD audio link	HD audio link	HD audio link
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 B 30 x 42/30 x 52	1 x M.2 Key E 22 x 30	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)
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)	-20°C to +60°C (-4°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

CAPA55R `NEW`

3.5″ Embedded SBC with 11th Gen Intel® Core™ i7/i5/i3, Celeron® Processor, DisplayPort++, HDMI, LVDS, 1 GbE LAN and 2.5 GbE LAN

Features

- 11th gen Intel® Core™ i7/i5/i3 & Celeron® Processor
- 2 DDR4 SO-DIMM for up to 64GB of memory
- 1 GbE LAN and 1 2.5GbE LAN
- 3 M.2 expansion slot

Coming soon

| TripleView | DDR4 | M.2 | 12V to 24V | AiRD | Full Solid Cap Design |

Core System

CPU	11th gen Intel® Core™ i7/i5/i3 & Celeron® Processor (cTDP up to 28W)
System Memory	2 x 260-pin dual-channel DDR4-3200MHz SO-DIMM, up to 64GB
BIOS	AMI
SSD	1 x M.2 Key M (PCIe x4 in 22 x 80)
Watchdog Timer	65536 levels, 0 to 65535 sec.
Expansion Interface	1 x M.2 Key E (PCIe x1, USB 2.0 in 22 x 30) 1 x M.2 Key B (SATA, USB 3.0, USB 2.0 in 30 x 42 or 30 x 50) 1 x SIM connector via pin header
Battery Lithium	Lithium 3V/220 mAh
Power Input	2 x 2-pin connector 12 to 24VDC 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	1 x SATA-600
Hardware Monitoring	Detect CPU/system temperature, voltage and fan speed
Ethernet	1 x 10/100/1000 Mbps Ethernet with Intel® i210-AT; 1 x 10/100/1000/2500 Mbps Ethernet with Intel® i225LM
Audio	HD Audio link via pin header
USB	3 x USB 3.2 Gen2 4 x USB 2.0
Serial	2 x RS-232/422/485
TPM	TPM 2.0 on board
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 1.4 1 x LVDS; 18/24-bit single/dual channel 1 x eDP (optional) 1 x DisplayPort ++

Ordering Information

Standard

CAPA55RHPGG	3.5″ Embedded SBC with Intel® Core™ processor, DisplayPort, HDMI, 1 Gbe LAN, 2.5 GbE LAN and 3 M.2 expansion

Optional

AX93A19 (P/N: E393A19100)	SIM card slot board
AX93A22 (P/N: E393A22100)	HD codec audio board for Mic-in/Line-in/Line-out
594E8422800E	2 USB 2.0 wafer cables w/bracket, 180 mm
59380880250E	COM port cable DB-9 x 1P, P=1.25 mm, L=250 mm
594H3186800E	Buzzer cable 9 x 5.5 mm 2-pin, L=40mm

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

▲ APC200, chassis for CAPA13R

+12V power input
2 x USB 2.0
M.2 Key B
M.2 Key E
SATA 3.0
DDR4 SO-DIMM
LVDS
2 x HDMI
DisplayPort
2 x USB 3.2 Gen2
2 x COM
2 x LAN
2 x LAN

M.2 | +12V | AiRD | Full Solid Cap Design | QuadView | DDR4

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
Power Requirement	AMD V1605B @2.0 GHz 16GB DDR4, min. RMS. +12V@2.5A AMD V1807B @3.35 GHz 16GB DDR4, min. RMS. +12V@4.2A
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 3.2 Gen2
Serial	1 x RS-232/422/485 1 x RS-232
TPM	ST ST33HTPH2E32AHB4 with TPM 2.0 compliant
SMBus	N/A
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
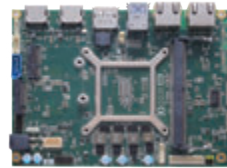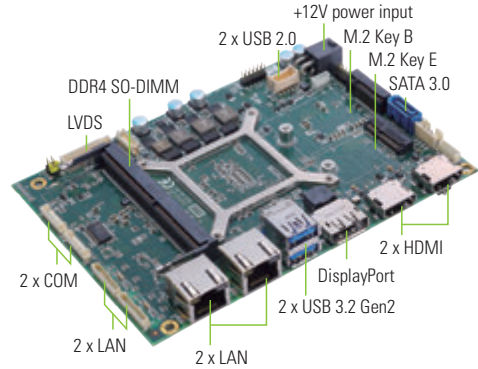
▲ Top view

▲ Rear view

▲ Assembly View

Ordering Information

Standard

CAPA13RPHGG-V1605B (P/N: E38E13R104)	3.5" Embedded SBC with AMD Ryzen™ V1605B (2.0 - 3.6 GHz, 2MB Cache, 15W) DisplayPort, 2 HDMI, LVDS and 2 GbE LAN, without fan
CAPA13RPHGG-V1605B w/fan (P/N: E38E13R108)	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 (P/N: E38E13R103)	3.5" Embedded SBC with AMD Ryzen™ V1807B (3.35 - 3.8 GHz, 2MB Cache, 45W) DisplayPort, 2 HDMI, LVDS and 2 GbE LAN, without fan
CAPA13RPHGG-V1807B w/fan (P/N: E38E13R107)	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 (P/N: E38E13R101)	3.5" Embedded SBC with AMD Ryzen™ V1605B (2.0-3.6 GHz, 2MB Cache, 15W), DisplayPort, 2 HDMI, LVDS, and 4 GbE LAN, without fan
CAPA13RPH4G-V1605B w/fan (P/N: E38E13R106)	3.5" Embedded SBC with AMD Ryzen™ V1605B (2.0-3.6 GHz, 2MB Cache, 15W), DisplayPort, 2 HDMI, LVDS, 4 GbE LAN, and fan
CAPA13RPH4G-V1807B (P/N: E38E13R100)	3.5" Embedded SBC with AMD Ryzen™ V1807B (3.35-3.8 GHz, 2MB Cache, 45W), DisplayPort, 2 HDMI, LVDS, and 4 GbE LAN, without fan
CAPA13RPH4G-V1807B w/fan (P/N: E38E13R105)	3.5" Embedded SBC with AMD Ryzen™ 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
59380880250E	COM port cable DB9--9 x 1P, P=1.25, L=250 mm
594E8422800E	2 x USB 2.0 cable with bracket, 180 mm
7128E13R000E	Heatspreader

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

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/Q370 chipset
- 1 DDR4 SO-DIMM for up to 16GB of memory
- 3 GbE LAN
- 1 PCI Express Mini Card slot
- Intel® AMT 12 supported (optional)

LVDS | COM | +12V power input
2 x SATA 3.0
2 x USB 2.0
1 x LAN
2 x LAN
2 x USB 3.0
USB 3.0 + USB 2.0
DisplayPort
HDMI

| TripleView | DDR4 | PCIe Mini | +12V | AiRD | Full Solid Cap Design |

▲ Top view

DDR4 SO-DIMM
ZIO connector (1 x PCIe x1, 1 x USB, 1 x LPC, 1 x SMBus)
▲ Rear view

Full-size PCI Express Mini Card slot with mSATA supported

▲ 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
BIOS	AMI
SSD	1 x mSATA (optional)
Watchdog Timer	255 levels, 1 to 255 sec.
Expansion Interface	1 x PCI Express Mini Card slot 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
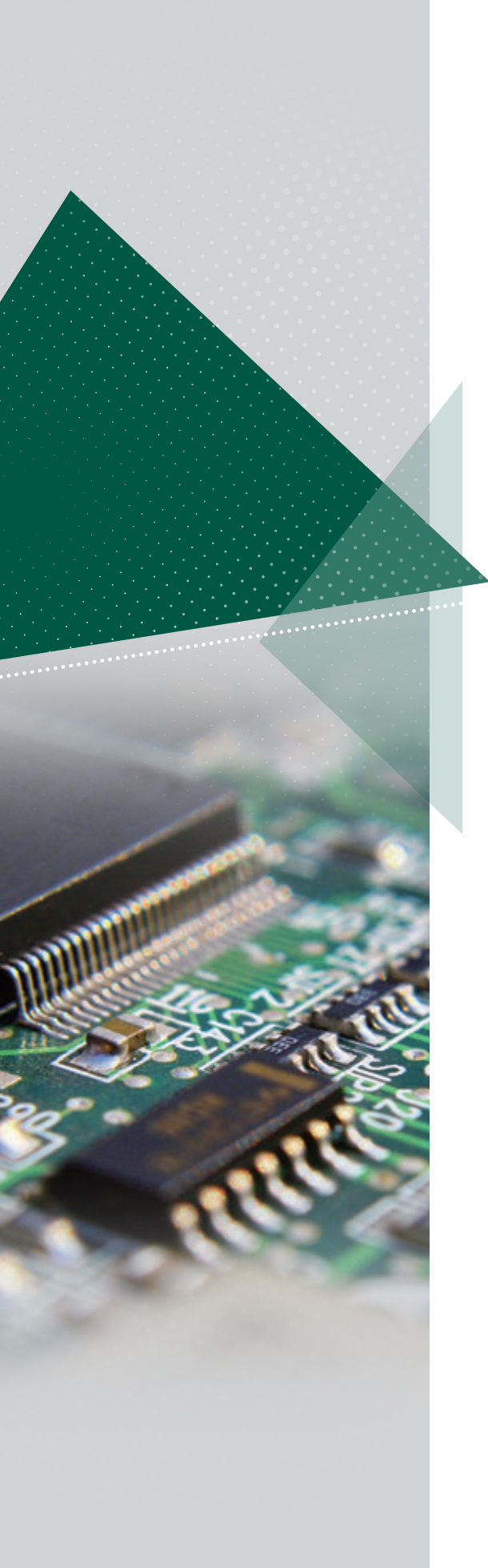
Display

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 (P/N: E38E520103)	3.5" Embedded SBC with LGA1151, Intel® H310 chipset, DisplayPort, HDMI, LVDS, 2 GbE LAN and ZIO

Optional

CAPA520PHGG-Q370-ZIO (P/N: E38E520102)	3.5" Embedded SBC with LGA1151, Intel® Q370 chipset, DisplayPort, HDMI, LVDS, 2 GbE LAN and ZIO
CAPA520PH3G-H310-ZIO (P/N: E38E520101)	3.5" Embedded SBC with LGA1151, Intel® H310 chipset, DisplayPort, HDMI, LVDS, 3 GbE LAN and ZIO
CAPA520PH3G-Q370-ZIO (P/N: E38E520100)	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
AX93A20 (P/N: E393A20100)	ZIO Module for PCI Express Mini Card slot
AX93A20 (P/N: E393A20101)	ZIO Module for M.2 Key E
AX93A22 (P/N: E393A22100)	HD codec audio board for Mic-in/Line-in/Line-out
594E8422800E	2 USB 2.0 wafer cables w/bracket, 180 mm
59380880250E	COM port cable DB-9 x 1P, P=1.25 mm, L=250 mm

System on Modules

3.5" Embedded Boards

Pico-ITX SBCs

Embedded Vision Board

Mini-ITX Motherboards

ATX Motherboards

Slot CPU Cards

ARM-based Embedded Boards

Smart Display Modules and Smart Kiosk 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.

Pico-ITX SBCs

Selection Guide

Features\Models			PICO51R	PICO52R	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	DDR4-2400	DDR3L-1867
Max. DRAM Capacity			16GB	32GB	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, 0 to 65535 sec.	65536 levels, 0 to 65535 sec.	65536 levels, 0 to 65535 sec.
SSD			1 x M.2 Key B 22 x 42	N/A	N/A
Digital I/O			4-channel in/out programmable	4-channel in/out programmable	N/A
I/O	SATA		N/A	1 x SATA-600	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 LVDS 1 x DisplayPort++ 1 x HDMI	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	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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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, 0 to 65535 sec.	65536 levels, 0 to 65535 sec.
SSD	1 x M.2 Key B 22 x 42 or 30 x 42	1 x M.2 Key B 22 x 42 or 30 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

PICO51R

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

| DDR4 | M.2 | +12V | AiRD | Full Solid Cap Design | DualView |

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	65536 levels, 0 to 65535 sec.
Expansion Interface	1 x M.2 Key E (PCIe x1, USB 2.0 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® Core™ i7-7600U @2.8 GHz 8GB DDR4, min. RMS. +12V@3.2A Intel® Core™ i5-7300U @2.6 GHz 8GB DDR4, min. RMS. +12V@2.6A Intel® Core™ i3-7100U @2.4 GHz 8GB DDR4, min. 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 I²C
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

▲ Side view

▲ Rear view

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			
594H51R2810E	USB cable 2 x 5P-cut P9 P2.0/2 x USB-4P, L=180 mm			
594H3186800E	Buzzer cable 9 x 5.5 mm 2-pin, L=40mm			

PICO52R

NEW

Pico-ITX SBC with 8th Gen Intel® Core™ i7/i5/i3 & Celeron Processor, DisplayPort, HDMI, LVDS and 2 GbE LAN

Features

- 8th gen Intel® Core™ i7/i5/i3 and Celeron® processor
- 1 DDR4 SO-DIMM for up to 16GB of memory
- 2 USB 2.0 and 2 USB 3.0
- 2 GbE LAN
- M.2 Key E
- Intel® AMT 11 supported

▲ APC201, chassis for PICO52R

DDR4	M.2	+12V	AiRD	Full Solid Cap Design	TripleView

DisplayPort | HDMI | LAN | 2 x USB 3.0
+12V power input
M.2 Key E 2 x30
LAN
SATA
2 x USB 2.0
LVDS
DDR4 SO-DIMM

2 x COM

▲ Side view   ▲ Rear view
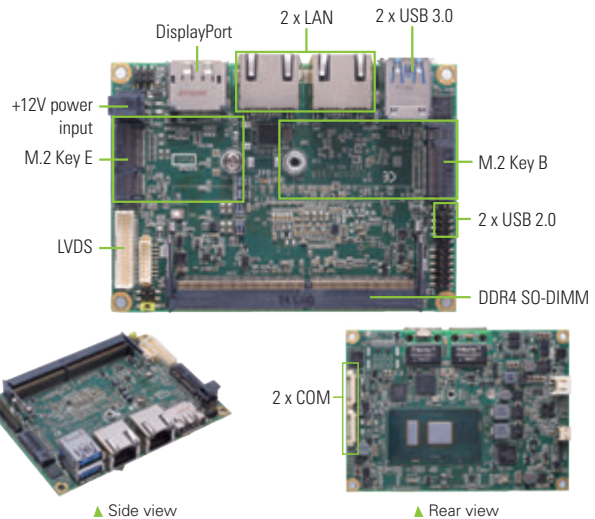
Core System

CPU	8th gen Intel® Core™ i7/i5/i3 and Celeron® processor onboard
System Memory	1 x 260-pin DDR4-2400 SO-DIMM, up to 32GB
Chipset	N/A
BIOS	AMI
SSD	64GB eMMC (optional)
Watchdog Timer	65536 levels, 0 to 65535 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® i7-8665UE @1.7 GHz 16GB DDR4, min. RMS. +12V@2.9A Intel® i5-8365UE @1.6 GHz 16GB DDR4, min. RMS. +12V@2.7A Intel® i3-8145UE @2.2 GHz 16GB DDR4, min. RMS. +12V@2.3A Intel® Celeron® 4305UE @2.0 GHz 16GB DDR4, min. RMS. +12V@2.0A
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	1 x SATA-3
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	N/A
USB	2 x USB 2.0 2 x USB 3.2 Gen2
Serial	2 x RS-232/422/485
TPM	N/A
SMBus	Yes; compatible with I²C
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 HDMI 1.4 1 x LVDS; 18/24-bit single/dual channel

Packing List

Accessories	
594H3160400E	Power cable, L=100mm
59429070600E	SATA power cable 2P, P=2.0, L=200 mm

Ordering Information

Standard	
PICO52RHPGG-i7-8665UE (P/N: E38H52R100)	8th gen Intel® Core™ i7-8665UE Pico-ITX SBC with DisplayPort, HDMI, LVDS, and 2 GbE LAN
PICO52RHPGG-i5-8365UE (P/N: E38H52R101)	8th gen Intel® Core™ i5-8365UEU Pico-ITX SBC with DisplayPort, HDMI, LVDS, and 2 GbE LAN
PICO52RHPGG-i3-8145UE (P/N: E38H52R102)	8th gen Intel® Core™ i3-8145UE Pico-ITX SBC with DisplayPort, HDMI, LVDS, and 2 GbE LAN
PICO52RHPGG-Celeron-4305UE (P/N: E38H52R103)	8th gen Intel® Celeron® 4305UE Pico-ITX SBC with DisplayPort, HDMI, LVDS, and 2 GbE LAN

Optional	
PICO52RHPGG-i7-8665UE W/FAN (P/N: E38H52R107)	8th gen Intel® Core™ i7-8665UE Pico-ITX SBC with DisplayPort, HDMI, LVDS, 2 GbE LAN and fan
PICO52RHPGG-i5-8365UE W/FAN (P/N: E38H52R108)	8th gen Intel® Core™ i5-8365UE Pico-ITX SBC with DisplayPort, HDMI, LVDS, 2 GbE LAN and fan
PICO52RHPGG-i3-8145UE W/FAN (P/N: E38H52R109)	8th gen Intel® Core™ i3-8145UE Pico-ITX SBC with DisplayPort, HDMI, LVDS, 2 GbE LAN and fan
PICO52RHPGG-CELERON-4305UE W/FAN (P/N: E38H52R110)	8th gen Intel® Celeron® 4305UE Pico-ITX SBC with DisplayPort, HDMI, LVDS, 2 GbE LAN and fan
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
594H51R2810E	USB cable 2 x 5P-cut P9 P2.0/2 x USB-4P, L=180 mm
594H3186800E	Buzzer cable 9 x 5.5 mm 2-pin, L=40mm

PICO317

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

Features

- Dual-core Intel® Atom® x5-E3940 processor (code name: Apollo Lake)
- 1 DDR3L-1867 SO-DIMM for up to 8GB of memory
- 2 COM, 2 USB 2.0, and 3 USB 3.0
- 1 Full-size PCI Express Mini Card slot with mSATA supported
- Wide operating temperature range from -40°C to +70°C

HDMI LAN USB 3.0 Audio

2 x USB 2.0

SATA 3.0

2 x USB 3.0 in Type C

LVDS

+5V power input

| DualView | Full Solid Cap Design | Ext. Temp |
| Low Power | Fanless | DDR3L | PCIe Mini | +5V | AiRD |

Full-size PCI Express Mini Card slot with mSATA supported

2 x COM

▲ Side view   DDR3L SO-DIMM   ▲ Rear 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	N/A
Watchdog Timer	65536 levels, 0 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	Intel® Atom® x5-E3940 @1.6 GHz 8GB DDR3L, min. RMS: +5V @2.9A
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 I²C
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
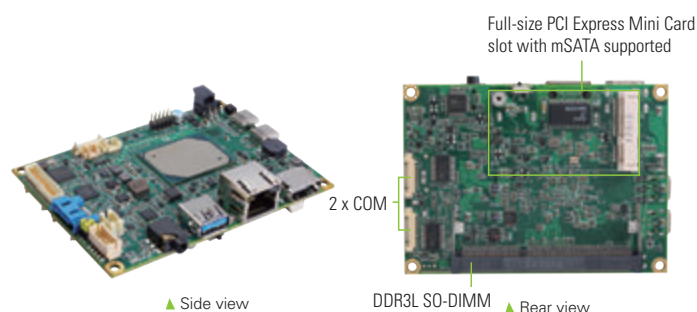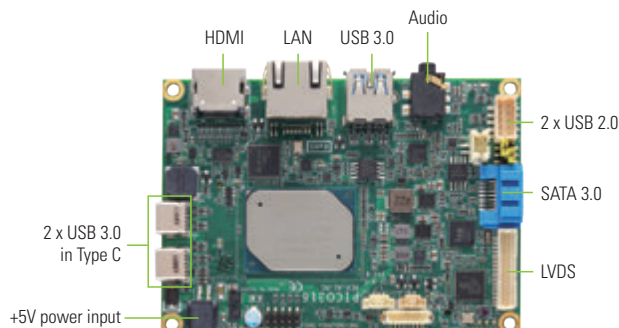
Packing List

Accessories

594H3160400E	Power cable, L=100 mm

Ordering Information

Standard

PICO317HGA-E3940 (P/N: E38H317100)	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 (P/N: E38H317101)	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
594E8422800E	2 USB 2.0 cables with bracket, L=180 mm

PICO318

Pico-ITX SBC with Intel® Pentium® Processor N4200/Celeron® Processor N3350 and J3455, DisplayPort, LVDS, 2 GbE LAN and Audio

Features

- Intel® Pentium® processor N4200/Celeron® processor N3350 and J3455
- 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

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

2 x LAN · 2 x USB 3.0 · DisplayPort · LVDS · +12V power input · 2 x USB 2.0

Half-size PCI Express Mini Card slot with mSATA supported · M.2 Key B · Audio · 2 x COM

▲ Side view · DDR3L SO-DIMM · ▲ Rear view

▲ Assembly view

Core System

CPU	Intel® Pentium® processor N4200 & Celeron® processor N3350 and J3455 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, USB 3.0, PCIe x2 optional) in 22 x 42 or 30 x 42
Watchdog Timer	65536 levels, 0 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, min. RMS: +12V @1.3A Intel® Celeron® N3350 @ 1.1 GHz 8GB DDR3L, min. RMS: +12V @1.1A Intel® Celeron® J3455 @1.5 GHz 8GB DDR3L, min. RMS: +12V @1.8A
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 I²C
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)
PICO318PGGA-J3455 (P/N: E38H318105)	Pico-ITX SBC with Intel® Celeron® processor J3455 (1.5 - 2.3 GHz, 2MB cache, 10W), 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
PICO318PGGA-J3455 60°C (P/N: E38H318106)	Pico-ITX SBC with Intel® Celeron® processor J3455 (1.5 - 2.3 GHz, 2MB cache, 10W), 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

Pico-ITX SBCs · 3

PICO319

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

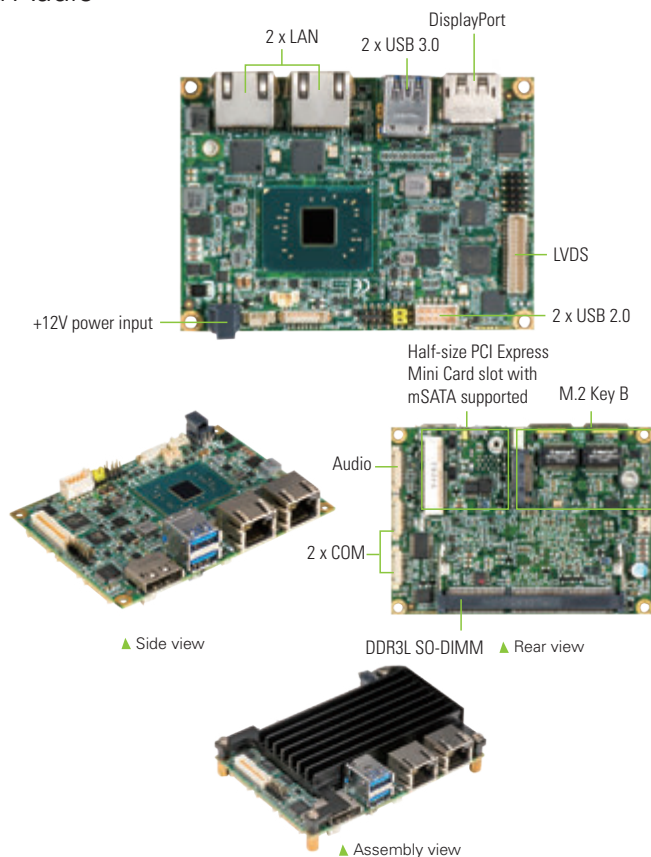| DualView | Full Solid Cap Design | M.2 | Ext. Temp |
| Low Power | Fanless | DDR3L | PCIe Mini | +12V | AiRD |

▲ 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, USB 3.0, PCIe x2 optional) in 22 x 42 or 30 x 42
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, min. 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 I²C
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)
7128H319000E	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

4

Embedded Vision Board

Axiomtek's embedded vision board series is designed to focus on vision inspection, guidance, measurement and identification applications. The scalable embedded vision boards help system integrator with easy customization and shortening the product development cycle while helping them speed up the time-to-market process to gain a competitive edge.

Boards and Modules

Embedded Vision Board

Selection Guide

Features\Models			MIRU130
Form Factor			244 x 170 mm
CPU Level			AMD® RYZEN™ Embedded V1807B and V1605B APU
CPU Socket			Onboard
Core Logic Chipset			SoC integrated
Memory Type			DDR4-3200/2400
Max. DRAM Capacity			16GB
Cache RAM Capacity			Integrated in CPU
BIOS			AMI UEFI BIOS
Watchdog Timer			255 levels, 1 to 255sec.
SSD			1 x M.2 Key B 22 x 42 or 22 x 80
Digital I/O			8 channels in/out programmable
I/O	**SATA**		1 x SATA-600
	Serial	**COM 1**	RS-232/422/485
		COM 2	RS-232
		COM 3	RS-232
		COM 4	RS-232
	USB		4 x USB 3.2 Gen2
SIM Card Slot			N/A
Display			1 x DisplayPort 1 x HDMI
Ethernet			2 x 10/100/1000 Mbps Ethernet 2 x PoE port 10/100/1000 Mbps
Audio			HD audio link
Hardware Monitoring			Yes
SMBus			Yes
Expansion Interface			1 x M.2 Key E 22 x 30 1 x PCIe x16 golden finger (PCIe x8 signal)
Power Management			ACPI
Battery			Lithium
Operating Temperature			-20°C to +60°C (-4°F to 140°F)
Relative Humidity			10% - 95%, non-condensing

MIRU130 NEW

Machine Vision SBC with AMD Ryzen™ Embedded V1807B and V1605B APU, DisplayPort, HDMI, 2 GbE LAN, 2 IEEE 802.3at PoE GbE LAN and Vision-specific I/O

Features

- AMD Ryzen™ Embedded V1807B and V1605B APU
- 2 DDR4 SO-DIMM for up to 16GB of memory
- 2 GbE LAN and 2 IEEE 802.3at PoE GbE LAN
- 2-CH camera trigger outputs
- 2-CH LED lighting control
- 1-CH incremental quadrature encoder input
- 4 isolated DIO

M.2 | +12V | DDR4 | DualView | Vision I/O

Core System

CPU	AMD Ryzen™ Embedded V1807B or V1605B APU onboard
System Memory	2 x 240-pin DDR4-2400 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 22x80 or 30x42
Watchdog Timer	255 levels, 1-255 sec.
Expansion Interface	1 x M.2 Key E (PCIe x1, USB 2.0) in 22x30 1 x PCIe x16 golden finger (PCIe x8 signal)
Battery Lithium	Lithium 3V/220mAH
Power Input	4 x 2 pin connector +12V DC-in AT Auto Power On function supported
Power Requirements	AMD V1807B@ 3.35GHz 16GB DDR4 Max RMS: +12V @6.4A AMD V1605B@ 2.0GHz 16GB DDR4 Max RMS: +12V @2.8A
Dimensions	244 x 170 mm
Board Thickness	1.6 mm
Operating Temperature	-20°C to +60°C (-4°F to 140°F)
Relative 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 with Realtek RTL8111G; support Wake-on-LAN, PXE Boot ROM 2 x PoE port 10/100/1000 Mbps with Realtek RTL8111G; support Wake-on-LAN, PXE Boot ROM and 30W (IEEE 802.3at)
Audio	N/A
USB	4 x USB 3.2 Gen2
Serial	1 x RS-232/422/485 3 x RS-232
TPM	SPI interface for TPM module
SMBus	Yes
Vision I/O	1 x Incremental quadrature encoder (A/B/Z) 2 x LED lighting control (24V/max 0.5A)
Digital I/O	2 x Trigger in (response time <1us, sink type @ 0-30V, source type) 2 x Trigger out for camera (response time <1us, @ 12V) 2 x Isolated digital in (sink type @ 0-30V, sink/source type) 2 x Isolated digital out (sink type, open collector @ 5-30V, 200mA max each)
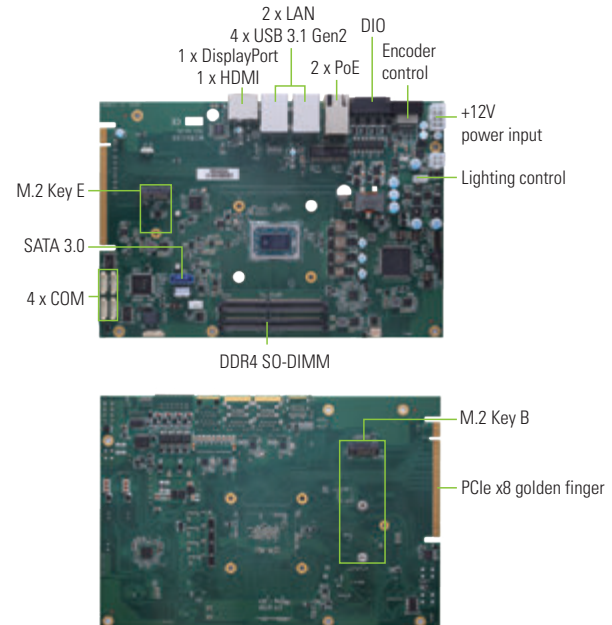
2 x LAN
4 x USB 3.1 Gen2
DIO
1 x DisplayPort
Encoder control
1 x HDMI
2 x PoE
+12V power input
Lighting control
M.2 Key E
SATA 3.0
4 x COM
DDR4 SO-DIMM
M.2 Key B
PCIe x8 golden finger

Display

Chipset	AMD Radeon™ RX Vega graphics
Memory Size	Share System memory
Display Interface	1 x DisplayPort 1 x HDMI

Packing List

Accessories	
594L1301200E	Lighting control cable
594L1303500E	DIO cable

Ordering Information

Standard	
MIRU130PH4G-V1807B (P/N: E38L130100)	AMD Ryzen™ V1807B (3.35 - 3.8 GHz, 2MB Cache, 45W) SBC with DisplayPort, HDMI, 2 GbE LAN, 2 PoE GbE LAN and fan
MIRU130PH4G-V1605B (P/N: E38L130101)	AMD Ryzen™ V1605B (2.0 - 3.6 GHz, 2MB Cache, 15W) SBC with DisplayPort, HDMI, 2 GbE LAN, 2 PoE GbE LAN, and fan
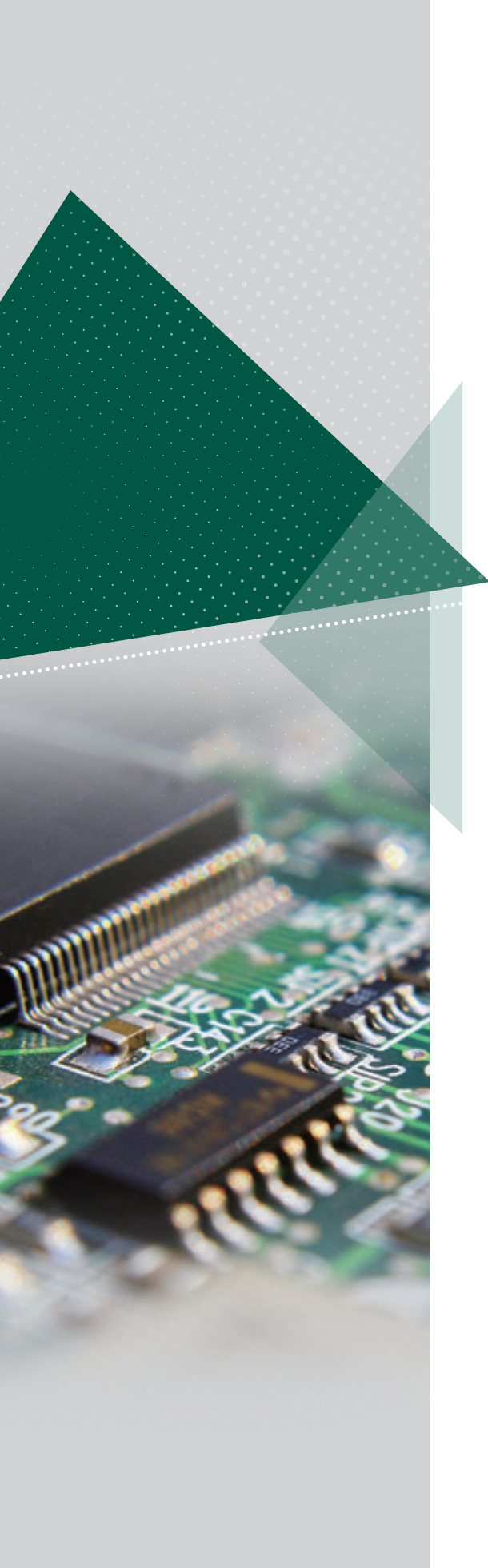
System on Modules

3.5" Embedded Boards

Pico-ITX SBCs

Embedded Vision Board

Mini-ITX Motherboards

ATX Motherboards

Slot CPU Cards

ARM-based Embedded Boards

Smart Display Modules and Smart Kiosk Modules

PCI Express Cards

Boards and Modules

5

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.

Mini-ITX Motherboards

Selection Guide

Features\Models	MANO522	MANO526	MANO540
Form Factor	Mini-ITX	Mini-ITX	Mini-ITX
CPU Level	9th/8th Gen Intel® Core™ i7/i5/i3 processor	9th/8th gen Intel® Core™ i7/i5/i3, Pentium® & Celeron® processor	10th gen Intel® Core™ i7/i5/i3, Pentium® & Celeron® processor
CPU Socket	LGA1151	LGA1151	LGA1200
Core Logic Chipset	Intel® H310	Intel® Q370	Intel® H410
Memory Type	DDR4-2666/2400	DDR4-2400/2666	DDR4-2666
Max. DRAM Capacity	64GB	32GB	32GB
Cache RAM Capacity	Integrated in CPU	Integrated in CPU	Integrated in CPU
BIOS	AMI	AMI	AMI
Watchdog Timer	255 levels, 1 to 255 sec.	255 levels, 1 to 255sec.	255 levels, 1 to 255sec.
SSD	1 x mSATA	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	RS-232/422/485	RS-232/422/485	RS-232/422/485
		COM 2	RS-232	RS-232	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		4 x USB 3.0 2 x USB 2.0	4 x USB 3.0 4 x USB 2.0	2 x USB 3.2 Gen1 5 x USB 2.0

Display	1 x VGA 1 x HDMI 1 x LVDS; 18/24-bit single/dual channel	1 x VGA 1 x DisplayPort++ 1 x eDP	1 x VGA 1 x HDMI 1 x DisplayPort++ 1 x eDP
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
Expansion Interface	1 x PCIe x16 1 x M.2 Key E 22 x 30	1 x M.2 Key E 1 x PCIe x16	1 x M.2 Key E 1 x PCI Express Mini Card 1 x PCIe x16
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

MANO522

Mini-ITX SBC with LGA1151 Socket 9th/8th Gen Intel® Core™ i7/i5/i3 Processor, HDMI, VGA, LVDS, USB 3.2 Gen 1, mSATA, M.2 and Dual GbE LAN

Features

- LGA1151 socket 9th/8th gen Intel® Core™ i7/i5/i3 processor
- Intel® H310 chipset
- 2 DDR4 SO-DIMM for up to 64GB of memory
- 4 USB 3.2 Gen 1 and 2 USB 2.0
- 6 COM ports
- 2 SATA-600 and 1 mSATA
- PCIe x16 and M.2 Key E

DualView | DDR4 | M.2 | PCIe Mini

Core System

CPU	LGA1151 socket 9th/8th gen Intel® Core™ i7/i5/i3 processor (up to 65W)
System Memory	2 x 260-pin DDR4-2666/2400 SO-DIMM, up to 64GB
Chipset	Intel® H310
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	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

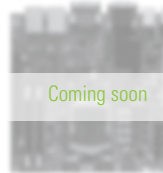|	
SATA	2 x SATA-600
Hardware Monitoring	Detect CPU/system temperature, voltage and fan speed
Ethernet	1 x 10/100/1000 Mbps Ethernet with Intel® i211-AT; supports Wake-on-LAN, PXE Boot ROM 1 x 10/100/1000 Mbps Ethernet with Intel® i219-LM; supports Wake-on-LAN, PXE Boot ROM
Audio	HD Codec audio as MIC-in/Line-in/Line-out with Realtek ALC662
USB	4 x USB 3.2 Gen 1 2 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	Firmware TPM 2.0 (fTPM 2.0)
SMBus	N/A
Digital I/O	8-channel in/out programmable
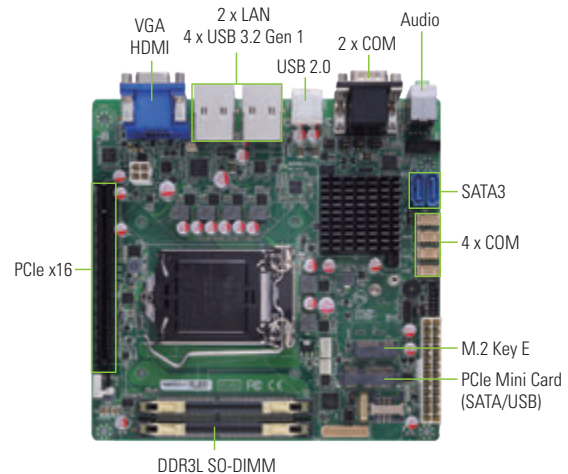
▲ Side view

Display

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

Packing List

Standard

I/O bracket

Ordering Information

Standard

MANO522VGGA-H310 (P/N:E38M522101)	Mini-ITX SBC with LGA1151 socket 9th/8th gen Intel® Core™ processor, Intel® H310, HDMI, VGA, LVDS, 2 GbE LAN, HD audio and gift box

Optional

594M5002100E	2 x COM port, P=2.0 mm, L=300 mm
59384500100E	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

Mini-ITX Motherboards

MANO526 `NEW`

Mini-ITX SBC with LGA1151 Socket 9th/8th Gen Intel® Core™ Processor,
Intel® Q370, VGA, DisplayPort++, eDP, 2 GbE LAN and HD Audio

Features

- LGA1151 socket 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

Coming soon

| TripleView | DDR4 | M.2 |

Core System

CPU	LGA1151 socket 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 ALC888S
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
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 eDP 1 x VGA

Packing List

Standard

I/O bracket

Ordering Information

Standard

MANO526	Mini-ITX SBC with LGA1151 socket 9th/8th gen Intel® Core™ processor, Intel® Q370, VGA, DisplayPort++, eDP, 2 GbE LAN and HD Audio

Optional

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
713PL76A000E	LGA1156 1.5U, H=36.5

MANO540 NEW

Mini-ITX SBCwith LGA1200 Socket 10th Gen Intel® Core™ i9/i7/i5/i3 Processor, VGA, DisplayPort, HDMI, eDP, 2 LAN and Audio
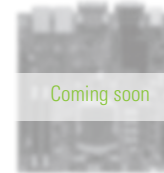
Features

- LGA1200 socket for 10th gen Intel® Core™ i9/i7/i5/i3 processor
- Intel® H410 chipset
- 2 DDR4 SO-DIMM for up to 64GB memory
- 4 USB 3.2 Gen1 and 1 USB 2.0 ports
- 6 COM ports

Coming soon
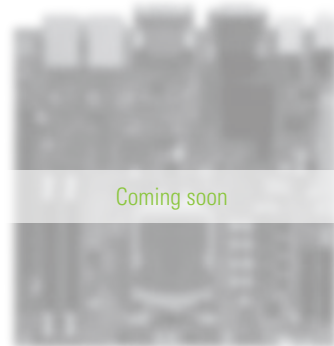
Core System

CPU	LGA1200 socket 10th gen Intel® Core™ i9/i7/i5/i3 processor
System Memory	2 x 260-pin DDR4-2933 SO-DIMM max. up to 64GB
Chipset	Intel® H410
BIOS	AMI
SSD	1 x M.2 Key B (PCIex2, USB2.0) in 22x42/80
Watchdog Timer	255 levels, 1 to 255 sec.
Expansion Interface	1 x PCIex16 1 x PCI Express Mini Card 1 x M.2 Key E (PCIe x1, USB2.0) in 22x30 1 x M.2 Key B (PCIe x2, USB2.0) in 30x42/52
Battery Lithium	Lithium 3V/220mAH
Power Input	2 x 12 ATX connector
ATX power	AT Auto Power On function supported
Size	170 x 170 mm
Board Thickness	1.6 mm
Temperature	0°C to +60°C (32°F to 140°F), operation
Relative Humidity	10%- 95% relative humidity, non-condensing

I/O

MIO	1 x RS-232/422/485 with 5V/12V powered 5 x RS-232
SATA	2 x SATA-600
Hardware Monitoring	Detect CPU/system temperature, voltage and fan speed
Ethernet	1 port 10/100/1000 Mbps supports Wake-on-LAN, PXE Boot ROM with Intel i211AT 1 port 10/100/1000 Mbps supports Wake-on-LAN, PXE Boot ROM with Intel i219V
Audio	HD Codec audio as MIC-in/Line-out with Realtek ALC6887
USB	4 x USB 3.2 Gen1 1 x USB 2.0
SMBus	N/A

Display

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

Packing List

Standard

I/O bracket

Ordering Information

Standard

MANO540PHGGA-H410	Mini-ITX SBC with LGA1200 socket 10th gen Intel® Core™ processor, Intel® H410 chipset, VGA, DisplayPort, HDMI, eDP, 2 LAN and Audio
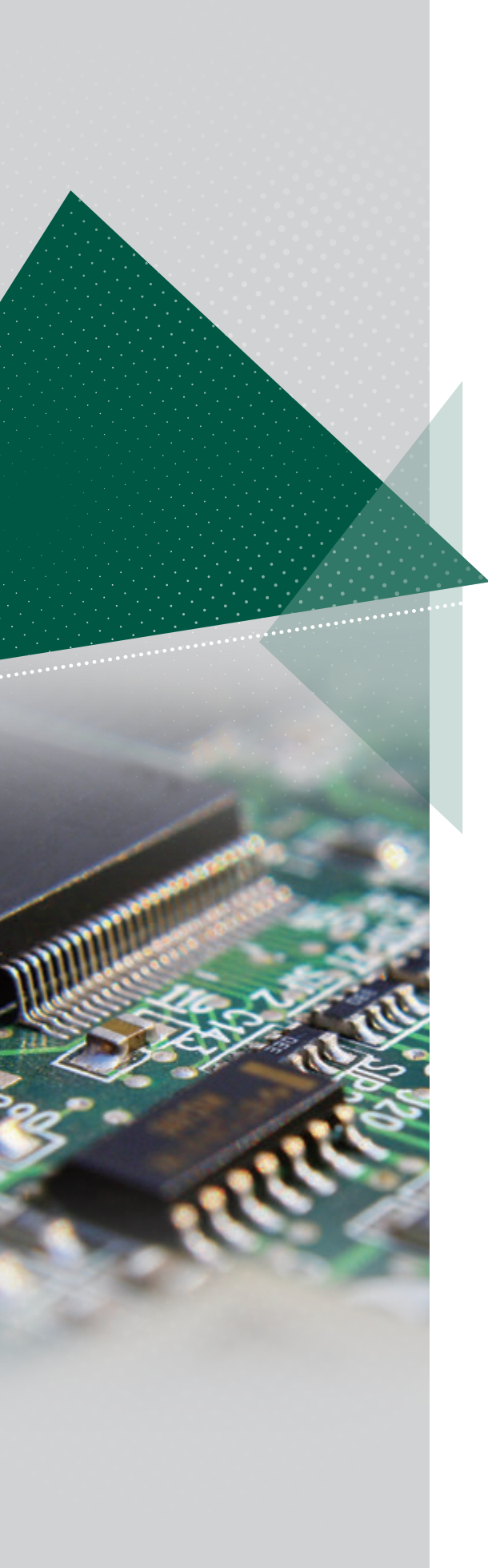
Mini-ITX Motherboards

5

System on Modules

3.5" Embedded Boards

Pico-ITX SBCs

Embedded Vision Board

Mini-ITX Motherboards

ATX Motherboards

Slot CPU Cards

ARM-based Embedded Boards

Smart Display Modules and Smart Kiosk Modules

PCI Express Cards

Boards and Modules

6

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.

Boards and Modules

ATX Motherboards

Selection Guide

Features\Models	IMB525R	IMB524R	IMB523R
Form Factor	ATX	ATX	ATX
CPU Level	9th/8th gen Intel® Core™ i7/i5/i3, Xeon® E, Pentium® or 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® C246	Intel® H310	Intel® Q370
Memory Type	DDR4-2666/2400	DDR4-2666/2400	DDR4-2666/2400
Max. DRAM Capacity	128GB	64GB	128GB
Cache RAM Capacity	Integrated in CPU	Integrated in CPU	Integrated in CPU
BIOS	AMI	AMI	AMI
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	5 x SATA-600	4 x SATA-600	5 x SATA-600
Serial COM 1	RS-232/422/485	RS-232/422/485	RS-232/422/485
Serial COM 2	RS-232/422/485	RS-232/422/485	RS-232/422/485
Serial COM 3	RS-232	RS-232	RS-232
Serial COM 4	RS-232	RS-232	RS-232
Serial COM 5	RS-232	RS-232	RS-232
Serial 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	4 x USB 3.1 Gen1, 5 x USB 2.0	2 x USB 3.1 Gen2, 4 x USB 3.1 Gen1, 7 x USB 2.0
SIM Card Slot	Yes	Yes	Yes
Display	1 x VGA, 1 x DVI-D, 1 x HDMI, 1 x DisplayPort++	1 x VGA, 1 x DVI-D, 1 x HDMI, 1 x DisplayPort++	1 x VGA, 1 x DVI-D, 1 x HDMI, 1 x DisplayPort++
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 PCIe Mini Card	1 x PCIe x16, 2 x PCIe x 1 w/PCIe x1 signal 4 x PCI, 1 x PCIe Mini Card	1 x PCIe x16, 2 x PCIe x4, 4 x PCI, 1 x PCIe Mini Card
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

ATX Motherboards
Selection Guide

Features\Models	IMB521R	IMB520R	IMB700	IMB530
Form Factor	ATX	ATX	ATX	ATX
CPU Level	9th/8th gen Intel® Core™ i7/i5/i3, Xeon® E, Pentium® or Celeron®	9th/8th gen Intel® Core™ i7/i5/i3, Pentium® & Celeron®	Intel® Xeon® Scalable Ice Lake-SP platform	10th gen Intel® Core™ i7/i5/i3, Xeon® W, Pentium® or Celeron®
CPU Socket	LGA1151	LGA1151	LGA4189	LGA1200
Core Logic Chipset	Intel® C246	Intel® Q370	Intel® C621A	Intel® W480E
Memory Type	DDR4-2400/2666	DDR4-2400/2666	DDR4-3200	DDR4-2933
Max. DRAM Capacity	128GB	128GB	384GB	128GB
Cache RAM Capacity	Integrated in CPU	Integrated in CPU	Integrated in CPU	Integrated in CPU
BIOS	AMI	AMI	AMI	AMI
Watchdog Timer	255 levels, 1 to 255 sec.	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	8-channel programmable
I/O — SATA	4 x SATA-600	4 x SATA-600	6 x SATA-600	4 x SATA-600
I/O — Serial — COM 1	RS-232/422/485	RS-232/422/485	RS-232/422/485	RS-232/422/485
I/O — Serial — COM 2	RS-232/422/485	RS-232/422/485	N/A	RS-232/422/485
I/O — Serial — COM 3	RS-232	RS-232	N/A	RS-232
I/O — Serial — COM 4	RS-232	RS-232	N/A	RS-232
I/O — Serial — COM 5	RS-232	RS-232	N/A	RS-232
I/O — Serial — COM 6	RS-232	RS-232	N/A	RS-232
I/O — 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	6 x USB 3.1 Gen1 7 x USB 2.0	2 x USB 3.2 Gen2, 4 x USB3.2 Gen1, 8 x USB 2.0
SIM Card Slot	N/A	N/A	N/A	N/A
Display	1 x VGA, 1 x DVI-D, 1 x HDMI, 1 x DisplayPort++	1 x VGA, 1 x DVI-D, 1 x HDMI, 1 x DisplayPort++	1 x VGA	1 x VGA, 1 x DVI-D, 1 x HDMI, 1 x DisplayPort++
Ethernet	2 x 10/100/1000 Mbps 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	HD Codec
Hardware Monitoring	Yes	Yes	Yes	Yes
SMBus	Yes	Yes	Yes	Yes
Expansion Interface	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	3 x PCIe x16, 3 x PCIe x8	2 x PCIe x16, 3 x PCIe x4, 1 x PCIe x4 w/PCIe x1 signal, 1 x PCI
Power Management	ACPI	ACPI	ACPI	ACPI
Battery	Lithium	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)	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	10% to 95%, non-condensing
EMI Compliance	CE	CE	CE	CE

ATX Motherboards

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IMB525R `NEW`

ATX Motherboard with LGA1151 Socket 9th/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 9th/8th gen Intel® Core™ i7/i5/i3, Xeon® E, Pentium® or Celeron® processor (Coffee Lake Refresh)
- Four 288-pin DDR4-2666/2400 ECC DIMM for up to 128GB of memory
- DisplayPort, DVI-D, HDMI and VGA with triple-view supported
- 5 SATA-600 with RAID 0/1/5/10
- 1 PCI Express Mini Card slot
- 2 USB 3.1 Gen2 and four USB 3.1 Gen1
- TPM 2.0 supported (optional)

TripleView | PCIe Mini | USB 3.0 | DDR4

▲ Side view

Core System

CPU	LGA1151 socket 9th/8th gen Intel® Core™ i7/i5/i3, Xeon® E, Pentium® or Celeron® processor (up to 95W)
System Memory	4 x 288-pin DDR4-2666/2400 ECC DIMM, up to 128GB (Intel® Core™ i7/i5 only support non-ECC)
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 & SATA
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	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

IMB525RVDHGGA-C246 (P/N: E38F525104)	ATX motherboard with LGA1151 socket 9th/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)
5076E510000E	CPU heatsink for 1U chassis (AX61135TM)
50761222000E	CPU cooler for 2U, 4U, and wall mount chassis

Processor List

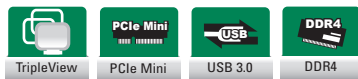| CPU	Speed	Cache	Cores	TDP
Intel® Core™ i9-9900K Processor	3.6 GHz	16 MB	8	95 W
Intel® Core™ i7-9700TE Processor	1.8 GHz	12 MB	8	35 W
Intel® Core™ i7-8700K Processor	3.7 GHz	12 MB	6	95 W
Intel® Core™ i7-8700 Processor	3.2 GHz	12 MB	6	65 W
Intel® Core™ i7-8700T Processor	2.4 GHz	12 MB	6	65 W
Intel® Core™ i5-9500E Processor	3.0 GHz	9 MB	6	65 W
Intel® Core™ i5-9500TE Processor	2.2 GHz	9 MB	6	35 W
Intel® Core™ i5-9400 Processor	2.9 GHz	9 MB	6	65 W
Intel® Core™ i5-8400 Processor	2.8 GHz	9 MB	6	65 W
Intel® Core™ i5-8500T Processor	2.1 GHz	9 MB	6	35 W
Intel® Core™ i3-9100 Processor	3.6 GHz	6 MB	4	65 W
Intel® Core™ i3-9100E Processor	3.1 GHz	6 MB	4	65 W
Intel® Core™ i3-9100TE Processor	2.2 GHz	6 MB	4	35 W
Intel® Core™ i3-8100 Processor	3.6 GHz	6 MB	4	65 W
Intel® Core™ i3-8100T Processor	3.1 GHz	6 MB	4	35 W
Intel® Xeon® E-2278GE Processor	3.3 GHz	16 MB	8	80 W
Intel® Pentium® Gold G5400T Processor	3.1 GHz	4 MB	2	35 W
Intel® Celeron® G4900T Processor	2.9 GHz	2 MB	2	35 W

IMB524R `NEW`

ATX Motherboard with LGA1151 Socket 9th/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 9th/8th gen Intel® Core™ i7/i5/i3, Pentium® & Celeron® processor (Coffee Lake Refresh)
- Two 288-pin DDR4-2666/2400 DIMM for up to 64GB of memory
- DisplayPort++, DVI-D, HDMI and VGA with dual-view supported
- 4 SATA-600
- 1 PCI Express Mini Card slot
- 4 USB 3.1 Gen1 and 5 USB 2.0
- TPM 2.0 supported (optional)

DualView | USB 3.0 | DDR4

Labels: LAN & USB 3.1 Gen1, Audio, LAN & USB 3.1 Gen1, DisplayPort & HDMI, VGA & DVI-D, PCIe x16, PCI, PCIe x4 PCI, COM & PS/2 KB & MS, 5 x COM, USB 2.0, USB 2.0 180D, DDR4, PCIe Mini Card, 4 x SATA 3.0, DIO SMBus

▲ Side view

Core System

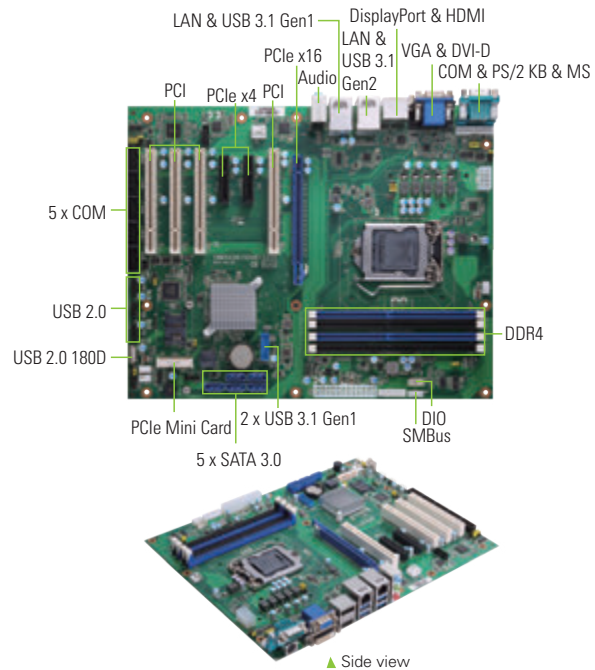|	
CPU	LGA1151 socket 9th/8th gen Intel® Core™ i7/i5/i3, Pentium® & Celeron® processor (up to 95W)
System Memory	2 x 288-pin DDR4-2666/2400 DIMM, up to 64GB
Chipset	Intel® H310
BIOS	AMI BIOS
Watchdog Timer	255 levels, 1 to 255 sec.
Expansion Interface	1 x PCIe x16 slot 2 x PCIe x4 slot (2 PCIe x1 signal) 4 x PCI slot 1 x PCIe Mini Card slot with PCIe x1 & USB 2.0
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

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

IMB524RVDHGGA-H310 (P/N: E38F524103)	ATX motherboard with LGA1151 socket 9th/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)
5076E510000E	CPU heatsink for 1U chassis (AX61135TM)
50761222000E	CPU cooler for 2U, 4U, and wall mount chassis

Processor List

CPU	Speed	Cache	Cores	TDP
Intel® Core™ i7-9700TE Processor	1.8 GHz	12 MB	8	35 W
Intel® Core™ i7-8700K Processor	3.7 GHz	12 MB	6	95 W
Intel® Core™ i7-8700 Processor	3.2 GHz	12 MB	6	65 W
Intel® Core™ i7-8700T Processor	2.4 GHz	12 MB	6	65 W
Intel® Core™ i5-9500TE Processor	2.2 GHz	9 MB	6	35 W
Intel® Core™ i5-9500E Processor	3.0 GHz	9 MB	6	65 W
Intel® Core™ i5-9400 Processor	2.9 GHz	9 MB	6	65 W
Intel® Core™ i5-8400 Processor	2.8 GHz	9 MB	6	65 W
Intel® Core™ i3-9100 Processor	3.6 GHz	6 MB	4	65 W
Intel® Core™ i3-9100E Processor	3.1 GHz	6 MB	4	65 W
Intel® Core™ i3-9100TE Processor	2.2 GHz	6 MB	4	35 W
Intel® Core™ i3-8100 Processor	3.6 GHz	6 MB	4	65 W
Intel® Core™ i3-8100T Processor	3.1 GHz	6 MB	4	35 W
Intel® Pentium® Gold G5400T Processor	3.1 GHz	4 MB	2	35 W
Intel® Celeron® G4900T Processor	2.9 GHz	2 MB	2	35 W

IMB523R `NEW`

ATX Motherboard with LGA1151 Socket 9th/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 9th/8th gen Intel® Core™ i7/i5/i3, Pentium® & Celeron® processor (Coffee Lake Refresh)
- Four 288-pin DDR4-2666/2400 DIMM for up to 128GB of memory
- DisplayPort, DVI-D, HDMI and VGA with triple-view supported
- 5 SATA-600 with RAID 0/1/5/10
- 1 PCI Express Mini Card slot
- Two USB 3.1 Gen2 and four USB 3.1 Gen1
- TPM 2.0 supported (optional)

TripleView **USB 3.0** **DDR4**

▲ Side view
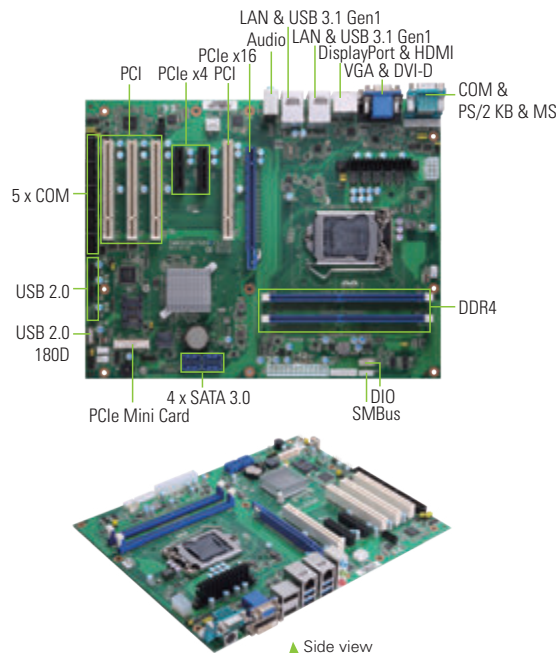
Core System

CPU	LGA1151 socket 9th/8th gen Intel® Core™ i7/i5/i3, Pentium® & Celeron® processor (up to 95W)
System Memory	4 x 288-pin DDR4-2666/2400 DIMM, up to 128GB
Chipset	Intel® Q370
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 & SATA
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	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

IMB523RVDHGGA-Q370 (P/N: E38F523103)	ATX motherboard with LGA1151 socket 9th/8th gen Intel® Core™ i7/i5/i3, Pentium® & Celeron® processor, Intel® Q370, USB 3.1 Gen2, SATA 3.0, 2 GbE LANs, 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)
5076E510000E	CPU heatsink for 1U chassis (AX61135TM)
50761222000E	CPU cooler for 2U, 4U, and wall mount chassis

Processor List

CPU	Speed	Cache	Cores	TDP
Intel® Core™ i9-9900K Processor	3.6 GHz	16 MB	8	95 W
Intel® Core™ i7-9700TE Processor	1.8 GHz	12 MB	8	35 W
Intel® Core™ i7-8700K Processor	3.7 GHz	12 MB	6	95 W
Intel® Core™ i7-8700 Processor	3.2 GHz	12 MB	6	65 W
Intel® Core™ i7-8700T Processor	2.4 GHz	12 MB	6	65 W
Intel® Core™ i5-9500E Processor	3.0 GHz	9 MB	6	65 W
Intel® Core™ i5-9500TE Processor	2.2 GHz	9 MB	6	35 W
Intel® Core™ i5-9400 Processor	2.9 GHz	9 MB	6	65 W
Intel® Core™ i5-8400 Processor	2.8 GHz	9 MB	6	65 W
Intel® Core™ i5-8500T Processor	2.1 GHz	9 MB	6	35 W
Intel® Core™ i3-9100 Processor	3.6 GHz	6 MB	4	65 W
Intel® Core™ i3-9100E Processor	3.1 GHz	6 MB	4	65 W
Intel® Core™ i3-9100TE Processor	2.2 GHz	6 MB	4	35 W
Intel® Core™ i3-8100 Processor	3.6 GHz	6 MB	4	65 W
Intel® Core™ i3-8100T Processor	3.1 GHz	6 MB	4	35 W
Intel® Pentium® Gold G5400T Processor	3.1 GHz	4 MB	2	35 W
Intel® Celeron® G4900T Processor	2.9 GHz	2 MB	2	35 W

IMB521R

ATX Motherboard with LGA1151 Socket 9th/8th Gen Intel® Core™ i7/i5/i3, Xeon® E Processor, Intel® C246, ECC DDR4, USB 3.1 Gen2, SATA 3.0, Dual LAN, VGA, DisplayPort++, DVI-D, and HDMI

Features

- LGA1151 socket 9th/8th gen Intel® Core™ i7/i5/i3, Xeon® E, Pentium® or Celeron® processor (Coffee Lake Refresh)
- Four 288-pin DDR4-2666/2400 ECC DIMM for up to 128GB 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

Labels: LAN & USB 3.1 Gen1; LAN & USB 3.1 Gen2; DisplayPort & HDMI; VGA & DVI-D; PCIe x16; PCI; Audio; PCIe x1; PCIe x4; COM & PS/2 KB & MS; 5 x COM; USB 2.0; USB 2.0 180D; 4 x SATA 3.0; USB 3.1 Gen1; DIO SMBus; DDR4
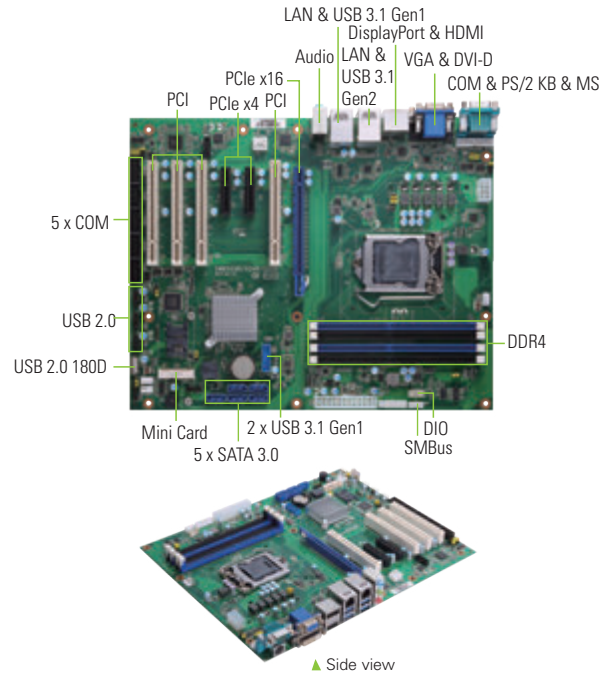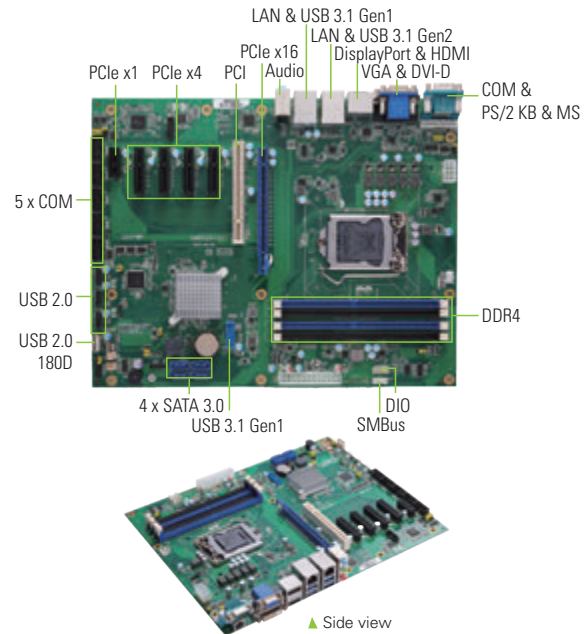
▲ Side view

Core System

CPU	LGA1151 socket 9th/8th gen Intel® Core™ i7/i5/i3, Xeon® E, Pentium® or Celeron® processor (up to 95W)
System Memory	4 x 288-pin DDR4-2666/2400 ECC DIMM, up to 128GB (Intel® Core™ i7/i5 only support non-ECC)
Chipset	Intel® C246
BIOS	AMI BIOS
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

IMB521R (P/N: E38F521103)	ATX motherboard with LGA1151 socket 9th/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)
5076E510000E	CPU heatsink for 1U chassis (AX61135TM)
50761222000E	CPU cooler for 2U, 4U, and wall mount chassis

Processor List

CPU	Speed	Cache	Cores	TDP
Intel® Core™ i9-9900K Processor	3.6 GHz	16 MB	8	95 W
Intel® Core™ i7-9700TE Processor	1.8 GHz	12 MB	8	35 W
Intel® Core™ i7-8700K Processor	3.7 GHz	12 MB	6	95 W
Intel® Core™ i7-8700 Processor	3.2 GHz	12 MB	6	65 W
Intel® Core™ i7-8700T Processor	2.4 GHz	12 MB	6	65 W
Intel® Core™ i5-9500E Processor	3.0 GHz	9 MB	6	65 W
Intel® Core™ i5-9400 Processor	2.9 GHz	9 MB	6	65 W
Intel® Core™ i5-9500TE Processor	2.2 GHz	9 MB	6	35 W
Intel® Core™ i5-8400 Processor	2.8 GHz	9 MB	6	65 W
Intel® Core™ i5-8400T Processor	2.1 GHz	9 MB	6	35 W
Intel® Core™ i3-9100 Processor	3.6 GHz	6 MB	4	65 W
Intel® Core™ i3-9100E Processor	3.1 GHz	6 MB	4	65 W
Intel® Core™ i3-9100TE Processor	2.2 GHz	6 MB	4	35 W
Intel® Core™ i3-8100 Processor	3.6 GHz	6 MB	4	65 W
Intel® Core™ i3-8100T Processor	3.1 GHz	6 MB	4	35 W
Intel® Xeon® E-2176G Processor	3.7 GHz	12 MB	6	80 W
Intel® Xeon® E-2278GE Processor	3.3 GHz	16 MB	8	80 W
Intel® Pentium® Gold G5400T Processor	3.1 GHz	4 MB	2	35 W
Intel® Celeron® G4900T Processor	2.9 GHz	2 MB	2	35 W

IMB520R

ATX Motherboard with LGA1151 Socket 9th/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 9th/8th gen Intel® Core™ i7/i5/i3, Pentium® & Celeron® processor (Coffee Lake Refresh)
- Four 288-pin DDR4-2666/2400 DIMM for up to 128GB 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
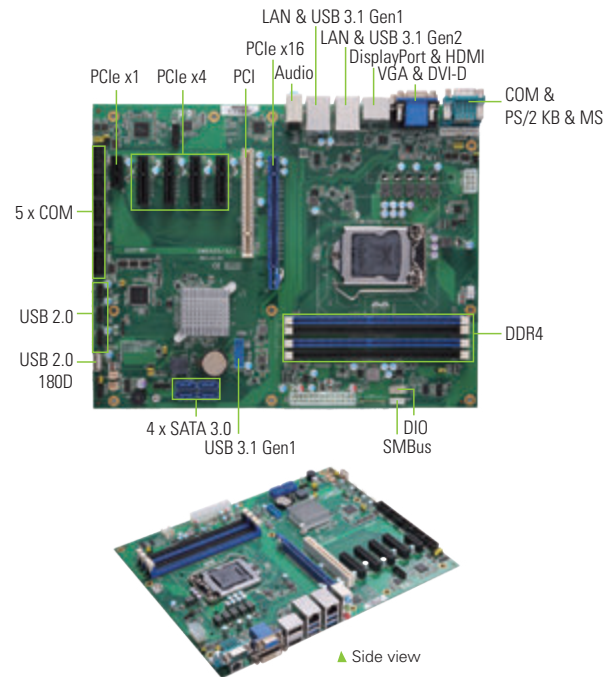
Core System

CPU	LGA1151 socket 9th/8th gen Intel® Core™ i7/i5/i3, Pentium® & Celeron® processor (up to 95W)
System Memory	4 x 288-pin DDR4-2666/2400 DIMM, up to 128GB
Chipset	Intel® Q370
BIOS	AMI BIOS
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

IMB520R (P/N: E38F520103)	ATX motherboard with LGA1151 socket 9th/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)
5076E510000E	CPU heatsink for 1U chassis (AX61135TM)
50761222000E	CPU cooler for 2U, 4U, and wall mount chassis

Processor List

CPU	Speed	Cache	Cores	TDP
Intel® Core™ i9-9900K Processor	3.6 GHz	16 MB	8	95 W
Intel® Core™ i7-9700TE Processor	1.8 GHz	12 MB	8	35 W
Intel® Core™ i7-8700K Processor	3.7 GHz	12 MB	6	95 W
Intel® Core™ i7-8700 Processor	3.2 GHz	12 MB	6	65 W
Intel® Core™ i7-8700T Processor	2.4 GHz	12 MB	6	65 W
Intel® Core™ i5-9500E Processor	3.0 GHz	9 MB	6	65 W
Intel® Core™ i5-9500TE Processor	2.2 GHz	9 MB	6	35 W
Intel® Core™ i5-9400 Processor	2.9 GHz	9 MB	6	65 W
Intel® Core™ i5-8400 Processor	2.8 GHz	9 MB	6	65 W
Intel® Core™ i5-8500T Processor	2.1 GHz	9 MB	6	35 W
Intel® Core™ i3-9100 Processor	3.6 GHz	6 MB	4	65 W
Intel® Core™ i3-9100E Processor	3.1 GHz	6 MB	4	65 W
Intel® Core™ i3-9100TE Processor	2.2 GHz	6 MB	4	35 W
Intel® Core™ i3-8100 Processor	3.6 GHz	6 MB	4	65 W
Intel® Core™ i3-8100T Processor	3.1 GHz	6 MB	4	35 W
Intel® Pentium® Gold G5400T Processor	3.1 GHz	4 MB	2	35 W
Intel® Celeron® G4900T Processor	2.9 GHz	2 MB	2	35 W

IMB700 `NEW`

ATX Motherboard with LGA4189 Socket Intel® Xeon® Scalable Processor,
Intel® C621A, 3 PCIe x16, 3 PCIe x8, VGA, NVMe

Features

- Intel® Xeon® Scalable processor (Ice Lake-SP)
- Six 288-pin DDR4-3200 RDIMM/LRDIMM for up to 384GB of memory
- 3 PCIe x16, 3 PCIe x8
- Supports M.2 Key M
- TPM 2.0 supported (optional)
- Supports multiple graphic cards
- Supports internal USB dongle

▲ Side view

Supports | Intel Xeon inside | USB 3.0 | DDR4 | PCIe X16
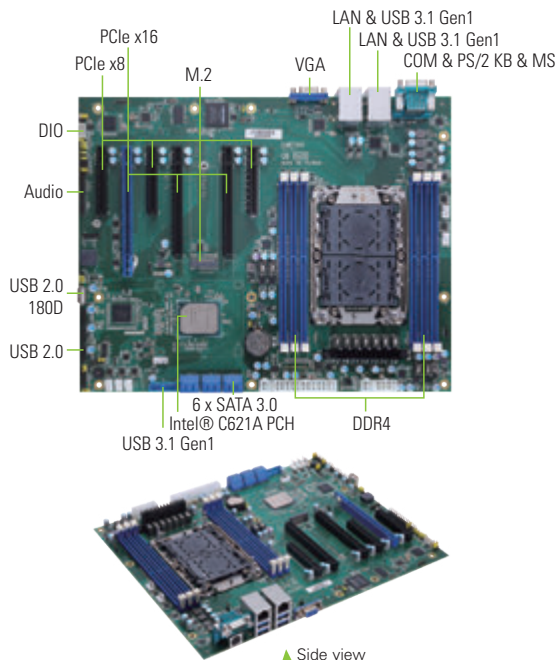
Core System

CPU	Intel® Xeon® Scalable processor (TDP up tp 270W)
System Memory	6 x 288-pin DDR4-3200 RDIMM, up to 384GB 6 x 288-pin DDR4-3200 LRDIMM, up to 384GB
Chipset	Intel® C621A
BIOS	AMI
SSD	M.2 key M 2280 with PCIe x4 signal
Watchdog Timer	255 levels, 1 to 255 sec.
Expansion Interface	2 x PCIe x16 slot (signal Gen 4) 1 x PCIe x16 slot (signal: x16 or x8) 1 x PCIe x8 slot (signal: x0 or x8) 2 x PCIe x8 slot
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	2 x 10/100/1000 Mbps Ethernet (Intel® i210-AT)
Audio	HD Codec audio as MIC-in/Line-in/Line-out with audio kit AX93242 (optional)
USB	4 x USB 3.1 Gen1 (rear I/O) 2 x USB 3.1 Gen1 (internal box header) 6 x USB 2.0 (internal box header) 1 x USB 2.0 (180D TypeA)
Serial	1 x RS-232/422/485 (rear I/O)
PS/2 Combo Port	1 x PS/2 keyboard and mouse
TPM	TPM 2.0 module (optional)
SMBus	Yes
Digital I/O	8-channel programmable

Display

Graphic	AST2510
Memory Size	N/A
Display Interface	1 x VGA

Ordering Information

Standard

IMB700	ATX motherboard with LGA4189 socket Intel® Xeon® Scalable processor, Intel® C621A, 3 PCIe x16, 3 PCIe x8, VGA, and NVMe

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
59380402010E	1 x COM port cable with bracket, P=2.54 mm, L=300 mm
83935151000E	TPM 2.0 module (AX93515)
E393242100	AX93242-RC HD audio converter kit

IMB530 `NEW`

ATX Motherboard with LGA1200 Socket 10th Gen Intel® Core™ i9/i7/i5/i3, Xeon® E Processor, Intel® W480E, ECC DDR4, USB 3.2 Gen2, NVMe, Dual LAN, VGA, DisplayPort++, DVI-D, and HDMI

Features

- LGA1200 socket 10th gen Intel® Core™ i9/i7/i5/i3, Xeon® E, Pentium® or Celeron® processor (Comet Lake)
- Four 288-pin DDR4-2933 ECC/non-ECC un-buffered Long-DIMM, up to 128GB
- DisplayPort++, VGA, DVI-D and HDMI with triple-view supported
- Supports M.2 Key M 2280
- 2 USB 3.2 Gen2 and 4 USB 3.2 Gen1
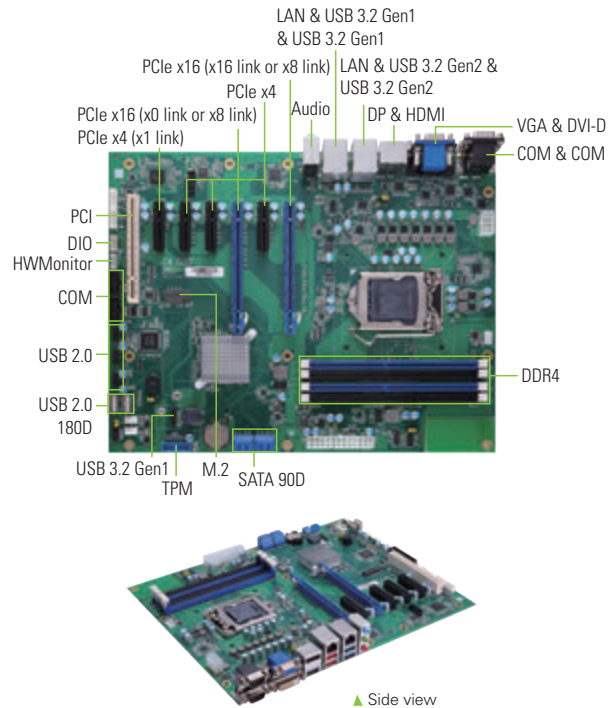- TPM 2.0 supported (optional)

TripleView | USB 3.2 Gen2 | M.2 | Flexible Slots

Core System

CPU	LGA1200 socket 10th gen Intel® Core™ i9/i7/i5/i3, Xeon® E, Pentium® or Celeron® processor (up to 125W)
System Memory	4 x 288-pin DDR4-2933 ECC/non-ECC un-buffered Long-DIMM, up to 128GB (ECC memory is available for Intel® Xeon® and Core™ i3 processors)
Chipset	Intel® W480E
BIOS	AMI BIOS
SSD	M.2 Key M 2280 (signal: PCIe x4/SATA)
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) 3 x PCIe x4 slot open ended 1 x PCIe x4 slot open ended (signal: x1) 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
USB	2 x USB 3.2 Gen2 (rear I/O) 4 x USB 3.2 Gen1 (rear I/O, internal box header) 8 x USB 2.0 (pin header, 2 x 180D type A)
Serial	4 x RS-232 (Internal box header) 2 x RS-232/422/485 (rear I/O)
PS/2 Combo Port	1 x PS/2 keyboard (internal box header)
TPM	TPM 2.0 (optional)
SMBus	Yes
Digital I/O	8-channel programmable

LAN & USB 3.2 Gen1 & USB 3.2 Gen1
PCIe x16 (x16 link or x8 link)
PCIe x4
LAN & USB 3.2 Gen2 & USB 3.2 Gen2
PCIe x16 (x0 link or x8 link)
Audio
DP & HDMI
PCIe x4 (x1 link)
VGA & DVI-D
COM & COM
PCI
DIO
HWMonitor
COM
DDR4
USB 2.0
USB 2.0 180D
USB 3.2 Gen1
M.2
SATA 90D
TPM

▲ 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

IMB530 (P/N: E38F530101)	ATX motherboard with LGA1200 socket 10th gen Intel® Core™ i9/i7/i5/i3, Xeon® E, Pentium® or Celeron® processor, Intel® W480E, USB 3.2 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 3.2 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)
5076E510000E	CPU heatsink for 1U chassis (AX61135TM)
50761222000E	CPU cooler for 2U, 4U, and wall mount chassis

7

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.

Boards and Modules

PICMG 1.3 Full-size/Half-size CPU Cards

Selection Guide

Features\Models		SHB140	SHB150R	SHB250R
Form Factor		PICMG 1.3	PICMG1.3	PICMG 1.3
CPU Level		7th/6th gen Intel® Core™ i7/i5/i3, Pentium® or Celeron®	9th/8th gen Intel® Core™ i7/i5/i3, Xeon® E, Pentium® or Celeron®	9th/8th gen Intel® Core™ i7/i5/i3, Xeon® E, Pentium® or Celeron®
CPU Socket		LGA1151	LGA1151	LGA1151
Core Logic Chipset		Intel® Q170/H110	Intel® C246/Q370/H310	Intel® C246/Q370/H310
Memory Type		DDR4-2400/2133	DDR4-2666/2400	DDR4-2666/2400
Max. DRAM Capacity		32GB	64GB	64GB
Cache RAM Capacity		Integrated in CPU	Integrated in CPU	Integrated in CPU
BIOS		AMI	AMI	AMI
Watchdog Timer		255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.
SSD		N/A	M.2 Key M 2280 w/PCIe x4 signal (C246,Q370)	M.2 Key M 2242
Digital I/O		N/A	N/A	N/A
I/O	IDE	N/A	N/A	N/A
	SATA	Q170: 6 x SATA-600, support RAID 0/1/5/10 H110: 4 x SATA-600	C246/Q370: 6 x SATA-600, support RAID 0/1/5/10 H310: 2 x SATA-600	C246/Q370: 2 x SATA-600, support RAID 0/1 H310: 2 x SATA-600
	FDD	N/A	N/A	N/A
	LPT	1 x LPT	1 x LPT	N/A
	Serial — COM 1	RS-232/422/485	RS-232/422/485	RS-232/422/485
	Serial — COM 2	RS-232/422/485	RS-232/422/485	RS-232/422/485
	Serial — COM 3	RS-232	RS-232	N/A
	Serial — COM 4	RS-232	RS-232	N/A
	Serial — COM 5	N/A	N/A	N/A
	Serial — COM 6	N/A	N/A	N/A
	USB	Q170: 2 x USB 3.0 & 10 x USB 2.0 H110: 2 x USB 3.0 & 8 x USB 2.0	C246/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	4 x USB 3.1 Gen1, 4 x USB 2.0
	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 DisplayPort++	1 x DVI-I, 1 x DisplayPort++
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

* All specifications and photos are subject to change without notice. **www.axiomtek.com** © 2021 Axiomtek Co., Ltd. All rights reserved.

SHB140

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

Features

- LGA1151 Socket 7th/6th gen Intel® Core™ processor
- Intel® Q170/H110 chipset
- 2 DDR4-2400 un-buffered DIMM for up to 32GB of memory
- 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)

DDR4-2133 DIMM · SATA-600 · COM · Audio · LAN · DVI-I · USB 3.0 · LGA1151 · USB 2.0 · Internal PS/2 KB & MS

TripleView: Q170 · DualView: H110 · DDR4 · USB 3.0 · Full Solid Cap Design

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
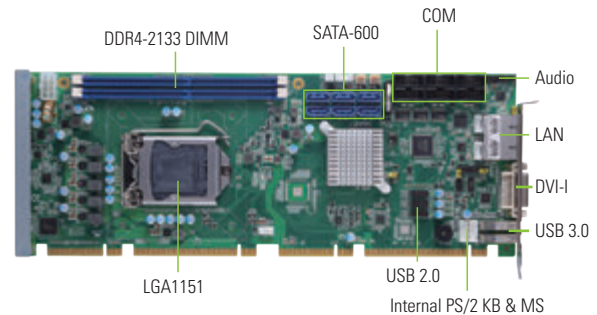
Display

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
59380402010E	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 LANs, audio and PCIe x1
SHB140DGGA (P/N: E38C140102)	PICMG 1.3 full-size CPU card with LGA1151 socket, Intel® Q170, DVI-I, 2 GbE LANs, audio and PCIe x4
SHB140DGGA (P/N: E38C140107)	PICMG 1.3 full-size CPU card with LGA1151 socket, Intel® Q170, DVI-I, 2 GbE LANs, audio and PCIe x4, TPM (limted to MoQ)
SHB140DGGA (P/N: E38C140100)	PICMG 1.3 full-size CPU card with LGA1151 socket, Intel® H110, DVI-I, 2 GbE LANs, audio and PCIe x1
SHB140DGGA (P/N: E38C140104)	PICMG 1.3 full-size CPU card with LGA1151 socket, Intel® H110, DVI-I, 2 GbE LANs, audio and PCIe x4
SHB140DGGA (P/N: E38C140105)	PICMG 1.3 full-size CPU card with LGA1151 socket, Intel® H110, DVI-I, 2 GbE LANs, audio and PCIe x4, TPM (limted to MoQ)

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=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

SHB150R `NEW`

PICMG 1.3 Full-size CPU Card with LGA1151 Socket 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/Gen2, Dual LAN and DVI-I

Features

- LGA1151 Socket 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 Long-DIMM for up to 64GB of memory
- Supports Intel® AMT and vPro (C246/Q370)
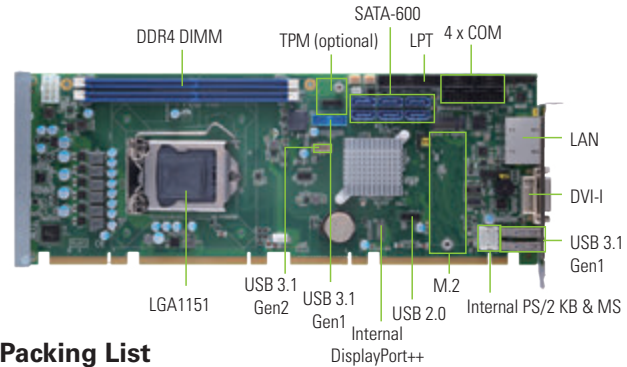- TPM 2.0 supported (optional)
- Supports M.2 Key M (C246/Q370)

TripleView: Q370/C246 | DualView: H310 | DDR4 | USB 3.1 | Full Solid Cap Design | AMS.AXView

Core System

CPU	LGA1151 9th/8th gen Intel® Core™ i7/i5/i3, Xeon® E (C246), Pentium® or Celeron® processor (up to 95W)
System Memory	C246: 2 x 288-pin 2666/2400 with ECC un-buffered Long-DIMM (Intel® Core™ i7/i5 only support non-ECC), up to 64GB Q370/H310: 2 x 288-pin 2666/2400 un-buffered Long-DIMM, up to 64GB
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	Intel® Core™ i7-9700TE with 32GB DDR4-2666 x 2 +12V @ 2.8A, +5V @ 2.4A, +3.3V @ 1.3A
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	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)
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)

DDR4 DIMM · SATA-600 · TPM (optional) · LPT · 4 x COM · LAN · DVI-I · USB 3.1 Gen1 · Internal PS/2 KB & MS · M.2 · USB 2.0 · Internal DisplayPort++ · USB 3.1 Gen1 · USB 3.1 Gen2 · LGA1151

Packing List

Standard

CPU card		
59380402010E	COM cable with bracket	1
59415318000E	SATA signal cable, 460 mm	1

Ordering Information

Standard

SHB150RDGG-Q370 (P/N: E38C150106)	PICMG 1.3 full-size CPU card with LGA1151 socket, Intel® Q370, DVI-I, 2 GbE LAN, and PCIe x4 BIOS
SHB150RDGG-Q370 (P/N: E38C150107)	PICMG 1.3 full-size CPU card with LGA1151 socket, Intel® Q370, DVI-I, 2 GbE LAN, and PCIe x1 BIOS
SHB150RDGG-H310 (P/N: E38C150108)	PICMG 1.3 full-size CPU card with LGA1151 socket, Intel® H310, DVI-I, 2 GbE LAN, and PCIe x4 BIOS
SHB150RDGG-H310 (P/N: E38C150109)	PICMG 1.3 full-size CPU card with LGA1151 socket, Intel® H310, DVI-I, 2 GbE LAN, and PCIe x1 BIOS
SHB150RDGG-C246 (P/N: E38C150110)	PICMG 1.3 full-size CPU card with LGA1151 socket, Intel® C246, DVI-I, 2 GbE LAN, and PCIe x4 BIOS
SHB150RDGG-C246 (P/N: E38C150111)	PICMG 1.3 full-size CPU card with LGA1151 socket, Intel® C246, DVI-I, 2 GbE LAN, and PCIe x1 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 with bracket

Processor List

CPU	Speed	Cache	Cores	TDP
Intel® Core™ i9-9900K Processor	3.6 GHz	16 MB	8	95 W
Intel® Core™ i7-9700TE Processor	1.8 GHz	12 MB	8	35 W
Intel® Core™ i7-8700K Processor	3.7 GHz	12 MB	6	95 W
Intel® Core™ i7-8700 Processor	3.2 GHz	12 MB	6	65 W
Intel® Core™ i7-8700T Processor	2.4 GHz	12 MB	6	65 W
Intel® Core™ i5-9500E Processor	3.0 GHz	9 MB	6	65 W
Intel® Core™ i5-9500TE Processor	2.2 GHz	9 MB	6	35 W
Intel® Core™ i5-9400 Processor	2.9 GHz	9 MB	6	65 W
Intel® Core™ i5-8400 Processor	2.8 GHz	9 MB	6	65 W
Intel® Core™ i5-8500T Processor	2.1 GHz	9 MB	6	35 W
Intel® Core™ i3-9100 Processor	3.6 GHz	6 MB	4	65 W
Intel® Core™ i3-9100E Processor	3.1 GHz	6 MB	4	65 W
Intel® Core™ i3-9100TE Processor	2.2 GHz	6 MB	4	35 W
Intel® Core™ i3-8100 Processor	3.6 GHz	6 MB	4	65 W
Intel® Core™ i3-8100T Processor	3.1 GHz	6 MB	4	35 W
Intel® Xeon® E-2176G Processor*	3.7 GHz	12 MB	6	80 W
Intel® Xeon® E-2278GE Processor*	3.3 GHz	16 MB	8	80 W
Intel® Pentium® Gold G5400T Processor	3.1 GHz	4 MB	2	35 W
Intel® Celeron® G4900T Processor	2.9 GHz	2 MB	2	35 W

* C246 use only

SHB250R `NEW`

PICMG 1.3 Half-size CPU Card with LGA1151 socket 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 socket 9th/8th gen Intel® Core™ i7/i5/i3, Xeon® E (C246), Pentium® or Celeron® processor
- Intel® C246/Q370/H310 chipset
- 2 DDR4-2666/2400 SO-DIMM for up to 64GB of memory
- Supports M.2 slot
- Supports Intel® AMT and vPro (C246/Q370)
- TPM 2.0 supported

TripleView: Q370/C246 | DualView: H310 | DDR4 | USB 3.1 | Full Solid Cap Design | AMS.AXView

DDR4 SO-DIMM — SATA-600 — 2 x COM — DIO — Audio — LAN — USB 3.1 Gen1 — DVI-I — USB 3.1 Gen1 — USB 2.0 — PS/2 KB & MS — DisplayPort++ kit — LGA1151

Core System

CPU	LGA1151 9th/8th gen Intel® Core™ i7/i5/i3, Xeon® E (C246), Pentium® or Celeron® processor (8th up to 95W, 9th up to 35W)
System Memory	C246: 2 x 260-pin 2666/2400 with ECC un-buffered SO-DIMM, up to 64GB (Intel® Core™ i7/i5 only support non-ECC) Q370/H310: 2 x 260-pin 2666/2400 un-buffered SO-DIMM, up to 64GB
Chipset	Intel® C246/Q370 (Intel® vPro supported) Intel® H310
BIOS	AMI UEFI BIOS
Storage	M.2 Key M 2242 (Q370/C246 support PCIe 3.0 x4 or SATA-3, H310 supports SATA-3)
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	Intel® Core™ i7-9700TE, 32GB DDR4-2666 x 2 +5V @ 0.2A, +12V @ 3.8A, +3.3V @ 0.8A
Dimensions	185 x 126 mm
Board Thickness	1.6 mm
Operating Temperature	0°C to 60°C (32°F to 140°F) depending on CPU speed and system thermal solution
Humidity	10% to 95% relative humidity, non-condensing

I/O

SATA	C246/Q370: 2 x SATA-600, support RAID 0/1 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)
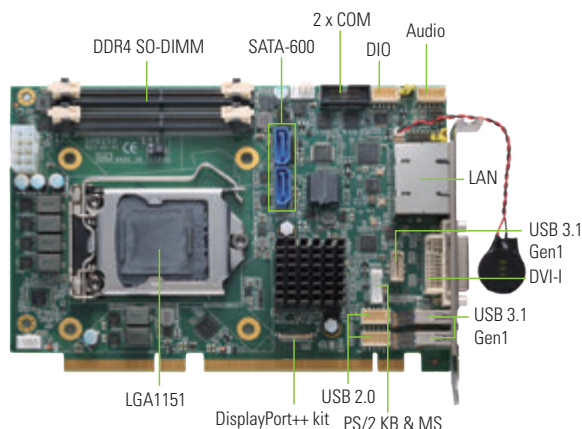
Packing List

Standard

CPU card

Ordering Information

Standard

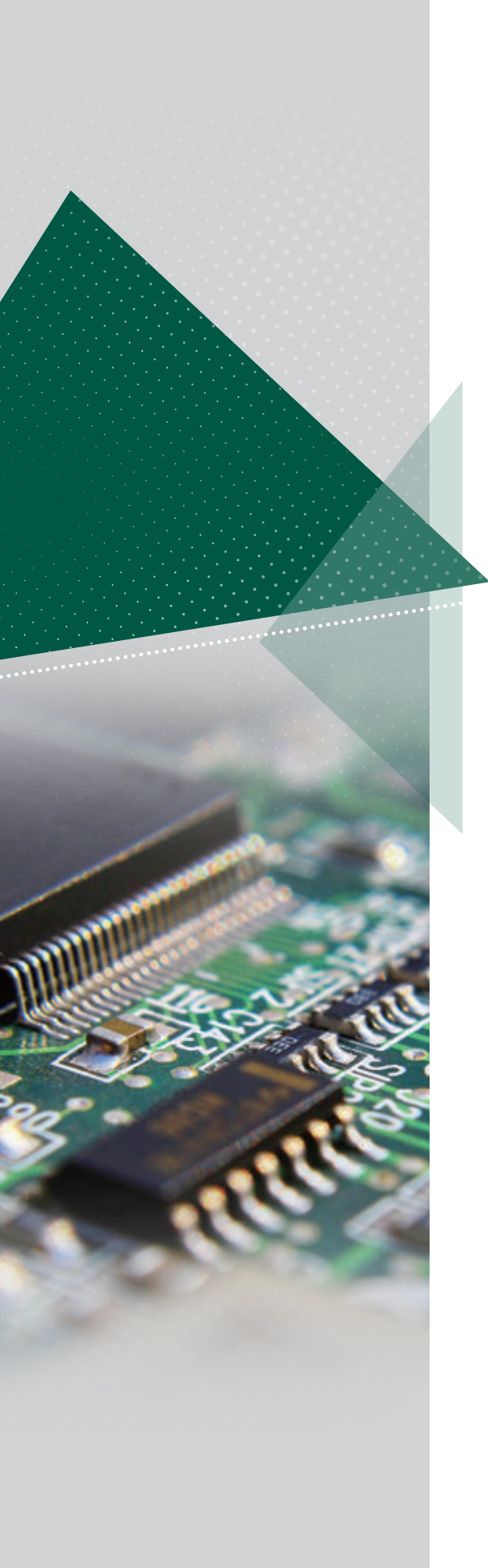|	
SHB250RDGG-Q370 (P/N: E38C250100)	PICMG 1.3 half-size CPU card with LGA1151 socket, Intel® Q370, DVI-I, 2 GbE LAN, audio and PCIe x4
SHB250RDGG-H310 (P/N: E38C250102)	PICMG 1.3 half-size CPU card with LGA1151 socket, Intel® H310, DVI-I, 2GbE LAN, audio and PCIe x4
SHB250RDGG-C246 (P/N: E38C250101)	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	2 x USB 2.0 cable with bracket 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

Processor List

CPU	Speed	Cache	Cores	TDP
Intel® Core™ i7-9700TE Processor	1.8 GHz	12 MB	8	35 W
Intel® Core™ i7-8700K Processor	3.7 GHz	12 MB	6	95 W
Intel® Core™ i7-8700 Processor	3.2 GHz	12 MB	6	65 W
Intel® Core™ i7-8700T Processor	2.4 GHz	12 MB	6	65 W
Intel® Core™ i5-9500TE Processor	2.2 GHz	9 MB	6	35 W
Intel® Core™ i5-8400 Processor	2.8 GHz	9 MB	6	65 W
Intel® Core™ i5-8500T Processor	2.1 GHz	9 MB	6	35 W
Intel® Core™ i3-9100TE Processor	2.2 GHz	6 MB	4	35 W
Intel® Core™ i3-8100 Processor	3.6 GHz	6 MB	4	65 W
Intel® Core™ i3-8100T Processor	3.1 GHz	6 MB	4	35 W
Intel® Xeon® E-2176G Processor*	3.7 GHz	12 MB	6	80 W
Intel® Xeon® E-2278GE Processor*	3.3 GHz	16 MB	8	80 W
Intel® Pentium® Gold G5400T Processor	3.1 GHz	4 MB	2	35 W
Intel® Celeron® G4900T Processor	2.9 GHz	2 MB	2	35 W

* C246 use only

System on Modules

3.5" Embedded Boards

Pico-ITX SBCs

Embedded Vision Board

Mini-ITX Motherboards

ATX Motherboards

Slot CPU Cards

ARM-based Embedded Boards

Smart Display Modules and Smart Kiosk Modules

PCI Express Cards

Boards and Modules

8 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.

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™-A53	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	LPDDR4-1866 on board	DDR3-1600 onboard	DDR3-800/1066 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	2 x PCIe 1 x USB 2.0, 1 x OTG Client 2 x USB 3.0 1 x I²S 2 x CANBus 3 x I²C 2 x COM (TX/RX/RTS/CTS) 1 x COM (TX/RX) 1 x COM (TX/RX for console debug) 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 1x MIPI DSI 4 lanes or Dual Channel LVDS	1 x PCIe 1 x USB 2.0 1 x OTG Client 1 x I²S 2 x CANBus 3 x I²C 4 x COM (TX/RX/RTS/CTS) 1 x Console 1 x HDMI 1 x 24-bit TTL Signal 1 x SPI 2 x Signal channel 24-bit LVDS	1 x PCIe 1x USB 2.0, 1 x OTG Client 1 x I²S 2 x CANBus 4 x I²C 3 x COM(TX/RX/RTS/CTS) 1 x Console 1 x MIPI v1.0 (2 lanes) 1 x PCAM 8-bit 1 x HDMI 1 x 24-bit TTL Signal 2 x Signal channel 24-bit LVDS 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	+3V to +5.25V DC-in	+5V ± 5% DC-in	+5V ± 5% DC-in
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% - 85%, non-condensing	10% - 95%, non-condensing	10% - 95%, non-condensing

* All specifications and photos are subject to change without notice.   www.axiomtek.com   © 2021 Axiomtek Co., Ltd. All rights reserved.

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

Onboard LPDDR4 1GB memory

Freescale i.MX8M CPU
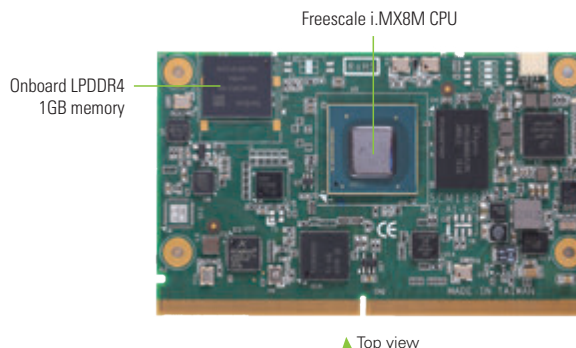
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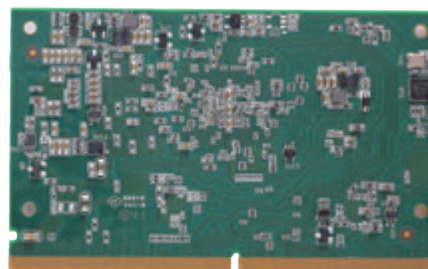
▲ Rear view

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)
I²C	3 x I²C interface
QSPI/SPI	1 x QSPI with 2 chip select 1 x SPI with 2 chip select
Audio	1 x I²S
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

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

24-bit TTL

Onboard DDR3 1 GB Memory

Freescale i.MX6 CPU

▲ 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
I²C	3 x I²C 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
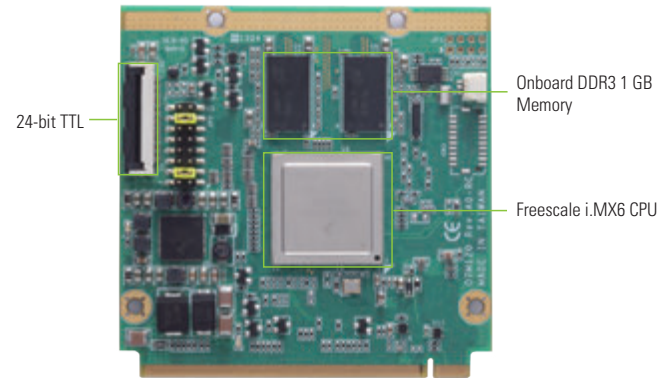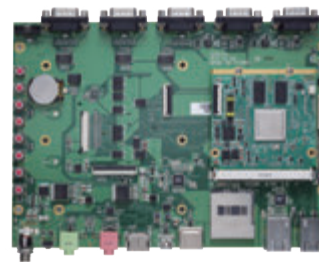
Ordering Information

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)

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

Freescale i.MX6 CPU

Onboard DDR3
1 GB memory

▲ 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
I²C	4 x I²C 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
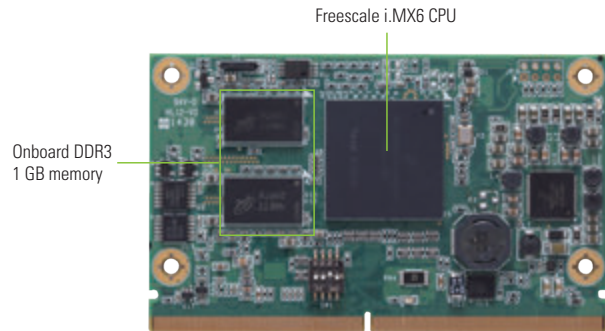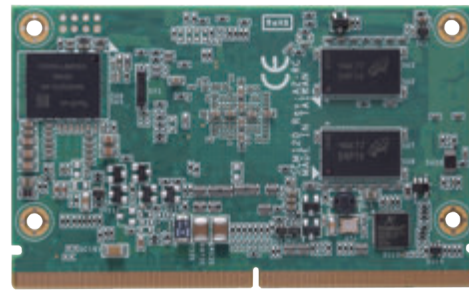
Ordering Information

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)

System on Modules

3.5" Embedded Boards

Pico-ITX SBCs

Embedded Vision Board

Mini-ITX Motherboards

ATX Motherboards

Slot CPU Cards

ARM-based Embedded Boards

Smart Display Modules and Smart Kiosk Modules

PCI Express Cards

Boards and Modules

9

Smart Display Modules

Axiomtek's advanced smart display module and smart kiosk module have 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.

Smart Display Modules

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-channel 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 I²C	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 I²C
	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 (Option) 1 x Mic-in 1 x Line-out 1 x HDMI 1.4 (Option)	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	0°C to 60°C (+32°F to +140°F) -20 to 70 °C (-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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SDM500L

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

Features

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

1 x LAN
4 x USB
1 x M.2 Key B
1 x M.2 Key M
1 x M.2 Key E
2 x DDR4 SO-DIMM slot
Intel® Whiskey Lake-U processor

1 x Line-out & Mic-in

▲ Side View   ▲ Rear View

Core System

CPU	8th gen Intel® Core™ i7/i5/i3 or Intel® Celeron® 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 B 2242 slot 1 x M.2 Key M 2280 slot
WatchDog Timer	255 levels, 1 to 255 sec.
Expansion Interface	1 x M.2 Key E 2230 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
Weight (net/gross)	252g/340g
Board Thickness	1.6 mm
Operating Temperature	0°C to 60°C (+32°F to +140°F) -20 to 70 °C (-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 I²C
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	1 x USB type C (optional)
Display	1 x HDMI 1.4 (optional)
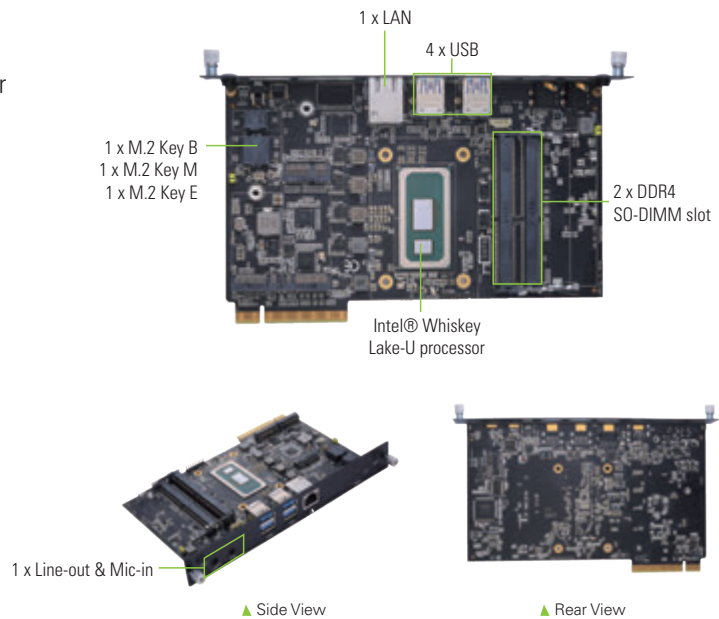
Display

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

Packing List

1 x Quick installation guide

Ordering Information

Standard

SDM500L-8145U w/o HDMI (P/N: E38X500108)	SDM-L module with Intel® Core™ i3-8145U processor with 2 SO-DIMM, 2 M.2 SSD, 1 LAN, 4 USB 3.0, 1 Mic-in, 1 Line-Out
SDM500L-8145U (P/N: E38X500109)	SDM-L module with Intel® Core™ i3-8145U processor with 2 SO-DIMM, 2 M.2 SSD, 1 LAN, 4 USB 3.0, 1 Mic-in, 1 Line-Out, 1 HDMI, 1 USB Type-C
SDM500L-8265U w/o HDMI (P/N: E38X500109)	SDM-L module with Intel® Core™ i5-8265U processor with 2 SO-DIMM, 2 M.2 SSD, 1 LAN, 4 USB 3.0, 1 Mic-in , 1 Line-Out
SDM500L-8265U (P/N: E38X500110)	SDM-L module with Intel® Core™ i5-8265U processor with 2 SO-DIMM, 2 M.2 SSD, 1 LAN, 4 USB 3.0, 1 Mic-in , 1 Line-Out, 1 HDMI, 1 USB Type-C
SDM500L-4305UE w/o HDMI (P/N: E38X500107)	SDM-L module with Intel® Celeron-4305UE processor with 2 SO-DIMM, 2 M.2 SSD, 1 LAN, 4 USB 3.0, 1 Mic-in , 1 Line-Out

Optional

8812T1500A0E	Wi-Fi Kit
M.2 SSD	M.2 2280-B-M 64 to 256GB
DDR4 SO-DIMM	4GB to 32GB

SDM300S

Intel® Smart Display Module Small (Intel® SDM-S) with Intel® Pentium® Processor
N4200 and 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

M.2 Key E

Intel® Pentium®
N4200 & Celeron®
N3350

LPDDR4 memory

USB 3.0

LAN

▲ Side View

▲ Rear view

Smart Display Module	DDR4	USB 3.0	Display	M.2

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
Weight (net/gross)	146g/226g
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 I²C
Ethernet	1 x 10/100/1000 Mbps with Intel® i211-AT; supports Wake-on-LAN, PXE Boot ROM
USB	2 x USB 3.0
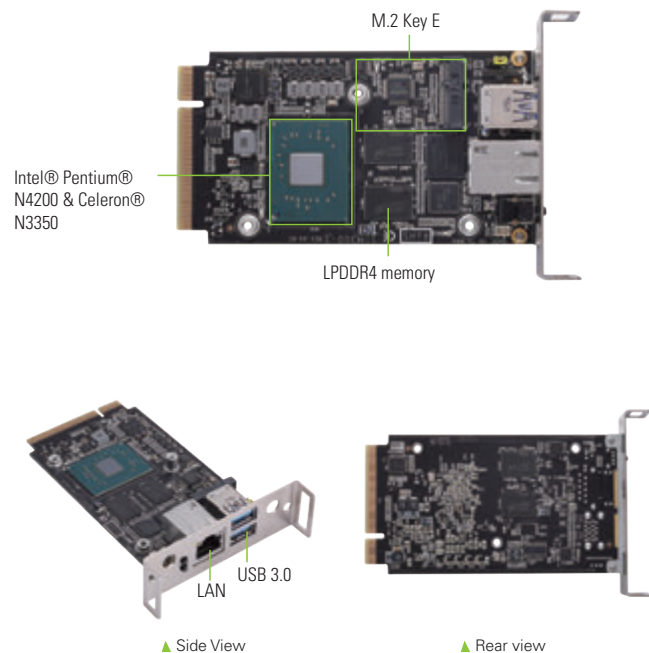
Display

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

1 x Quick installation guide

Ordering Information

Standard

SDM300S-N4200-4GB (P/N: E38X300102)	SDM-S module with Intel® Pentium® processor N4200, onboard DDR4 4GB, EMMC 64GB, 1 LAN , 2 USB 3.0
SDM300S-N3350-4GB (P/N: E38X300100)	SDM-S module with Intel® Celeron® processor N3350, onboard DDR4 4GB, EMMC 64GB, 1 LAN, 2 USB 3.0

Optional

8812T1500A0E	Wi-Fi Kit

10

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.

Boards and Modules

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

4 x Gigabit PoE

▲ Side view
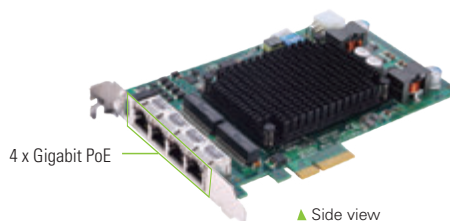
Introduction

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	10% to 95%, non-condensing
Dimensions (W x D)	168 x 111 mm
EOS Support	Windows® 7/10 (32/64-bit)

Ordering Information

AX92320-2GbE (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 & IPC974)
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 and I/O bracket

AX92321

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
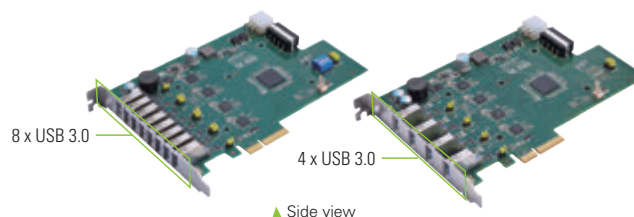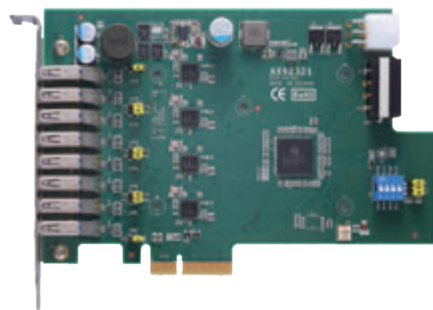- Supports each port's power on/off via software settings

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.

8 x USB 3.0

4 x USB 3.0

▲ Side view

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

AX92322

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

AX92324 **NEW**

2-port 10GbE PoE PCI Express Card

Features

- Intel® Ethernet Controller X550-AT2, up to 10 Gbps data rate
- Supports 15.5KB Jumbo Frame and IEEE 1588
- Compliant with IEEE802.3at to deliver 25.5W per port
- PCI Express x4 compliant
- PoE power on/off via Power Manager software and API
- Operating temperature range from 0°C to 55°C

2 x 10 GbE port
with PoE

▲ Side view
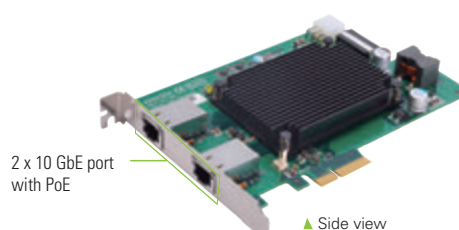
Introduction

The AX92324 is a dual-port 10GbE PEI Express card based on the Intel® Ethernet Controller X550-AT2. To meet the demands of the next-generation 10GbE cameras with high resolution and high-speed transmission over one single Ethernet cable, the AX92324 features the combination of 10GbE and IEEE802.3at compliant PoE capabilities. It also supports PoE power on/off and power budget settings via management software or API. The AX92324 is suitable for high bandwidth, high-speed transmission and low latency requirements for machine vision, intelligent surveillance and network applications.

Specifications

Ethernet Communications

Ethernet Port	2 GbE LANs with Intel® X550-AT2 controller; supports 15.5KB jumbo frame and IEEE 1588
PoE Capability	IEEE 802.3at compliant; each port delivers up to 30W at 54 VDC
Data Rate	10Gbps/*5Gbps/*2.5Gbps/1Gbps/100Mbps (*Linux only)
Port Connector	8-pin RJ-45

Power Requirements

Input Voltage	12 VDC or 24 VDC* (*24VDC ATX power connector is used for Axiomtek's system only)
Overload Protection	Yes
Connection	6-pin ATX power connector
Output PoE Power	Max. 20W w/ PCIe slot Max. 60W 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. 60W PoE power output) 6A @ +12V or 3A @ +24V 1.2A @ +3.3V (from PCIe slot)

General Specifications

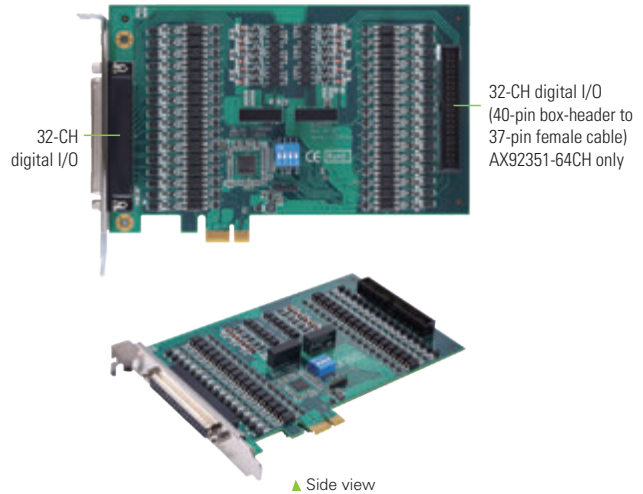|	
Bus Type	PCI Express x4
Operating Temperature	0°C to +55°C (+32°F to +131°F) (with air flow)
Storage Temperature	-20°C to +80°C (-4°F to +176°F)
Humidity	10% to 95%, non-condensing
Dimensions (W x D)	168 x 111 mm
OS Support	Windows® 7/10, Linux

Ordering Information

AX92324-PoE (P/N: E392324100)	2-port 10GbE PCIe card with PoE
AX92324-w/o PoE (P/N: E392324101)	2-port 10GbE PCIe card
PoE Power Cable (P/N: 59492320700E)	4P 3.0/6P 4.2, L=10 cm (only used with IPC962/IPC964/IPC974)

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

32-CH digital I/O

32-CH digital I/O (40-pin box-header to 37-pin female cable) AX92351-64CH only

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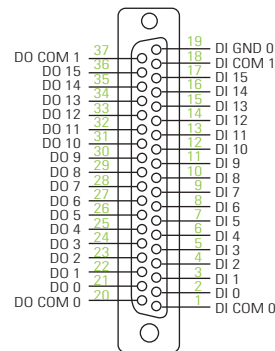
40-pin Box-Header (CN2) AX92351-64CH only
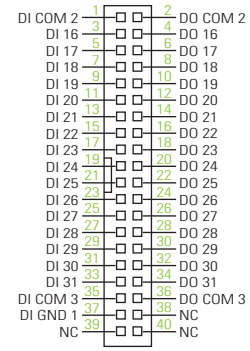
Ordering Information

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)

AX92352 NEW

## 2-CH Encoder Card with Real-Time trigger I/O

Features

- Synchronizes devices via real-time I/O
- Applied to area scan and line scan applications
- Integrates multiple I/O
  - 2-CH 32-bit incremental quadrature encoder input
  - 4-CH trigger input
  - 4-CH trigger output
  - 8-CH isolated DI, 8-CH isolated DO
- Programmable interrupt functions
- PCI Express x1 compliant

Introduction

The AX92352 integrates advanced vision I/O capabilities for machine vision applications, such as synchronizing multiple frame grabbers in line scan and multiple cameras in area scan. It provides 2-CH encoder input with the FIFO function to achieve the tasks of position comparison and linear trigger. Furthermore, it also has trigger I/O with a microsecond-scale real-time control camera to capture images, as well as isolated DIO that can be used with other devices for your vision cases. The AX92352 vision I/O card can fit in the PCI Express slot of any vision control system to simplify the deployment of your machine vision platform.

▲ Side View

Specifications

Isolated Encoder Input

Channels	2-CH 32-bit incremental quadrature encoder input (A/B/Z)
Type	Differential or single-ended 5V, 12V open collector
Counter Mode	x1/4, x1/3, x1/2, x1, x2, x4
Input Filter	Programmable de-bounce filter
Frequency Input	Max. 1MHz
Operating Mode	Linear function, FIFO, Position latch

Isolated Trigger Input

Channels	4-CH
Type	Sink
Input range	On (Logic 1): 3.3 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 Trigger Output

Channels	4-CH
Output Voltage	0 to 30 VDC, sink, open collector
Output Current	Current: max. 100mA per channel
Response Time	1us (from trigger input to trigger output)
Configuration	Derived from 4CH trigger input or encoder input. The user can set the pulse delay time and duration time
Trigger Sources	4CH trigger input/encoder: 4 x Linear function, 2 x FIFO (each channel supports two sources)

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
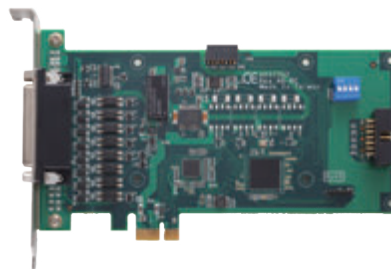
Interrupt

Sources	Two interrupt sources from DI, Trigger/Latch input, Encoder Z phase, FIFO empty, encoder overflow and encoder linear function

General Specifications

Bus Type	PCI Express x1
I/O Connector	D-sub 44-pin female connector
Isolation Voltage	2 kVDC
Power Requirements	180mA @ +3.3V (Max.) 120mA @ +12V (Max.)
Dimensions	168 x 100 mm
Board ID	Yes, 4-bit
Operating Temperature	0°C to +70°C (32°F to +158°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/Windows® 10 (32/64bit)
Software Compatibility	C#, C/C++

Ordering Information

AX92352 (P/N: E392352100)	2-CH encoder card with real-time trigger I/O
AX92353 (P/N: E392353100)	4-CH lighting control module (this optional module cannot be operating independently, please apply with AX92352)

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.

AX92353 NEW

4-CH Lighting Control Module

Features

- 4-CH independent constant current LED drivers (up to 1 A)
- Supports strobe and trigger mode
- Intensity control by software
- Supports duration and delay time for LED output

▲ Side View

Specifications

Channels	4-CH
Drive Methods	Current-controlled
Operating Mode	Strobe, Trigger
Output Current	Trigger mode 0.5A per CH Strobe mode 1A per CH
Output Voltage	24 VDC
Duration time	Trigger mode 10ms to 65s Strobe mode 10us to 10ms
Output current step size	50mA by software
I/O Connector	8 pin terminal connector (black)
Power Connector	6-pin ATX power connector
Power Requirements	Trigger mode 60W @12 VDC Strobe mode 120W @12 VDC
Dimensions	151 x 80 mm

Ordering Information

AX92353 (P/N: E392353100)	4-CH lighting control module (this optional module cannot be operating independently, please apply with AX92352.)

Packing List

CN-terminal block 4 x 2, cable (communication with AX92352)

Table of **Contents**

Industrial Panel PCs

3 Stainless Touch Panel Computers

4 Transportation Touch Panel Computers & Monitors

5 Industrial Touch Panel Computers

6 Industrial Touch Monitors

7 Medical Panel Computers

8 Modular Panel PCs

9 Self-service Kiosk

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

Modular Panel PCs

Self-service Kiosk

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.

Fanless Touch Panel Computers

Selection Guide

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 Intel® Pentium® N4200, up to 2.5 GHz
Chipset	SoC integrated	SoC integrated	SoC integrated
System Memory	1 x 204-pin DDR3L SO-DIMM, up to 8GB	1 x 204-pin DDR3L SO-DIMM, up to 8GB	1 x 204-pin DDR3L SO-DIMM, up to 8GB
Display	7" WSVGA TFT LCD, 320 nits	10.4" XGA TFT LCD, 350 nits	10.4" XGA TFT LCD, 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 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	1 x PCI Express Mini Card slot 1 x M.2 Key E
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

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 204-pin DDR3L 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	15" XGA TFT LCD, 300 nits	10.1" WXGA TFT LCD, 350 nits	15.6" WXGA TFT LCD, 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)/4.8 kg (10.6 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

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
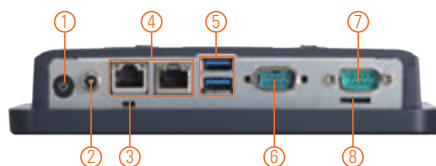
1. Power button
2. Screw connector for adapter
3. AT/ATX switch
4. 2 x LAN
5. 2 x USB 3.0
6. 1 x RS-232/422/485
7. 1 x RS-232
8. Micro SD card slot
9. Speaker

Fanless | Low Power | DDR3L | AiRD | IP65

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

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 PCT-DC (P/N: E22B107101)	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- PCT-DC (P/N: E22B107105)	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

* Other configuration by request
* Specification and certifications may vary based on different requirements

Optional Accessories

Wi-Fi + Bluetooth kit	
8812B1071A0E	Panel mount kit
8812B1070A0E	Wall mount kit
E226171119	Stand kit
50956A24030E	Adapter 12V/36W

Optional OS Installation

Windows® 10

Dimensions
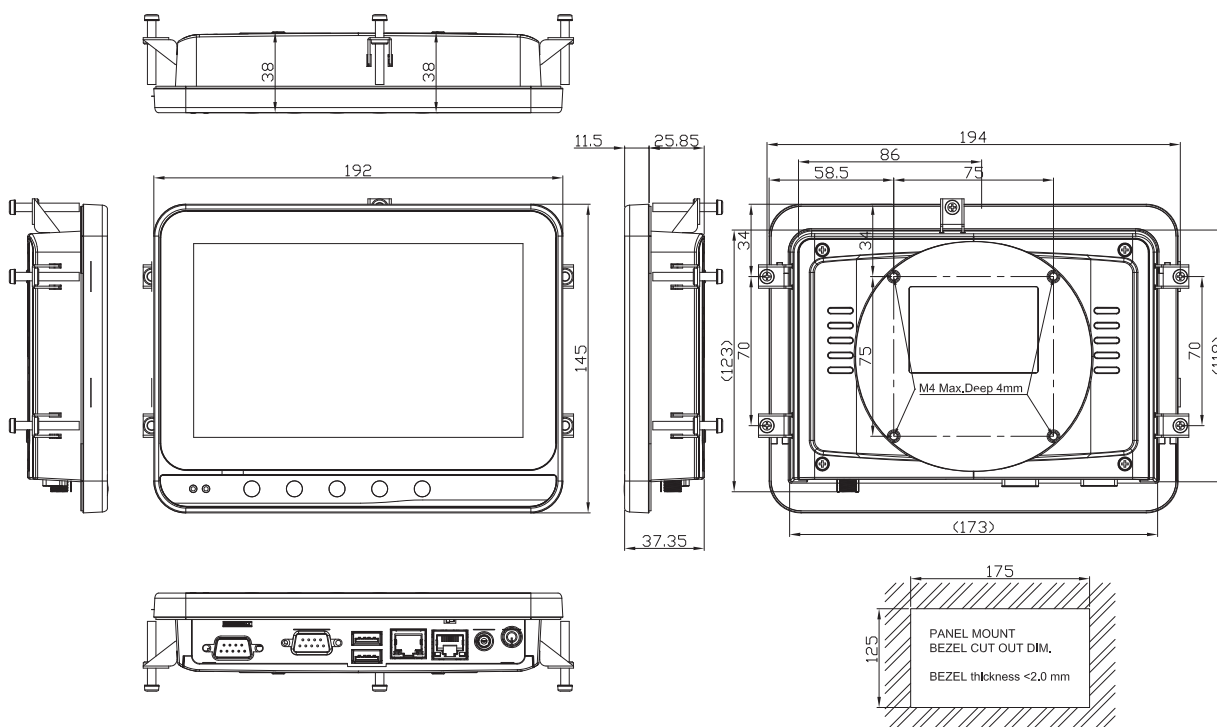
GOT110-316-PoE-PD

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
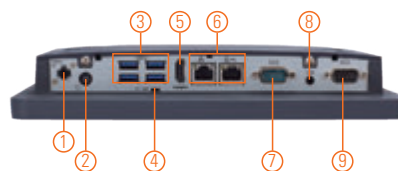
1. Remote power switch
2. Power button
3. 4 x USB 3.0
4. AT/ATX switch
5. 1 x HDMI
6. 1 x LAN
   1 x PoE PD
7. 1 x RS-232/422/485
8. 1 x Line-out
9. 1 x RS-232
10. Speaker
11. Optional cable cover

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/m²)	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

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

Packing List

1 x GOT110-316 PoE-PD

Ordering Information

Standard	
GOT110-316-R-PoE-PD (P/N: E22B110109)	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 (P/N: E22B110108)	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

* Other configuration by request
* Specification and certifications may vary based on different requirements

Optional Accessories

External Wi-Fi + Bluetooth kit**	
RFID kit	
8812B1101A0E	Panel mount kit
8812B1100A0E	Wall mount kit
E226171119	Stand kit

** Standard Wi-Fi kit does not support panel mount.

Optional OS Installation

Windows® 10

Dimensions

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
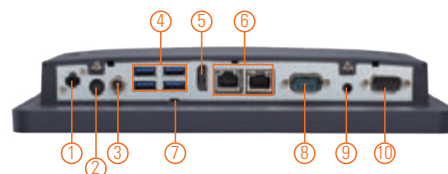
1. Remote power switch
2. Power button
3. Screw connector for adapter
4. 4 x USB 3.0
5. 1 x HDMI
6. 2 x LAN
7. AT/ATX switch
8. 1 x RS-232/422/485
9. 1 x Line-out
10. 1 x RS-232
11. Cable cover (optional)
12. Speaker

Fanless | Low Power | DDR3L | AiRD | IP65 | DualView

Introduction

The GOT110-316 is a 10.4" XGA fanless touch panel computer. 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

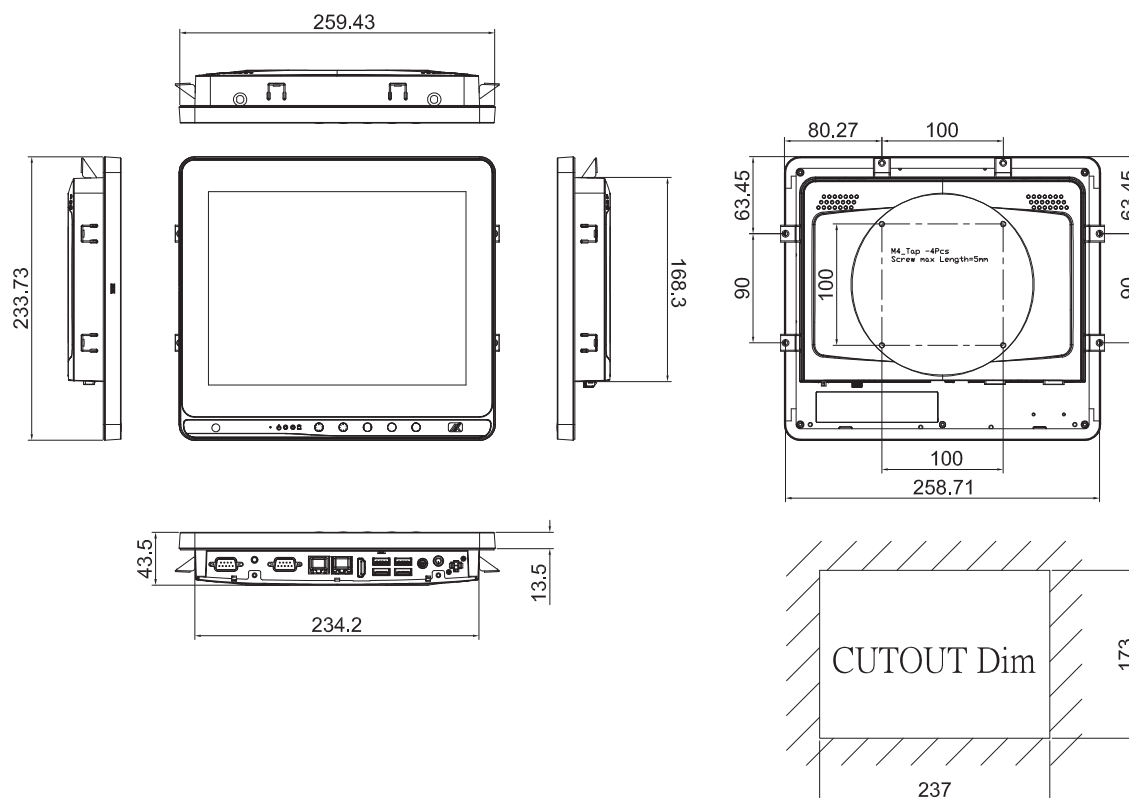| Front Bezel	IP65, NEMA 4 rugged protection, plastic front bezel	
LCD Panel	Display Type	10.4" XGA TFT LCD with LED backlight
	Brightness (cd/m^2)	350 nits (XGA)
	Resolution	1024 x 768
	Viewing Angel (H/V)	160°/160°
Main System	CPU	Intel® Celeron® processor N3350 2 cores (up to 2.4GHz) Intel® Pentium® 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

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 Adapter (GOT110-316-J)
1 x DC cable (GOT110-316-DC)

▲ AC power adapter
(for GOT110–316-J)

Dimensions
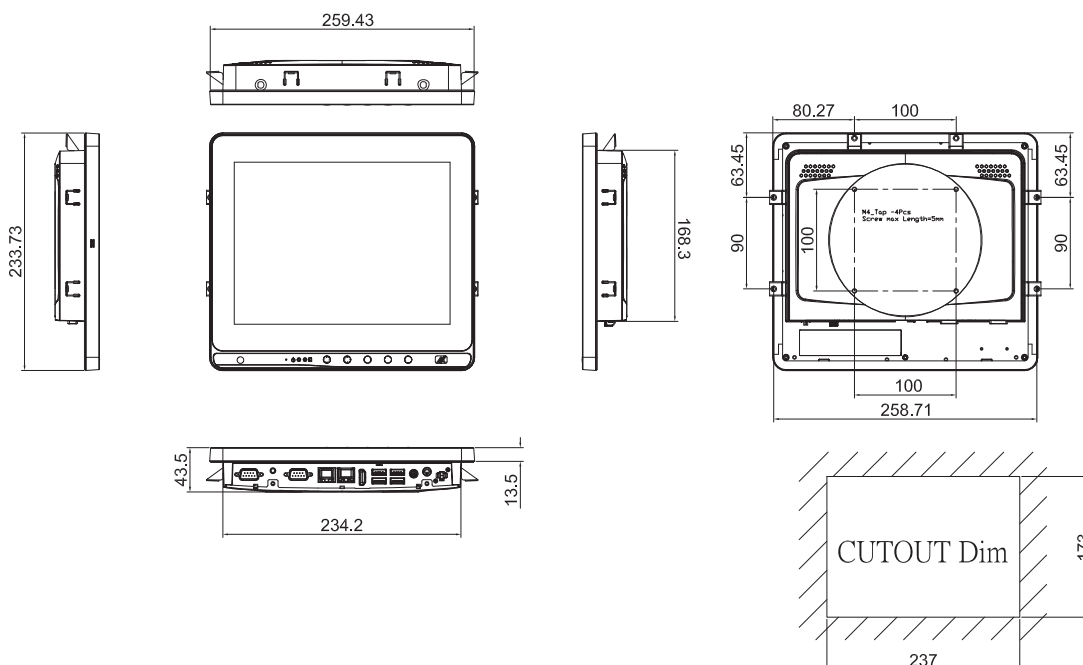
Ordering Information

Standard

GOT110-316-PCT-J (P/N: E22B110106)	10.4" XGA fanless touch panel computer with Intel® Celeron® processor N3350 w/projected capacitive multi- touch screen, AC-DC 60W power adapter and EMI Class A
GOT110-316-N4200-PCT-J (P/N: E22B110107)	10.4" XGA fanless touch panel computer with Intel® Celeron® processor N4200 w/projected capacitive multi- touch screen, AC-DC 60W power adapter and EMI Class A
GOT110-316-R-J (P/N: E22B110101)	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 (P/N: E22B110103)	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 (P/N: E22B110104)	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 (P/N: E22B110105)	10.4" XGA fanless touch panel computer with Intel® Pentium® processor N4200, resistive touch, screw type power input with DC cable and logo

* Other configuration by request
* Specification and certifications may vary based on different requirements

Optional Accessories

External Wi-Fi + Bluetooth kit*	
RFID kit	
8812B1101A0E	Panel mount kit
8812B1100A0E	Wall mount kit
E226171119	Stand kit
Barcode scanner kit	

* Standard Wi-Fi kit does not support panel mount.

Optional OS Installation

Windows® 10

GOT115-319

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
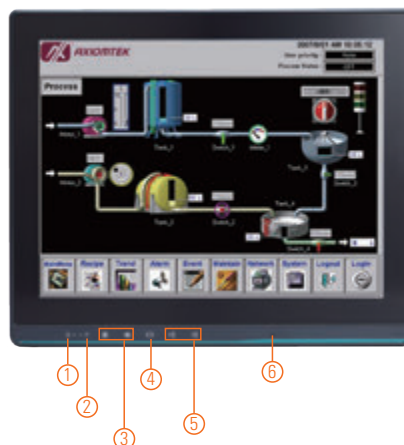
1. Power LED
2. HDD LED
3. Brightness adjust +/-
4. Display on/off
5. Volume +/-
6. Microphone

Speaker

▲ Rear view

Fanless | Low Power | DDR3L | AiRD | IP65
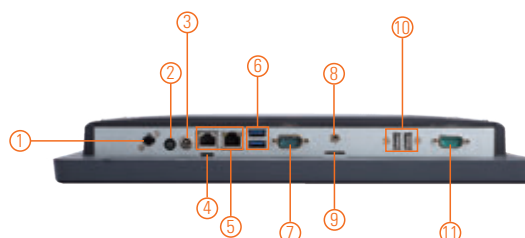
1. Remote power switch
2. Power button
3. Screw connector for power input
4. AT/ATX switch
5. 2 x LAN

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. 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

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

Packing List

1 x GOT115-319
1 x DC cable
4 x M3 screws for SSD/HDD
1 x M3 screw for M.2 card slot
1 x M2 screw for mSATA card slot
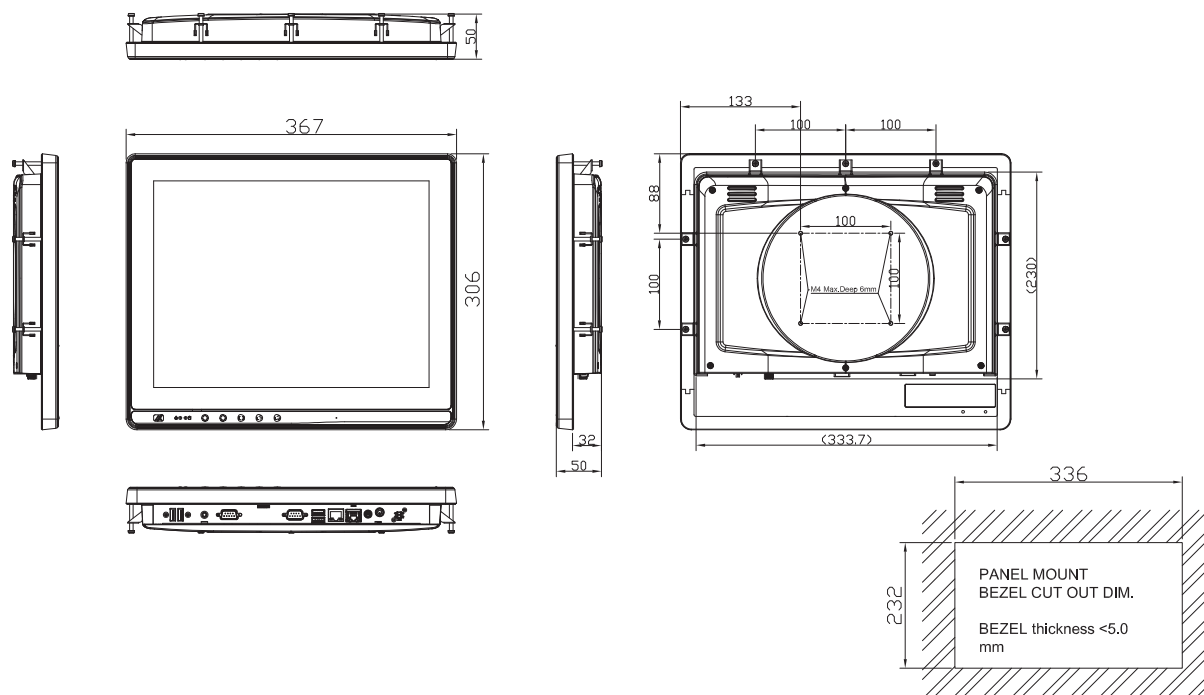
Ordering Information

Standard

GOT115-319-C-DC (P/N: E22B115100)	15" XGA fanless touch panel computer with Intel® Celeron® processor N3350 onboard, projected capacitive, EMI Class A, screw type connector with DC cable
GOT115-319-R-DC (P/N: E22B115101)	15" XGA fanless touch panel computer with Intel® Celeron® processor N3350 onboard, 5 wire resistive touch, EMI Class A, screw type connector with DC cable
GOT115-319-N4200-C-DC (P/N: E22B115102)	15" XGA fanless touch panel computer with Intel® Pentium® processor N4200 onboard, projected capacitive multi-touch, EMI Class A, screw type connector with DC cable
GOT115-319-N4200-R-DC (P/N: E22B115103)	15" XGA fanless touch panel computer with Intel® Pentium® processor N4200 onboard, 5 wire resistive touch, EMI Class A, screw type connector with DC cable

* Other configuration by request
* Specification and certifications may vary based on different requirements

Optional Accessories

Wi-Fi + Bluetooth kit	
RFID kit	
8812B1150A0E	Panel mount kit
8812B1100A0E	Wall mount kit
50966124050E	Adapter 12V/60W
E226171119	Stand kit

Optional OS Installation

Windows® 10

▲ AC power adapter
(for GOT115-319)

Dimensions

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
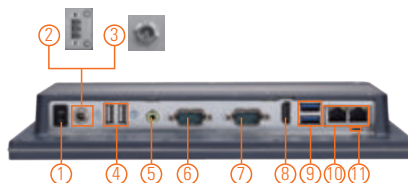
1. Power switch (ATX)
2. Terminal block for DC power input
or 3. Screw connector for AC power adapter
4. 2 x USB 2.0

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 with 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

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 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 (P/N: E225103100)	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 (P/N: E225103102)	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 (P/N: E225103114)	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 (P/N: E225103115)	10.1" WXGA fanless touch panel computer with Intel® Pentium® processor N3710, projected capacitive multi- touch screen and 24 VDC terminal block connector

* Other configuration by request
* Specification and certifications may vary based on different requirements

Optional Accessories

Wi-Fi + Bluetooth kit	
RFID kit	
881251030A0E	Panel mount kit
8812B1070A0E	Wall mount kit
E226171119	Stand kit
Half slim SSD kit SFP (AC Version only)	

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
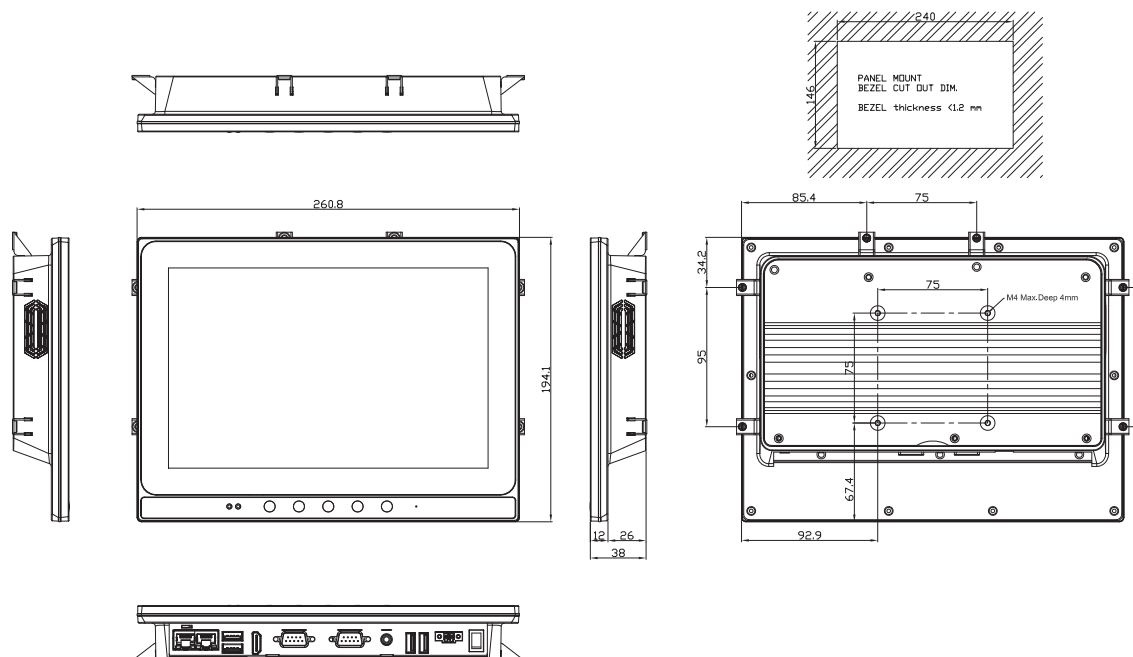
GOT5153W-845

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)

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

▲ Rear view

| 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/m²)	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

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	508 mm (20.00") x 106 mm (4.17") x 383 mm (15.08")
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 Adapter (AC version only)
1 x Power cord (AC version only)

Ordering Information

Standard	
GOT5153W-845-PCT-J (P/N: E225153116)	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 (P/N: E225153114)	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)

* Other configuration by request
* Specification and certifications may vary based on different requirements

Optional Accessories

Wi-Fi + Bluetooth kit	
RFID kit	
881251531A0E	Wall mount kit
E226171119	Stand kit

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

394.2
57
(21.38)
257
TP_A/A
(29.84)
100
100
M4 Max Deep 3.0mm
79.9
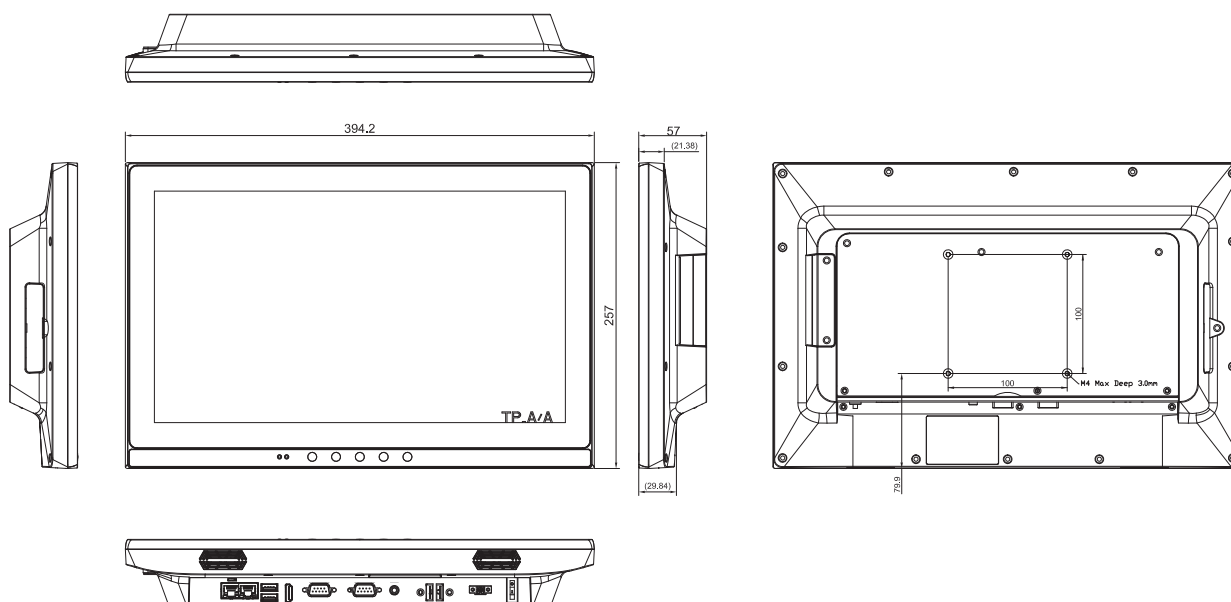
2

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.

Industrial Panel PCs

Heavy-duty Fanless Touch Panel Computers

Selection Guide

NEW

Features\Models	GOT315W-521	GOT315WL-845-PCT	GOT317-502-FR
CPU Level	8th Gen Intel® Core™ processor, up to 35W Coffee Lake-S i5-8500T Tj 100°C Coffee Lake-S G5400T Tj 100/88°C	Intel® Pentium® processor N3710 4C @ 1.6 GHz (Braswell)	LGA1151 socket 7th/6th gen Intel® Core™ i7/i5/i3, Pentium® & Celeron® (Kaby lake/Skylake)
Chipset	Intel® H310	SoC integrated	Intel® H110
System Memory	1 x 260-pin DDR4 2133/2400MHz SO-DIMM, up to 32GB	1 x 204-pin DDR3L-1333/1600 SO-DIMM, up to 8GB	2 x 260-pin DDR4-2400 SO-DIMM, up to 32GB
Display	15.6" WXGA TFT LCD, 400 nits	15.6" WXGA TFT LCD, 400 nits	17" SXGA TFT LCD, 350 nits
I/O	1x 9-pin D-sub Male / Via cable (option) for RS-232 1 x RS-232/422/485 2 x 10/100/1000 Mbps Ethernet 2 x USB 3.0, 2 x USB 2.0 1 x Phoenix type connector for DC power input 1 x Switch for power on/off (ATX) 1 x Line out 1 x HDMI 1 x DisplayPort 1 x VGA 1 x Remote power switch 1 x AT/ATX switch (DC type only) 1 x Grounding Hole	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)
Storage	1 x 2.5" SATA HDD/SSD (7mm/9.5mm, removable)	1 x 2.5" SATA HDD 1 x mSATA	1 x 2.5" SATA HDD
Expansion Interface	1 x M.2 Key E slot 1 x Full-size PCI Express Mini Card slot	1 x Full-size PCI Express Mini Card slot with mSATA 1 x Full-size PCI Express Mini Card slot with SIM	1 x Half-size PCI Express Mini Card slot (mPCIe 1) 1 x Full-size PCI Express Mini Card slot (mSATA_mPCIe 2)
Touchscreen	Projected capacitive multi-touch	Projected capacitive multi-touch	Flat resistive touch
Operating System	Windows® 10	Windows® 10	Skylake: Windows® 7, Windows® 8.1, Windows® 10 Kaby Lake: Windows® 10
Power Supply	DC terminal block: +12V/+19V/+24V	DC version: 24 VDC	DC terminal block: +12V / +19V / +24V AC adapter: 19V, 6.32A
Power Consumption	60W	72W	120W (include 35W processor)
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 53.0 x 247.1 mm (15.6" x 2.08" x 9.73")	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")
Weight (net/gross)	6.5 kg(14.3 lb)/8.5kg(18.7 lb)	4.5 kg (9.9 lb)/6.5 kg (14.3 lb)	6.7 kg (14.77 lb)/9.0 kg (19.84 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 +40°C (+32°F to +104°F)
Certifications	CE	CE	CE

Heavy-duty Fanless Touch Panel Computers

Selection Guide

NEW

Features\Models	GOT318WL-845	GOT321W-502	GOT3187WL-834
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® Celeron® processor J1900 4C @ 2.0 GHz (Bay Trail-D)
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	18.5" WXGA TFT LCD, 250 nits	21.5" FHD TFT LCD, 250 nits	18.5" FHD TFT LCD, 500 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® i219-LM/i211-AT) 1 x Audio (Mic-in/Line-out)	2 x RS-232/422/485 (COM 1/2) 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® i210-IT)
Storage	1 x 2.5" SATA HDD 1 x mSATA	1 x 2.5" SATA HDD	1 x 2.5" SATA HDD (7/9.5 mm height) 1 x CFast™ or 1 x mSATA
Expansion Interface	1 x Full-size PCI Express Mini Card slot with mSATA 1 x Full-size PCI Express Mini Card slot with SIM	1 x Half-size PCI Express Mini Card slot (mPCIe 1) 1 x Full-size PCI Express Mini Card slot (mSATA_mPCIe 2)	2 x Full-size PCI Express Mini Card slot
Touchscreen	Projected capacitive multi-touch / Flat resistive touch (optional)	10-point projected capacitive multi-touch	Projected capacitive multi-touch
Operating System	Windows® 10	Skylake: Windows® 7, Windows® 8.1, Windows® 10 (64-bit) Kaby Lake: Windows® 10	Windows® 8.1, WE8S, Windows® 7, WES 7, Windows® 10
Power Supply	DC version: 24 VDC	DC terminal block: +12V / +19V / +24V AC adapter: 19V, 6.32A	DC version: 9 to 36 VDC AC version: 12 VDC 60W adapter
Power Consumption	48W	105W	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)	460.8 x 58.5 x 285 mm (18.11" x 2.3" x 11.22")	547.59 x 339.05 x 75.6 mm (21.56" x 13.49" x 2.98")	460.8 x 58.5 x 285 mm (18.11" x 2.3" x 11.22")
Weight (net/gross)	5.8 kg (12.8 lb)/8.2 kg (18.1 lb)	8.4 kg (18.5 lb)/11.3 kg (24.9 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

Features\Models	GOT3217WL-845-PCT
CPU Level	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
Display	21.5" FHD 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® i211-AT)
Storage	1 x 2.5" SATA HDD 1 x mSATA
Expansion Interface	2 x Full-size PCI Express Mini Card slot
Touchscreen	Projected capacitive multi-touch
Operating System	Windows® 10
Power Supply	DC version: DC 24V AC version: 12VDC, 5A adapter
Power Consumption	48W
Watchdog Timer	255 levels, 0 to 255 sec.
Dimensions (W x D x H)	547.6 mm x 58.5 mm x 339.0 mm (21.56" x 2.30" x 13.35")
Weight (net/gross)	7.6 kg (16.8 lb)/10.5 kg (23.1 lb)
Operating Temperature	0°C to +50°C (+32°F to +122°F)
Certifications	CE

GOT315W-521 [NEW]

15.6" WXGA TFT Multi-touch Panel Computer with 8th Gen Intel® Core™ i5 & Pentium® G5400T Processor

Features

- 15.6" WXGA projected capacitive multi-touch widescreen
- Fanless design with 8th Gen Intel® Core™ i5 & Pentium® G5400T processor
- Supports WLAN module & antenna (optional)
- 2.5" SATA HDD/SSD
- 2 LAN, 4 USB, 2 COM, 1 HDMI, 1 DP and 1 VGA
- IP65-rated aluminum front bezel
- Supports panel mount and VESA mount and wall mount

Introduction

The GOT315W-521-PCT is a multi touch fanless type panel PC with 15.6-inch WXGA LCD and supports LGA1151 socket 8th Gen Intel® Core™ i5 & Pentium® G5400T processor. It also provides M.2 Key E and mini-PCI Express slots for add-on devices such like Wi-Fi module for factory automation, and oil pipe monitoring system.

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 touch glass surface is up to 3H for anti scratch purpose.

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	8th Gen Intel® Core™ processor, up to 35W Coffee Lake-S i5-8500T Tj 100°C Coffee Lake-S G5400T Tj 100/88°C
	Chipset	Intel® H310
	System Memory	1 x 260-pin DDR4 2133/2400MHz SO-DIMM, up to 32GB
	BIOS	AMI UEFI BIOS
	Storage	1 x 2.5" SATA HDD/SSD (7mm and 9.5mm, removable)
	Watchdog Timer	255 levels, 0 to 255 sec.
	Onboard Graphics	Intel® integrated Gfx graphic engine

317

Specifications

I/O Connector	1 x 9-pin D-sub Male/via cable(optional) for RS-232
	1 x COM for RS232/422/485
	2 x RJ45 for Giga Ethernet
	2 x USB 3.0, 2 x USB 2.0
	1 x Phoenix type connector for DC power input
	1 x Switch for power on/off (ATX)
	1 x Line-out
	1 x HDMI
	1 x DP
	1 x VGA
	1 x Remote power switch
	1 x AT/ATX switch (DC type only)
	1 x Grounding hole (DC Version)
TPM	N/A
Expansion Interface	1 x M.2 Key E slot
	1 x Full-size PCI Express Mini Card slot
Touchscreen	Projected capacitive multi-touch
Power Supply	+12V/+19V/+24VDC
	1x terminal block
Power Consumption	60W
Dimensions	396.8 mm (15.6") (W) x 53 mm (2.08") (D) x 247.1 mm (9.73") (H)
Packing Dimensions	525 mm (20.67") (W) x 470 mm (18.51") (D) x 186 mm (7.32") (H)
Weight (net/gross)	6.5 kg(14.3 lb)/8.5kg(18.7 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, EN 61000-6-2, EN 61000-6-4

Packing List

1 x GOT315WL-521
1 x Phoenix connector
1 x Panel mount kit

Ordering Information

GOT315W-521-PCT-DC-S	15.6" WXGA TFT fanless touch panel computer with LGA1151 8th Generation Intel® Core™ i5 & Pentium® G5400T processor, projected capacitive multi-touch screen and 24 VDC terminal block with small Phoenix connector

* Other configuration by request
* Specification and certifications may vary based on different requirements

Optional Accessories

4G LTE Kit	
Wi-Fi kit	
881231770A0E	Wall mount kit
50906D24000E	Adaptor 24V/120W, wire only, FSP120-AAAN3

Optional EOS Installation

Windows® 10 IoT Enterprise

Optional OS Installation

Windows® 10

Dimensions

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 +/-

Fanless	Low Power	Ext. Temp	DDR3	AiRD	IP65

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, is 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

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 Phoenix connector
1 x Panel mount kit

Ordering Information

GOT315WL-845-PCT-DC (P/N: E22B315101)	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

* Other configuration by request
* Specification and certifications may vary based on different requirements

Optional Accessories

4G LTE Kit	
Wi-Fi kit	
881231770A0E	Wall mount kit
50906D24000E	Adaptor 24V/120W, wire only, FSP120-AAAN3

Optional EOS Installation

Windows® 10 IoT Enterprise

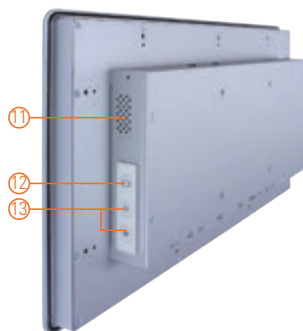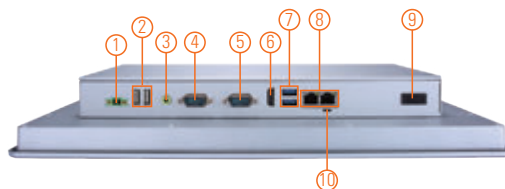## Optional OS Installation

Windows® 10

Dimensions

USE 82261570370E P6157W_PANEL_MOUNT(Molding)*9PCS

GOT317-502-FR

17" SXGA TFT Expandable Touch Panel Computer with 7th/6th Gen Intel® Core™ i7/i5/i3 Processor

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

▲ Top 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

| 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.

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

Packing List

1 x GOT317-502
1 x Phoenix connector
1 x Panel mount kit (by model)
1 x Adapter (by model)

Ordering Information

GOT317-502-FR (P/N: E22B317100) With Adapter and Panel Mount Kit	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 redundant power input with 1 x terminal block and 1x 4-pin din connector
GOT317-502-FR-DC (P/N: E22B317101) W/O Adapter and Panel Mount Kit	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 redundant power input with 1 x terminal block and 1x 4-pin din connector

* Other configuration by request
* Specification and certifications may vary based on different requirements

Optional Accessories

4G LTE Kit	
Wi-Fi Kit	
Wi-Fi + BT Kit	
881231770A0E	Wall mount kit
881261510A0E	Panel mount kit
50904D24010E	AC adapter 120W 19V/6.32A, FSP120-ABAN3

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

386.63
CUT OUT
319.05

398.02
330.44
19   53
5.5

69.22
33.63
33.63
69.22

USE 82261570370E P6157W_PANEL_MOUNT(Molding)*10PCS

GOT318WL-845

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
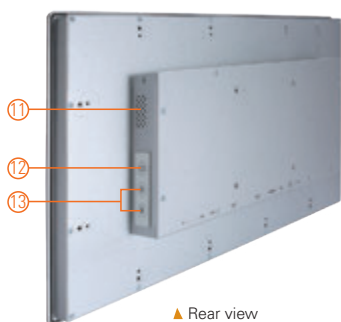
▲ Rear view
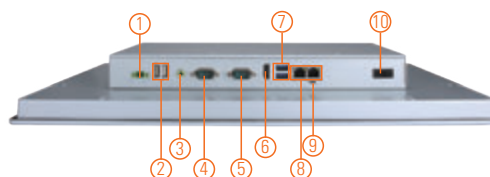
1. Terminal block for DC power input	6. 1 x HDMI	11. Speaker
2. 2 x USB 2.0	7. 2 x USB 3.0	12. Backlight switch
3. 1 x Line-out	8. 2 x LAN	13. Brightness adjust +/-
4. 1 x RS-232/422/485	9. AT/ATX selectable switch	
5. 1 x RS-232	10. Power switch (ATX)	

Fanless	Low Power	Ext. Temp	DDR3	AiRD	IP65

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

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 Phoenix connector
1 x Panel mount kit

Ordering Information

GOT318WL-845-FR-DC (P/N: E22B318102)	18.5" WXGA TFT fanless touch panel computer with Intel® Pentium® N3710 1.6 GHz processor, 5-wire resistive screen and 24 VDC terminal block connector
GOT318WL-845-PCT-DC (P/N: E22B318100)	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

*Other configuration by request
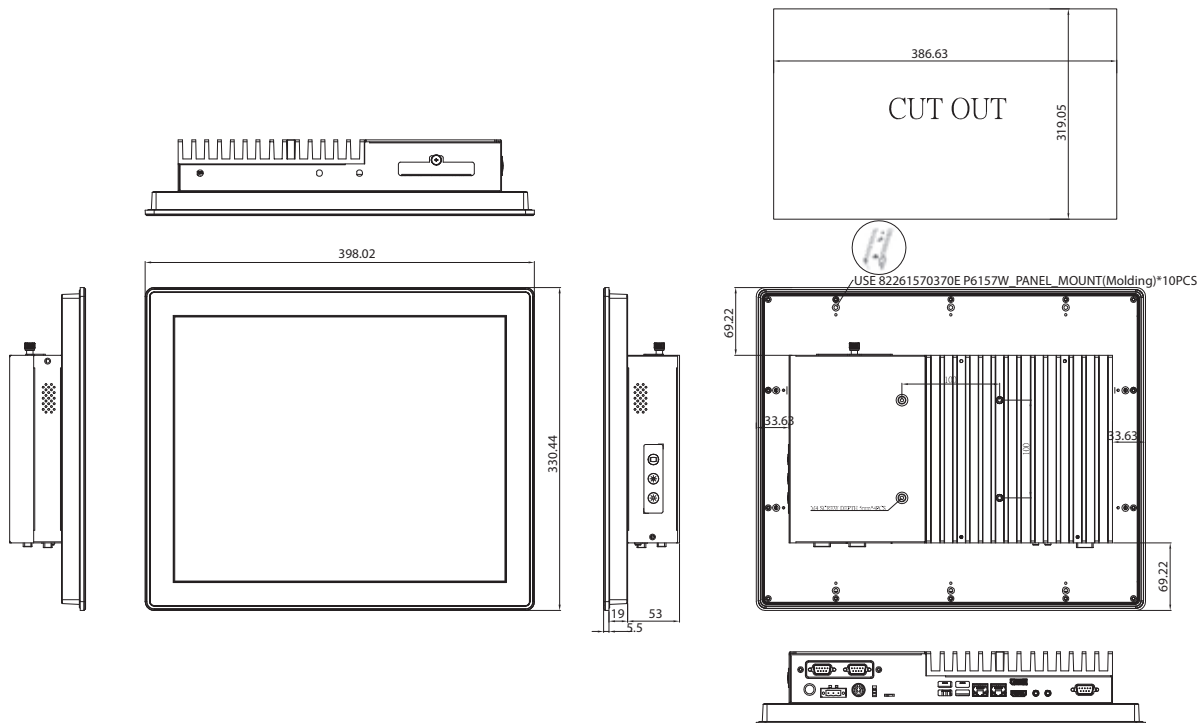*Specification and certifications may vary based on different requirements

Optional Accessories

4G LTE kit	
Wi-Fi kit	
881231770A0E	Wall mount kit
50906D24000E	Adaptor 24V/120W, wire only, FSP120-AAAN3

Optional EOS Installation

Windows® 10 IoT Enterprise

Optional OS Installation

Windows® 10

Dimensions

CUTOUT DIM.

273.74$^{+0.1}_{-0}$

448.74$^{+0.1}_{-0}$

285

460

TP.A/A

23.45   35

5.4

447.74

310

152

272.74

USE 82261570370E P6157W_ PANEL MOUNT(Molding)•12PCS

GOT3187WL-834 NEW

18.5" WXGA TFT Multi-touch Panel Computer with Intel® Celeron® Processor J1900

Features

- 18.5" projected capacitive multi-touch wide screen
- Resolution up to FHD
- Fanless design with Intel® Celeron® Processor J1900
- 2.5" 7/9.5 mm SATA HDD & CFast™ or mSATA
- 3G, WLAN module & antennas (optional)
- 2 GbE LANs, 2 USB 3.0, 2 USB 2.0 and 2 COM
- IP65 aluminum front bezel
- Supports panel mount and optional VESA arm/desktop stand/ wall mount
- 0°C to +40°C wide operating temperature range
- Adjust RS-232/422/485 setting via BIOS

▲ Rear view
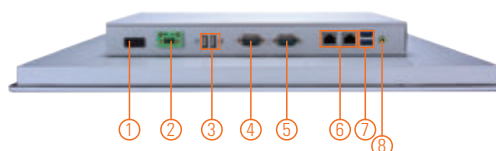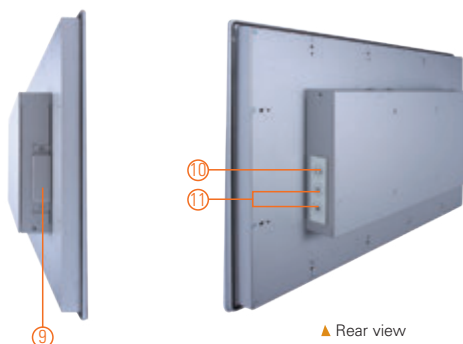
1. Power switch
2. Terminal block for DC power input
3. 2 x USB 2.0
4. COM 1 (RS-232/422/485)
5. COM 2 (RS-232/422/485)
6. 2 x Ethernet
7. 2 x USB 3.0
8. Audio (Line-out)
9. CFast™ slot
10. Backlight switch
11. Brightness adjustment

Fanless | Low Power | Ext. Temp | DDR3 | AiRD | IP65

Introduction

The GOT3187WL-834-PCT adopts an 18.5-inch WXGA/FHD LCD and supports Intel® Bay Trail-D processor. The Lite rugged industrial panel PC supports low power Intel® Celeron® processor J1900. 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 LCD with Projected Capacitive Multi-touch
The 18.5" WXGA/FHD touch panel PC supports 250/500 nits brightness and can 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 IP65-rated industrial panel PC, GOT3187WL-834-PCT, 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 18.5" FHD TFT LCD
	Brightness (cd/m²)	250 nits (WXGA) 500 nits (FHD)
	Resolution	1366 x 768 1920 x 1080
Main System	CPU	Intel® Celeron® processor J1900 4C @ 2.0 GHz
	Chipset	SoC Intergrated
	System Memory	1 x 204-pin DDR3L-1333/1600 SO-DIMM SO-DIMM, up to 8GB
	BIOS	AMI UEFI BIOS
	Storage	1 x 2.5" 7/9.5 mm SATA HDD 1 x CFast™ or 1 x mSATA
	Watchdog Timer	255 levels, 0 to 255 sec.
	Onboard Graphics	Integrated Intel® HD Graphics

Specifications

I/O Connector	2 x RS-232/422/485 1 x awitch 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® i210-IT)
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: 9 to 36 VDC AC version: 12 VDC 60W adapter
Power Consumption	49 W
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 +40°C (+32°F to +104°F)
Relative Humidity	20% to 90% @ +40°C; non-condensing
Operation Vibration	2G, 10 - 500Hz, random for CFastTM
Certificate	CE

Packing List

1 x GOT3187W-834
1 x Adapter (AC Version)
1 x Phoenix connector (DC Version)
1 x Panel mount kit
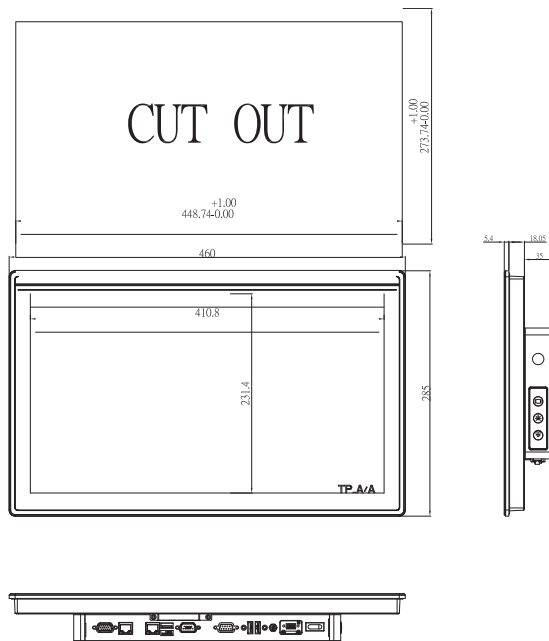
Ordering Information

GOT3187WL-834-PCT-FHD-DC (P/N: E223187109)	18.5" FHD TFT fanless touch panel computer with Intel® Celeron® J1900 2.0 GHz quad core processor, projected capacitive multi-touch screen and 12 to 36 VDC terminal block connector
GOT3187WL-834-PCT-J (P/N: E223187106)	18.5" WXGA TFT fanless touch panel computer with Intel® Celeron® J1900 2.0 GHz quad core processor, projected capacitive multi-touch screen and AC-DC 12 VDC power adapter (screw type connector)
GOT3187WL-834-PCT-DC (P/N: E223187107)	18.5" WXGA TFT fanless touch panel computer with Intel® Celeron® J1900 2.0 GHz quad core processor, projected capacitive multi-touch screen and 9 to 36 VDC terminal block connector

* Other configuration by request
* Specification and certifications may vary based on different requirements

Optional Accessories

Wi-Fi Kit	
881231770A0E	Wall mount kit

Optional EOS Installation

WE8S
WES 7
Windows® 10 IoT Enterprise

Optional OS Installation

Windows® 7
Windows® 8.1
Windows® 10

Dimensions

USE 82261570370E P6157W_ PANEL MOUNT(Molding)•12PCS
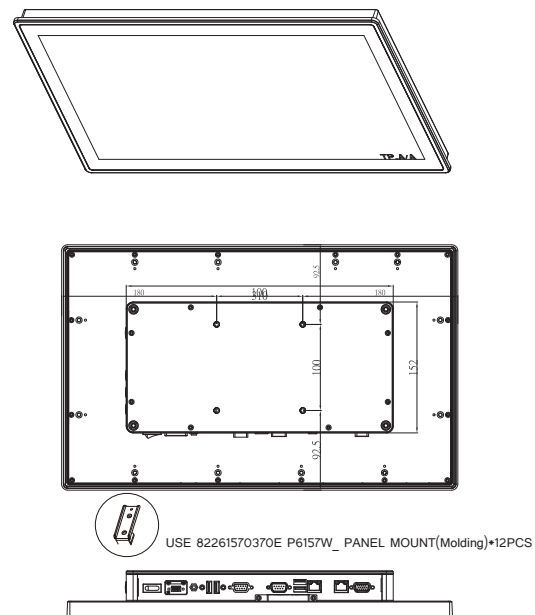
GOT321W-502

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 or Resistive touch (optional)
- 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
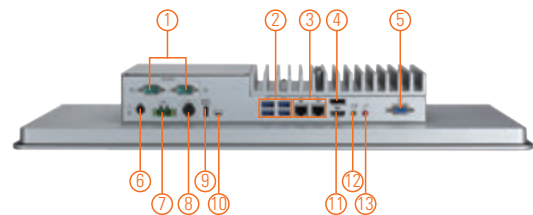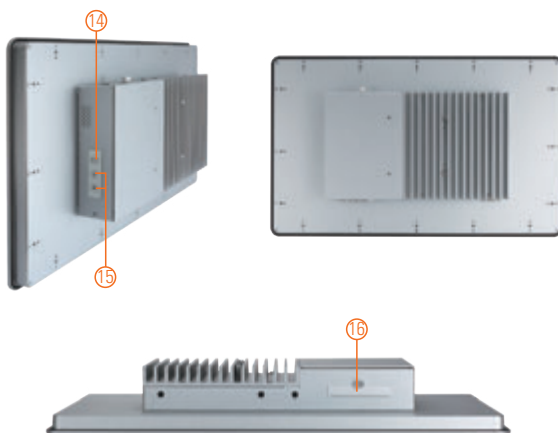
1. 2 x COM (cable)	6. Power button (ATX)	11. 1 x HDMI
2. 4 x USB 3.0	7. Terminal block for DC power input	12. 1 x Line-out
3. 2 x LAN	8. Power input for adapter	13. 1 x Mic-in
4. 1 x DisplayPort	9. Remote power switch	14. Backlight switch
5. 1 x VGA	10. AT/ATX selectable switch	15. Brightness adjust +/-
		16. Swappable HDD

Fanless **DualView** **DDR4** **USB 3.0** **IP65**

Introduction

The GOT321W-502 is a 21.5" fanless 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 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 is equipped with an easy-swappable 2.5" HDD for extensive storage needs.

Speaker and WLAN Module Supported
The GOT321W-502 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.

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 5-wire flat resistive 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
1 x Phoenix connector
1 x Panel mount kit (by model)
1 x Adapter (by model)
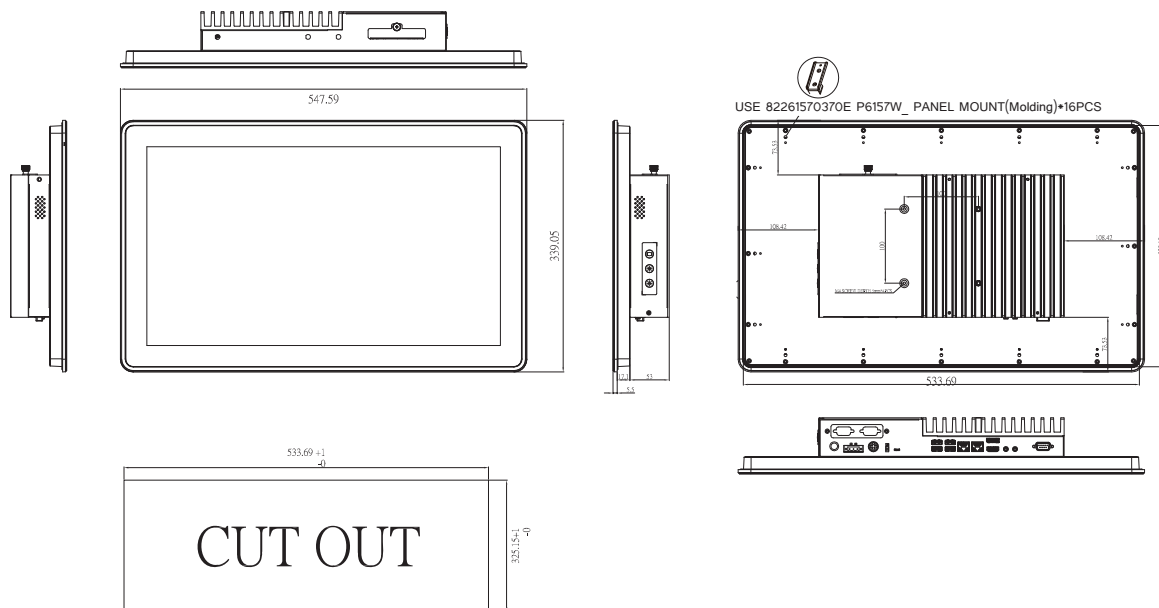
Ordering Information

GOT321W-502-PCT With Adapter and Panel Mount Kit (P/N: E22B321100)	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
GOT321W-502-PCT-DC W/O Adapter and Panel Mount Kit (P/N: E22B321103)	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
GOT321W-502-FR With Adapter and Panel Mount Kit (P/N: E22B321102)	21.5" FHD 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

* Other configuration by request
* Specification and certifications are based on requirements and may vary.

Optional Accessories

Wi-Fi kit	
881231770A0E	Wall mount kit
881262170A0E	Panel mount kit
50904D24010E	AC adapter 120W 19V/6.32A,FSP120-ABAN3

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

GOT3217WL-845-PCT

NEW

21.5" FHD TFT Multi-touch Panel Computer with Intel® Pentium® Processor N3710

Features

- 21.5" FHD 10-point multi-touch projected capacitive widescreen
- Fanless design with Intel® Pentium® processor N3710
- 2.5" 7/9.5 mm 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
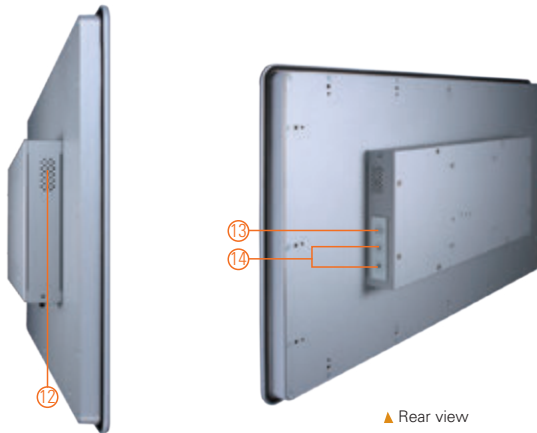
▲ Rear view
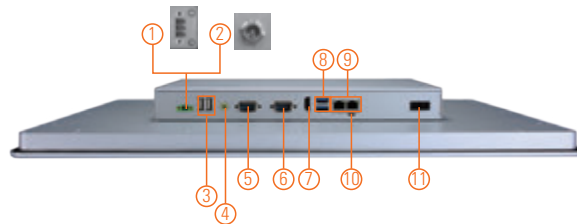
1. Terminal block for DC power input or
2. Screw conn. w/ AC power adapter
3. 2 x USB 2.0
4. 1 x Line-out
5. 1 x RS-232/422/485

6. 1 x RS-232
7. 1 x HDMI
8. 2 x USB 3.0
9. 2 x LAN
10. AT/ATX selectable switch

11. Power Switch (ATX)
12. Speaker
13. Backlight switch
14. Brightness adjust +/-

| Fanless | Low Power | Ext. Temp | DDR3 | AiRD | IP65 |

Introduction

The GOT3217WL-845-PCT adopts a 21.5-inch FHD LCD and supports supports low power Intel® Pentium® processor N3710. It also provides two PCI Express Mini card slots for 3G, wireless network connectivity. This 21.5" multi-touch panel computer is suitable for transportation, heavy-duty industry, smart factory automation, and oil pipe monitoring systems.

21.5-inch FHD LCD with Projected Capacitive Multi-touch

The 21.5" FHD touch panel PC has a 21.5-inch FHD TFT LCD display with a 10-point multitouch screen and 250 nits of brightness. The hardness of touch glass surface is up to 7h for anti-scratch purpose.

WALN Antenna Supported (optional)

The GOT3217WL-845-PCT provides two PCI Express Mini card slots and WLAN antennas for 4G and wireless network connectivity.

Specifications

Front Bezel	IP65 front bezel	
LCD Panel	Display Type	21.5" FHD TFT LCD
	Brightness (cd/m^2)	250 nits
	Resolution	1920 x 1080
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

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	10-point projected capacitive multi-touch
Power Supply	1. DC version: 24 VDC 2. AC version: 12 VDC 60W adapter
Power Consumption	48 W
Dimensions	547.6 mm (21.56") (W) x 58.5 mm (2.30") (D) x 339.0 mm (13.35") (H)
Packing Dimensions	720 mm (28.34") (W) x 210 mm (8.27") (D) x 550 mm (2.17") (H)
Weight (net/gross)	7.6 kg (16.8 lb)/10.5 kg (23.1 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
Certificate	CE

Packing List

1 x GOT3217WL-845-PCT
1 x Adapter (GOT3217WL-845-PCT-J)
1 x Phoenix connector (GOT3217WL-845-PCT-DC, 24 VDC)
1 x Panel mount kit

Ordering Information

GOT3217WL-845-PCT-J (P/N: E223217101)	21.5" FHD TFT fanless touch panel computer with Intel® Pentium® N3710 1.6 GHz quad core processor, 10-point projected capacitive multi-touch screen and AC-DC 12 VDC power adapter (screw type connector)
GOT3217WL-845-PCT-DC (P/N: E223217102)	21.5" FHD TFT fanless touch panel computer with Intel® Pentium® N3710 1.6 GHz quad core processor, 10-point projected capacitive multi-touch screen and 24 VDC terminal block connector

* Other configuration by request
* Specification and certifications are based on requirements and may vary.

Optional Accessories

4G LTE kit	
Wi-Fi kit	
881231770A0E	Wall mount kit
50906D24000E	Adaptor 24V/120W, wire only, FSP120-AAAN3 (for DC model)

Optional EOS Installation

Windows® 10 IoT Enterprise

Optional OS Installation

Windows® 10

Dimensions

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

Modular Panel PCs

Self-service Kiosk

Industrial Panel PCs

3
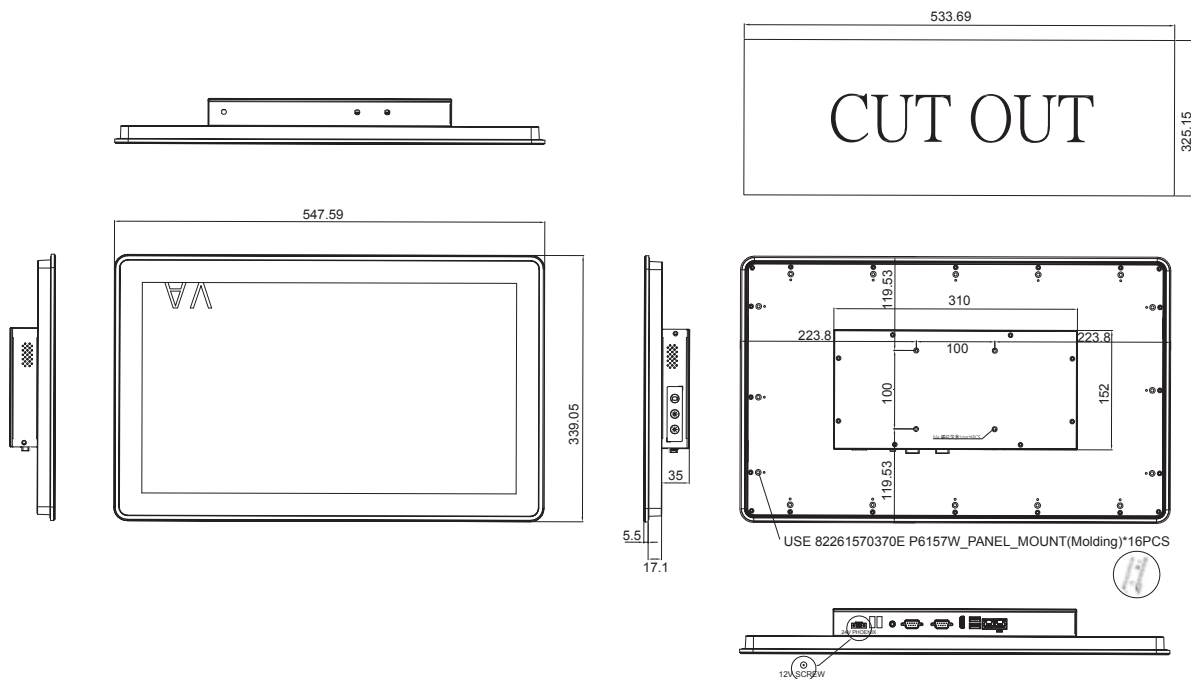
Stainless Touch Panel Computers

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.

Stainless Touch Panel Computers

Selection Guide

Features\Models	GOT810-845	GOT815L-511	GOT815-834
CPU Level	Intel® Celeron® N3060 2C@1.6 GHz	Intel® Core™ i5-7300U 3.5 GHz (Kaby Lake)	Intel® Atom® E3827 1.75 GHz
Chipset	SoC intergrated	SoC integrated	SoC integrated
System Memory	1 x DDR3L 1333 MHz 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	10.4" XGA TFT LCD, 350 nits	15" XGA TFT LCD, 420 nits	15" XGA TFT, 420 nits
I/O	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)	2 x RS-232/422/485 (default RS-232, M12 A-coded) 4 x USB 2.0(M12 A-coded) 1 x 10/100/1000 Mbps Ethernet (M12 X-coded) 1 x DC power connector (M12)	2 x RS-232/422/485 (default RS-232, M12 A-coded) 4 x USB 2.0 (M12, A-coded) 1 x 10/100/1000 Mbps Ethernet (M12, X-coded) 1 x DC power connector (M12)
Storage	1 x mSATA 1 x SATA	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	9 to 36 VDC
Power Consumption	29W	45W	30W
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 with IP66/IP69K protection
Dimensions (W x D x H)	284 x 56 x 241 mm (11.2" x 2.2" x 9.49")	382 x 55 x 305 mm (15.4" x 2.17" x 12.01")	382 x 55 x 305 mm (15.4" x 2.2" x 12.01")
Weight (net/gross)	2.8 kg (6.17 lb)/4 kg (8.82 lb)	5.2 kg (11.46 lb)/8.4 kg (18.5 lb)	6.94 kg (15.3 lb)/10.2 kg (22.5 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

Features\Models	GOT817L-511	GOT817-834
CPU Level	Intel® Core™ i5-7300U 3.5 GHz (Kaby Lake)	Intel® Atom® E3827 1.75 GHz
Chipset	SoC integrated	SoC integrated
System Memory	1 x 260-pin DDR4-2133 SO-DIMM, up to 16GB	1 x 204-pin DDR3L-1333 SO-DIMM, up to 8GB
Display	17" SXGA TFT LCD, 350 nits	17" SXGA TFT, 350 nits
I/O	2 x RS-232/422/485 (default RS-232, M12 A-coded) 4 x USB 2.0 (M12 A-coded) 1 x 10/100/1000 Mbps Ethernet (M12 X-coded) 1 x DC power connector (M12)	2 x RS-232/422/485 (default RS-232, M12 A-coded) 4 x USB 2.0 (M12 A-coded) 1 x 10/100/1000 Mbps Ethernet (M12 X-coded) 1 x DC power connector (M12)
Storage	1 x 2.5" SSD HDD or 1 x 2.5" SATA HDD	1 x 2.5" SSD 1 x CFast™
Expansion Interface	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 touch or projected capacitive multi-touch	5-wire resistive type or projected capacitive touch
Operating System	Windows® 10 IoT, Windows® 10	Windows® 8.1, WE8S, Windows® 7, WES 7, Windows® 10
Power Supply	9 to 36 VDC	12 to 36 VDC
Power Consumption	67.5W	50W
Watchdog Timer	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.
Front Bezel	Stainless steel IP66/IP69K protection	Stainless steel IP66/IP69K protection
Dimensions (W x D x H)	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)	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 +55°C (-4°F to +131°F)
Certifications	CE	CE

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)

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
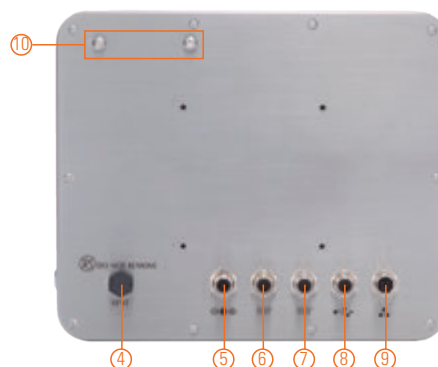
1. Backlight on/off
2. Brightness adjust
3. Power on/off
4. Ventilation valve
5. DC power connector
6. 1 x RS-232/422/485 (default RS-232)
7. 1 x RS-232
8. 2 x USB 2.0
9. 1 x Ethernet
10. 2 x Antenna opening

| 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 Temperature (-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

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 DC cable

Ordering Information

GOT810-845-R (P/N: E22B810101)	10.4" IP66 & IP69K stainless steel fanless 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 (P/N: E22B810102)	10.4" IP66 & IP69K stainless steel fanless touch panel computer with projected capacitive touch, Intel® Celeron® N3060 onboard, XGA 350 nits LCD, water-proof power cable (1.8 m)

* Other configuration by request
* Specification and certifications may vary based on different requirements

Optional Accessories

Wi-Fi kit	
594B8122100E	Water-proof COM cable (1.8 m)
594B8122820E	USB cable M12-8P-F/2 x type A (1.8 m)
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
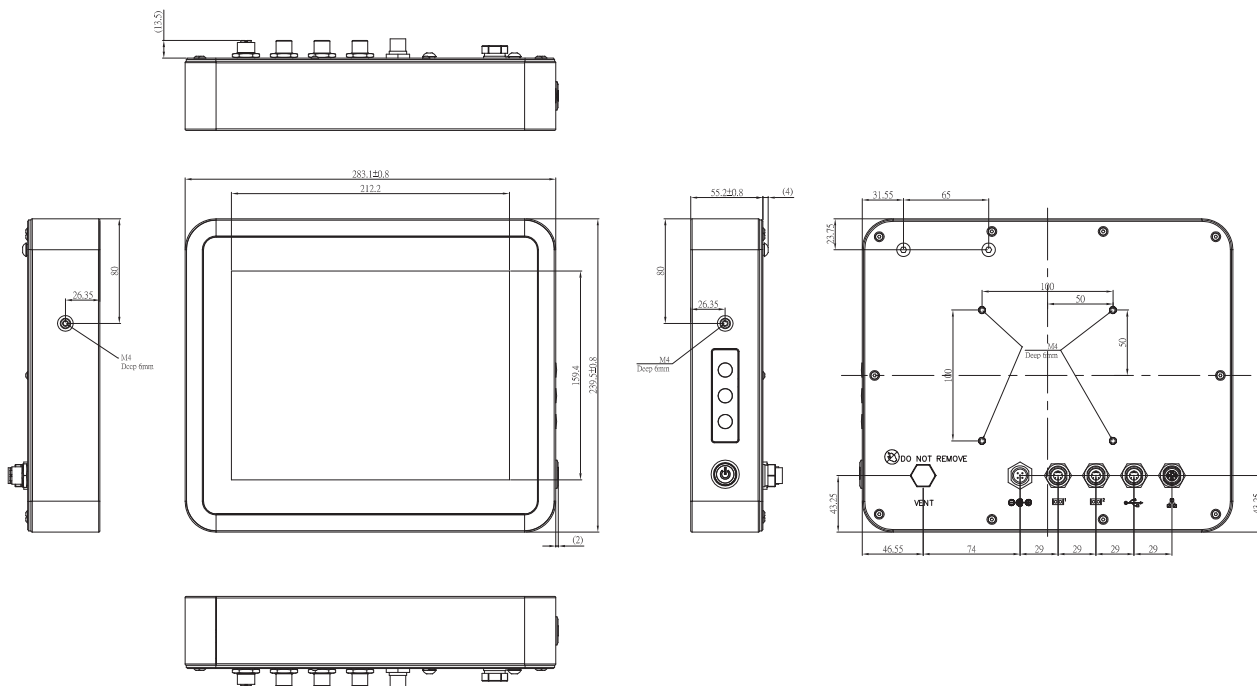
GOT815L-511

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 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

| Fanless | Low Power | Ext. Temp | DDR4 | IP66 | M12 Connector | IP69K |

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 Temperature (-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

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 1 x DC power input (M12)
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 DC cable

Ordering Information

GOT815L-511-C-DC (P/N: E22B815116)	15" XGA fanless IP66 & IP69K-rated stainless steel fanless 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 (P/N: E22B815113)	15" XGA fanless IP66 & IP69K-rated stainless steel fanless touch panel computer with Intel® Core™ i5-7300U, 5-wire flat resistive touch screen and 9 to 36 VDC power input

* Other configuration by request
* Specification and certifications may vary based on different requirements

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)
50966224010E	Adapter 24V 90W, M12 A-code 5P FSP090AAAN3

Optional EOS Installation

Windows® 10 IoT
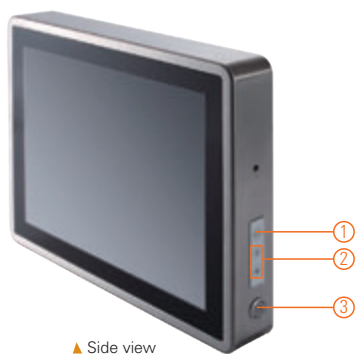
Optional OS Installation

Windows® 10

Dimensions

GOT815-834

15" XGA TFT IP66 & IP69K-rated Stainless Steel Fanless PCT (or Resistive Touch)
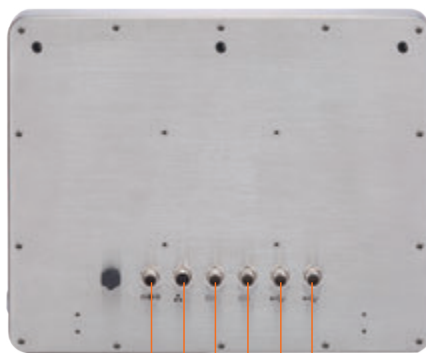Panel Computer with Intel® Atom® Processor E3827 and Flat Bezel Design (-20°C to +55°C)

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

TAIWAN
EXCELLENCE
2016

⑩

① ② ③

▲ Side view

waterproof, dust proof ventilation valve

④ ⑤ ⑥ ⑦ ⑧ ⑨

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)

| Fanless | Low Power | Ext. Temp | DDR3 | IP66 | M12 Connector | IP69K |

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 Temperature (-20°C to +55°C) & Anti-vibration (2G)
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/m²)	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

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) 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	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 DC cable

Ordering Information

GOT815-834-C-DC (P/N: E22B815112)	15" XGA IP66-rated stainless steel fanless 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 (P/N: E22B815110)	15" XGA IP66-rated stainless steel fanless 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 (P/N: E22B815109)	15" XGA IP66-rated stainless steel fanless 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

* Other configuration by request
* Specification 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)
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

GOT817L-511
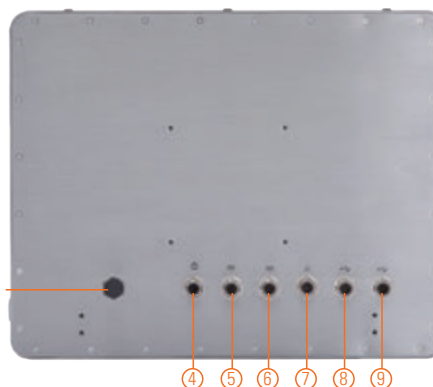
17" SXGA TFT IP66 & IP69K-rated Stainless Steel Fanless PCT (or Resistive Touch)
Panel Computer with Intel® Core™ i5-7300U Processor and Flat Bezel Design (-20°C to +50°C)

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 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

| Fanless | Low Power | Ext. Temp | DDR4 | IP66 | M12 Connector | IP69K |

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 Temperature (-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

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) 1 x DC power connector (M12)
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 DC cable
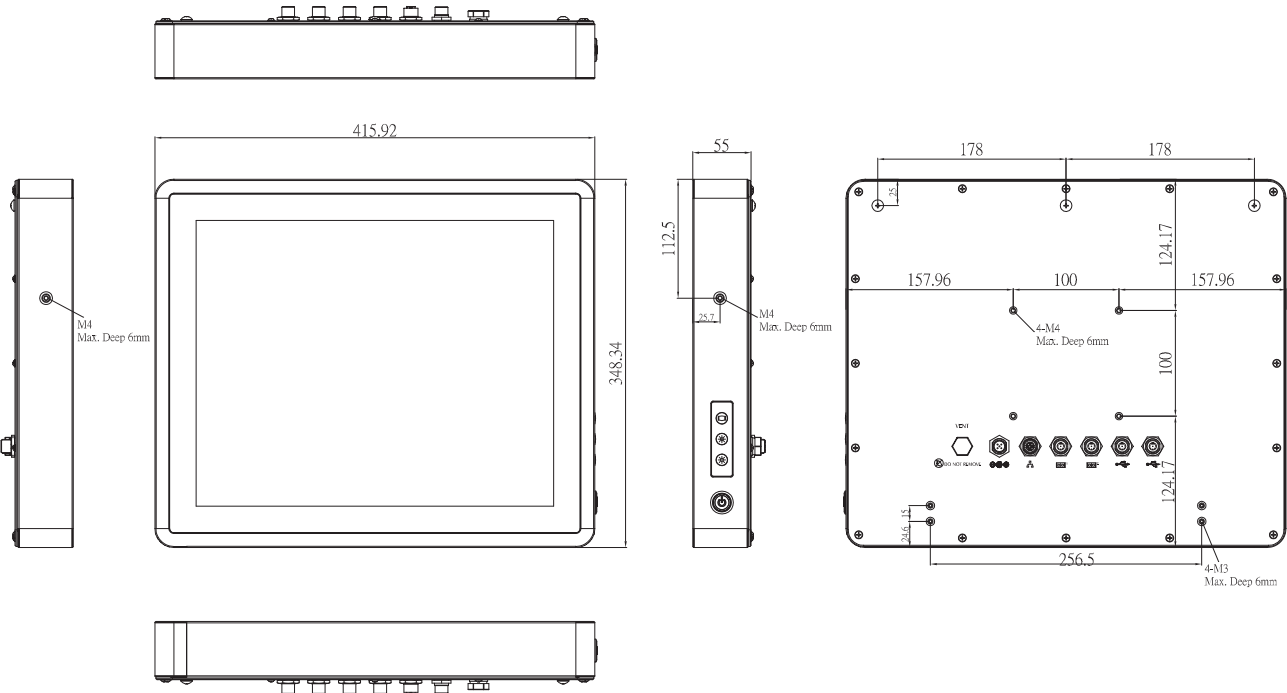
Ordering Information

GOT817L-511-C-DC (P/N: E22B817105)	17" SXGA IP66 & IP69K-rated stainless steel fanless 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 (P/N: E22B817106)	17" SXGA IP66 & IP69K-rated stainless steel fanless touch panel computer with Intel® Core™ i5-7300U, 5-wire flat resistive touch screen, 9 to 36 VDC power input

* Other configuration by request
* Specification and certifications may vary based on different requirements

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)
50966224010E	Adapter 24V 90W, M12 A-code 5P FSP090AAAN3

Optional EOS Installation

Windows® 10 IoT
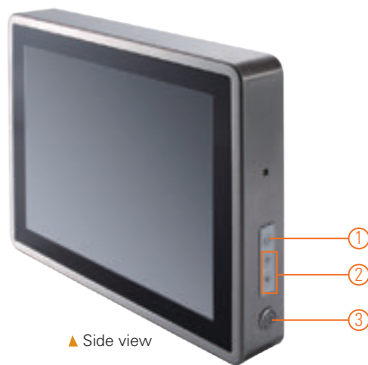
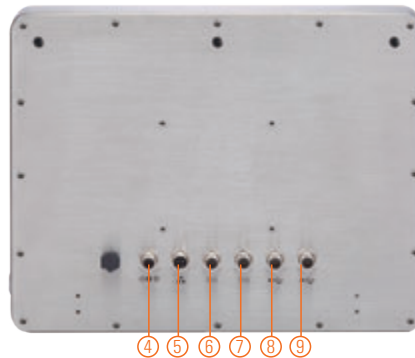## Optional OS Installation

Windows® 10

Dimensions

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

waterproof, dustproof
ventilation valve

▲ Side view

| Fanless | Low Power | Ext. Temp | DDR3 | IP66 | M12 Connector | IP69K |

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)
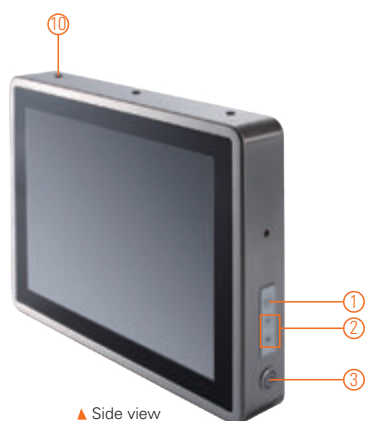
Introduction

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 Temperature (-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

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)
	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	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 DC cable

Ordering Information

Sunlight readable type	
GOT817-834-C-DC (P/N: E22B817103)	17" SXGA IP66 & IP69K-rated stainless steel fanless 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 (P/N: E22B817101)	17" SXGA IP66 & IP69K-rated stainless steel fanless touch panel computer with Intel® Atom® E3827, 5-wire flat resistive touch screen, flat-bezel design and 12 to 36 VDC power input

* Other configuration by request
* Specification 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)
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

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

Modular Panel PCs

Self-service Kiosk

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 passenger information display, CCTV live view, fleet management, and many types of heavy transport equipment.

Transportation Touch Panel Computers

Selection Guide

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	DDR3 4GB	DDR3 4GB
Display	10.4" XGA TFT LCD, 500 nits	10.4" SVGA TFT LCD, 1000 nits	12.1" XGA TFT LCD, 800 nits
I/O	1 x 10/100/1000 Mbps Ethernet with isolated 1.5kV 3 x USB port type A connector 1 x RS-232/422/485 with isolated 1.5kV (D-sub 9 male) 1 x DC 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 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 1 x CANBus with isolated 1.5kV (D-sub)	2 x RS-232/422/485 with isolated 1.5kV (M12, A-coded) 2 x 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 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 Full-size PCI Express Mini Card slot	2 x Full-size 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® 7, WES7 Windows® 8/8.1, WE8S Windows® 10, Windows® 10 IoT	Windows® 7, WES7 Windows® 8/8.1, WE8S Windows® 10, Windows® 10 IoT
Power Supply	18 to 60 VDC	24 to 110 VDC power input	24 to 110 VDC power input
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)	-40°C to +70°C (-40°F to +158°F)	-40°C to +70°C (-40°F to +158°F)
Certifications	CE, EN 60721-3-5	EN 50155: 2017, EN 50121-3-2: 2016, EN 61373: 2010, EN 45545-2	EN 50155: 2017, EN 50121-3-2: 2016, EN 61373: 2010, EN 45545-2

Transportation Touch Displays

Selection Guide

Features\Models	P6105	P6125	P718W
Display Type	10.4" XGA TFT LCD	12.1" XGA TFT LCD	18.5" FHD TFT LCD
Max. Colors	16.2M	16.2M	16.7M
Active Area (mm)	210.4 x 157.8	245.76 x 184.32	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)	1920 x 1080 ((50/60/75Hz)
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	50,000
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/m^2)	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	Optional, Res. And PCT	Optional, Res. And PCT	Optional, Res. And PCT
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	Panel mount/VESA arm
Certifications	EN 50155: 2017, EN 50121-3-2: 2016, EN 61373: 2010, EN 45545-2	EN 50155: 2017, EN 50121-3-2: 2016, EN 61373: 2010, EN 45545-2	EN 50155: 2017, EN 50121-3-2: 2016, EN 61373: 2010, EN 45545-2

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)

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

1. Multi-function key
2. Brightness +/-
3. Volume +/-
4. LCD on/off
5. LED indicator
6. LED light sensor

▲ Top view

▲ Side view

▲ Rear view

1. DC-in	8. 1 x RS-232/422/485
2. AX/ATX mode switch	9. 1 x LAN
3. CANbus	10. 2 x Wi-Fi SMA antenna opening
4. 1 x line-out	11. 3G/LTE/Wi-Fi SMA antenna
5. 1 x mic-in	opening
6. 3 x USB 2.0 type A	12. SIM card socket
7. DIO (6-in/2-out)	13. 1 x USB 2.0 type A

Fanless | Low Power | Ext. Temp | DDR3 | IP65
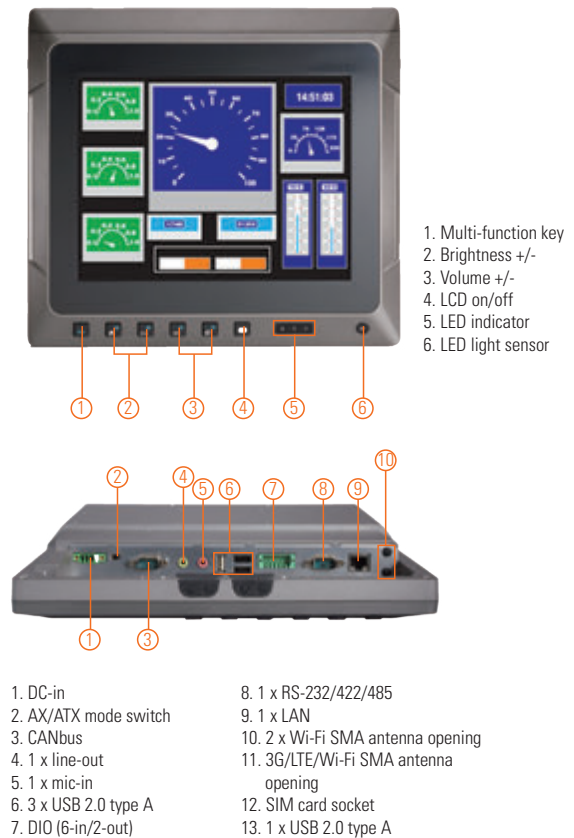
Introduction

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/m²)	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
	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

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	Typical 24/48 VDC Working range: 18 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
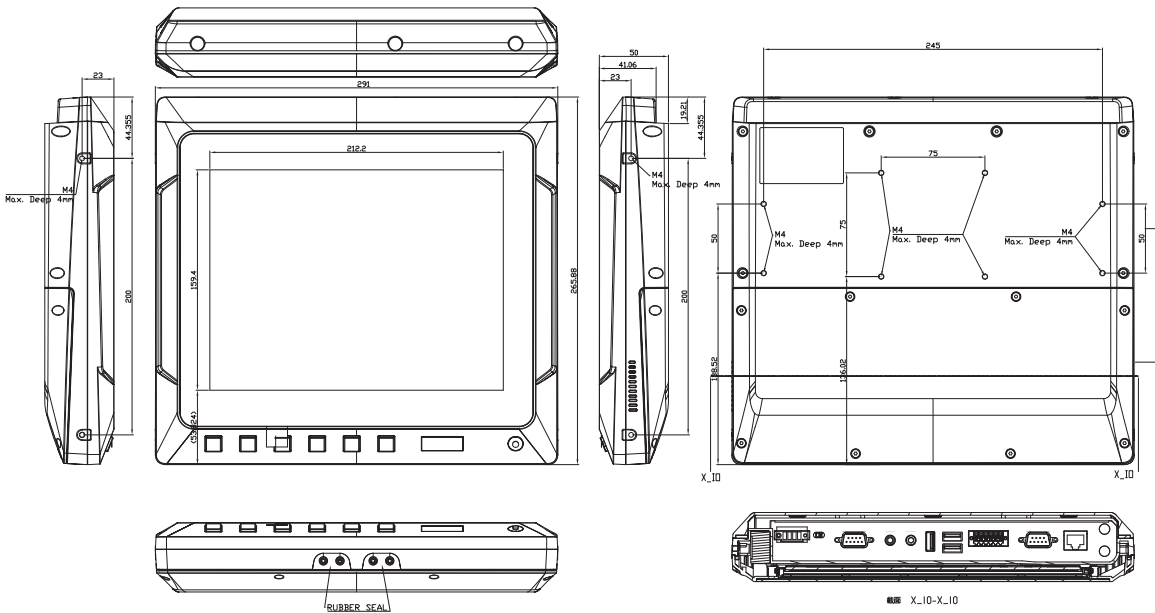
GOT710-837

10.4" SVGA TFT LCD Railway Fanless Touchscreen Panel PC with Intel® Atom® Processor E3845 1.91 GHz (-40°C to +70°C)

Features

- Sunlight readable 10.4" SVGA TFT LCD with high brightness of 1000nits
- Intel® Atom® processor E3845 1.91 GHz
- Alternative keypad control in the front bezel
- Lockable I/O interfaces and M12 type connectors
- Auto-dimming for different environments
- -40°C to +70°C wide temperature range (T3 Level)
- EN 50155, EN 45545-2 certified for railway applications

▲ Side view

| EN50155 | M12 Connector | Fanless | Low Power | Ext. Temp | DDR3 |

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 of 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 (-40°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, rest area of enclosure is IP40 rated	
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
	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

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	Typical 24 VDC, working range 16.8 - 30 VDC Typical 110 VDC, working range 77 to 137.5 VDC Typical 24 to 110 VDC, working range 16.8 to 137.5 VDC, S3 20ms hold up time
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	-40°C to +70°C (-40°F to +158°F)
Relative Humidity	10% to 95% @ +40°C, non-condensing
Certifications	CE, EN 50155, EN 45545-2 Complied UIC 612

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

Packing List

1 x GOT710-837 unit
1 x Power cable
1 x Phoenix connector

Optional EOS Installation

WES 7
WE8S
Windows® 10 (IoT)

▲ Touch without keypad version

Dimensions

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

24 to 110 VDC Power Input

GOT710-837-R-E3845-24-110VDC (P/N: E22B710110)	10.4" SVGA railway fanless touchscreen panel PC with Intel® Atom® E3845, sunlight readable LCD (1000 nits), 5-wire resistive touchscreen, 24 to 110 VDC power input, S3 20ms hold up time
GOT710-837-R-E3845-24-110VDC with keypad (P/N: E22B710111)	10.4" SVGA railway fanless touchscreen panel PC with Intel® Atom® E3845, sunlight readable LCD (1000 nits), 5-wire resistive touchscreen, 24 to 110 VDC power input, S3 20ms hold up time and keypad

*Specifications and certifications may vary based on different requirements.

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

Optional OS Installation

Windows® 7
Windows® 8/8.1
Windows® 10

GOT712-837

12.1" XGA TFT LCD Railway Fanless Touchscreen Panel PC with Intel® Atom®
Processor E3845 1.91 GHz (-40°C to +70°C)

Features

- Sunlight readable 12.1" XGA TFT LCD with high brightness of 800 nits
- Intel® Atom® processor E3845 1.91 GHz
- Lockable I/O interfaces and M12 type connectors
- Auto-dimming for different environments
- -40°C to +70°C wide temperature range
- EN 50155, EN 45545-2 certified
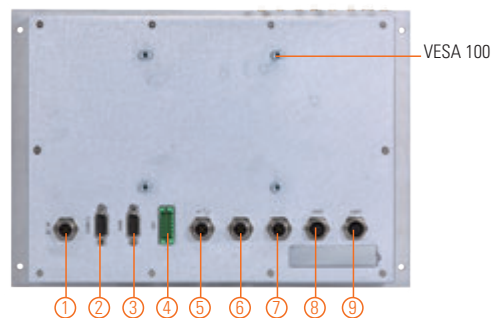
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EXCELLENCE
2017

▲ Side view

VESA 100

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

1. DC power input	6. 1 x RS-232/422/485 with isolation 1.5kV
2. CANbus with isolation 1.5kV	7. 1 x RS-232/422/485 with isolation 1.5kV
3. Audio (line-out, line-in, mic-in & speaker-out)	8. 1 x GbE with isolation 1.5kV
4. DIO (6-in/2-out with isolation 1.5kV)	9. 1 x GbE with isolation 1.5kV
5. 2 x USB 2.0	

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 of 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 (-40°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, rest area of enclosure is IP40 rated	
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
	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

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	Typical 24 VDC, working range 16.8 - 30 VDC Typical 110 VDC, working range 77 to 137.5 VDC Typical 24 to 110 VDC, working range 16.8 to 137.5 VDC, S3 20ms hold up time
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	-40°C to +70°C (-40°F to +158°F)
Relative Humidity	10% to 95% @ +40°C, non-condensing
Certifications	CE, EN 50155, EN 45545-2

* 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

▲ Touch without keypad version

Ordering Information

24 VDC 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

110 VDC 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

24 to 110 VDC Power Input

GOT712-837-R-E3845-24-110VDC (P/N: E22B712102)	12" XGA railway fanless touch panel computer with Intel® Atom® E3845, sunlight readable LCD (800 nits), 5-wire resistive touchscreen and 24 to 110 VDC power input, S3 20ms power interruption protection

*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

Dimensions

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 of 500 nits
- Supports VGA, DVI-D and HDMI
- 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
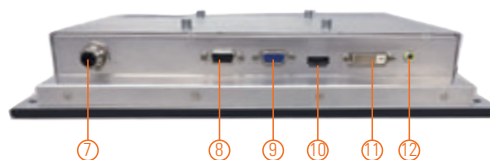
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1. Menu
2. SEL+
3. SEL-
4. Exit
5. Power LED
6. Power switch

▲ 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.

500 nits High Brightness 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	

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 compliant

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

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 of 800nits
- Supports VGA, DVI-D and HDMI
- Light sensor for auto-dimming
- 24 to 110 VDC power input
- -25°C to +55°C wide temperature range
- Supports 5 OSD keys in the front panel
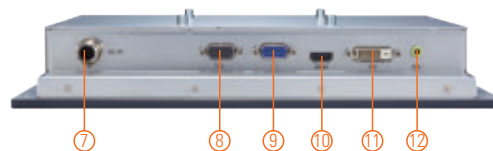
1. Menu
2. SEL+
3. SEL-
4. Exit
5. Power LED
6. Power switch

▲ 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   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.

800 nits High Brightness 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	

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 compliant

Packing List

1 x P6125 unit
1 x VGA cable
1 x RS-232 cable (for resisitve touch)

Ordering Information

P6125PR	12.1" XGA LCD railway touchscreen monitor with 24 to 110
(P/N: E226125100)	VDC power input

*Specifications and certifications may vary based on different requirements.

Optional Accessories

5946L203800E	HDMI cable
59461713400E	DVI cable

▲ Raer view

Dimensions

P718W

NEW

18.5″ Full HD TFT LCD Railway Monitor for Passenger Information System
(-25°C to +55°C)

Features

- EN 50155, EN 45545 certified
- IP42-rated front bezel design
- 18.5" Full HD TFT LCD with high brightness of 500 nits
- Supports HDMI, DVI-D and VGA
- 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
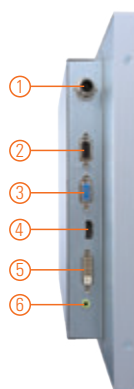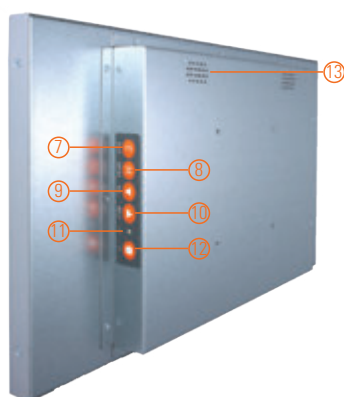
1. DC power input	7. Exit	13. Speaker
2. 1 x RS-232 (touch & remote control)	8. Menu	
3. 1 x VGA	9. Select -	
4. 1 x HDMI	10. Select +	
5. 1 x DVI-D	11. Power LED	
6. 1 x Line-in	12. Power switch	

EN50155   Ext. Temp   EN45545-2

Introduction

The P718W is an 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 P718W is proper for Passenger Information System (PIS) in railway environments.

Wide Temperature (-25°C to +55°C) & Wide DC Power Input
The P718W 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.

500 nits High Brightness with Wide Viewing Angle
The railway grade P718W 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	

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

Packing List

1 x P718W unit
1 x VGA cable

Ordering Information

P718W	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

Dimensions
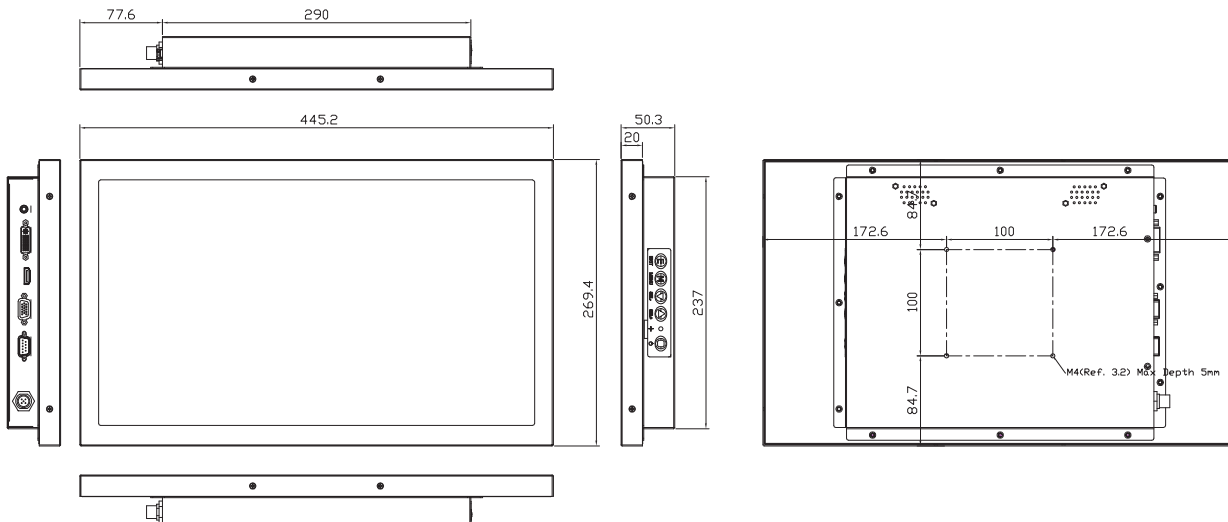
Fanless Touch Panel Computers

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

Modular Panel PCs

Self-service Kiosk

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.

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: Windows® 7, Windows® 8.1, Windows® 10 Kaby Lake: Windows® 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

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

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

5

Industrial Touch Panel Computers

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 in front panel

1. Display status LED
2. SATA status LED
3. Brightness -
4. Brightness +
5. Display monitor ON/OFF
6. Volume -
7. Volume +

▲ Side view

▲ Back view

1. 1 x Line-out	6. 1 x Mic-in	11. 1 x HDMI
2. 2 x USB 2.0	7. 1 x RS-232/422/485 & 1 x RS-232	12. Switch for power on/off
3. 2 x LAN	8. 4 x USB 3.0	13. Remote switch button
4. 2 x RS-232	9. 1 x VGA	14. AC plug
5. PCI or PCIe x4 Card expansion slot	10. 1 x DisplayPort	

DualView DDR4 IP65

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.

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 Panel mount kit
1 x US power cord
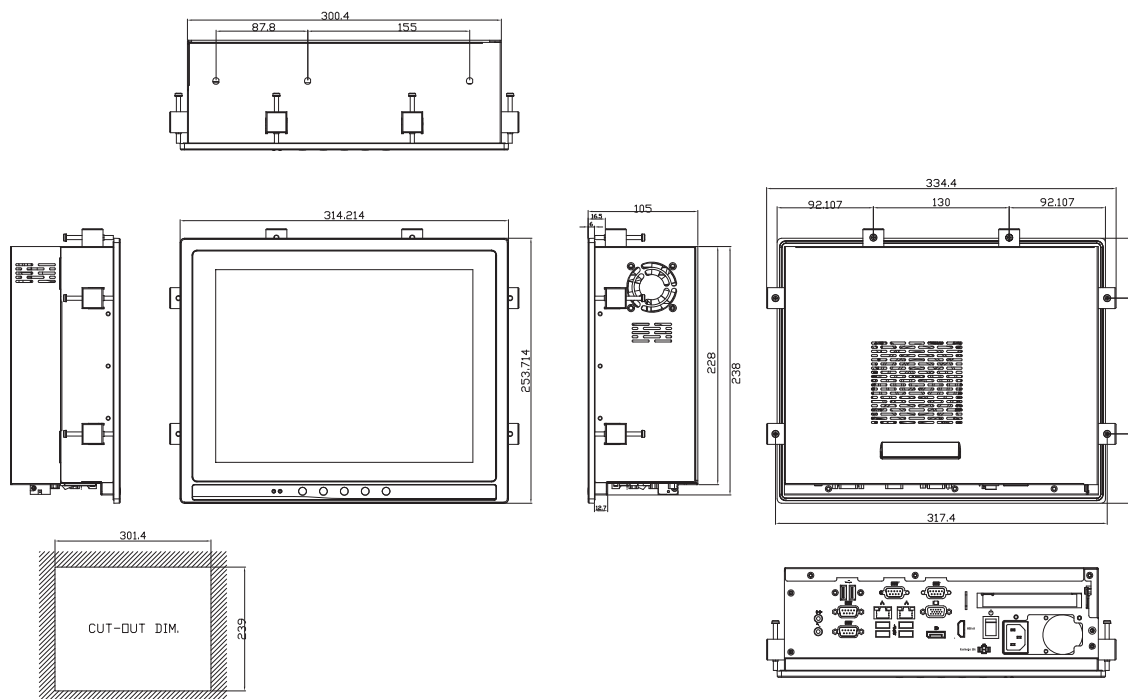
Ordering Information

P1127E-500 with PCIe (P/N: E221127109)	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 (P/N: E221127107)	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

* Other configuration by request
* Specification and certifications may vary based on different requirements

Optional Accessories

Wi-Fi kit	
881211270A0E	VESA & wall mount kit
E981604011	ATC10 (VESA arm clamp type)
E981604012	ATW10 (VESA arm wall mount)
E226171119	Stand kit
59403200B00E	Remote power switch cable (100 cm)

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

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

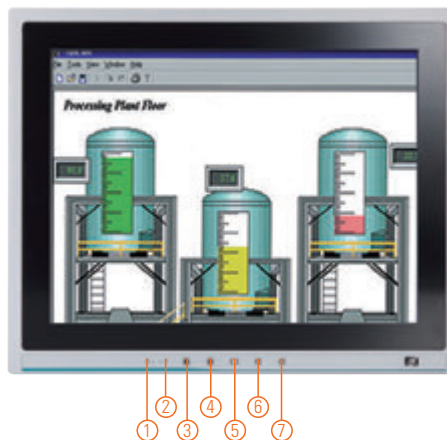- 15" XGA TFT LCD display
- LGA1151 socket 7th/6th gen Intel® Core™ i7/i5/i3, Celeron® & Pentium® processors
- Intel® H110 chipset
- Less screw design for easy installation
- 4 USB 3.0, 2 USB 2.0 and 4 COM
- One PCIe x4 or one PCIe slot
- Built-in speakers and optional Wi-Fi 802.11 b/g/n module
- Robust IP65 compliant aluminum front bezel
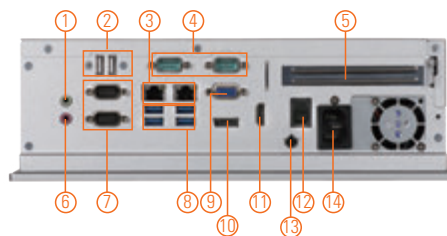- Supports 5 OSD keys in front panel

1. Display status LED
2. SATA status LED
3. Brightness -
4. Brightness +
5. Display monitor ON/OFF
6. Volume -
7. Volume +

▲ Side view

▲ Back view

1. 1 x Line-out	7. 1 x Mic-in	13. 1 x HDMI
2. 1 x RS-232	8. 1 x RS-232/422/485	14. 2 x USB 2.0
3. 2 x LAN	9. 1 x RS-232	15. Remote power switch
4. 1 x RS-232	10. 4 x USB 3.0	16. Switch for power on/off
5. PCI or PCIe x4 expansion slot	11. 1 x VGA	
6. AC plug	12. 1 x DisplayPort	

DualView | DDR4 | IP65

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.

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 Panel mount kit
1 x US power cord

Ordering Information

P1157E-500 w/PCIe (P/N: E221157114)	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 (P/N: E221157112)	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 (P/N: E221157121)	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 (P/N: E221157119)	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

* Other configuration by request
* Specification and certifications may vary based on different requirements

Optional Accessories

Wi-Fi kit	
P1157E-500 2.5" slim HDD kit	
881211572A0E	P1157E-500 rack mount kit
881211575A0E	VESA & wall mount kit
E981604011	ATC10 (VESA arm clamp type)
E981604012	ATW10 (VESA arm wall mount)
E226171119	Stand kit
59403200B00E	Remote power switch cable (100 cm)

Optional OS Installation

Skylake: Windows® 7 Windows® 8.1 Windows® 10	
Kaby Lake: Windows® 10	

Dimensions

367

378.3

310.3

6.2

288
298

6
90
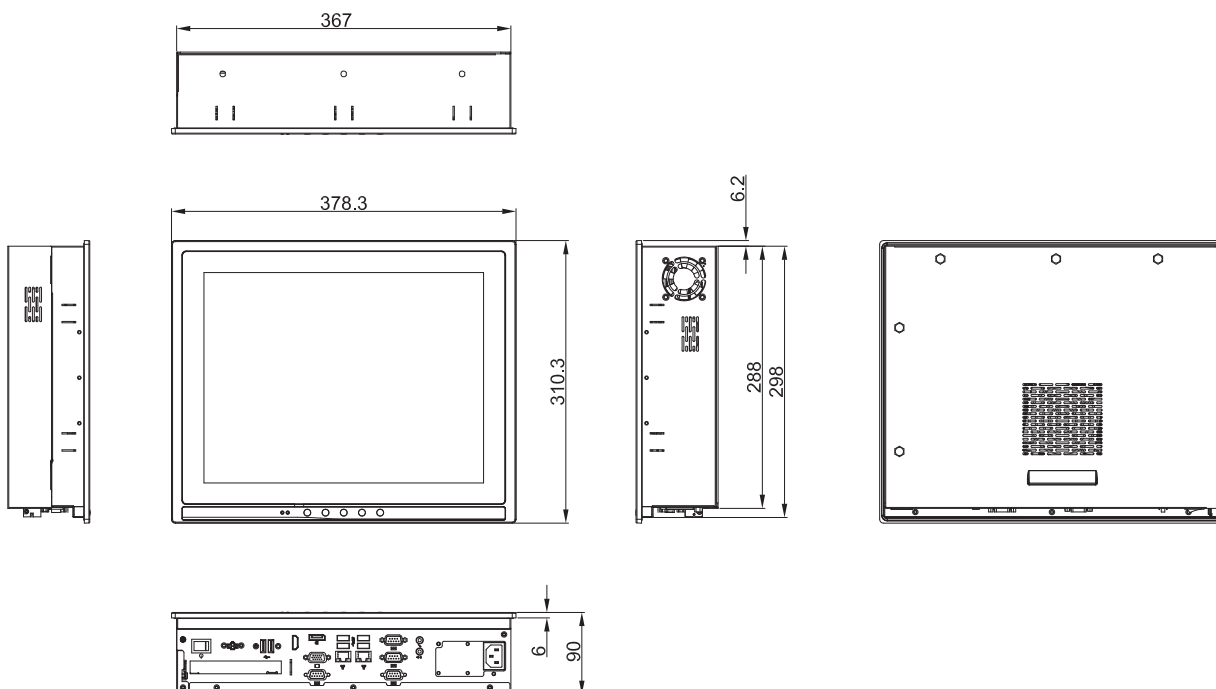
P1177E-500

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 in front panel

1. Display status LED
2. SATA status LED
3. Brightness -
4. Brightness +
5. Display monitor ON/OFF
6. Volume -
7. Volume +

▲ Side view

▲ Back view

1. 1 x Line-out	7. PCI or PCIe x4 Card expansion slot	13. 2 x USB 3.0
2. 1 x RS-232	8. AC plug	14. 1 x VGA
3. 1 x LAN	9. 1 x Mic-in	15. 1 x DisplayPort
4. 1 x RS-232	10. 1 x RS-232	16. 1 x HDMI
5. 1 x LAN	11. 1 x RS-232/422/485	17. Remote switch button
6. 2 x USB 2.0	12. 2 x USB 3.0	18. Switch for power on/off

DualView | **DDR4** | **IP65**

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.
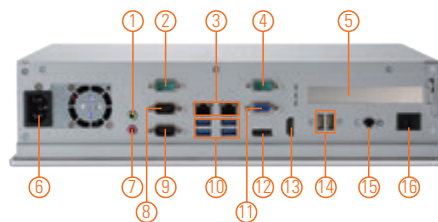
Speaker and WLAN Antenna Supported
The P1177E-500 is equipped with built-in speakers for multimedia applications. It also supports WLAN module antenna (optional) for wireless network connectivity.

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.

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 Panel mount kit
1 x US power cord
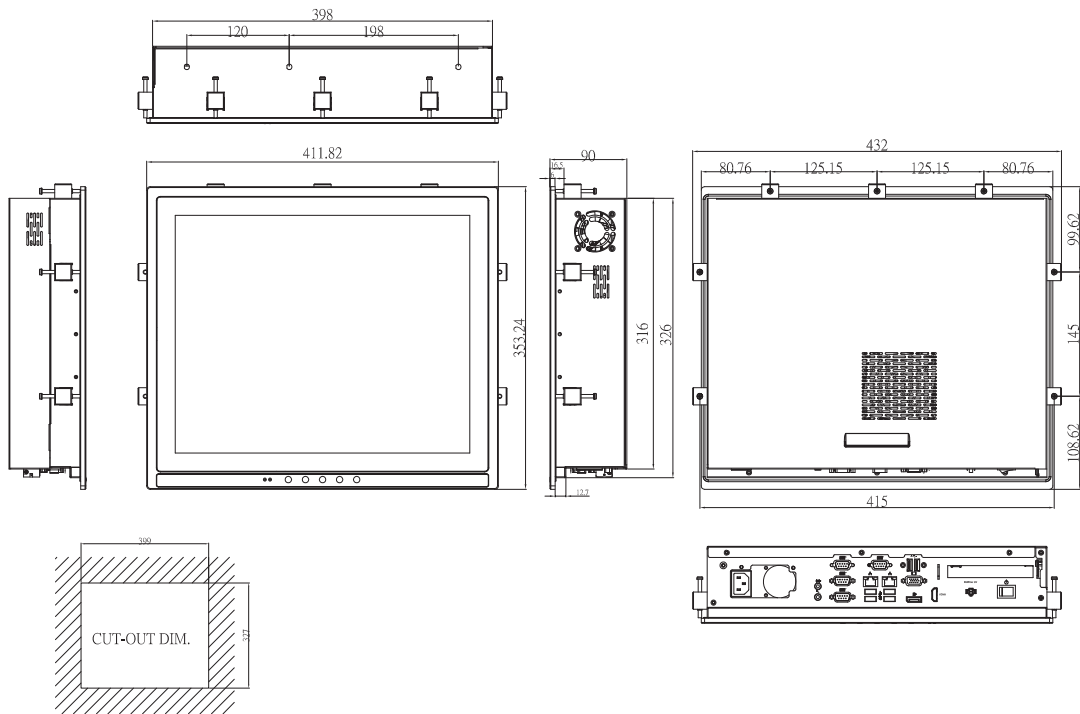
Ordering Information

P1177E-500 with PCIe (P/N: E221177114)	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 (P/N: E221177112)	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

* Other configuration by request
* Specification and certifications may vary based on different requirements

Optional Accessories

Wi-Fi kit	
P1157E-500 2.5" slim HDD kit supports 15"/17" touch panel PC	
881211772A0E	VESA & wall mount kit
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)
881211773A0E	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

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
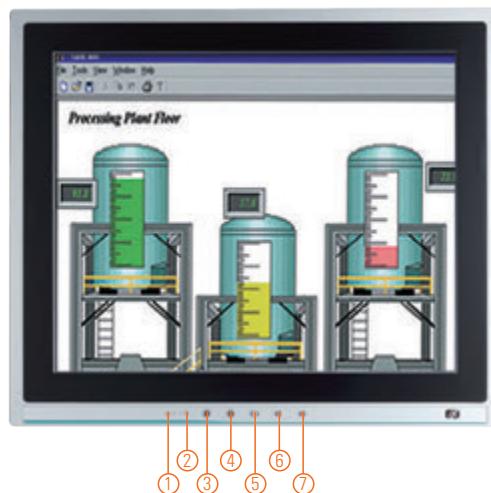
Features

- 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

Front USB ports

▲ 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
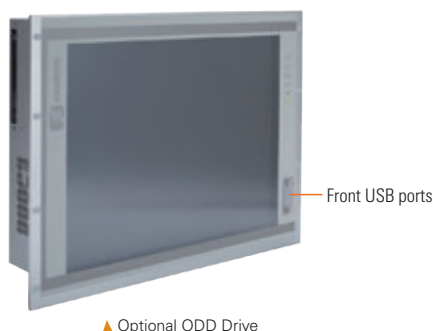
Introduction

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.
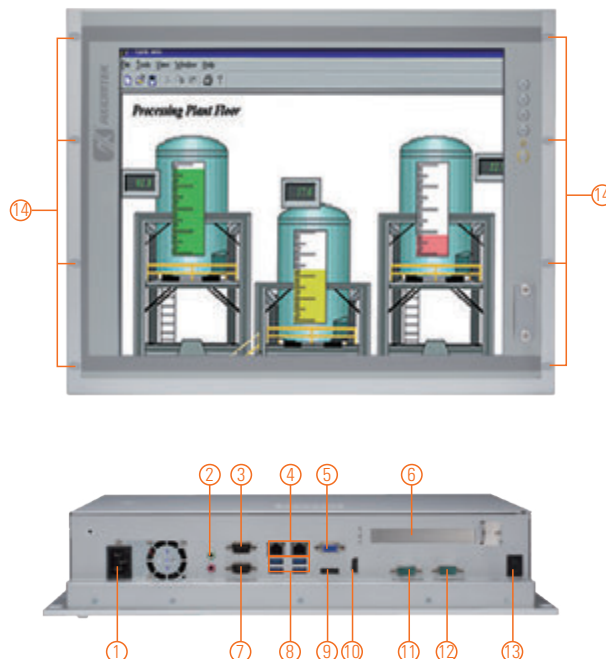
Specifications

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.

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 Panel mount kit
1 x US power cord
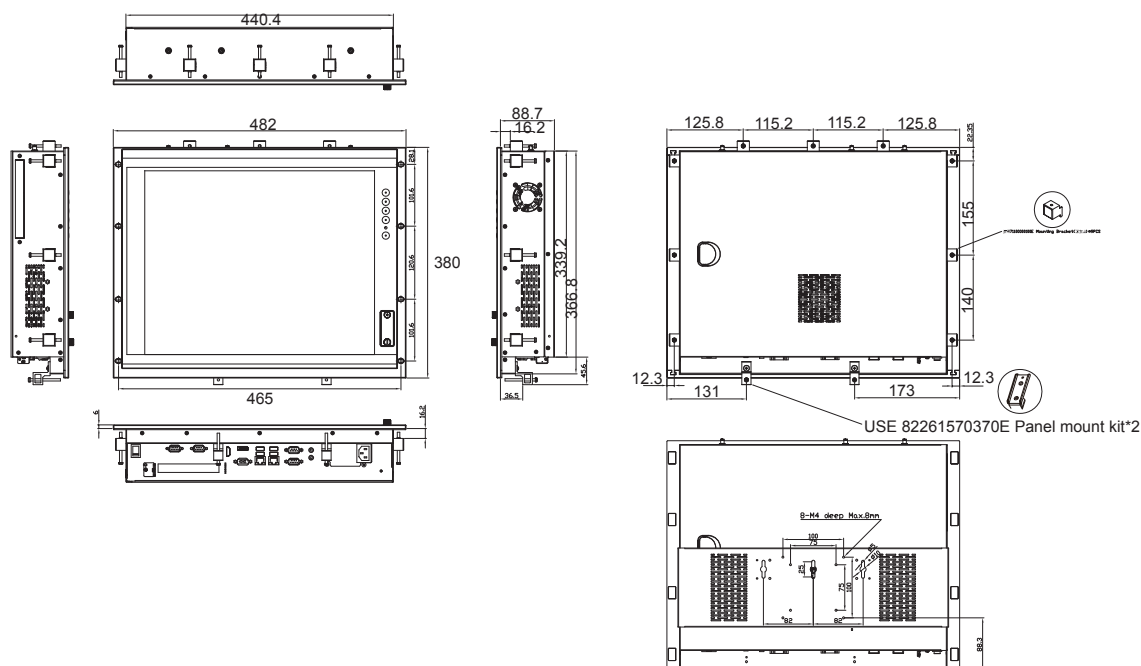
Ordering Information

P1197E-500 with PCIe (P/N: E221197104)	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 (P/N: E221197105)	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

* Other configuration by request
* Specification and certifications may vary based on different requirements

Optional Accessories

Wi-Fi kit	
881211970A0E	VESA & wall mount kit
E981604011	ATC10 (VESA arm clamp type)
E981604012	ATW10 (VESA arm wall mount)
E221177116	Stand kit

Optional EOS Installation

Windows® 10 IoT Enterprise

Optional OS Installation

Windows® 10

▲ Less screw design

Dimensions

440.4
482
465
380
88.7
16.2
339.2
366.8
125.8　115.2　115.2　125.8
155
140
12.3　131　　　　173　12.3
USE 82261570370E Panel mount kit*2
8-M4 deep Max.8mm

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.

Industrial
Panel PCs

Industrial Touch Monitors

Selection Guide

Features\Models	P6157W-V2	P6187W-V2	P6217W
Front Bezel	Flat, NEMA 4/12 (IP65)-compliant	Flat, NEMA 4/12 (IP65)-compliant	Flat, NEMA 4/12 (IP65)-compliant
Display Type	15.6" WXGA TFT	18.5" WXGA TFT	21.5" FHD TFT
Max. Colors	16.7M	16.7M	16.7M
Active Area (mm)	344.232 x 193.536	409.8 x 230.4	476.64 x 268.11
Max. Resolution	1366 x 768	1366 x 768	1920 x 1080
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 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)	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)	0.252 x 0.252	0.3 x 0.3	0.24 x 0.24
Backlight	LED	LED	LED
Backlight MTBF (hrs)	50,000	50,000	50,000
Viewing Angle (H/V)	170°/160°	170°/160°	178°/178°
Response Time	8ms	5ms	18ms
Contrast Ratio	500 (TYP)	1000 (TYP)	3000 (TYP)
Brightness (cd/m^2)	400 nits	450 nits	250 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	Projective capacitive multi-touch or 5-wire resistive touch	Capacitive multi-touch	Capacitive type 10-point projected capacitive multi-touch
Power Consumption	19W	20W	26W
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")	460 x 57 x 285 mm (18.11" x 2.44" x 11.22")	547.59 x 53 x 339.05 mm (21.56" x 2.09" x 13.34")
Weight (net/gross)	4.5 kg (9.92 lb)/6.5 kg (14.33 lb)	6.0 kg (12.22 lb)/7.35 kg (16.20 lb)	6.42 kg (14.15 lb)/7.78 kg (17.15 lb)
Operating Temperature	0°C to +55°C (+32°F to +131°F)	0°C to +55°C (+32°F to +131°F)	0°C to +45°C (+32°F to +113°F)
Mounting	Panel mount/wall mount/VESA mount	Panel mount/wall mount/VESA arm	Panel mount/wall mount/VESA arm
Certifications	CE	CE	CE

6
Industrial
Touch
Monitors

P6157W-V2

15.6" WXGA TFT Widescreen Industrial LCD Monitor

Features

- 15.6" WXGA TFT 400 nits LCD with projective capacitive multi-touch or resistive 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

Speaker
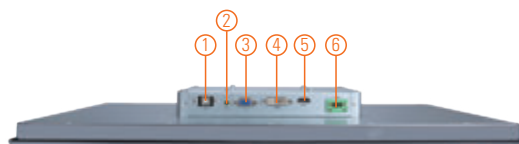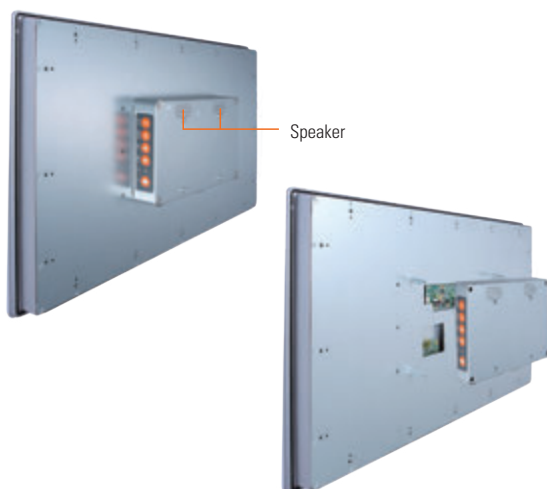
1. USB for touch
2. Audio (Line in)
3. VGA
4. DVI-D
5. HDMI
6. Power input Terminal block or Screw type

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-D Touchscreen: USB interface	

Specifications

I/O Connectors	1 x USB for touch 1 x Audio (Line-in) 1 x VGA 1 x DVI-D 1 x HDMI 1 x DVI 1 x Power input with Terminal block(DC Version) or Screw type connector(AC version)
Audio	2 x Speaker
Power Supply	DC version: 24VDC AC version: 100 - 240VAC-DC, 36W power adapter
Power Consumption	19W
Touchscreen	Projective capacitive multi-touch or 5-wire resistive touch
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 +122°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 (for resistive/capacitive touch screen only)
1 x Audio cable
1 x Adapter (AC version only)
1 x Power cord (AC version only)
1 x 3-PIN Terminal block (DC version only)

Ordering Information

P6157W-V2

P6157WPR-AC-U-US-V2 (P/N: E226157126)	15.6" Industrial Resistive Touch Screen, AC Version
P6157WPC-AC-U-US-EU-V2 (P/N: E226157119)	15.6" Industrial Monitor with Capacitive Touch Screen, AC Version
P6157WPR-24VDC-U-V2 (P/N: E226157125)	15.6" Industrial Monitor with Resistive Touch Screen, 24VDC Version
P6157WPC-24VDC-U-V2 (P/N: E226157121)	15.6" Industrial Monitor with Capacitive Touch Screen, 24VDC Version

* Other configuration by request
* Specification and certifications may vary based on different requirements

Optional Accessories

5946L203800E	HDMI cable
59461713400E	DVI-D cable
881261570A0E	Panel mount kit
881231770A0E	Wall mount kit
E221177116	Desktop stand for 15.6" to 21.5"

Dimensions

Phoenix plug for DC version   Din-Jack for AC version

Use 82261570370E
P6157W_PANEL_MOUNT(Molding)*9PCS

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P6187W-V2

18.5" WXGA TFT Widescreen Industrial LCD Monitor

Features

- 18.5" WXGA TFT 450 nits LCD with projected capacitive touch or resistive 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

Speaker
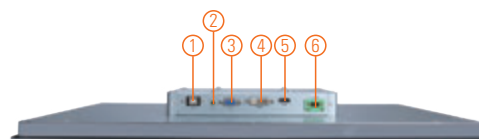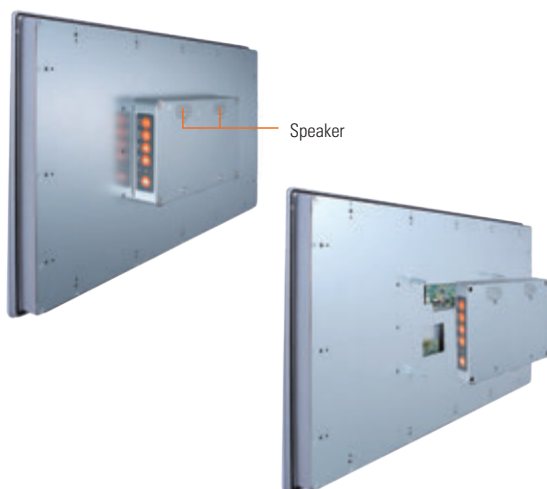
1. USB for touch
2. Audio (Line in)
3. VGA
4. DVI-D
5. HDMI
6. Power input Terminal block or Screw type

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	

Specifications

I/O Connectors	1 x RS-232 or USB for touchscreen version 1 x Audio (Line-in) 1 x VGA 1 x DVI-D 1 x HDMI 1 x DVI 1 x Power input with Terminal block(DC Version) or Screw type connector(AC version)
Audio	2 x Speaker
Power Adapter	Screw-type external AC/DC power adapter
Power Consumption	16W
Touchscreen	Projected capacitive multi-touch 5-wire flat resistive touch
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 +50°C (+32°F to +122°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 (for resistive touch/capacitive touch version only)
1 x Audio cable
1 x Adapter (AC version only)
1 x Power cord (AC version only)
1 x 3-pin Terminal block (DC version only)

Ordering Information

P6187W-V2

P6187WPC-AC-U-US-EU-V2 (P/N: E226187104)	18.5" Industrial Monitor with Capacitive Touch Screen, AC Version
P6187WPC-24VDC-U-V2 (P/N: E226187106)	18.5" Industrial Monitor with Capacitive Touch Screen, 24VDC Version
P6187WPG-24VDC-V2 (P/N: E226187107)	18.5" Industrial Monitor without touch, 24VDC Version
P6187WPR-AC-U-US-EU-V2 (P/N: E226187110)	18.5" Industrial Monitor with Resistive Touch Screen, AC Version
P6187WPR-24VDC-U-V2 (P/N: E226187109)	18.5" Industrial Monitor with Resistive Touch Screen, 24VDC Version

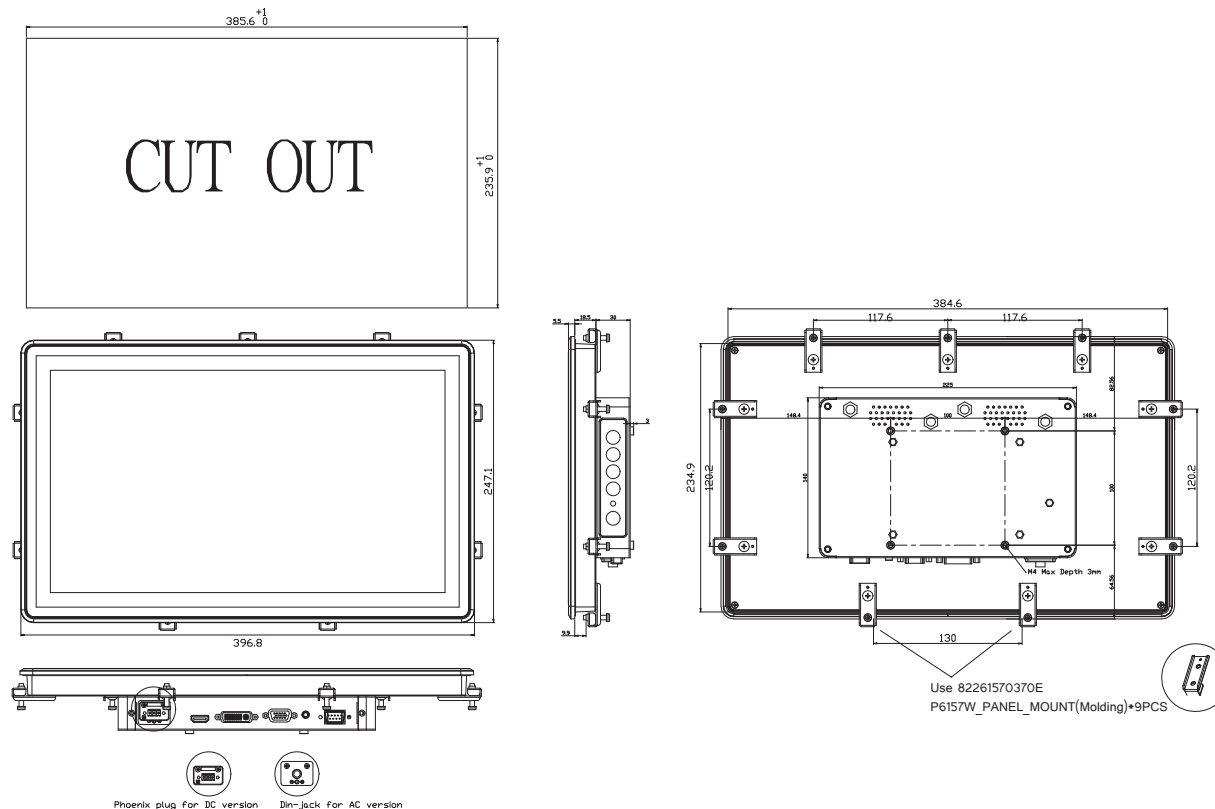* Other configuration by request

* Specification and certifications may vary based on different requirements

Optional Accessories

5946L203800E	HDMI cable
59461713400E	DVI-D cable
881261870A0E	Panel mount kit
881231770A0E	Wall mount kit
E221177116	Desktop stand for 15.6" to 21.5"

Dimensions

CUT OUT

Use 82261570370E
P6157W_PANEL_MOUNT(Molding)✦12PCS

Phoenix plug for DC version   Din-Jack for AC version

P6217W

21.5" FHD TFT Widescreen Industrial LCD Monitor

Features

- 21.5" FHD TFT 250 nits with projective capacitive multi-touch or resistive 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 12V/24V DC-in (optional)
- VGA, HDMI and DVI with multi-signal inputs

Speaker
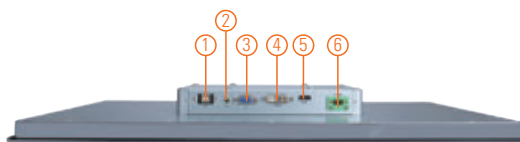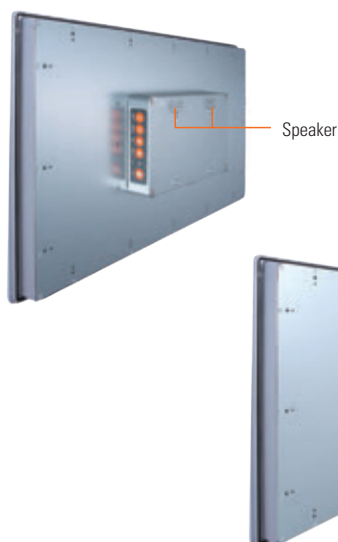
1. RS232 or USB for touch
2. Audio (Line in)
3. VGA
4. DVI-D

5. HDMI
6. Power input Terminal block or Screw type

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	

Specifications

I/O Connectors	1 x RS-232 or USB for touchscreen version 1 x Audio (Line-in) 1 x VGA 1 x DVI-D 1 x HDMI 1 x DVI 1 x Power input with Terminal block(DC Version) or Screw type connector(AC version)
Audio	2 x Speaker
Power Supply	DC version: 24VDC AC version: 100 - 240VAC-DC, 36W power adapter
Power Consumption	26W
Touchscreen	Projective capacitive multi-touch or 5-wire resistive touch
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 (for resistive/capacitive touch screen only)
1 x Audio cable
1 x Adapter (AC Version only)
1 x Power cord (AC Version only)
1 x 3-PIN Terminal block (DC Version only)

Ordering Information

P6217W

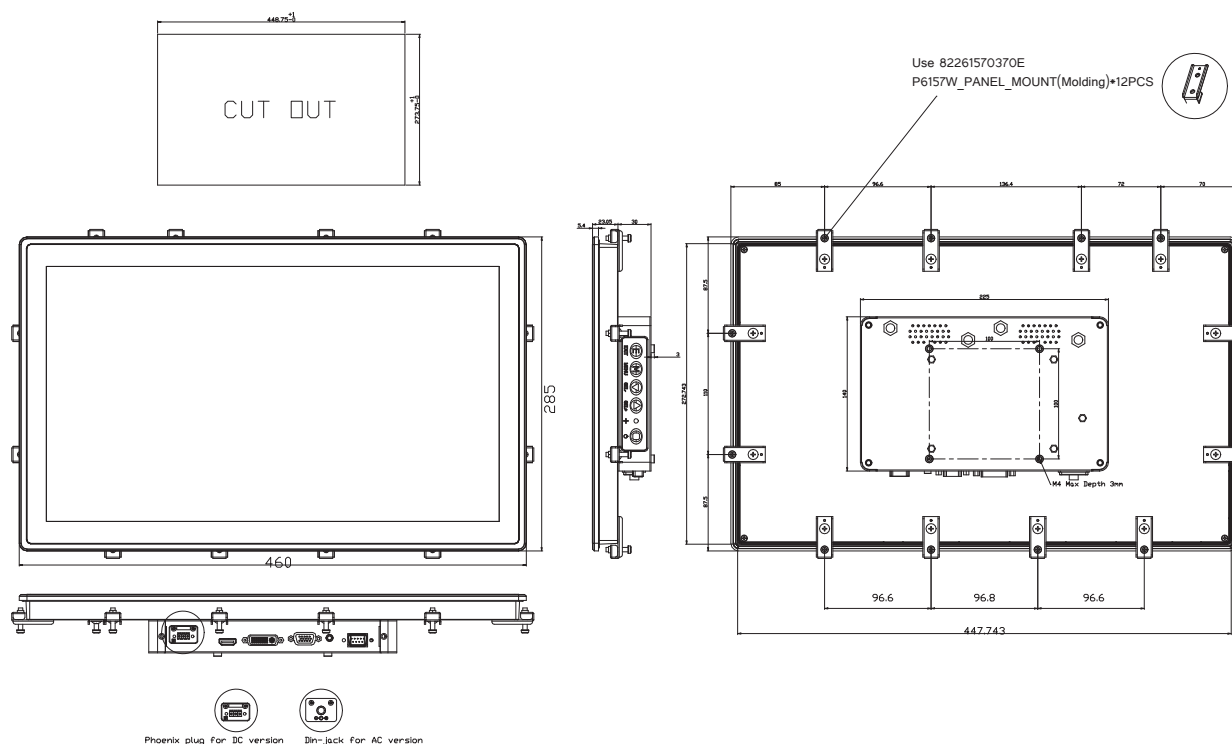| P6217WPC-AC-U-US-EU (P/N: E226217100)	21.5" Industrial Monitor with Capacitive Touch Screen, AC Version
P6217WPG-AC-US-EU (P/N: E226217101)	21.5" Industrial Monitor without Touch Screen, AC Version
P6217WPR-AC-U-US (P/N: E226217105)	21.5" Industrial Monitor with Resistive Touch Screen, AC Version
P6217WPC-24VDC-U (P/N: E226217102)	21.5" Industrial Monitor with Capacitive Touch Screen, 24VDC Version
P6217WPG-24VDC (P/N: E226217103)	21.5" Industrial Monitor without Touch Screen, 24VDC Version
P6217WPR-24VDC-U (P/N: E226217104)	21.5" Industrial Monitor with Resistive Touch Screen, 24VDC Version

* Other configuration by request
* Specification and certifications may vary based on different requirements

Optional Accessories

5946L203800E	HDMI cable
59461713400E	DVI-D cable
881262170A0E	Panel mount kit
881231770A0E	Wall mount kit
E221177116	Desktop stand for 15.6" to 21.5"

Dimensions

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

Modular Panel PCs

Self-service Kiosk
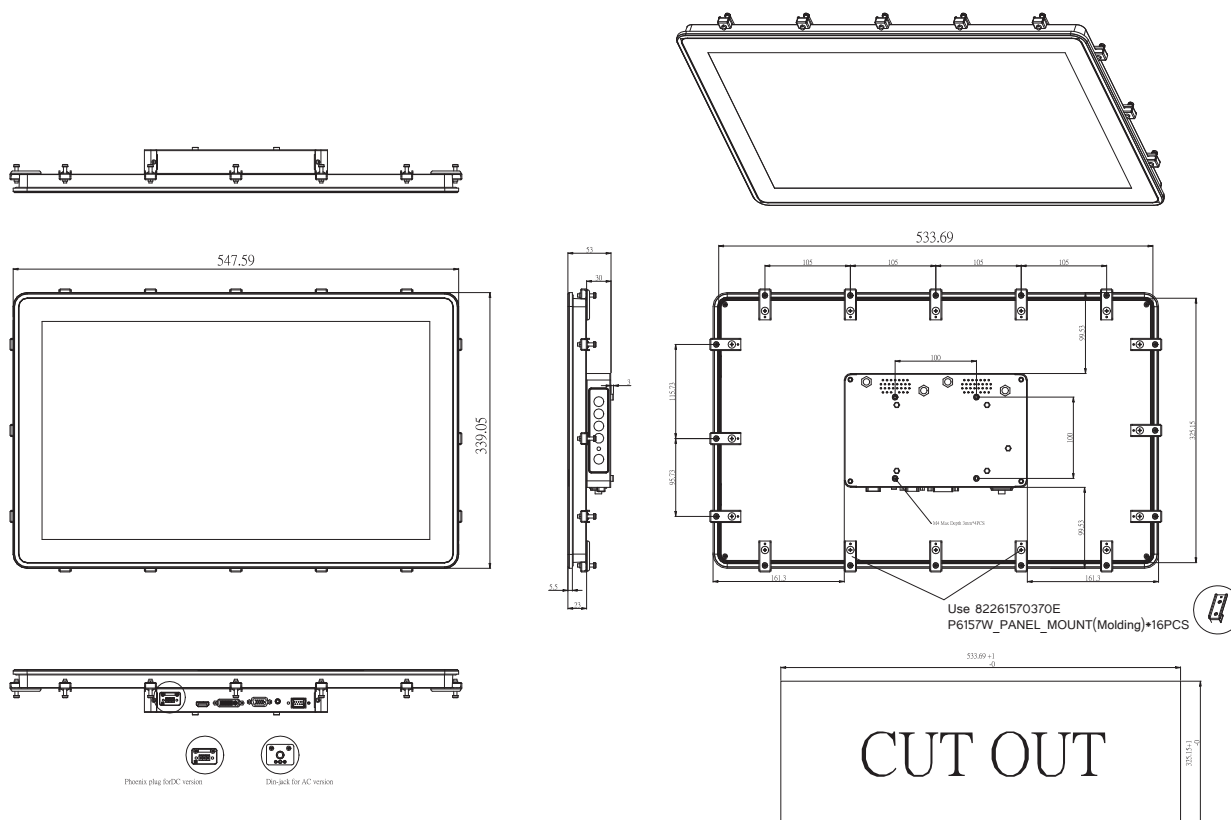
Industrial Panel PCs

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.

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	AC version: 100 to 240 VAC-DC, 65W power adapter DC version: 9 to 36 VDC with over current protection fuse	AC version: 100 to 240 VAC-DC, 65W power adapter DC version: 9 to 36 VDC with over current protection fuse	AC version: 100 to 240 VAC-DC, 65W power adapter DC version: 9 to 36 VDC with over current protection fuse
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	EN 60601-1 (ESD contact 8KV, air 15KV), CE and FCC	EN 60601-1 (ESD contact 8KV, air 15KV), CE and FCC	EN 60601-1 (ESD contact 8KV, air 15KV), CE and FCC

Features\Models	MPC153-834
CPU Level	Intel® Celeron® J1900 (up to 2.42 GHz)
Chipset	SoC integrated
System Memory	1 x 204-pin DDR3L-1066/1333 SO-DIMM, up to 8GB
Display	15.6" WXGA TFT, 300 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)
Storage	1 x Half-slim SSD 1 x CFast™ or mSATA
DVD-RW	N/A
Expansion Interface	2 x PCI Express Mini Card slot
Touchscreen	5-wire flat resistive type
Power Supply	AC version: 100 to 240 VAC-DC, 65W power adapter DC version: 9 to 36 VDC with over current protection fuse
Watchdog Timer	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")
Weight (net/gross)	3.0 kg (6.61 lb)/5.2 kg (11.46 lb)
Operating Temperature	0°C to +40°C (+32°F to +104°F)
Certifications	CE, EN 60601-1, FCC classB

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 adujst
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

Fanless | Low Power | DDR3L | AiRD | IP65

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

Updated May. 12, 2020.   * All specifications and photos are subject to change without notice.   www.axiomtek.com

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	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 +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 Adapter (MPC103-845-J)
1 x Power cord (MPC103-845-J)
1 x Phoenix connector (MPC103-845 DC)

Ordering Information

Standard

MPC103-845-J (P/N: E228103100)	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 (P/N: E228103101)	10.1" WXGA fanless medical touch panel computer with Intel® Celeron® processor N3060, projected capacitive touch screen and DC power input (terminal block connector)

* Other configuration by request
* Specification and certifications may vary based on different requirements

Optional Accessories

Wi-Fi + Bluetooth kit	
GOT5103W-845 half slim SSD kit SFP for GOT5103W-845-PCT-J	
881251030A0E	Panel mount kit
8812B1070A0E	Wall mount kit
881251203A0E	RFID kit
E226171119	Stand Kit

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

260.8
194.1
12 26
38

240
146
PANEL MOUNT
BEZEL CUT OUT DIM.
BEZEL thickness <1.2 mm

85.4   75
34.2
75
M4 Max.Deep 4mm
95   75   95
67.4
92.9

* All specifications and photos are subject to change without notice.
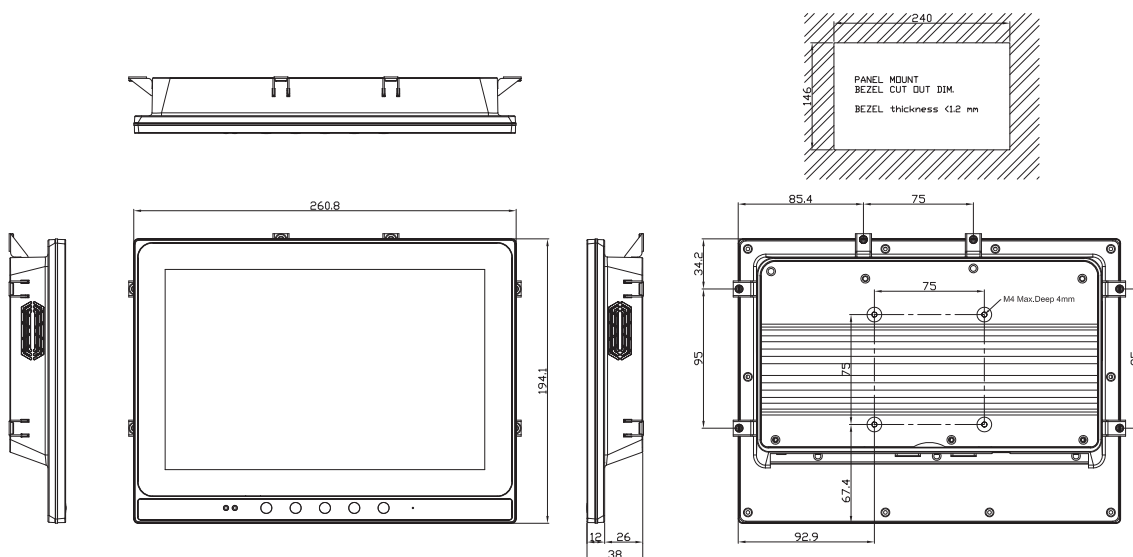
MPC102-845

10.4" XGA TFT Fanless Medical Grade Touch Panel Computer with Intel® Celeron® Processor N3060
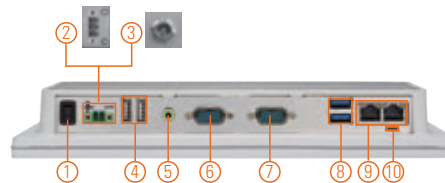
Features

- 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
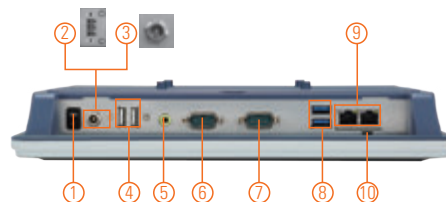
1. Power switch (ATX)
2. Terminal block for DC power input
3. Screw connector with AC power adapter
4. 2 x USB 2.0
5. Audio (Line-out)
6. 1 x RS-232/422/485
7. 1 x RS-232
8. 2 x USB 3.0
9. 2 x LAN
10. AT/ATX selectable switch
11. Touch on/off button

| Fanless | Low Power | DDR3L | AiRD | IP65 |

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

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 Adapter (MPC102-845-J)
1 x Power cord (MPC102-845-J)
1 x Phoenix connector (MPC102-845 DC)

Ordering Information

Standard

MPC102-845-DC (P/N: E228102104)	10.4" XGA fanless medical touch panel computer with Intel® Celeron® processor N3060, 5-wire resistive touch screen and DC power input (terminal block connector)
MPC102-845-J (P/N: E22810210)	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

* Other configuration by request
* Specification and certifications may vary based on different requirements

Optional Accessories

Wi-Fi + Bluetooth kit	
881281021A0E	Panel mount kit
881251001A0E	Wall mount kit
E226171119	Stand kit
881251203A0E	RFID kit

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
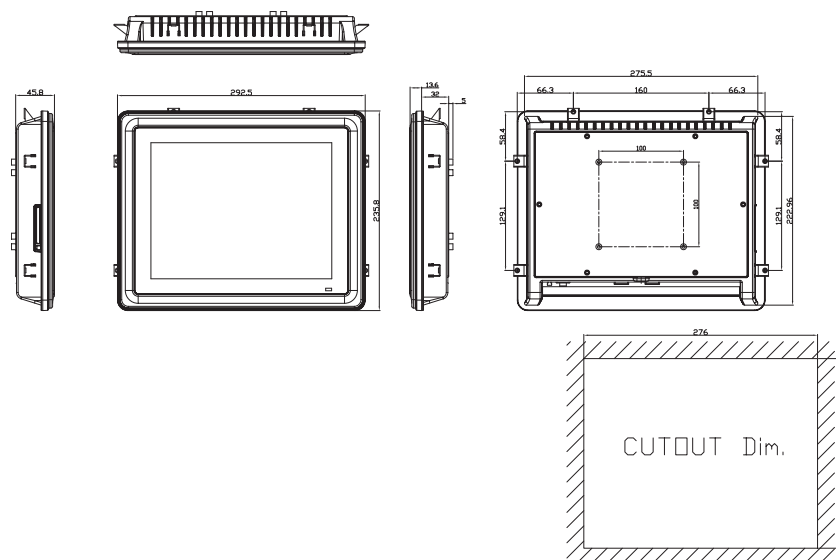
MPC152-845

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

| Fanless | Low Power | DDR3L | AiRD | IP65 |
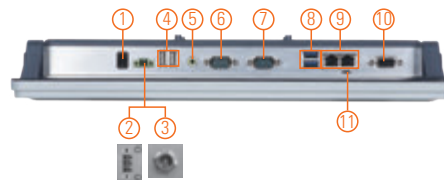
1. Power switch (ATX)
2. Terminal block for DC power input
3. Screw connector with AC power adapter
4. 2 x USB 2.0
5. 1 x Audio (Line-out)
6. 1 x RS-232/422/485
7. 1 x RS-232
8. 2 x USB 3.0
9. 2 x LAN
10. 8 x DIO (programmable, DB9)
11. AT/ATX selectable switch
12. Touch LED indicator
13. Touch on/off 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

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 Adapter (MPC152-845-J)
1 x Power cord (MPC152-845-J)
1 x Phoenix connector (MPC152-845 DC)

Ordering Information

Standard	
MPC152-845-J (P/N: E228152105)	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 (P/N: E228152106)	15" XGA fanless medical touch panel computer with Intel® Celeron® processor N3060, 5-wire resistive touch screen and DC power input (terminal block connector)

* Other configuration by request
* Specification and certifications may vary based on different requirements

Optional Accessories

Wi-Fi + Bluetooth kit	
881251520A0E	Panel mount kit
881251521A0E	Wall mount kit
E226171119	Stand kit
881251203A0E	RFID kit

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

54,6 387.9 307.7 19,5 35,1 371,4 100 144,0 100 86,9 295,1
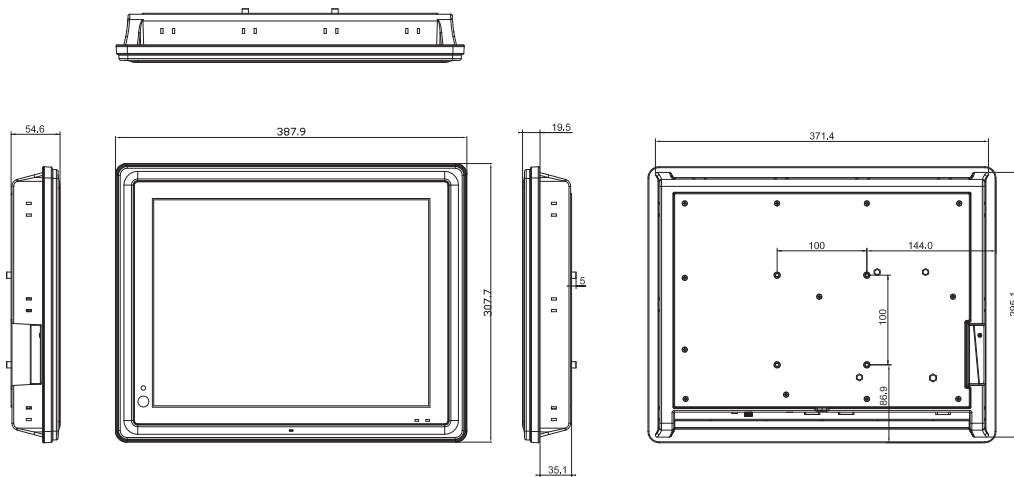
MPC153-834

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
- 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)
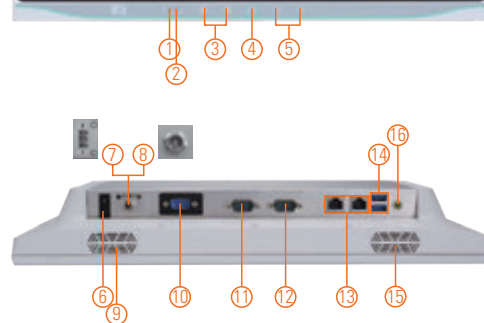
TAIWAN EXCELLENCE 2016

▲ Side view

Smart card reader cover ▲ Rear view CFast™ cover

1. Power LED	7. Terminal block for DC power input	12. 1 x RS-232/422/485
2. HDD LED	8. Screw connector with AC power adapter	13. 2 x LAN
3. Brightness adjust +/-	9. Speaker	14. 2 x USB 3.0
4. Display on/off	10. Isolated COM	15. Speaker
5. Volume adjust	11. 1 x RS-232/422/485	16. 1 x Audio (Line-out)
6. Power switch (ATX)		

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/m²)	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

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	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	508 mm (20.00") x 106 mm (4.17") x 383mm (15.08")
Weight (net/gross)	3.0 kg (6.61 lb)/5.2 kg (11.46 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 Adapter (MPC153-834-J)
1 x Power cord (MPC153-834-J)

Ordering Information

Standard

MPC153-834-FR-J (P/N: E228153102)	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

* Other configuration by request
* Specification and certifications may vary based on different requirements

Optional Accessories

Wi-Fi + Bluetooth kit
Smart card reader kit

Optional EOS Installation

WES7
WE8S

Optional OS Installation

Windows® 7
Windows® 8.1

Dimensions

Phoenix plug for DC version   Din-jack for AC version

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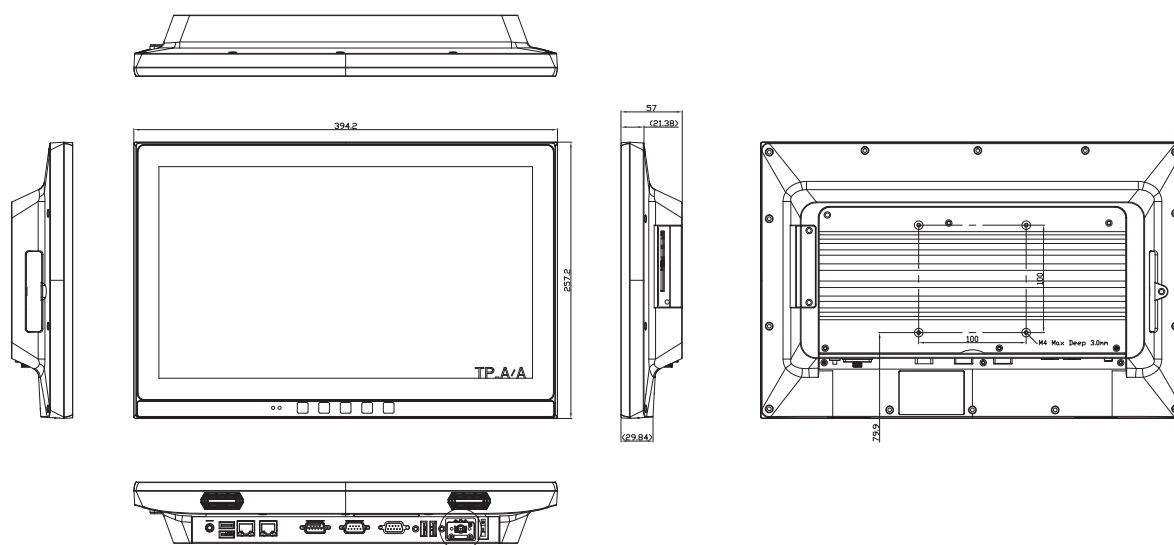
Modular Panel PCs

Axiomtek's ITC series of modular panel PCs with built-in the Intel® Smart Display Module (Intel® SDM) are designed to simplify installation, upgrade and maintenance. These modular PCs are ideal for light-weight applications including light industry, digital signage, POS/Kiosk, etc.

Industrial Panel PCs

Interactive Touch Computers

Selection Guide

NEW

NEW

Features\Models	ITC150WM	ITC210WM
SDM Module	SDM300S: Intel® SDM Small (SDM-S, 60 x 100 mm) SDM500L: Intel® SDM Large (SDM-L, 175 x 100 mm)	SDM300S: Intel® SDM Small (SDM-S, 60 x 100 mm) SDM500L: Intel® SDM Large (SDM-L, 175 x 100 mm)
CPU Level	SDM300S: Intel® Pentium® N4200 1.1GHz processor or Intel® Celeron® N3350 1.1GHz processor SDM500L: Intel® Celeron® 4305UE 2.0GHz processor or Intel® Core™ processor (optional)	SDM300S: Intel® Pentium® N4200 1.1GHz processor or Intel® Celeron® N3350 1.1GHz processor SDM500L: Intel® Celeron® 4305UE 2.0GHz processor or Intel® Core™ processor (optional)
Chipset	SoC Integrated	SoC Integrated
System Memory	SDM300S: Onboard LPDDR4 2400 MHz 4GB (8GB optional) SDM500L: 2 x 260-pin DDR4-2400 SO-DIMM slot, up to 64GB	SDM300S: Onboard LPDDR4 2400 MHz 4GB (8GB optional) SDM500L: 2 x 260-pin DDR4-2400 SO-DIMM slot, up to 64GB
Display	15.6" FHD TFT LCD 300 nits 16:9 radio 1920 x 1080 pixels	21.5" FHD TFT LCD 250 nits 16:9 radio 1920 x 1080 pixels
SDM-S I/O	1 x GbE LAN 2 x USB 3.0 Type A 2 x SMA antenna reserved hole	1 x GbE LAN 2 x USB 3.0 Type A 2 x SMA antenna reserved hole
SDM-L I/O	1 x Power button with LED 1 x GbE LAN 4 x USB 3.0 Type A 1 x Audio output 1 x Micphone input	1 x Power button with LED 1 x GbE LAN 4 x USB 3.0 Type A 1 x Audio output 1 x Micphone input
I/O	1 x HDMI 1 x USB 3.0 Type A 2 x USB 2.0 Type A 1 x microSD card slot (push-push type) 2 x 12 VDC-in barrel (screw-lock type) 1 x Power button with LED	1 x HDMI 1 x USB 3.0 Type A 2 x USB 2.0 Type A 1 x microSD card slot (push-push type) 2 x 12 VDC-in barrel (screw-lock type) 1 x Power button with LED
Storage	SDM300-S: 1 x eMMC 64GB onboard SDM500-L: 1 x M.2 Key M 2242 slot 1 x M.2 Key B 2280 slot	SDM300-S: 1 x eMMC 64GB onboard SDM500-L: 1 x M.2 Key M 2242 slot 1 x M.2 Key B 2280 slot
Expansion Interface	SDM300S:1 x M.2 Key E 2230 slot (for the Wi-Fi) SDM500L: 1 x M.2 Key E 2230 slot (for the Wi-Fi)	SDM300S:1 x M.2 Key E 2230 slot (for the Wi-Fi) SDM500L: 1 x M.2 Key E 2230 slot (for the Wi-Fi)
Touchscreen	Projected capacitive multi-touch	Projected capacitive multi-touch
Operating System	Windows® 10	Windows® 10
Power Supply	96W (12V/8A) AC to DC power adapter	96W (12V/8A) AC to DC power adapter
Power Consumption	Average 45W	Average 50W
Watchdog Timer	255 levels, 1 to 255 sec./min.	255 levels, 1 to 255 sec./min.
Dimensions (W x D x H)	386 x 40 x 241 mm (15.1" x 1.6" x 9.5")	531 x 48.5 x 317 mm (20.9" x 1.9" x 12.5")
Weight (net/gross)	3.2 kg (7.04lb)/5.4kg (11.9 lb)	7.5 kg (16.53 lb)/10.5kg (23.2 lb)
Operating Temperature	0°C to +40°C (+32°F to +104°F)	0°C to +40°C (+32°F to +104°F)
Certifications	CE, FCC Class A	CE, FCC Class A

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Modular
Panel PCs

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ITC150WM `NEW`

15.6" FHD TFTLCD Slim Bezel Modular Panel PC with Intel® Smart Display Module (SDM) CPU Card

Features

- 15.6" full HD TFTLCD
- Aspect ratio: 16:9; brightness: 300 nits
- Slim bezel shape under 40 mm thickness
- Projected capacity touch supported, 10-point touch
- Swappable Intel® SDM CPU card design
- Metal frame structure for various applications
- Supports add-on modules and mounting kits (optional)

Speakers

Power button
1 x USB 3.0 Type-A
2 x USB 2.0 Type-A
micro SD slot
12 VDC-in
(for portrait)

Pcap touch (10-point)

HDMI output

▲ SDM-S slot

▲ SDM-L slot

1. 2 x SMA antenna reserved hole	6. Mic-in/Line-out
2. 12 VDC-in	7. USB 3.0
3. LAN	8. LAN
4. 2 x USB 3.0 Type-A	9.12 VDC-in
5. 2 x SMA antenna reserved hole	
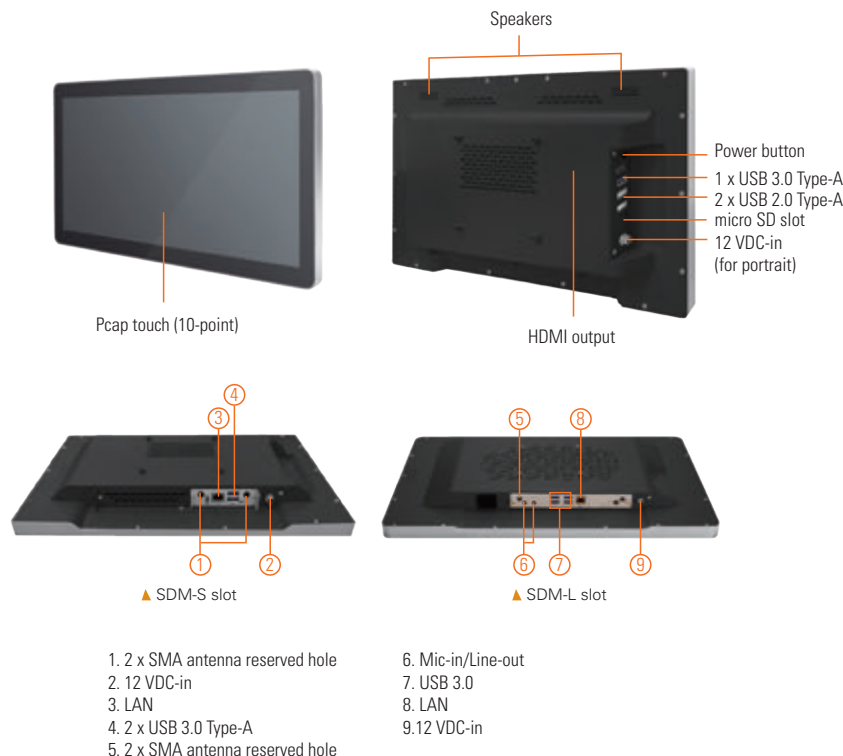
Specifications

Front Bezel	Metallic front bezel, IP54	
LCD Panel	Display Type	15.6" FHD TFT-LCD
	Brightness (cd/m^2)	300 nits
	Resolution	1920 (H) x 1080 (V)
	Aspect Ratio	16:9
Main System	Intel® SDM Small (SDM-S, 60 x 100 mm) Intel® SDM Large (SDM-L, 175 x 100 mm)	
I/O Connector (Depends on SDM I/O)	SDM500L	1 x Power button with L ED 1 x GbE LAN 4 x USB 3.0 Type A 1 x Audio output 1 x Microphone input 2 x SMA antenna reserved hole
	SDM300S	1 x GbE LAN 2 x USB 3.0 Type A 2 x SMA antenna reserved hole
Touchscreen	Projected capacitive multi-touch	
Stereo Speaker	2 x S.P.L. 96dB, 1.5W, 4 ohm	
Power Supply	84W (12V@7A) AC to DC power adapter	
Power Consumption	Average 45W	
Dimension	386 mm (15.1") (W) x 40 mm (1.6") (D) x 241 mm (9.5") (H)	
Packing Dimensions	380 mm (14.96") (W) x 100 mm (3.94") (D)x 280 mm (11.02") (H)	
Weight (net/gross)	1.15 kg (2.42 lb)/5.4kg (11.9 lb)	
Operating Temperature	0°C to +40°C (+32°F to +104°F)	
Operating Humidity	20% - 80%, non-condensing	
Certifications	CE, FCC Class A	

CPU Card Selection: SDM300-S

CPU	Quad-core Intel® Pentium® N4200 1.1GHz processor or Dual-core Intel® Celeron® N3350 1.1GHz processor		
System Memory	Onboard LPDDR4 2400 MHz 4GB (8GB optional)		
BIOS	AMI UEFI BIOS		
Storage	1 x eMMC 64GB onboard		
Watchdog Timer	255 levels, 0 to 255 sec.		
Onboard Graphics	Intel® HD Graphics 505/500 (depends on CPU card)		
I/O Connector	Rear Side	1 x GbE LAN 2 x USB 3.0 Type A 2 x SMA antenna reserved hole	
Expansion Interface	1 x M.2 Key E 2230 slot (for the Wi-Fi)		

CPU Card Selection: SDM500-L

CPU	Intel® Celeron® 4305UE 2.0GHz processor or Intel® Core™ processor (optional)		
System Memory	2 x 260-pin DDR4-2400 SO-DIMM slot, up to 64GB		
BIOS	AMI UEFI BIOS		
Storage	1 x M.2 Key M 2242 slot 1 x M.2 Key B 2280 slot		
Watchdog Timer	255 levels, 0 to 255 sec.		
Onboard Graphics	Intel® UHD Graphics 620/610 (depends on CPU card)		
I/O Connector	Rear Side	1 x Power button with L ED 1 x GbE LAN 4 x USB 3.0 Type A 1 x Audio output 1 x Micphone input
Expansion Interface	1 x M.2 Key E 2230 slot (for the Wi-Fi)		

Packing List

1 x ITC150WM with SDM module
1 x Adaptor

Ordering Information

Standard

ITC150WM-SDM300S-N4200 (P/N: E22T150102)	15.6 FHD with PCAP touch slim bezel panel with SDM300S Intel® Pentium® N4200 processor, onboard DDR4 4G & EMMC 64GB, 1 LAN, 3 USB 3.0, 2 USB 2.0, 2 Speaker, 2 DC Jack, onboard DDR4 4G & EMMC 64GB, 1 LAN, 3 USB 3.0, 2 USB 2.0, 2 Speaker, 2 DC Jack
ITC150WM- SDM500L-8265U (P/N: E22T150101)	15.6 FHD with PCAP touch slim bezel panel with SDM500L Intel® Core™ i5 8265U processor, 2 SO-DIMM, 2 M.2 SSD, 1 LAN, 5 USB 3.0, 2 USB 2.0, 2 Speaker, 1 Mic-in, 1 Line-out, 2 DC Jack *Other SDM module base on inquire

Optional Accessories

M.2 SSD M.2 2280-B-M 64~256GB (SDM500L)	
DDR4 SO-DIMM: 4GB~32GB	
822T1500050E	Mounting kit
8812T1500A0E	Wi-Fi kit
59903000000E	AC power cord EU, L=1830 mm
59902000000E	AC power cord US, L=1830 mm

Optional OS Installation

Windows® 10 full 64-bit
Windows® 10 IoT 64-bit

Dimensions

241.0
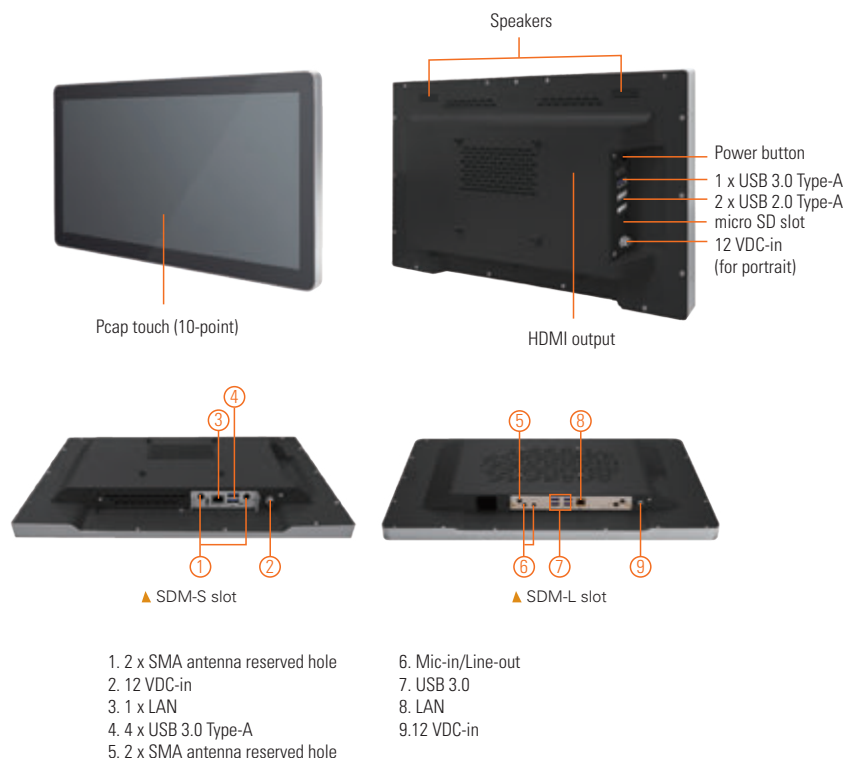
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Modular Panel PCs

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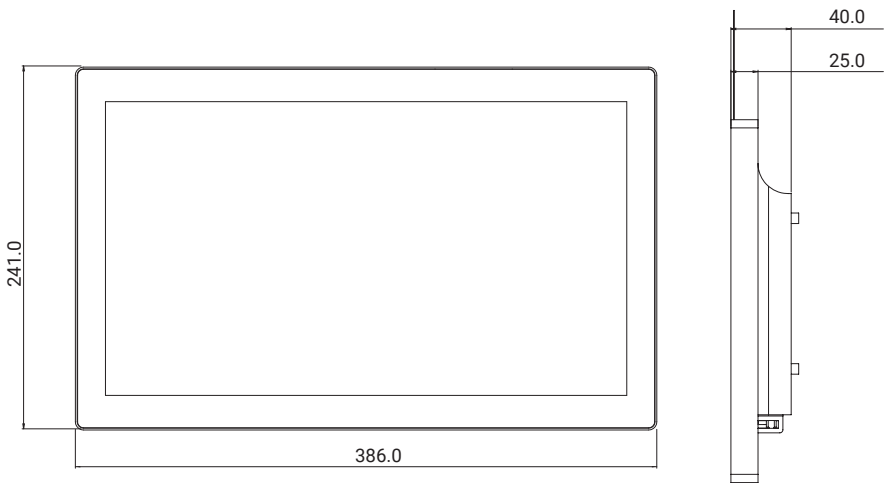
ITC210WM `NEW`

21.5" FHD TFTLCD Slim Bezel Modular Panel PC with Intel® Smart Display Module (SDM) CPU Card

Features

- 21.5" full HD TFTLCD
- Aspect ratio: 16:9; brightness: 250 nits
- Slim bezel shape under 48.5 mm thickness
- Projected capacity touch supported, 10-point touch
- Swappable Intel® SDM CPU card design
- Metal frame structure for various applications
- Supports add-on modules and mounting kits (optional)

Speakers

Pcap touch (10-point)

Power button
1 x USB 3.0 Type-A
2 x USB 2.0 Type-A
micro SD slot
12 VDC-in
(for portrait)

HDMI output

▲ SDM-S slot

▲ SDM-L slot

1. 2 x SMA antenna reserved hole	6. Mic-in/Line-out
2. 12 VDC-in	7. USB 3.0
3. 1 x LAN	8. LAN
4. 4 x USB 3.0 Type-A	9.12 VDC-in
5. 2 x SMA antenna reserved hole	

Specifications

Front Bezel	IP54, metallic front bezel	
LCD Panel	Display Type	21.5" FHD TFTLCD
	Brightness (cd/m^2)	250 nits
	Resolution	1920 (H) x 1080 (V)
	Aspect Ratio	16:9
Main System	Intel® SDM Small (SDM-S, 60 x 100 mm) Intel® SDM Large (SDM-L, 175 x 100 mm)	
I/O Connector	SDM500L	1 x Power button with LED 1 x GbE LAN 2 x USB 3.0 Type A 1 x Audio output 1 x Microphone input
	SDM300S	1 x GbE LAN 2 x USB 3.0 Type A 2 x SMA antenna reserved hole
Touchscreen	Projected capacitive multi-touch	
Stereo Speaker	2 x S.P.L. 96dB, 1.5W, 4 ohm	
Power Supply	84W (12V@7A)AC to DC power adapter	
Power Consumption	Average 50W	
Dimensions	531mm (20.9") (W) x 48.5 mm (1.9") (D) x 317mm (12.5") (H)	
Weight (net/gross)	2.2 kg (4.0 lb)/6.7kg (14 lb)	
Operating Temperature	0°C to +40°C (+32°F to +104°F)	
Operating Humidity	20% - 80%, non-condensing	
Certifications	CE, FCC Class A, and CB	

CPU Card Selection: SDM300-S

CPU	Quad-core Intel® Pentium® N4200 1.1GHz processor or Dual-core Intel® Celeron® N3350 1.1GHz processor (depends on CPU Card)	
System Memory	Onboard LPDDR4 2400 MHz 4GB (8GB optional)	
BIOS	AMI UEFI BIOS	
Storage	1 x eMMC 64GB onboard	
Watchdog Timer	255 levels, 0 to 255 sec.	
Onboard Graphics	Intel® HD Graphics 505/500 (depends on CPU card)	
I/O Connector	Rear Side	1 x GbE LAN 2 x USB 3.0 Type A 2 x SMA antenna reserved hole
Expansion Interface	1 x M.2 Key E 2230 slot (for the Wi-Fi/4G LTE)	

CPU Card Selection: SDM500-L

CPU	Quad-core Intel® i5-8365UE 1.6GHz processor or Dual-core Intel® Celeron® 4305UE 2.0GHz processor (depends on CPU card)	
System Memory	2 x 260-pin DDR4-2400 SO-DIMM slot, up to 64GB	
BIOS	AMI UEFI BIOS	
Storage	1 x M.2 Key B 2280 slot	
Watchdog Timer	255 levels, 0 to 255 sec.	
Onboard Graphics	Intel® UHD Graphics 620/610 (depends on CPU card)	
I/O Connector	Rear Side	1 x Power button with LED 1 x GbE LAN 2 x USB 3.0 Type A 1 x Audio output 1 x Microphone input
Expansion Interface	1 x M.2 Key E 2230 slot (for the Wi-Fi/4G LTE)	

Ordering Information

Optional OS Installation

Windows® 10 full 64-bit
Windows® 10 IoT 64-bit

Dimensions

48.5
22.0
330.0
523.0

Modular Panel PCs

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Self-service Kiosk

Axiomtek REGATA Kiosk with slim steel chassis provides a stylish solution for interactive kiosk applications, such as restaurant self-ordering, cinema self-ticketing, and hotel self-check-in. Designed with space-saving counter top type, the interactive kiosk has front-side I/O and recessed cable routing ensuring easy maintenance. Based on Intel® Smart Display Module (Intel® SDM), the high expandable REGATA Kiosk supports a wide variety of peripherals, including thermal printer, 2D barcode scanner, NFC/RFID reader, and payment modules.

NEW SSK315   15.6" Self-Service Kiosk with Intel® Smart Display Module (SDM)   400
(REGATA Kiosk)   CPU Card, Direct Bonding PCAP, 2D Barcode Scanner,
Thermal Printer and NFC

Industrial
Panel PCs

SSK315 (REGATA Kiosk) NEW

15.6" Self-Service Kiosk with Intel® Smart Display Module (SDM) CPU Card,
Direct Bonding PCAP, 2D Barcode Scanner, Thermal Printer and NFC

Features

- 15.6" optical bonding LCD with wide viewing angle;
  400 nits of brightness
- Supports Intel® Smart Display Module Small (Intel® SDM-S)
  and Intel® Smart Display Module Large (Intel® SDM-L) with
  Intel® Core™ i5/i3 and Intel® Celeron® processor
  (Whiskey Lake)
- Push button design for easy maintenance
- Supports floor stand and counter-top stand
- Dual illuminating status LEDs
- Modular design
- All-in-one seamless design

Specifications

Front Bezel	IP54, metallic front bezel	
LCD Panel	Display Type	15.6 " FHD TFT LCD
	Brightness (cd/m^2)	400 nits
	Resolution	1920 (H) x 1080 (V)
	Aspect Ratio	16:9
Main System	Intel® SDM Small (SDM-S, 60 x 100 mm) Intel® SDM Large (SDM-L, 175 x 100 mm)	
I/O Connector	Rear Side	1 x Power button with LED 1 x HDMI output 1 x USB 3.0 Type A 2 x USB 2.0 Type A 1 x microSD card slot (push-push type) 2 x 12 VDC-in barrel (screw-lock type)
Touchscreen	10-point projected capacitive touch with direct bonding	
LED Light Bar	2 LED light bars, support 256 color	
Stereo Speaker	2 x S.P.L. 96dB, 1.5W, 4 ohm	
Power Supply	150W (24V@A) AC to DC open-frame	
Power Consumption	Average 90W	
Dimensions	405 mm (15.94") (W) x 288 mm (11.34") (D) x 509 mm (20.04") (H)	
Weight (net/gross)	20 kg (44.1 lb)/23 kg (50.7 lb)	
Operating Temperature	0°C to +40°C (+32°F to +104°F)	
Operating Humidity	20% - 80%, non-condensing	
Certifications	CE, FCC Class A	

CPU Card Selection: SDM300-S

CPU	Quad-core Intel® Pentium® N4200 1.1GHz processor or Dual-core Intel® Celeron® N3350 1.1GHz processor (depends on CPU Card)	
System Memory	Onboard LPDDR4 2400 MHz 4GB (8GB optional)	
BIOS	AMI UEFI BIOS	
Storage	1 x eMMC 64GB onboard	
Watchdog Timer	255 levels, 0 to 255 sec.	
Onboard Graphics	Intel® HD Graphics 505/500 (depends on CPU card)	
I/O Connector	Rear Side (depends on SDM I/O)	1 x GbE LAN 2 x USB 3.0 Type A 2 x SMA antenna reserved hole
Expansion Interface	1 x M.2 Key E 2230 slot (for the Wi-Fi/4G LTE)	

CPU Card Selection: SDM500-L

CPU	Quad-core Intel® Core™ i5-8365UE 1.6GHz processor or Dual-core Intel® Celeron® 4305UE 2.0GHz processor (depends on CPU card)	
System Memory	2 x 260-pin DDR4-2400 SO-DIMM slot, up to 64GB	
BIOS	AMI UEFI BIOS	
Storage	1 x M.2 Key B 2280 slot	
Watchdog Timer	255 levels, 0 to 255 sec.	
Onboard Graphics	Intel® UHD Graphics 620/610 (depends on CPU card)	
I/O Connector	Rear Side (depends on SDM I/O)	1 x Power button with LED 1 x HDMI output 1 x GbE LAN 2 x USB 3.0 Type A 1 x USB 3.0 Type C 1 x Audio output 1 x Microphone input
Expansion Interface	1 x M.2 Key E 2230 slot (for the Wi-Fi/4G LTE)	

Ordering Information
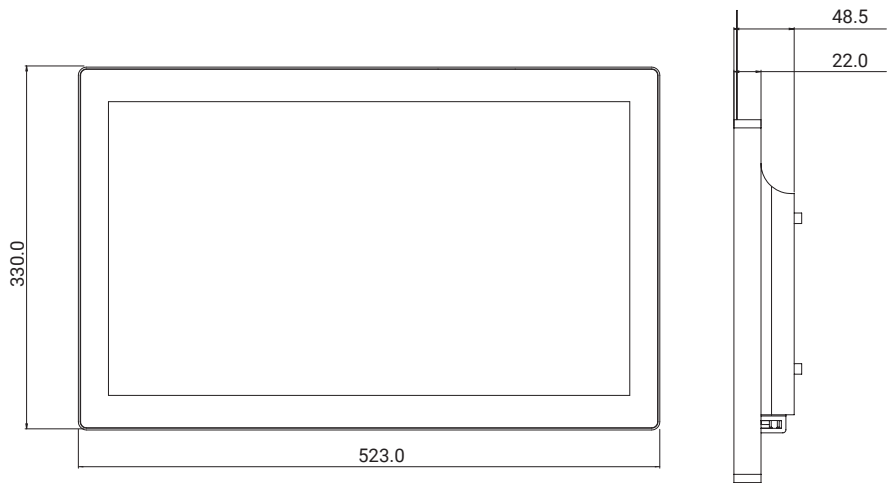
Standard

SSK315-SDM500L-8265U	15.6 FHD with PCAP touch slim bezel panel with SDM-L Intel® Core™ i5 8265U processor, 4GB memory, 64GB M.2 SSD, thermal printer, 2D barcode scanner, NFC, 1 LAN, 4 USB 3.0, 2 Speaker, 1 Mic-in, 1 Line-Out, 1 DC Jack
SSK315-SDM500L-8145U	15.6 FHD with PCAP touch slim bezel panel with SDM-L Intel® Core™ i3 8145U processor, 4GB memory, 64GB M.2 SSD, thermal printer , 2D barcode scanner, NFC, 1 LAN, 4 USB 3.0, 2 speaker, 1 Mic-in, 1 Line-Out, 1 DC Jack
SSK315-SDM500L-4305UE	15.6 FHD with PCAP touch slim bezel panel with SDM-L Intel® Celeron® 4305UE processor, 4GB memory, 64GB M.2 SSD, thermal printer, 2D barcode scanner, NFC, 1 LAN, 4 USB 3.0, 2 speaker, 1 Mic-in, 1 Line-Out,1 DC Jack
SSK315-SDM300S-N4200	15.6 FHD with PCAP touch slim bezel panel with SDM-S Intel® Pentium® N4200 processor, onboard DDR4 4G & EMMC 64GB, 1 LAN, 2 USB 3.0, 2 speaker, thermal printer, 2D barcode scanner, NFC, 1 LAN, 1 DC Jack

Self-service Kiosk

9

NOTES

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Network Appliances

1 SMB Network Appliances

2 SOHO Network Appliances

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4 LAN Modules

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.

SMB Network Appliances

Selection Guide

NEW

Features \ Models		NA870	NA860	NA861	NA720
Form Factor		2U, 19" rackmount	2U, 19" rackmount	1U, 19" rackmount	1U, 19" rackmount
Platform	Processor	Dual LGA4189 Intel® Xeon® Scalable processors	Dual LGA3647 Intel® Xeon® Scalable processors	LGA3647 Intel® Xeon® Scalable processors	Intel® Xeon® processor D-1527 Intel® Pentium® processor D1508
	Chipset	Intel® C621A/C627A	Intel® C621	Intel® C621	SoC Integrated
	Acceleration Technology	Intel® QAT (C627A)	N/A	N/A	N/A
BIOS		AMI SPI Flash BIOS	AMI SPI Flash BIOS	AMI SPI Flash BIOS	AMI SPI Flash BIOS
Memory	Technology	DDR4-3200	DDR4-2400	DDR4-2400	DDR4-2400
	Max. Capacity	1280GB	384GB	192GB	128GB
	Socket	20 x 288-pin R-DIMM	12 x 288-pin R-DIMM	6 x 288-pin R-DIMM	4 x 288-pin R-DIMM/U-DIMM
	ECC Support	Non-ECC/ECC	Non-ECC/ECC	Non-ECC/ECC	Non-ECC/ECC
Network Interface	Ethernet (default)	2 x 10/100/1000 Mbps	2 x 10/100/1000 Mbps	2 x 10/100/1000 Mbps	8 x 10/100/1000 Mbps (Intel® i210) 2 x 10 GbE SFP+
	Ethernet (max.)	66 x 10/100/1000 Mbps	66 x 10/100/1000 Mbps	34 x 10/100/1000 Mbps	24 x 10/100/1000 Mbps
	LAN Bypass	Upon LAN module	Upon LAN module	Upon LAN module	On board 2 pairs Upon LAN module
	Controllers	Intel® i210	Intel® i210	Intel® i210	Intel® i210
	LAN Module	8 x NIC slots (Dual CPUs) 4 x NIC slots (Single CPU)	8 x NIC slots (Dual CPUs) 4 x NIC slots (Single CPU)	4 x NIC slots	2 x NIC slots
Storage	HDD/SSD	2 x 2.5" HDD (Hot swappable)	2 x 2.5" HDD (Hot swappable)	2 x 2.5" HDD	2 x 2.5" HDD
	M.2 SSD	1 x M.2 2242/2280 Key M slot (PCIe) 1 x M.2 2242/2280 Key Mslot (SATA)	N/A	N/A	N/A
	mSATA/CF/CFast	N/A	1 x Full-Size mSATA	1 x Full-Size mSATA	1 x Full-Size mSATA
I/O	Button	Yes	N/A	N/A	N/A
	LED Indicator	Power, HDD, GPIO programmable, Link/Act with transfer rate	Power, HDD, GPIO programmable, Link/Act with transfer rate	Power, HDD, GPIO programmable, Link/Act with transfer rate	Power, HDD, GPIO programmable, LAN Bypass, Link/Act with transfer rate
	USB	2 x USB 3.0	2 x USB 3.0	2 x USB 2.0	2 x USB 3.0
	Console	1 x Console (RJ-type)	1 x Console (RJ-type)	1 x Console (RJ-type)	1 x Console (RJ-type)
	LCM Module	Yes	Yes	Yes	Yes
	Display	1 x VGA	1 x VGA	1 x VGA	1 x VGA (optional)
TPM		2.0	1.2	1.2	1.2
IPMI		Optional	Optional	Optional	Optional
Watchdog		255 stepping for system reset 8 stepping for LAN Bypass	255 stepping for system reset 8 stepping for LAN Bypass	255 stepping for system reset 8 stepping for LAN Bypass	255 stepping for system reset 8 stepping for LAN Bypass
Power Supply	Power Type	Redundant	Redundant	Single/Redundant (optional)	Single/Redundant (optional)
	Watts	1600W	800W	400W	300W 400W (optional)
	Input	100 to 240 Vac	100 to 240 Vac	100 to 240 Vac	100 to 240 Vac
	Connector	Inlet C14	Inlet C14	Inlet C14	Inlet C14
Expansion Interface		2 x PCIex16 (optional, 1 slot for each CPU)	1 x PCIe x16 (optional) 2 x PCIex8 (optional from CPU#1)	1 x PCIex16 (optional) 2 x PCIex8 (optional from CPU#1)	1 x PCIe x8 (optional)
Environment	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 +45°C (+32°F to +113°F)
	Storage Temperature	-20°C to +70°C (-4°F to +158°F)	-20°C to +70°C (-4°F to +158°F)	-20°C to +70°C (-4°F to +158°F)	-20°C to +70°C (-4°F to +158°F)
	Humidity	10% to 95% RH, non-condensing	10% to 95% RH, non-condensing	10% to 95% RH, non-condensing	10% to 95% RH, non-condensing
Mechanical	Construction	Steel	Steel	Steel	Steel
	Dimensions (W x H x D)	88 x 430 x 663 mm (3.46" x 16.93" x 26.10")	88 x 430 x 562 mm (3.46" x 16.93" x 22")	44 x 430 x 561 mm (1.73" x 16.93'' x 22")	44 x 430 x 390 mm (1.73'' x 16.93'' x 15.34")
	Weight (net/gross)	12 kg (26.4 lb)/20 kg (44 lb)	12 kg (26.4 lb)/20 kg (44 lb)	8 kg (17.6 lb)/12 kg (26.4 lb)	5.5 kg (12.13 lb)/7.5 kg (16.53 lb)
OS Support		Linux Kernel	Linux Kernel	Linux Kernel	Linux Kernel
Certifications		CE/FCC Class A	CE/FCC Class A	CE/FCC Class A	CE/FCC Class A

NEW

Coming soon

Features \ Models		NA592	NA591	NA590	NA580
Form Factor		1U, 19" rackmount	1U, 19" rackmount	1U, 19" rackmount	1U, 19" rackmount
Platform	Processor	LGA1200 Intel® Xeon® W-1200/ Intel® Core™	LGA1151 Intel® Xeon® E-2200/ Intel® Core™	LGA1151 socket 8th/9th gen Intel® Core™/Xeon® E-2200	LGA1151 Intel® Xeon® E3/ Intel® Core™
	Chipset	Intel® W480/Q470	Intel® C246	Intel® C246/H310	Intel® C236/H110
	Acceleration Technology	N/A	N/A	N/A	N/A
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	128GB	64GB (H310) 128G (C246)	64GB
	Socket	4 x 288-pin U-DIMM	4 x 288-pin U-DIMM	4 x 288-pin U-DIMM (H310) 2 x 288-pin U-DIMM (C246)	2 x 288-pin U-DIMM (H310) 4 x 288-pin U-DIMM (C246)
	ECC Support	Non-ECC/ECC	Non-ECC/ECC	Non-ECC	Non-ECC/ECC
Network Interface	Ethernet (default)	8 x 10/100/1000 Mbps (W480)	2 x 10/100/1000 Mbps	6 x 10/100/1000 Mbps (H310) 8 x 10/100/1000 Mbps (C246)	6 x 10/100/1000 Mbps (H110) 8 x 10/100/1000 Mbps (C236)
	Ethernet (max.)	26 x 10/100/1000 Mbps	34 x 10/100/1000 Mbps	14 x 10/100/1000 Mbps (H310) 26 x 10/100/1000 Mbps (C246)	18 x 10/100/1000 Mbps
	LAN Bypass	2 pairs	Upon LAN module	LAN Bypass function through latch relay (two pairs)	2 pairs
	Controllers	Intel® i350	Intel® i210	Intel® i210	Intel® i210
	LAN Module	2 x NIC slot	4 x NIC slot	2 x NIC slot (2 slot for C246 only)	1 x NIC slot
Storage	HDD/SSD	2 x 2.5" HDD	2 x 2.5" HDD	2 x 2.5" HDD or 1 x 3.5" HDD (3.5" optional for single PSU)	2 x 2.5" HDD or 1 x 3.5" HDD (3.5" optional for single PSU)
	M.2 SSD	1 x M.2 B-Key 2242	N/A	1 x M.2 2280 (C246 only)	N/A
	mSATA/CF/CFast	N/A	1 x Full-Size mSATA	1 x Full-Size mSATA	1 x CFast™ 1 x Full-Size mSATA
I/O	Button	Yes	N/A	N/A	N/A
	LED Indicator	Power, HDD, GPIO programmable, LAN Bypass, Link/Act with transfer rate	Power, HDD, GPIO programmable, Link/Act with transfer rate	Power, HDD, GPIO programmable, LAN Bypass, Link/Act with transfer rate	Power, HDD, GPIO programmable, LAN Bypass, Link/Act with transfer rate
	USB	2 x USB 3.0	2 x USB 2.0	2 x USB 3.0	2 x USB 3.0
	Console	1 x Console (RJ-type)	1 x Console (RJ-type)	1 x Console (RJ-type)	1 x Console (RJ-type)
	LCM Module	Yes	Yes	Yes	Yes
	Display	1 x VGA (optional)	1 x VGA (optional)	1 x VGA (optional)	1 x VGA (optional)
TPM		2.0	1.2	1.2	1.2
IPMI		Optional	Optional	Optional	Optional
Watchdog		255 stepping for system reset 8 stepping for LAN Bypass	255 stepping for system reset 8 stepping for LAN Bypass	255 stepping for system reset 8 stepping for LAN Bypass	255 stepping for system reset 8 stepping for LAN Bypass
Power Supply	Power Type	Single/Redundant (optional)	Single/Redundant (optional)	Single/Redundant (optional)	Single/Redundant (optional)
	Watts	400W	400W	300W/400W (optional)	300W/400W (optional)
	Input	100 to 240 Vac	100 to 240 Vac	100 to 240 Vac	100 to 240 Vac
	Connector	Inlet C14	Inlet C14	Inlet C14	Inlet C14
Expansion Interface		1 x M.2 Key E 2230 slot (optional) 1 x PCIe x8 (optional)	1 x PCIe x4 (optional)	1 x M.2 Key M 2280 slot (C246 optional) 1 x PCIe x8 (C246 optional)	N/A
Environment	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) (300W ATX power supply) 0°C to +40°C (+32°F to +104°F) (400W 1U redundant power supply)	0°C to +45°C (+32°F to +113°F) (300W ATX power supply) 0°C to +40°C (+32°F to +104°F) (400W 1U redundant power supply)
	Storage Temperature	-20°C to +70°C (-4°F to +158°F)	-20°C to +70°C (-4°F to +158°F)	-20°C to +70°C (-4°F to +158°F)	-20°C to +70°C (-4°F to +158°F)
	Humidity	10% - 95% RH, non-condensing	10% - 95% RH, non-condensing	10% to 95% RH, non-condensing	10% - 95% RH, non-condensing
Mechanical	Construction	Steel	Steel	Steel	Steel
	Dimensions (W x H 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 450 mm (1.73" x 16.93" x 17.7")	44 x 430 x 450 mm (1.73" x 16.93" x 17.7")
	Weight (net/gross)	6 kg (13.2 lb)/10 kg (22 lb)	8.32 kg (18.34 lb)/12.76 kg (28.13 lb)	6 kg (13.2 lb)/10 kg (22 lb)	6 kg (13.2 lb)/10 kg (22 lb)
OS Support		Linux Kernel	Linux	Linux	Linux
Certifications		CE/FCC Class A	CE/FCC Class A	CE/FCC Class A	CE/FCC Class A

SMB Network Appliances

Selection Guide

Features \ Models		NA362R	NA363R	NA345R
Form Factor		1U, 19" rackmount	1U, 19" rackmount	1U, 19" Rackmount
Platform	Processor	Intel® Atom® C3558/C3758	Intel® Atom® processor C3558/C3758	Intel® Celeron® N3350/J3455 processor (Apollo Lake)
	Chipset	SoC integrated	SoC integrated	SoC integrated
	Acceleration Technology	Intel® QAT	Intel® QAT	N/A
BIOS		AMI SPI Flash BIOS	AMI SPI Flash BIOS	AMI SPI Flash BIOS
Memory	Technology	DDR4-2400	DDR4-2400	DDR3L-1866
	Max. Capacity	128GB	128GB	8GB
	Socket	4 x 288-pin R-DIMM/U-DIMM	4 x 288-pin R-DIMM/U-DIMM	1 x 204-pin SO-DIMM
	ECC Support	Non-ECC/ECC	Non-ECC/ECC	Non-ECC/ECC
Network Interface	Ethernet (default)	6 x 10/100/1000 Mbps 2 x 10G SFP+ or 4 x 10G SFP+	6 x 10/100/1000 Mbps	6 x 10/100/1000 Mbps
	Ethernet (max.)	6 x 10/100/1000 Mbps 4 x 10G SFP+	6 x 10/100/1000 Mbps	6 x 10/100/1000 Mbps
	LAN Bypass	1 pair	1 pair 2 pair (optional)	1 pair (Optional)
	Controllers	Intel® i210	Intel® i210	Intel® i211
	LAN Module	N/A	1 x NIC Slot (C3758 optional)	N/A
Storage	HDD/SSD	2 x 2.5" HDD 1 x 3.5" HDD (optional)	2 x 2.5" HDD 1 x 3.5" HDD (optional)	1 x 2.5" HDD 1 x 3.5" HDD (optional)
	M.2 SSD	N/A	N/A	N/A
	mSATA/CF/Cfast	1 x Full-Size mSATA	1 x Full-Size mSATA	1 x Full-Size mSATA
I/O	Button	Yes	Yes	Yes
	LED Indicator	Power, HDD, GPIO programmable, LAN Bypass, Link/Act with transfer rate	Power, HDD, GPIO programmable, LAN Bypass, Link/Act with transfer rate	Power, HDD, GPIO programmable, LAN Bypass, Link/Act with transfer rate
	USB	2 x USB 2.0	2 x USB 3.0	2 x USB 3.0
	Console	1 x Console (RJ-type)	1 x Console (RJ-type)	1 x Console (RJ-type)
	LCM Module	Yes	Yes	N/A
	Display	N/A (optional for VGA module)	N/A (optional for VGA module)	1 x HDMI 1 x VGA (Optional)
TPM		Yes	Yes	Yes
IPMI		N/A	N/A	N/A
Watchdog		255 stepping for system reset 8 stepping for LAN Bypass	255 stepping for system reset 8 stepping for LAN Bypass	255 stepping for system reset 8 stepping for LAN Bypass
Power Supply	Power Type	Open frame	Open frame	Open frame
	Watts	120W	120W	65W
	Input	100 to 240Vac	100 to 240Vac	100 to 240Vac
	Connector	Inlet C14	Inlet C14	Inlet C14
Expansion Interface		1 x Full-size Mini-PCIe slot (SATA/USB) 1 x Full-size Mini-PCIe slot (PCIe/USB)	1 x Full-size Mini-PCIe slot (PCIe or mSATA/USB) 1 x Full-size Mini-PCIe slot (PCIe or mSATA/USB)	N/A
Environment	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)
	Storage Temperature	-20°C to +70°C (-4°F to +158°F)	-20°C to +70°C (-4°F to +158°F)	-20°C to +70°C (-4°F to +158°F)
	Humidity	10% - 95% RH, non-condensing	10% - 95% RH, non-condensing	10% - 95% RH, non-condensing
Mechanical	Construction	Steel	Steel	Steel
	Dimensions (W x H x D)	44 x 430 x 250 mm (1.73" x 16.93" x 9.84")	44 x 430 x 250 mm (1.73" x 16.93" x 9.84")	44 x 430 x 250 mm (1.73" x 16.93" x 9.84")
	Weight (net/gross)	3.5 kg (7 lb)/4.5 kg (9 lb)	3.5 kg (7 lb)/4.5 kg (9 lb)	7 kg (15.43 lb)/8 kg (17.64 lb)
OS Support		Yocto, Linux	Yocto, Linux	Win 10, Yocto, Linux
Certifications		CE/FCC Class B	CE/FCC Class A	CE/FCC Class B

NA870 NEW

2U Rackmount Network Appliance Platform with Dual LGA4189 Socket Intel® Xeon®
Scalable Processors, Intel® C621A (Ice Lake-SP) and up to 66 LAN

Features

- Dual LGA4189 socket Intel® Xeon® Scalable processors
  (Ice Lake-SP)
- 12 DDR4-2400 R-DIMM for up to 384GB of memory
- Max. up to 66 LAN ports
- 8 expandable LAN modules supporting 1GbE/10GbE/
  25GbE/40GbE/Fiber/Copper/Bypass
- Supports 2U redundant power supply
- Supports IPMI (onboard) for optional
- High computing power for SDN, NGFW, IDS, IPS and UTM
  applications

HDD tray
Keypad/LCM
USB 3.0
LAN modules
▲ Front view
Mgnt ports & console

Expansion slots
System fans
VGA
Redundant power
▲ Rear view

Icons: 1+1 Redundant Power | NIC Module | TPM | IPMI | LAN Bypass | IEC 62368-1 | M.2 | DDR4 | Swappable
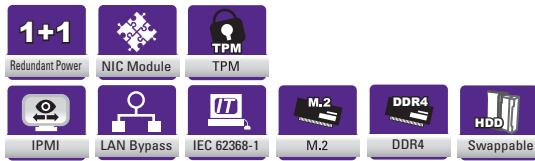
Specifications

System

CPU	Dual LGA4189 socket Intel® Xeon® Scalable processors (Ice Lake-SP)
Chipset	Intel® C621A
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 M.2 Key M 2242/2280 (PCIe) 1 x M.2 Key M 2242/2280 (SATA)
Network Interface	2 x GbE RJ-45 (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 Console (RJ-type) 2 x USB 3.0 2 x RJ-45 1 x VGA
TPM	Onboard TPM 2.0
IPMI	Onboard BMC AST2500, IPMI 2.0 for optional
Other Features	LAN Bypass function through latch relay (depends on LAN modules)
Expansion Interface	2 x PCIe x16 through AX96709 riser card (optional)
Watchdog Timer	255 stepping for system reset 8 stepping for LAN Bypass
Power Supply	1600W 2U redundant power supply
OS Compatibility	Linux

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 663 mm (26.10'')(D)
Weight (net/gross)	12 kg (26.4 lb)/20 kg (44 lb)
Certifications	CE/FCC Class A
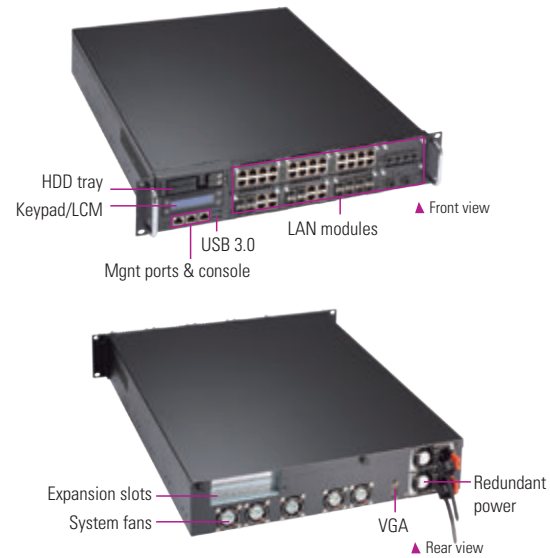
Ordering Information

Standard

NA870-R2GI-C621-US (P/N: E26E870100)	2U rackmount appliance with dual LGA4189 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

430.00

663.10

88.00

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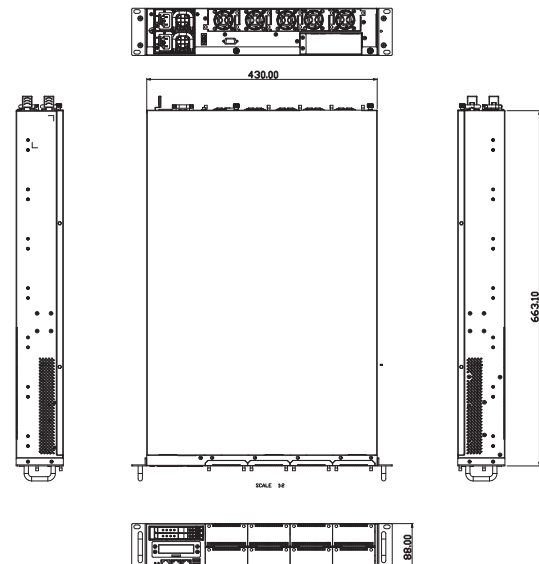
NA860

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 66 LAN ports
- 8 expandable LAN modules supporting 1GbE/10GbE/
  25GbE/40GbE/Fiber/Copper/Bypass
- Supports 2U redundant power supply
- Supports IPMI (onboard) for optional
- Supports onboard TPM
- High computing power for SDN, NGFW, IDS, IPS and UTM
  applications

HDD tray
Keypad/LCM
USB 3.0
Mgnt ports & console
LAN modules
▲ Front view

Expansion slots
System fans
VGA
Redundant power
▲ Rear view

| 1+1 Redundant Power | NIC Module | HDD Swappable |
| IPMI | TPM | LAN Bypass | IEC 62368-1 | mSATA | DDR4 |

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 GbE RJ-45 (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 Console (RJ-type) 2 x USB 3.0 2 x RJ-45 1 x VGA
TPM	Onboard TPM 2.0
IPMI	Onboard BMC AST2500, IPMI 2.0 for optional
Other Features	LAN Bypass function through latch relay (depends on LAN modules)
Expansion Interface	2 x PCIe x8 through AX96709 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

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	CE/FCC 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

430.00
562.10
88.00
486.20
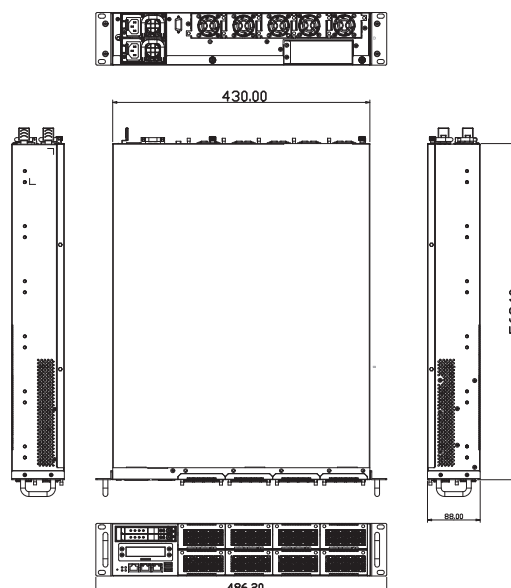
NA861

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 34 LAN ports
- 4 expandable LAN modules supporting
  1GbE/10GbE/25GbE/40GbE/Fiber/Copper/Bypass
- Supports 1U redundant power supply
- Supports IPMI for optional
- Supports onboard TPM
- High computing power for SDN, NGFW, IDS, IPS and UTM
  applications

▲ Front view

LCM
Console
Keypad
USB 3.0
LAN
LAN modules

ATX power/
redundant
power
(optional)

System fans
VGA
▲ Rear view

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 Full-size mSATA
Network Interface	2 x GbE RJ-45 (Intel® i210) Single CPU: 4 x LAN module (optional), max. up to 34 LAN ports
I/O	1 x Console (RJ-type) 2 x USB 2.0 2 x RJ-45 1 x VGA
TPM	Onboard TPM 2.0
IPMI	Onboard BMC AST2500, IPMI 2.0 for optional
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

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	CE/FCC Class A
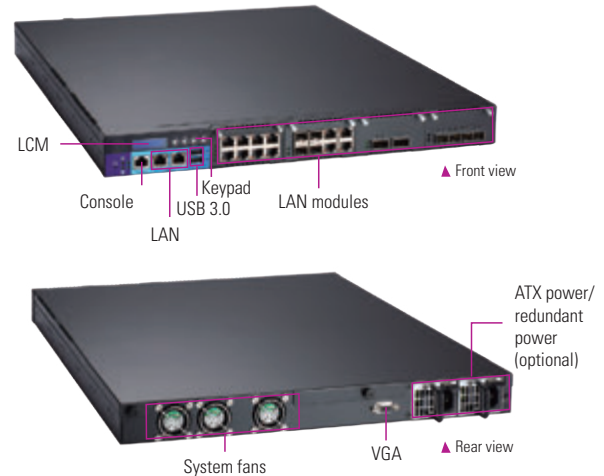
Ordering Information

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
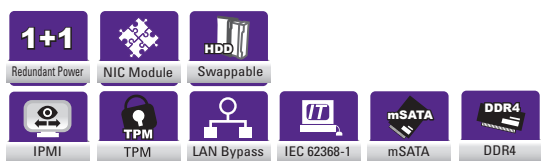
1 x SATA cable
1 x Power cord

Dimensions

561.00

430.00

44.00

SMB
Network
Appliances

1
2
3
4
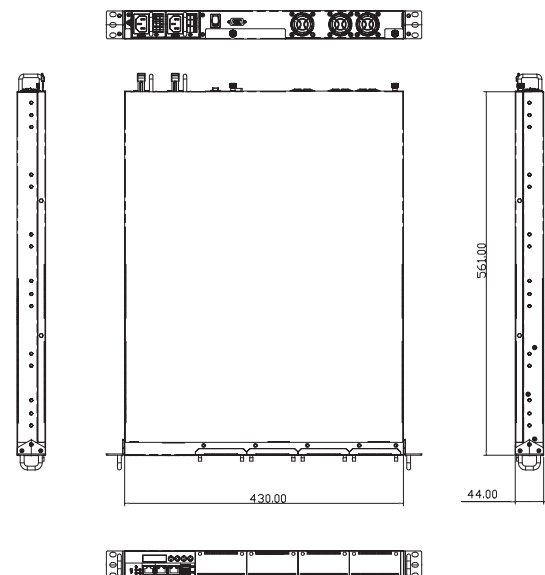
NA720

1U Rackmount Network Appliance Platform with Intel® Xeon® Processor D-1527/
Pentium® Processor D1508 and up to 26 LAN

Features

- Intel® Xeon® processor D-1527/Pentium® processor D1508 onboard (Broadwell-DE)
- Four DDR4-2400 R-DIMM/U-DIMM, up to 128GB memory
- Max. up to 24 LAN ports and 2 SFP+ ports
- Two expandable LAN modules supporting 1GbE/10GbE/Fiber/Copper/Bypass (optional)
- Supports 1U redundant power supply for optional
- Supports IPMI for optional
- Suitable for enterprise firewall, network bandwidth controller and UTM applications

1+1 Redundant Power	NIC Module				
IPMI	TPM	LAN Bypass	IEC 62368-1	mSATA	DDR4
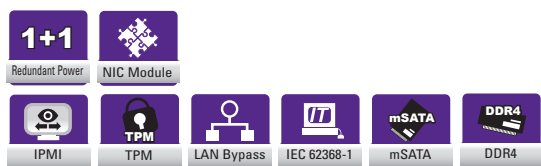
Specifications

System

CPU	Intel® Xeon® processor D-1527 (Broadwell-DE) Intel® Pentium® processor D1508 (default)
Chipset	SoC Integrated
Memory	4 x DDR4-2400 R-DIMM/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 Full-size mSATA
Network Interface	8 x GbE R-J45 (Intel® i210) 2 x 10 GbE SFP+ 2 x LAN module (optional), max. up to 26 LAN ports
I/O	1 x Console (RJ-type) 2 x USB 3.0 8 x RJ-45 + 2 x SFP+
TPM	Onboard TPM 2.0
IPMI	Onboard BMC AST2500, IPMI 2.0 for optional
Other Features	LAN Bypass function through latch relay (two pairs)
Expansion Slot	1 x PCIe x8 (optional)
Watchdog Timer	255 stepping for system reset 8 stepping for LAN Bypass
Power Supply	300 W ATX power supply 400 W 1U redundant power supply (optional)
OS Compatibility	Linux

Mechanical/ Environmental

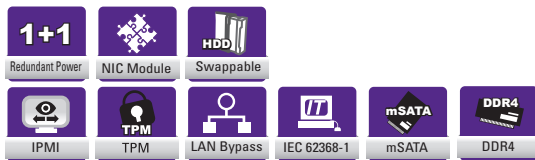|	
Form Factor	1U rackmount
LED	Power, HDD, GPIO programmable, LAN Bypass, Link/Act with transfer rate
Operating Temp.	0°C to +45°C (+32°F to +113°F)
Humidity	10% to 95% RH, non-condensing
Chassis Material	Steel
Dimensions	44 mm (1.73") (H) x 430 mm (16.93") (W) x 390 mm (15.34") (D)
Weight	8.5 kg (18.74 lb)/9.8 kg (21.61 lb)
Certificates	CE/FCC Class A

▲ Front view

Keypad | LCM | Console | USB 3.0 | 10G SFP+ | LAN ports | LAN modules

▲ Rear view

Expansion slot | System fans | ATX power/Redundant power (optional)
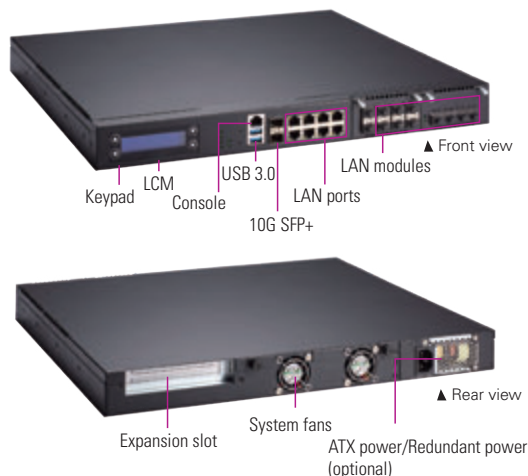
Ordering Information

Standard

NA720-RAMI-US (P/N: E26E7201000)	1U rackmount network appliance with Intel® Pentium® processor D1508, 8 GbE LANs, 2 10 GbE SFP+ and 2-pair LAN Bypass

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

430.00

390.00

44.00
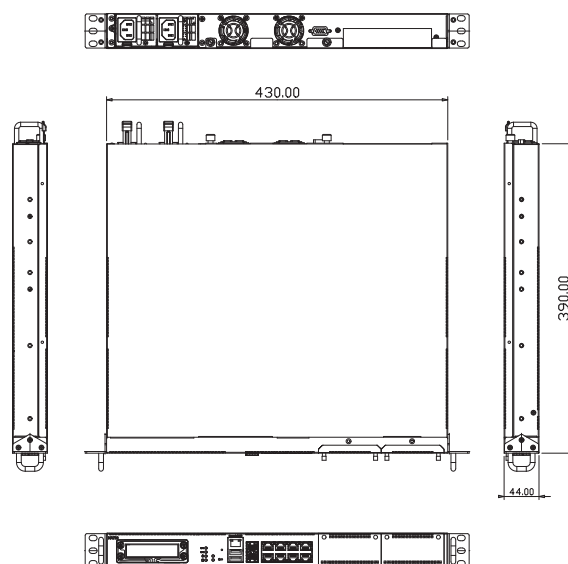
NA592 **NEW**

1U Rackmount Network Appliance Platform with LGA1200 Socket Intel® Core™/Xeon®
W-1200 Processor, Intel® W480/Q470 and up to 26 LAN

Features

- LGA1200 socket 10th gen Intel® Core™/Xeon® W-1200 processor (Comet Lake)
- 4 DDR4-2666 U-DIMM for up to 128GB of memory
- Max. up to 26 LAN ports
- 2 expandable LAN modules supporting 1GbE/10GbE/ 25GbE/40GbE/Fiber/Copper/Bypass
- Supports 1U redundant power supply for optional
- Supports IPMI for optional
- Suitable for network security, cloud computing and data centers applications

Coming soon

IPMI	TPM	LAN Bypass	IEC62368-1	M.2	Redundant Power	NIC Module
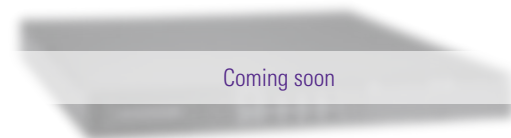
Specifications

System

CPU	LGA1200 socket 10th gen Intel® Core™/Xeon® W-1200 processor (Comet Lake)
Chipset	Intel® W480/Q470
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 M.2 2242 Key M slot (SATA)
Network Interface	8 x GbE RJ-45 (Intel® i350) in default 10 x GbE RJ-45 (by project) 2 x LAN module (optional) via I/O board, max. up to 26 LAN
I/O	1 x Console (RJ-type) 2 x USB 3.0 8 x RJ-45 1 x VGA (optional)
TPM	Onboard TPM 2.0
IPMI	Onboard BMC AST2500, IPMI 2.0 for optional
Other Features	LAN Bypass function through latch relay (two pairs)
Expansion Interface	1 x PCIe x8 through AX96708 riser card (optional)
Watchdog Timer	255 stepping for system reset 8 stepping for LAN Bypass
Power Supply	400W single power supply 400W 1U redundant power supply (optional)
OS Compatibility	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) (400W ATX power supply) 0°C to +40°C (+32°F to +104°F) (400W 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	CE/FCC Class A

Ordering Information

Standard

|	
NA592-R8GI-w480-US 10th w/o IPMI (P/N: E26E592100)	1U rackmount appliance with LGA1200 socket Intel® Core™/Xeon® W-1200 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
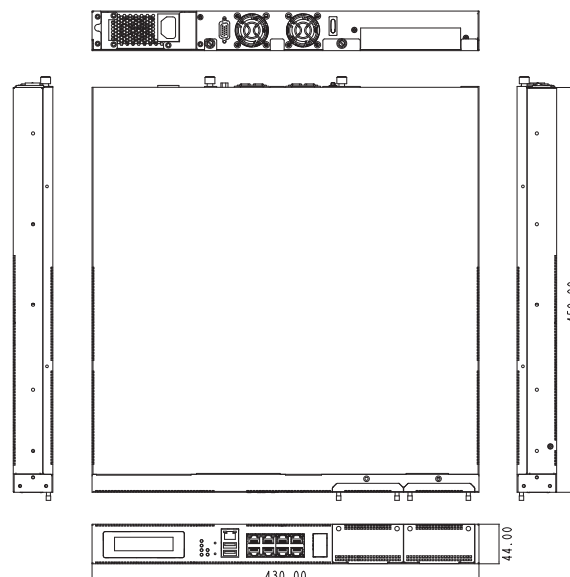
NA591

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 Refresh)
- 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

Keypad
LCM
Console
2 x USB 2.0
LAN
LAN modules
▲ Front view

▲ Rear view
System fans

TPM | mSATA | M.2 | IEC 62368-1 | CFast™ | 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 refresh)
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 Full-size mSATA 1 x M.2 2280 Key M slot (SATA) 1 x 3.5" SATA HDD (optional for 400W ATX power supply only)
Network Interface	2 x GbE RJ-45 (Intel® i210) 4 x LAN module (optional), max. up to 34 LAN ports
I/O	1 x Console (RJ-type) 2 x USB 2.0 2 x RJ-45 1 x VGA
TPM	Onboard TPM 2.0
IPMI	Onboard BMC AST2500, IPMI 2.0 for optional
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 single power supply 400W 1U redundant power supply (optional)
OS Compatibility	Linux

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	CE/FCC Class A
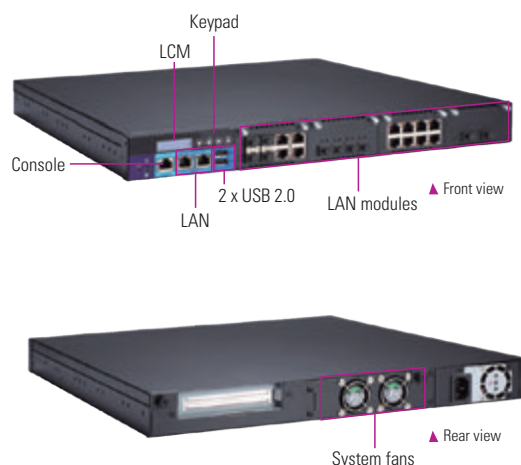
Ordering Information

Standard

NA591-R2GI-C246-US w/ IPMI (P/N: E26E591100)	1U rackmount appliance with LGA1151 socket Intel® Core™/Xeon® E-2200 processor, 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, 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

Dimensions

430.00

44.00

500.00

44.00

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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 Intel® Core™ i7/i5/i3 & Xeon® E-2200 processor (Coffee Lake/Coffee Lake Refresh)
- 4 DDR4-2666 U-DIMM for up to 64GB of memory
- Max. up to 26 LAN ports
- 2 expandable LAN modules supporting 1GbE/10GbE/ 25GbE/40GbE/Fiber/Copper/Bypass
- Supports 1U redundant power supply for optional
- Supports IPMI for optional
- Suitable for network security, cloud computing and data centers applications

Console
Keypad LCM USB 3.0 LAN LAN module
▲ Front view

ATX power / redundant power (optional)
Expansion slot System fans VGA (optional)
▲ Rear view

| IPMI | TPM | LAN Bypass | IEC62368-1 | M.2 | 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 refresh)
Chipset	C246/H310
Memory	C246: 4 x DDR4-2666 U-DIMM, up to 128GB non-buffer non-ECC/ECC memory 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 Full-size mSATA 1 x M.2 2280 Key B slot (SATA) through AX98621 I/O card (C246 optional) 1 x 3.5" SATA HDD (optional for 400W single power supply)
Network Interface	C246: 8 x GbE RJ45 (Intel® i210) 10 x GbE RJ-45 (by project) 2 x LAN module (optional), max. up to 26 LANs H310: 6 x GbE RJ-45 (Intel® i210) 1 x LAN module (optional), max. up to 14 LANs
I/O	1 x Console (RJ-type) 2 x USB 3.0 8 x RJ-45 1 x VGA (pin header)
TPM	Onboard TPM 2.0
IPMI	Onboard BMC AST2500, IPMI 2.0 for optional
Other Features	LAN Bypass function through latch relay (two pairs)
Expansion Interface	1 x PCIe x8 through AX96708 riser card (C246 optional)
Watchdog Timer	255 stepping for system reset 8 stepping for LAN Bypass
Power Supply	300W single power supply 400W 1U redundant power supply (by project)
OS Compatibility	Linux

Mechanical/ Environmental

Form Factor	1U rackmount
LED	Power, HDD, GPIO programmable, LAN Bypass
Operating Temperature	0°C to +45°C (+32°F to +113°F) (300W single 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	CE/FCC Class A

Ordering Information

Standard

|	
NA590-R6GI-H310-US 9th w/o IPMI (P/N: E26E590109)	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: E26E590108)	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

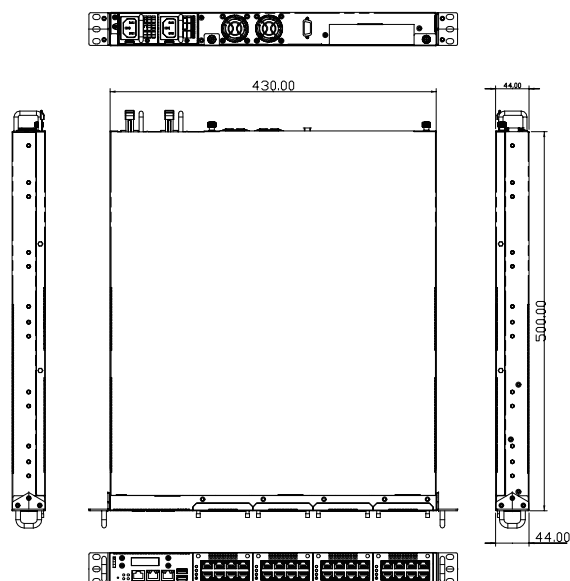|	
5916E552000E	DB9F-RJ-45 1.8M console cable for Cisco

* Specifications and certifications may vary based on different requirements.

Packing List

1 x SATA cable
1 x Power cord

Dimensions

430.00
450.00
44.00
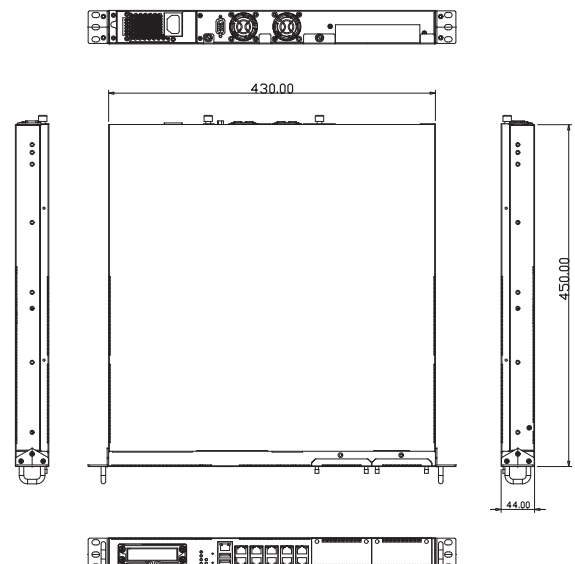
NA580

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)
- 4 DDR4-2400 U-DIMM for up to 64GB of memory
- Max. up to eighteen 10/100/1000 Mbps Ethernet ports
- Expandable LAN module supporting 1GbE/10GbE/Fiber/Copper/Bypass
- Supports 1U redundant power supply for optional
- Supports IPMI/TPM module for optional
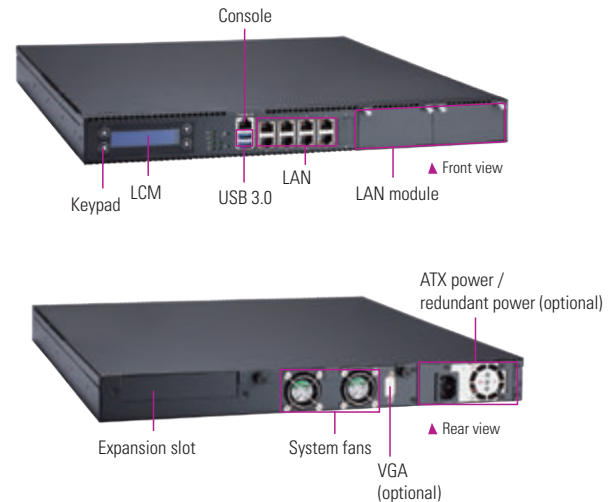- Suitable for network security, cloud computing and data centers applications

| 1+1 Redundant Power | NIC Module | IPMI | TPM | LAN Bypass | IEC 62368-1 | mSATA | CFast™ |

Specifications

System

CPU	LGA1151 socket Intel® Xeon® E3/Core™ processor (Skylake/Kaby Lake)
Chipset	C236/H110
Memory	C236: 4 x DDR4-2400 U-DIMM, up to 64GB non-buffer non-ECC/ECC memory 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 Full-size mSATA 1 x 3.5" SATA HDD (optional for 300W single power supply only)
Network Interface	C236: 8 x GbE RJ-45 (Intel® i210) 10 x GbE RJ-45 (optional) 8 x GbE RJ-45 + 2 x GbE SFP (optional) H110: 6 x GbE RJ-45 (Intel® i210) 1 x LAN module (optional), max. up to 18 LANs
I/O	1 x Console (RJ-type) 2 x USB 3.0 8 x RJ-45 1 x VGA (pin header)
TPM	Onboard TPM 2.0
IPMI	Onboard BMC AST2500, IPMI 2.0 for optional
Other Features	LAN Bypass function through latch relay (two pairs)
Expansion Interface	1 x PCIe x8 (Intel® C236 only) through AX96708 riser card (optional)
Watchdog Timer	255 stepping for system reset 8 stepping for LAN Bypass
Power Supply	300W single power supply 400W 1U redundant power supply (by project)
OS Compatibility	Linux

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) (300 W ATX power supply) 0°C to +40°C (+32°F to +104°F) (400 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 451mm (17.8") (D)
Weight (net/gross)	6 kg (13.2 lb)/10 kg (22 lb)
Certifications	CE/FCC Class A

LCM
Keypad
USB 3.0
Console
LAN
LAN module
▲ Front view

Expansion slot
System fans
ATX power/redundant power (optional)
VGA (optional)
▲ Rear view
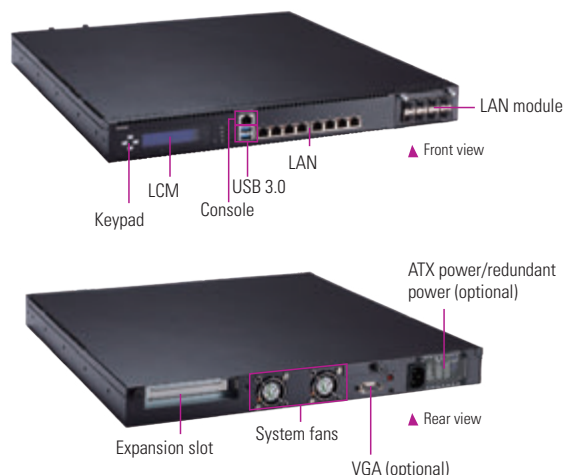
Ordering Information

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

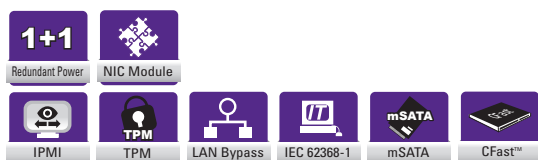451.00
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44.00
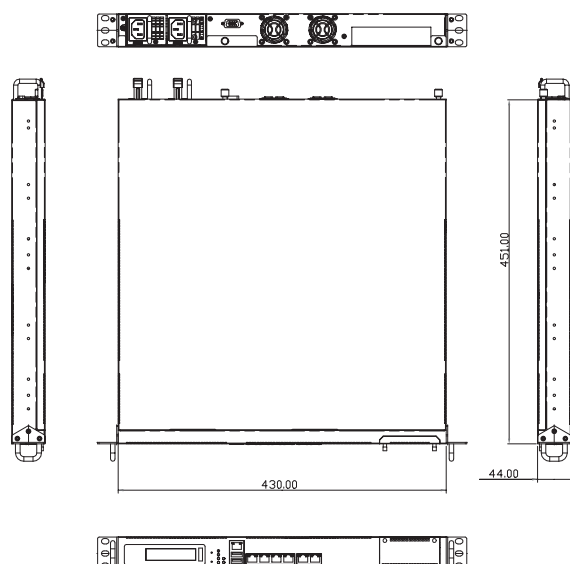
NA362R

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
- 6 1GbE RJ45 and 4 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

▲ Front view

▲ Rear view

Supports Intel Atom inside | Low Power | TPM | LAN Bypass | IEC 62368-1 | mSATA | DDR4

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 Full-size Mini-PCIe slot
Network Interface	6 x GbE RJ-45 (Intel® i210) 2 x 10GbE SFP+ (C3558)/4 x 10GbE SFP+ (C3758)
I/O	1 x Console (RJ-type) 2 x USB 2.0 6 x RJ-45 + 2 x SFP+ (C3558); 4 x SFP+ (C3758)
TPM	Onboard TPM 1.2/2.0 (optional)
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 250 mm (9.84'') (D)
Weight (net/gross)	3.5 kg (7 lb)/4.5 kg (9 lb)
Certifications	CE/FCC Class B

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

430.00

250.00

44.00
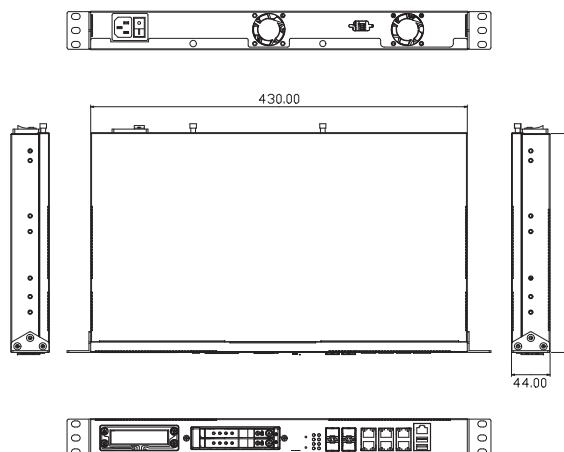
NA363R

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
- 6 GbE RJ-45 and 1 expandable LAN module support
- Supports Intel® QuickAssist Technology
- Supports Intel® Data Plane Development kit (Intel® DPDK)
- Suitable for VPN, network bandwidth controller, firewall and UTM applications
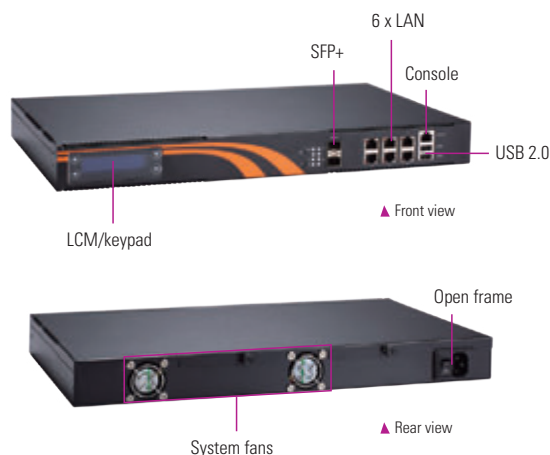

LCM/keypad · LAN module (optional) · 6 x LAN · 2 x USB 2.0 · Console

▲ Front view

VGA hole (optional) · Open frame · System fans

▲ Rear view

Supports Intel® Atom® inside · Low Power · TPM · LAN Bypass · IEC 62368-1 · mSATA · DDR4
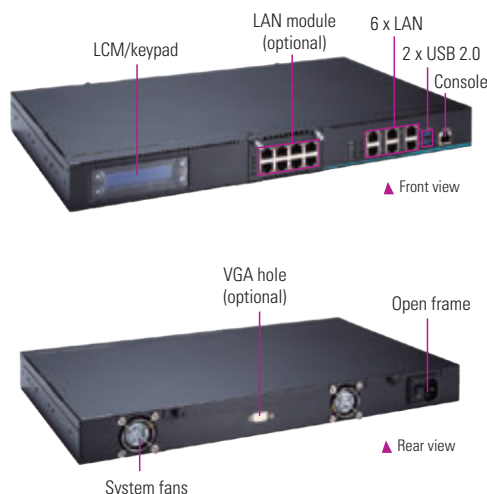
Specifications

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 Full-size mSATA
Network Interface	6 x GbE RJ-45 (Intel® i210) 1 x LAN module (optional), max. up to 14 LAN
I/O	1 x Console (RJ-type) 2 x USB 2.0 6 x RJ-45 1 x VGA (optional)
TPM	Onboard TPM 2.0 (optional)
Other Features	One pair LAN Bypass function through latch relay Two pairs LAN Bypass (optional)
Expansion Interface	1 x LAN module through AX98614 (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 250 mm (9.84'') (D)
Weight (net/gross)	3.5 kg (7 lb)/4.5 kg (9 lb)
Certifications	CE/FCC Class A

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
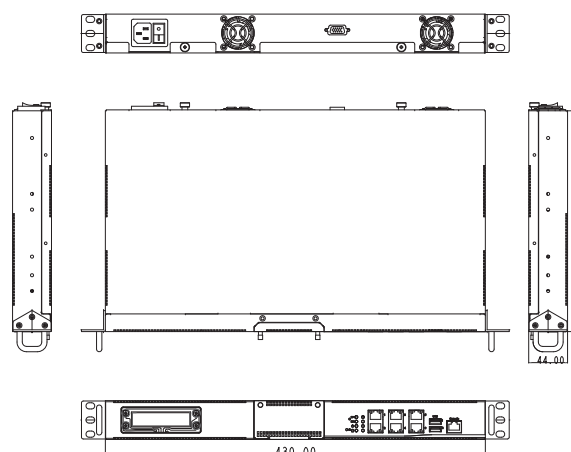
NA345R

1U Rackmount Network Appliance Platform with Intel® Celeron® N3350/J3455 Processor up to 6 LAN

Features

- Intel® Celeron® N3350/J3455 processor (Apollo Lake)
- One DDR3L-1866 SO-DIMM, up to 8GB memory
- Six 10/100/1000 Mbps Ethernet ports (Intel® i211)
- Supports one 2.5" SATA3 HDD
- Suitable for VPN, network bandwidth controller and firewall applications

USB 3.0

Console

HDMI

RJ-45

▲ Front view

Open frame

System fan

VGA (optional)

▲ Rear view

Supports (Intel Atom inside)

Low Power | TPM | LAN Bypass | IEC 62368-1 | mSATA

Specifications

System

CPU	Intel® Celeron® N3350/J3455 processor (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 Full-size mSATA 1 x 3.5" SATA HDD (optional)
Network Interface	6 x GbE RJ-45 (Intel® i211)
I/O	1 x Console (RJ-type) 2 x USB 3.0 6 x RJ-45 1 x HDMI
TPM	Onboard TPM 1.2 (optional)
Other Features	LAN Bypass function through latch relay (one pair) LCM for optional
Expansion Slot	N/A
Watchdog Timer	255 levels for system reset 7 levels for LAN Bypass
Power Supply	65 W open frame
OS Compatibility	Win 10, Linux (Yocto project)

Mechanical/ Environmental

Form Factor	1U rackmount
LED	Power, HDD, GPIO programmable, LAN Bypass, Link/Act with transfer rate
Operating Temp.	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 250 mm (9.84") (D)
Weight (net/gross)	7 kg (15.43 lb)/8 kg (17.64 lb)
Certificates	CE/FCC Class B
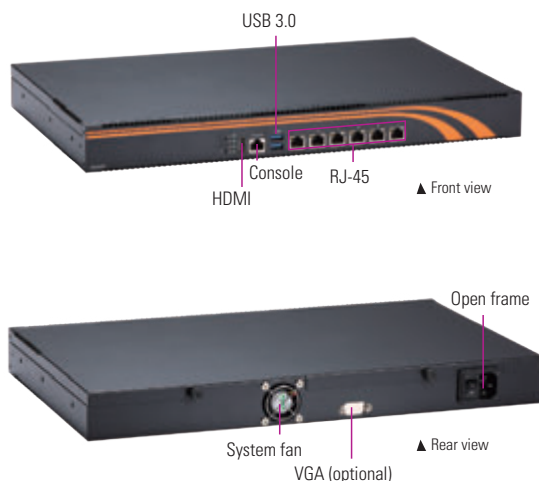
Ordering Information

Standard

NA345R-R6GI-N3350-US w/1 LBP (P/N: E26E345101)	1U rackmount appliance with Intel® Celeron® N3350 processor, 6 GbE LANs and 1 LBP

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

250.00

430.00

44.00

2
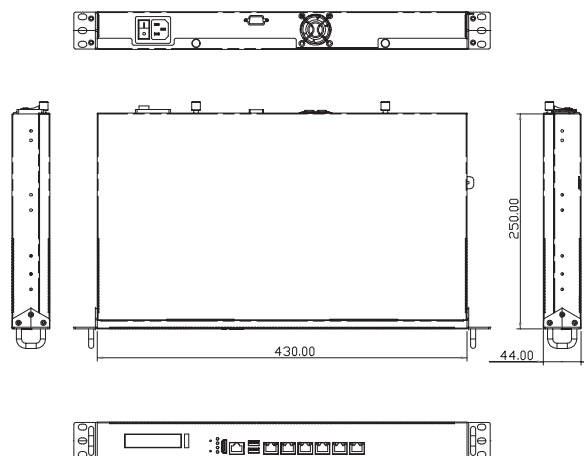
SOHO Network Appliances

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.

Network Appliances

SOHO Network Appliances

Selection Guide

Models		NA347	NA346	NA345	NA342
Form Factor		Ultra-Compact, Fanless	Ultra-Compact, Fanless	1U Desktop	1U Desktop
Platform	Processor	Intel® Celeron® N3350 (Apollo Lake)	Intel® Celeron® N3350 (Apollo Lake)	Intel® Pentium® N4200 (4-core) Intel® Celeron® N3350 (2-core)	Intel® Celeron® J1900 (4-core)
	Chipset	SoC integrated	SoC integrated	SoC integrated	SoC integrated
	Acceleration Technology	N/A	N/A	N/A	N/A
BIOS		AMI SPI Flash BIOS	AMI SPI Flash BIOS	AMI SPI Flash BIOS	AMI SPI Flash BIOS
Memory	Technology	DDR3L-1866	DDR3L-1866MHz	DDR3L-1866	DDRL-1333
	Max. Capacity	8GB	8GB	8GB	8GB
	Socket	1 x 204-pin SO-DIMM	1 x 204-pin SO-DIMM	1 x 204-pin SO-DIMM	1 x 204-pin SO-DIMM
	ECC Support	Non-ECC	Non-ECC	Non-ECC	Non-ECC
Network Interface	Ethernet (default)	3 x 10/100/1000 Mbps	4 x 10/100/1000 Mbps	4 x 10/100/1000 Mbps	4 x 10/100/1000 Mbps
	Ethernet (max.)	3 x 10/100/1000 Mbps	4 x 10/100/1000 Mbps	6 x 10/100/1000 Mbps	6 x 10/100/1000 Mbps
	LAN Bypass	1 pair (optional)	1 pair (optional)	1 pair (optional)	1 pair (optional)
	Controllers	Intel® i211	Intel® i211	Intel® i211	Intel® i211
	LAN Module	N/A	N/A	N/A	N/A
Storage	HDD/SSD	N/A	N/A	1 x 2.5" HDD (Max 9.5mm height only)	1 x 2.5" HDD (Max 9.5mm height only)
	M.2 SSD	1 x M.2 2242 slot	N/A	N/A	N/A
	mSATA/CF/CFast	N/A	1 x Half-Size mSATA 1 x Full-Size mSATA	1 x Full-Size mSATA	1 x CompactFlash™
I/O	Button	Power Button with LED	Power Switch	1 x Power Switch	1 x Power Switch
	LED Indicator	N/A	Power, HDD, GPIO programmable, LAN Bypass, Link/ Act with transfer rate	Power, HDD, GPIO programmable, LAN Bypass, Link/Act with transfer rate	Power, HDD, GPIO programmable, LAN Bypass, Link/Act with transfer rate
	USB	2 x USB 3.0	2 x USB 3.0	2 x USB 3.0	1 x USB 2.0 1 x USB 3.0
	Console	1 x Console (RJ-type)	1 x Console (RJ-type)	1 x Console (RJ-type)	1 x Console (RJ-type)
	LCM Module	N/A	N/A	N/A	N/A
	Display	1 x HDMI (optional)	1 x HDMI (optional)	1 x HDMI (optional)	1 x VGA (Pin header)
TPM		N/A	Yes	Yes	Yes
IPMI		N/A	N/A	N/A	N/A
Watchdog		255 stepping for system reset	255 stepping for system reset 8 stepping for LAN Bypass	255 stepping for system reset 8 stepping for LAN Bypass	255 stepping for system reset 8 stepping for LAN Bypass
Power Supply	Power Type	Adapter	Adapter	Adapter	Adapter
	Watts	36W	36W	60W	60W
	Input	100 to 240 Vac	100 to 240 Vac	100 to 240 Vac	100 to 240 Vac
	Connector	DC-Jack w/Screw Type	DC-Jack w/Screw Type	DC-Jack	DC-Jack
Expansion Interface		1 x M.2 Key B 2242 1 x Full-size Mini-PCIe slot (PCIe/USB)	1 x Half-size Mini-PCIe slot (SATA/USB) 1 x Half-size Mini-PCIe slot (SATA/USB) (PCIe optional, co-layout with Eth4) 1 x Nano SIM slot	1 x PCI Express Mini Card slot with USB interface	1 x PCI Express Mini Card slot (USB interface)
Environment	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)
	Storage Temperature	-20°C to +70°C (-4°F to +158°F)	-20°C to +70°C (-4°F to +158°F)	-20°C to +70°C (-4°F to +158°F)	-20°C to +70°C (-4°F to +158°F)
	Humidity	10% - 95% RH, non-condensing	10% - 95% RH, non-condensing	10% - 95% RH, non-condensing	10% - 95% RH, non-condensing
Mechanical	Construction	Aluminum	Aluminum	Steel	Steel
	Dimensions (W x H x D)	26 x 146 x 118.2 mm (1.24" x 5.57" x 4.65")	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 5.98")	44 x 231.9 x 152 mm (1.73" x 9" x 5.98")
	Weight (net/gross)	0.284 kg (0.63 lb) / 0.786 kg (1.73 lb)	0.62 kg (1.37 lb)/1.3 kg (2.87 lb)	2.35 kg (5.18 lb)/2.61 kg (5.75 lb)	2.5 kg (5.51 lb)/2.9 kg (6.39 lb)
OS Support		Win 10, Yocto, Linux	Win 10, Yocto, Linux	Win 10, Linux	Win7, WES7, Win8, WE8S, Linux
Certifications		CE/FCC Class B	CE/FCC Class B	CE/FCC Class B	CE/FCC Class B

SOHO Network Appliances

Selection Guide

Models	NA363	NA362	NA361
Form Factor	1U Desktop	1U Desktop	1U Desktop
Platform — Processor	Intel® Atom® C3758 (Denverton)	Intel® Atom® C3338/C3558/C3758	Intel® Atom® C2358 (2-core) (Rangeley)
Platform — Chipset	SoC integrated	SoC integrated	SoC integrated
Platform — Acceleration Technology	Intel® QAT	Intel® QAT	Intel® QAT
BIOS	AMI SPI Flash BIOS	AMI SPI Flash BIOS	AMI SPI Flash BIOS
Memory — Technology	DDR4-2400	DDR4-2400	DDR3-1600
Memory — Max. Capacity	64GB (U-DIMM) 128GB (R-DIMM)	64GB (U-DIMM) 128GB (R-DIMM)	16GB
Memory — Socket	4 x 288-pin R-DIMM/U-DIMM	2 x 288-pin R-DIMM/U-DIMM (C3338) 4 x 288-pin R-DIMM/U-DIMM (C3558/C3758)	4 x 240-pin U-DIMM
Memory — ECC Support	Non-ECC/ECC	Non-ECC/ECC	Non-ECC/ECC
Network Interface — Ethernet (default)	6 x 10/100/1000 Mbps	6 x 10/100/1000 Mbps 2 x 10GbE SFP+ (C3558) 4 x 10GbE SFP+ (C3758)	6 x 10/100/1000 Mbps
Network Interface — Ethernet (max.)	6 x 10/100/1000 Mbps	6 x 10/100/1000 Mbps 4 x 10GbE SFP+	6 x 10/100/1000 Mbps
Network Interface — LAN Bypass	1 pair (optional)	1 pair (optional)	1 pair (optional)
Network Interface — Controllers	Intel® i210	Intel® i210	Intel® i347 & Intel® i210
Network Interface — LAN Module	N/A	N/A	N/A
Storage — HDD/SSD	1 x 2.5" HDD	1 x 2.5" HDD	1 x 2.5" HDD
Storage — M.2 SSD	N/A	N/A	N/A
Storage — mSATA/CF/CFast	1 x Full-Size mSATA	1 x Full-Size mSATA	1 x CompactFlash™
I/O — Button	Power Switch	1 x Power Switch 1 x Reset Button	Power Switch
I/O — LED Indicator	Power, HDD, GPIO programmable, LAN Bypass, Link/Act with transfer rate	Power, HDD, GPIO programmable, LAN Bypass, Link/Act with transfer rate	Power, HDD, GPIO programmable, LAN Bypass, Link/Act with transfer rate
I/O — USB	2 x USB 2.0	2 x USB 2.0	2 x USB 2.0
I/O — Console	1 x Console (RJ-type)	1 x Console (RJ-type)	1 x Console (RJ-type)
I/O — LCM Module	N/A	N/A	N/A
I/O — Display	N/A	N/A	N/A
TPM	Yes	Yes	Yes
IPMI	N/A	N/A	N/A
Watchdog	255 stepping for system reset 8 stepping for LAN Bypass	255 stepping for system reset 8 stepping for LAN Bypass	255 stepping for system reset 8 stepping for LAN Bypass
Power Supply — Power Type	Adapter	Adapter	Adapter
Power Supply — Watts	60W	60W/84W	60W
Power Supply — Input	100 to 240Vac	100 to 240Vac	100 to 240Vac
Power Supply — Connector	DC-Jack	DC-Jack	DC-Jack
Expansion Interface	1 x Full-size Mini-PCIe slot (USB+SATA) 1 x Full-size Mini-PCIe slot (USB+PCIe)	1 x Full-size Mini-PCIe slot (USB+SATA) 1 x Full-size Mini-PCIe slot (USB+PCIe)	1 x PCIe Mini Card slot (USB)
Environment — 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)
Environment — Storage Temperature	-20°C to +70°C (-4°F to +158°F)	-20°C to +70°C (-4°F to +158°F)	-20°C to +70°C (-4°F to +158°F)
Environment — Humidity	10% - 95% RH, non-condensing	10% - 95% RH, non-condensing	10% - 95% RH, non-condensing
Mechanical — Construction	Steel	Steel	Steel
Mechanical — Dimensions (W x H 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")
Mechanical — Weight (net/gross)	1.64 kg (3.62 lb)/2.69 kg (5.93 lb)	1.64 kg (3.62 lb)/2.54 kg (5.60 lb) (C3338/C3558) 1.64 kg (3.62 lb)/2.69 kg (5.93 lb) (C3758)	2.35 kg (5.18 lb)/2.61 kg (5.75 lb)
OS Support	Yocto, Linux	Yocto, Linux	Yocto, Linux
Certifications	CE/FCC Class B	CE/FCC Class B	CE/FCC Class B

NA347 `NEW`

Fanless Ultra Compact Network Appliance with Intel® Celeron® Processor N3350 and up to 3 LAN for Entry Level SD-WAN, VPN and Security Gateway

Features

- Intel® Celeron® processor N3350 (Apollo Lake)
- 1 DDR3L-1866 SO-DIMM for up to 8GB of non-ECC memory
- 3 GbE RJ-45 ports (Intel® i211)
- 1 mini-PCIe slot for Wi-Fi or LTE module
- M.2 Key B 2242
- Small form factor with fanless and noiseless design
- Suitable for SD-WAN, VPN and IoT security gateway applications

Power Button w/ LED
HDMI

▲ Front view

Antenna Hole   1GbE RJ-45   USB 3.0

Screw Type DC Jack

Antenna Hole
Antenna Hole   Antenna Hole   Console   ▲ Rear view

| Low Power | IEC 62368-1 | Fanless | M.2 | LAN Bypass |

Specifications

System

CPU	Intel® Celeron® processor N3350, 2 Core, 1.10 GHz (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 M.2 2242 Key B slot (SATA)
Network Interface	3 x GbE RJ-45 (Intel® i211)
I/O	1 x Console (RJ-type) 3 x RJ-45 2 x USB 3.0 1 x HDMI 1 x DC Jack (Screw type) 1 x Power Button with LED
Other Features	LAN Bypass (optional)
Expansion Interface	1 x Full-size Mini-PCIe slot (PCIe/USB signal) 1 x Nano SIM Socket
Watchdog Timer	255 stepping for system reset
Power Supply	12V, 3A power adapter
OS Compatibility	Win 10, Linux (Yocto project)

Mechanical/ Environmental

Form Factor	Desktop, small form factor and fanless
Operating Temperature	0°C to +40°C (+32°F to +104°F)
Humidity	10% - 90% RH, non-condensing
Chassis Material	Aluminum
Dimensions	26 mm (1.24") (H) x 146 mm (5.57") (W) x 118.2 mm (4.65") (D)
Weight (net/gross)	0.284 kg (0.63 lb) / 0.786 kg (1.73 lb)
Certifications	CE/FCC Class B
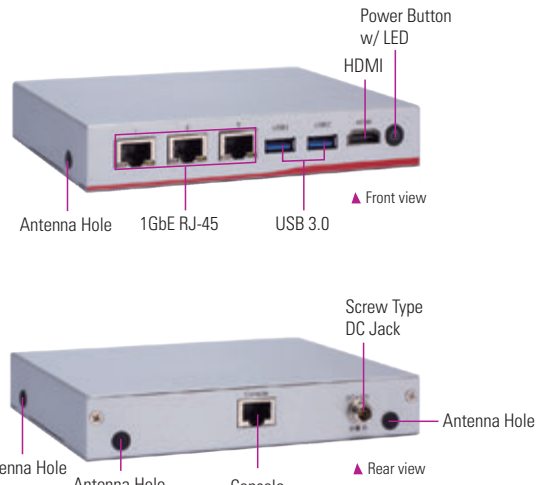
Ordering Information

Standard

NA347-D3GI-N3350 (P/N: E26E347100)	SFF fanless network appliance with Intel® Celeron® processor N3350

Optional

5916E552000E	DB9F-RJ-45 1.8M console cable for Cisco
59902000030E	Power Cord - US
59903000080E	Power Cord - EU
59910050000E	Power Cord - JP
59904000050E	Power Cord - UK
M.2 2242 SSD	
DDR3L SO-DIMM	
Wireless Module	
Rack mount kit	
Wall mount kit	

* Specifications and certifications may vary contingent on options.

Dimensions

118.20

146.00   26.00
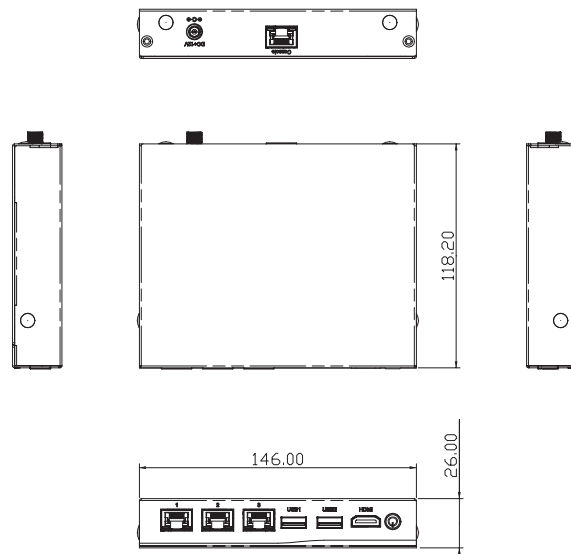
NA346

Fanless Ultra Compact Network Appliance with Intel® Celeron® Processor N3350
and up to 4 LAN for Entry Level SD-WAN, VPN and Security Gateway

Features

- Small form factor with fanless and noiseless design
- Intel® Celeron® processor N3350 (Apollo Lake)
- 1 DDR3L-1866 SO-DIMM for up to 8GB of memory
- 4 GbE RJ-45 ports (Intel® i211)
- 2 mini-PCIe slot for mSATA (optional)
- 1 mini-PCIe slot for WiFi or LTE module
- Suitable for IoT security applications
- Microsoft Azure IoT Edge certified

GPIO
Status LED
Reset/GPIO
HDMI
4 x LAN
USB 3.0
▲ Front view

Console
DC jack
▲ Rear view

Microsoft Azure
Certified

Low Power	TPM	LAN Bypass	IEC 62368-1	mSATA	Fanless

Specifications

System

CPU	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 Full-size mSATA 1 x Half-size mSATA
Network Interface	4 x GbE RJ-45 (Intel® i211)
I/O	1 x Console (RJ-type) 4 x RJ-45 2 x USB 3.0 1 x HDMI
TPM	Onboard TPM 2.0 (optional)
Other Features	LAN Bypass (optional)
Expansion Interface	1 x Half-size mini-PCIe slot (SATA+USB) 1 x Full-size mini-PCIe slot (SATA/PCIe, PCIe co-layout with Eth4) 1 x Nano SIM Socket
Watchdog Timer	255 stepping for system reset
Power Supply	1 x 12V, 3A power adapter
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% - 90% 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)	0.62 kg (1.37 lb)/1.3 kg (2.87 lb)
Certifications	CE/FCC Class B
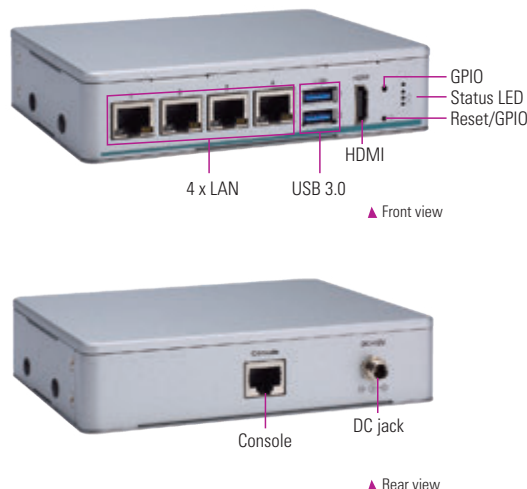
Ordering Information

Standard

NA346-D4G-N3350-US w/o LBP (P/N: E26E346100)	SFF fanless network appliance with Intel® Celeron® processor N3350 and 4 GbE LAN

Optional

5916E552000E	DB9F-RJ-45 1.8M console cable for Cisco
59902000030E	Power Cord - US
59903000080E	Power Cord - EU
59910050000E	Power Cord - JP
59904000050E	Power Cord - UK
mSATA SSD	
DDR3L SO-DIMM	
Wireless Module	
Rack mount kit	

* Specifications and certifications may vary contingent on options.

Dimensions

146.00
118.20
33.50
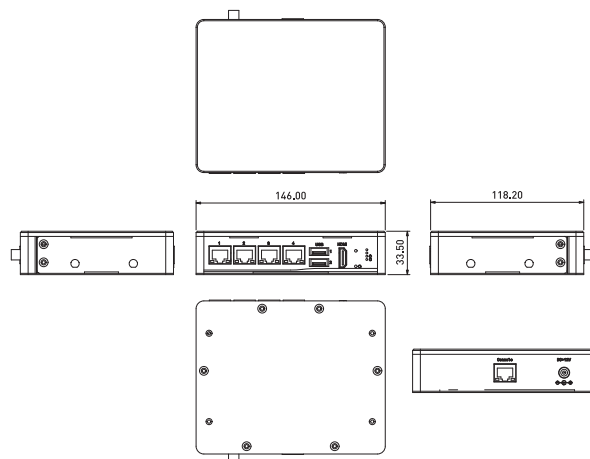
NA345

Desktop Network Appliance Platform with Intel® Celeron® N3350/J3455 up to 4 LAN
for VPN, Network Bandwidth Controller and Firewall

Features

- Intel® Celeron® processor N3350/J3455 (Apollo Lake)
- 1 DDR3L-1866 SO-DIMM for up to 8GB of memory
- 4 GbE RJ-45 ports (Intel® i211)
- 1 mini-PCIe slot for mSATA for optional
- 2 mini-PCIe slot for WiFi and LTE module
- Suitable for VPN, network bandwidth controller and firewall applications

HDD LED
Power LED
LAN LED
Bypass LED
Programmable LED
▲ Front view

Power switch
DC jack
USB 3.0
Console
HDMI
4 x LAN
▲ Rear view

Supports Intel Atom inside | Low Power | TPM | LAN Bypass | IEC 62368-1 | mSATA

Specifications

System

CPU	Intel® Celeron® processor N3350/J3455 (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 Full-size mSATA
Network Interface	4 x GbE RJ-45 (Intel® i211, 6 ports by request)
I/O	1 x Console (RJ-type) 2 x USB 3.0 4 x RJ-45 1 x HDMI (optional)
TPM	Onboard TPM 1.2 (optional)
Other Features	LAN Bypass function through latch relay (two pairs) for optional
Expansion Interface	1 x Full-size mini-PCIe slot (SATA+USB) 1 x Half-size mini-PCIe slot (USB+PCIe) 1 x Full-size mini-PCIe slot (USB+PCIe) 1 x Standard SIM Socket
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	CE/FCC Class B

Ordering Information

Standard

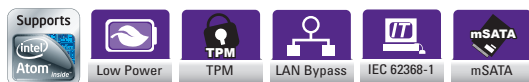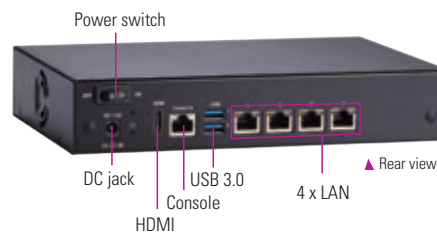|	
NA345-D4GI-N3350-US w/o LBP (P/N: E26E345100)	1U desktop network appliance with Intel® Celeron® processor N3350 and 4 GbE LAN
NA345-D4GI-J3455-US w/o LBP (P/N: E26E345107)	1U desktop network appliance with Intel® Celeron® processor J3455 and 4 GbE LAN

Optional

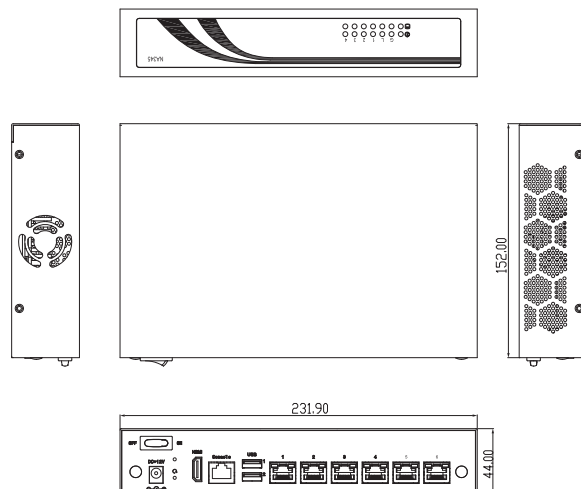|	
5916E552000E	DB9F-RJ-45 1.8M console cable for Cisco

* Specifications and certifications may vary based on different requirements.

Packing List

1 x DC power adapter 12V/5A
1 x Power cord
1 x SATA cable

Dimensions

231.90

152.00

44.00

NA342

Desktop Network Appliance Platform with Intel® Celeron® Processor J1900
and 4 LAN for VPN, Network Bandwidth Controller and Firewall

Features

- Intel® Celeron® processor J1900 (Bay Trail)
- 1 DDR3L-1333 SO-DIMM for up to 8GB of memory
- 4 GbE RJ-45 ports (Intel® i211)
- Wi-Fi/3G/LTE through PCI Express Mini Card slot for optional
- Suitable for VPN, network bandwidth controller and firewall applications

LAN LED
Power LED
Bypass LED
Programmable LED
HDD LED
▲ Front view

Power switch
DC jack
USB 2.0 & 3.0
Console
4 x LAN
▲ Rear view

Supports Intel Atom inside | Low Power | TPM | LAN Bypass | IEC 62368-1

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 RJ-45 (Intel® i211, 6 ports by optional)
I/O	1 x Console (RJ-type) 1 x USB 2.0 1 x USB 3.0 4 x RJ-45
TPM	Onboard TPM 1.2 (optional)
Other Features	LAN Bypass function through latch relay (two pairs) for optional
Expansion Interface	1 x Full-size Mini-PCIe slot (USB)
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	CE/FCC Class B
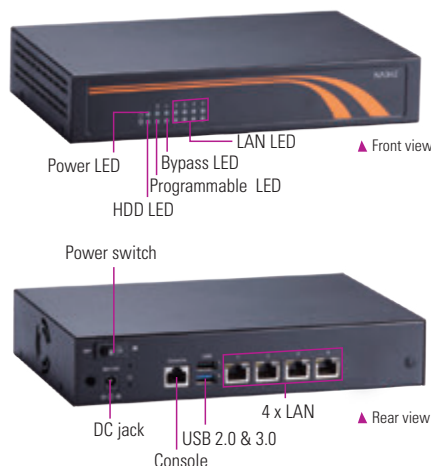
Ordering Information

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

231.90

152.00

44.00

NA363

Desktop Network Appliance Platform with Intel® Atom® Processor C3758 and up to 6 LAN for VPN, Network Bandwidth Controller, Firewall and UTM

Features

- Intel® Atom® processor C3758 (Denverton)
- 4 DDR4 R-DIMM for up to 128GB of memory or U-DIMM for up to 64GB of memory
- 6 GbE RJ-45 ports (Intel® i210)
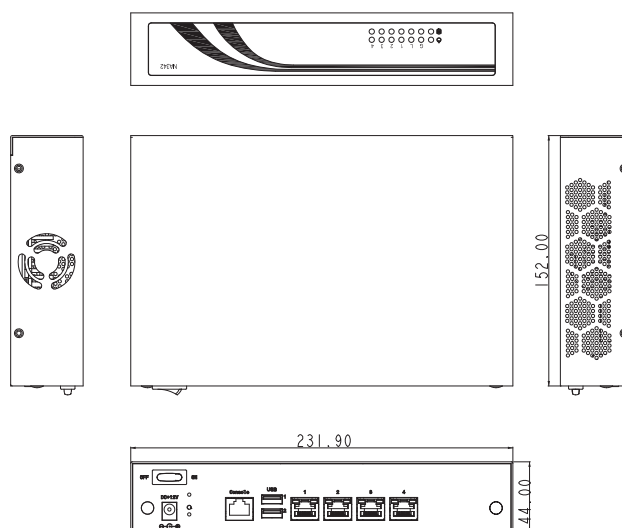- Wi-Fi/3G/LTE through PCI Express Mini Card slot for optional
- Supports Intel® QuickAssist Technology
- Supports Intel® Data Plane Development Kit (Intel® DPDK)
- Suitable for VPN, network bandwidth controller, firewall and UTM applications

Power LED | LAN LED | ▲ Front view
Bypass LED
Programmable LED
HDD LED

DC jack | 6 x LAN | USB 2.0 | Console
Power switch | ▲ Rear view

Supports Intel Atom inside | Low Power | TPM | LAN Bypass | IEC 62368-1 | mSATA | DDR4

Specifications

System

CPU	Intel® Atom® processor C3758 (Denverton)
Chipset	SoC integrated
Memory	4 x DDR4 R-DIMM, up to 128GB/4 x DDR4 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 Full-size mSATA
Network Interface	6 x GbE RJ-45 (Intel® i210)
I/O	1 x Console (RJ-type) 1 x VGA (from AX93329) 2 x USB 2.0 6 x RJ-45
TPM	Onboard TPM 1.2 (optional)
Other Features	LAN Bypass function through latch relay (two pairs)
Expansion Interface	1 x Full-size Mini-PCIe slot (SATA+USB)
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)
Certifications	CE/FCC Class B

Ordering Information

Standard

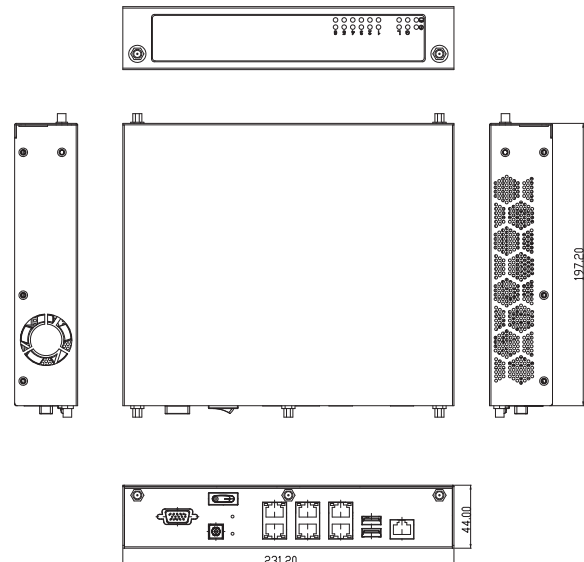|	
NA363-D6GI-C3758-US w/ LBP	1U compact network appliance with Intel® Atom® processor C3758, 4 R-DIMM/U-DIMM and 6 GbE LAN

Optional

5916E552000E	DB9F-RJ-45 1.8M console cable for Cisco

* Specifications and certifications may vary based on different requirements.

Packing List

1 x DC power adapter or 12V/7A
1 x Power cord
1 x SATA cable

Dimensions

NA362

Desktop Network Appliance Platform with Intel® Atom® Processor C3338/C3558/C3758 and up to 10 LAN for VPN, Network Bandwidth Controller, Firewall and UTM

Features

- Intel® Atom® processor C3338/C3558/C3758 (Denverton)
- 4 DDR4 R-DIMM for up to 128GB of memory or U-DIMM for up to 64GB of memory
- 6 GbE RJ-45 and 4 SFP+ ports (Intel® i210)
- 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 | IEC 62368-1 | mSATA | DDR4

▲ Front view

10GbE LED | 1GbE LED | HDD LED | Bypass LED | Programmable LED | Power LED

Power switch | Console | DC jack | 10GbE SFP+ | 6 x LAN | USB 2.0

▲ Rear view

Specifications

System

CPU	Intel® Atom® processor C3338/C3558/C3758 (Denverton)
Chipset	SoC integrated
Memory	4 x DDR4 R-DIMM, up to 128GB/4 x DDR4 U-DIMM, up to 64GB non-buffer non-ECC/ECC memory (Atom® C3558/C3758) 2 x DDR4 R-DIMM, up to 64GB/4 x DDR4 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 Full-size mSATA
Network Interface	6 x GbE RJ-45 (Intel® i210) (C3338) 6 x GbE RJ-45 (Intel® i210) and 2 x SFP+ (C3558) 6 x GbE RJ-45 (Intel® i210) and 4 x SFP+ (C3758)
I/O	1 x Console (RJ-type) 2 x USB 2.0 6 x RJ-45 2 x SFP+ or 4 x SFP+
TPM	Onboard TPM 1.2 (optional)
Other Features	LAN Bypass function through latch relay (one pair) for optional
Expansion Interface	1 x Full-size Mini-PCIe slot (USB+PCIe)
Watchdog Timer	255 stepping for system reset 8 stepping for LAN Bypass
Power Supply	1 x 12V, 5A power adapter (C3338/C3558) 1 x 12V, 7A power adapter (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 (C3338/C3558) 1.64 kg (3.62 lb)/2.69 kg (5.93 lb) with 12V/7A adapter (C3758)
Certifications	CE/FCC Class B

Packing List

1 x DC power adapter 12V/5A or 12V/7A
1 x Power cord
1 x SATA cable
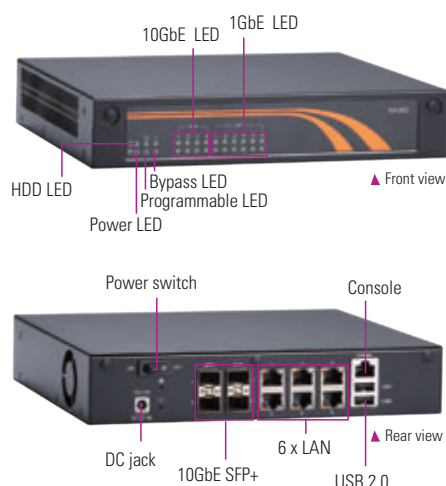
Ordering Information

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 LANs
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 LANs
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 LANs 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 LANs 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

197.20±1.00

44.00±1.00

231.20±1.00
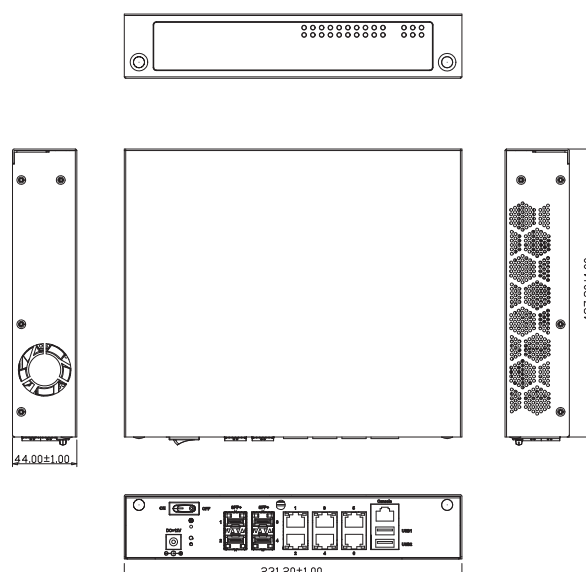
NA361

Desktop Network Appliance Platform with Intel® Atom® Processor C2358
and 6 LAN for VPN, Network Bandwidth Controller, Firewall and UTM

Features

- Intel® Atom® processor C2358 (Rangeley)
- 2 DDR3-1600 U-DIMM for up to 16GB of memory
- 6 GbE RJ-45 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

Power LED
HDD LED
Bypass LED
Programmable LED
LAN LED
▲ Front view

DC jack
Power switch
6 x LAN
USB 2.0
Console
▲ Rear view

| Supports Intel Atom inside | Low Power | TPM | LAN Bypass | IEC 62368-1 |

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 Full-size mSATA (optional) 1 x CFast™ (optional)
Network Interface	6 x GbE RJ-45 (Intel® i354 & Intel® i210) 4 x GbE RJ-45 + 2 x GbE SFP (optional)
I/O	1 x Console (RJ-type) 2 x USB 2.0 6 x RJ-45
TPM	TPM 1.2 module (optional)
Other Features	LAN Bypass function through latch relay (two pairs) for optional
Expansion Interface	1 x Full-size mini-PCIe slot (USB+PCIe)
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	CE/FCC 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

197

44.00

231

3
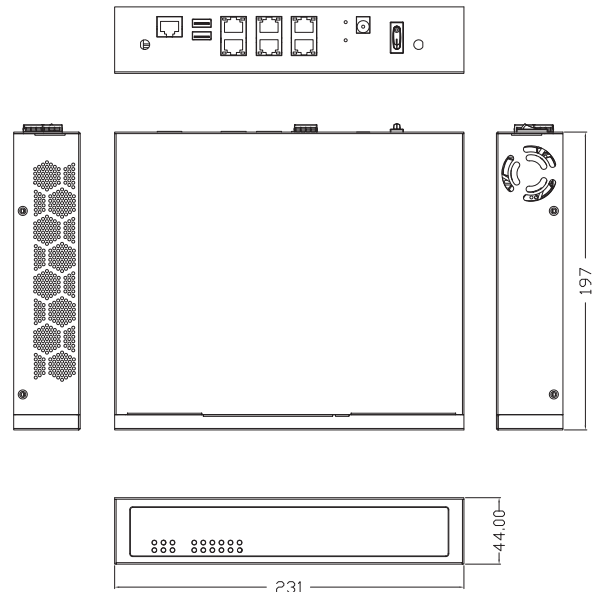
DIN-rail Network Appliances

Axiomtek's DIN-rail network appliance series is a highly scalable and rugged hardware solution for critical infrastructure in harsh industrial environments. It has a DIN-rail form factor for fast installation, a wide operating temperature range for industrial-grade requirements and abundant I/O interfaces to connect to industrial control systems and equipment.

Network Appliances

Edge Server Platforms

Selection Guide

Features \ Models		iNA100	iNA600
Form Factor		DIN-Rail, Wall Mount (optional)	DIN-Rail
Processor		Intel® Atom® x5-E3930 processor (Apollo Lake)	LGA1151 Intel® Xeon® (Coffee Lake)
Chipset		SoC integrated	Intel® C246
BIOS		AMI SPI Flash BIOS	AMI SPI Flash BIOS
Memory	Technology	DDR3L-1866	DDR4-2600
	Max Capacity	8GB non-ECC/ECC	32GB non-ECC/ECC
	Socket	1 x 204 pin SO-DIMM	2 x 288 pin U-DIMM
Network Interface	Switch	N/A	Up to 16 port managed switch
	Ethernet	4 x 10/100/1000 Mbps	4 x 10/100/1000 Mbps (1-port share with IPMI) Optional 16 x 10/100/1000 Mbps (L2 managed switch)
Storage		1 x mSATA 1 x 2.5" SSD /HDD	2 x 2.5" SSD 1 x SATA DOM
I/O	Serial	1 x RS-232 1 x RS-232/422/485	1 x RS-232 1 x RS-232/422/485
	USB	2 x USB 3.0	2 x USB 3.0
	Management	N/A	N/A
	Display	1 x HDMI	1 x HDMI and 1 x VGA for Win 10 1 x HDMI or 1x VGA for Linux
Expansion Interface		1 x Half-size PCIe Mini Card slot with SATA/USB signal 1 x Full-size PCIe Mini Card slot with USB signal	1 x Full-size PCIe Mini Card slot with USB /PCIe signal 2 x PCIe slot for riser card expansion
IPMI		N/A	IPMI 2.0
TPM		TPM 2.0	TPM 2.0
Fanless		Yes	Yes
Power Supply		12 VDC	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		Win 10, Linux	Win 10, Linux
Dimensions (H x W x D)		150 x 54 x 120 mm (5.9" x 2.13" x 4.72")	176 x 214 x 265 mm (6.93" x8.43" x10.43")
Certifications		CE/FCC class B	CE/FCC

iNA100 `NEW`

DIN-Rail Industrial-grade Network Appliance Platform with Intel® Atom® x5-E3930 Processor and 4 LAN

Features

- DIN-rail design with fanless and noiseless design
- Intel® Atom® x5-E3930 processor (Apollo Lake)
- One DDR3L-1866 SO-DIMM for up to 8GB of memory
- Four GbE RJ-45 (Intel® i211)
- PCI Express Mini Card slot for wireless module
- Supports 2 COM, 4 GbE LAN, 2 USB 3.0 and 1 HDMI
- Suitable ICS cybersecurity/critical infrastructure protection


Power DC-in 12V

2 x COM

4 x GbE LAN

2 x USB 3.0

1 x HDMI

2 x Tact switch

LED indicators (HDD, Power, LAN Bypass, GPO)

Supports Intel Atom inside	Low Power	TPM	LAN Bypass	mSATA	Fanless

Specifications

System

CPU	Intel® Atom® x5-E3930 processor (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 Half-size mSATA (occupied 1 x PCI Express Mini Card slot) 1 x Internal 2.5" SATA drive (9.5 mm height)
Network Interface	4 x GbE RJ-45 (Intel® i211)
I/O	2 x DB9 serial port (COM1 supports RS-232, COM2 supports RS-232/422/485) 4 x RJ-45 2 x USB 3.0 1 x HDMI 2 x Tact switch (1 x reset button, 1 x GPI button)
Other Features	LAN Bypass (one pair)
Expansion Interface	1 x Half-size PCIe Mini Card slot with SATA/USB signal 1 x Full-size PCIe Mini Card slot with USB signal
TPM	TPM 2.0
Watchdog Timer	255 stepping for system reset
Power Supply	1 x 2-pin terminal block 12V
OS Compatibility	Win 10, Linux (Yocto project)

Mechanical/ Environmental

Form Factor	DIN-rail, Wall mount (optional)
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% - 95% RH, non-condensing
Chassis Material	Aluminum and steel
Dimensions	150 mm (5.9") (H) x 120 mm (4.72") (D) x 54 mm (2.13") (W)
Weight (net/gross)	1.1kg (2.43 lb)/2.0kg (4.41 lb)
Certifications	FCC class B/CE class B
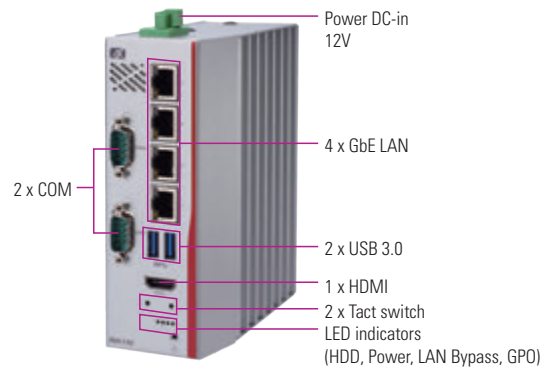
Ordering Information
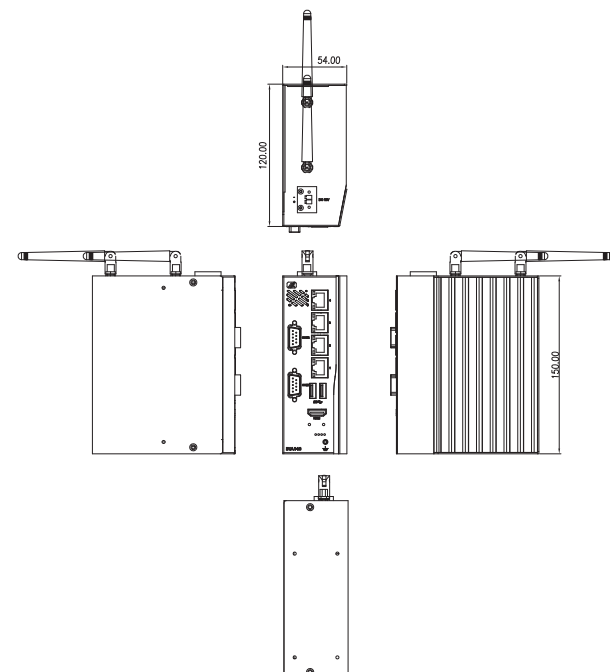
Standard

iNA100-D4GI-E3930-US (P/N: E27B140100)	DIN-rail industrial-grade network appliance platform with Intel® Atom® x5-E3930 processor and 4 GbE LAN

Optional

2.5" SATA SSD or HDD
DDR3L SO-DIMM
mSATA
Wall mount kits
Wi-Fi Module
3G/LTE Module
12V, 60W adapter
Power Cord

* Specifications and certifications may vary contingent on options.

Dimensions

iNA600

DIN-Rail Industrial-grade Network Appliance with Intel® Core™ i9/i7/i5/i3 & Xeon® Processor and Optional 16-port L2 Managed Switch

Features

- Intel® Core™ i9/i7/i5/i3 & Xeon® processor (Coffee Lake)
- 2 DDR4-2666 U-DIMM for up to 32GB of memory
- 16 ports L2 managed switch (8 port PoE for optional)
- Supports IPMI 2.0 remote management
- Module design for flexible and fast provision
- Supports NVIDIA® MXM GPU card (optional)
- Supports Intel® Movidius™ M.2 VPU card (optional)
- For edge AI inference, IIoT security and function virtualization
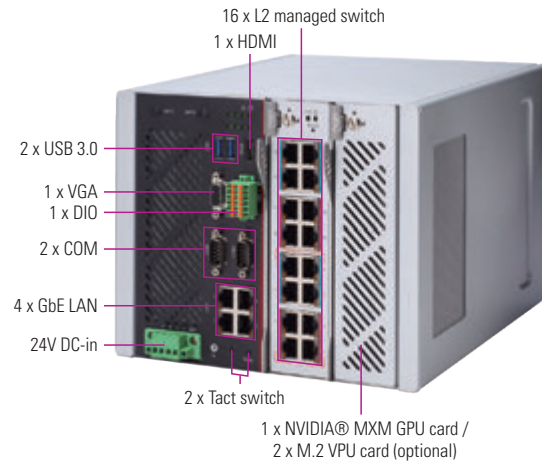
16 x L2 managed switch
1 x HDMI
2 x USB 3.0
1 x VGA
1 x DIO
2 x COM
4 x GbE LAN
24V DC-in
2 x Tact switch
1 x NVIDIA® MXM GPU card / 2 x M.2 VPU card (optional)

| IPMI | TPM | DDR4 | Switching | SSD | AI Inference |

Specifications

System

CPU	LGA1151 socket 8th Intel® Core™ i9/i7/i5/i3 & Xeon® (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 GbE RJ-45 (Intel® i350) (1-port share with IPMI) 1 x LAN module (optional), max. up to 16 LAN ports
I/O	1 x VGA and 1 x HDMI for Win10 (duplicate the display) 1 x VGA or 1 x HDMI for Linux 2 x USB 3.0 2 x COM port COM1 supports RS-232 and COM2 supports RS-232/422/485 2 x Tact switch 2 x Antenna hole 1 x Power input connector 8 x DIO (4-in/4-out) 4 x RJ-45 16 x RJ-45 (optional)
Expansion Interface	1 x PCIe Mini Card slot (USB + PCIe interface) 1 x PCIe x8 MXM slot for GPU card (optional) 2 x PCIe x4 M.2 or mPCIe slot for VPU (optional)
TPM	TPM2.0
IPMI	1 x IPMI 2.0 (optional)
Watchdog Timer	255 stepping for system reset
Power Supply	1 x 4-pin terminal block 24V
OS Compatibility	Win 10, Linux

Mechanical/ Environmental

Form Factor	DIN-rail
LED	8 x LED (Power, HDD, GPOx6)
Operating Temperature	-20°C to +60°C (-4°F to +140°F)
Humidity	10% to 95% RH, non-condensing
Chassis Material	Steel
Dimensions	214 mm (8.42") (W) x 265 mm (10.43") (D) x 176 mm (6.93") (H)
Weight (net/gross)	8kg (17.64 lb)/10kg (22.05 lb)
Certifications	CE

Ordering Information

Standard

iNA600-D4GI-C246 (P/N: E27B600100)	DIN-rail industrial-grade network appliance with Intel® Core™ i9/i7/i5/i3 & Xeon® processor and optional 16-port L2 managed switch

Dimensions

265.00
214.00
176.00
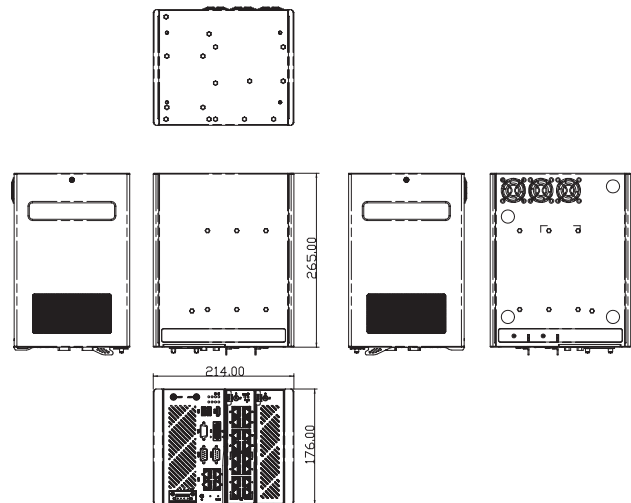
4

LAN Modules

Axiomtek provides various LAN modules for network appliances, such as GbE copper module, GbE fiber module, 10GbE copper module, 10GbE fiber module and more.

Network Appliances

Add-on Card

	Module	LAN Chipset	Ports	Copper/Fiber (SFP)	LAN Bypass
1G	AX93316-8GIL	Intel® 82580EB	8	8/0	4
	AX93326-8GIL	Intel® i210	8	8/0	4
	AX93316-8GI	Intel® 82580EB	8	8/0	0
	AX93322-8MIL	Intel® 82580EB	8	4/4	2
	AX93322-8FI	Intel® 82580EB	8	0/8	0
	AX93336-4GIL	Intel® i350	4	4/0	2
	AX93336-4GI	Intel® i211	4	4/0	0
	AX93336-4FI	Intel® i350	4	0/4	0
	Module	**LAN Chipset**	**Ports**	**Copper/Fiber (SFP)**	**LAN Bypass**
10G	AX93316-8GIL	Intel® XL710	4	0/4	0
	AX93326-8GIL	Intel® 82599ES	2	0/2	0
	AX93316-8GI	Intel® 82599ES	2	0/2	1
	AX93322-8MIL	Intel® X540	2	2/0	1
25G	**Module**	**LAN Chipset**	**Ports**	**Copper/Fiber (SFP)**	**LAN Bypass**
	AX93332-25FI	Intel® XXV710	2	0/2	0
40G	**Module**	**LAN Chipset**	**Ports**	**Copper/Fiber (SFP)**	**LAN Bypass**
	AX93331-2QFI	Intel® XL710	2	0/2	0
100G	**Module**	**LAN Chipset**	**Ports**	**Copper/Fiber (SFP)**	**LAN Bypass**
	AX93357	Intel® E810	2	0/2	0
	AX93358	Intel® E810	2	0/2	0

100Gbps Modules

PCIe Card - AX93357

- Intel® Ethernet Controller E810
- 2 x 100GbE QSFP28 Cages
- Enhanced DPDK for Network Functions

NIC Module - AX93358

- Intel® Ethernet Controller E810
- 2 x 100GbE QSFP28 Cages
- Enhanced DPDK for Network Functions

PoE Modules

4-port PoE Module - AX93367

- Intel® Ethernet Controller i350
- IEEE 802.3af/at
- 4 x PoE RJ45 ports
- Supports max up to 120W
- By Project

8-port PoE Module - AX93368

- Intel® Ethernet Controller i350
- IEEE 802.3af/at
- 8 x PoE RJ45 ports
- Supports 30W per port max up to 240W
- By Project

RAID Module

AX98626

- ASMEDIA ASM1062R
- Raid function: 0/1
- 2 x 2.5 HDD/SSD bracket

AX93357 NEW

Dual-Port 100 Gb/s QSFP28 Ethernet Module

Features

- Supports multiple port speeds with a single architecture: 100/50/25/10/1GbE
- Intel® Ethernet Adaptive Virtual Function (Intel® Ethernet AVF)
- Enhanced server virtualization: 256 VFs, 768 VSIs
- Enhanced Data Plane Development Kit (DPDK)
- Suitable for data centers or cloud computing

Specifications

Basic

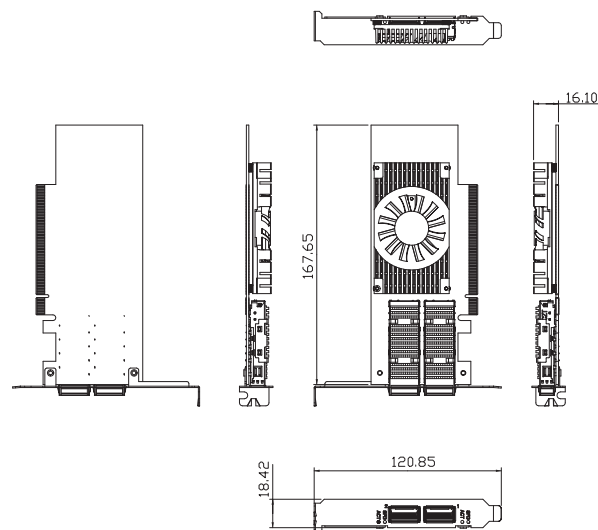|	
Controller	Intel® E810-CAM2
Speed/Connector	2 x QSFP28
Interface	PCI Express 3.0/4.0 x16
Compatibility	NA870

Features

LAN Bypass	N/A
Jumbo Frames	Yes
Virtualization Features	SR-IOV with up to 256 Virtual Functions (VF)
LED Definition	Green

Mechanical / Environmental

Cooling	Locking heatsink with fan
Operating Temperature	0°C to +40°C (+32°C to +140°C)
Humidity	10% - 90% RH, non-condensing
Dimensions	167.54 mm (W) x 120.05 mm (D) x 18.4 2mm (H)

Ordering Information

Standard

AX93357 (P/N: E393357100)	Dual-Port 100 Gb/s QSFP28 module with Intel® E810

Dimensions

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AX93358 NEW

Dual-Port 100 Gb/s Ethernet (QSFP28) Module with Intel® E810

Features

- Supports multiple port speeds with a single architecture: 100/50/25/10/1GbE
- Intel® Ethernet Adaptive Virtual Function (Intel® Ethernet AVF)
- Enhanced server virtualization: 256 VFs, 768 VSIs
- Enhanced Data Plane Development Kit (DPDK)
- Suitable for data centers or cloud computing

Specifications

Basic

Controller	Intel® E810-CAM2
Speed/Connector	2 x QSFP28
Interface	2 x Gen 3 PCIe x8 (Double slot width)
Compatibility	NA870

Features

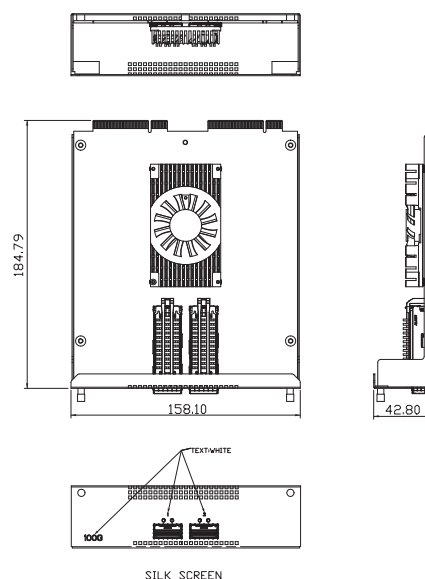|	
LAN Bypass	N/A
Jumbo Frames	Yes
Virtualization Features	SR-IOV with up to 256 Virtual Functions (VF)
LED Definition	Green

Mechanical / Environmental

Cooling	Locking heatsink with fan
Operating Temperature	0°C to +40°C (+32°F to +140°F)
Humidity	10% - 90% RH, non-condensing
Dimensions	158.10 mm (W) x 184.78 mm (D) x 42.80 mm (H)

Ordering Information

Standard

AX93358 (P/N: E393358100)	Dual-Port 100 Gb/s QSFP28 module with Intel E810, double width LAN tray

Dimensions

184.79

158.10

42.80

TEXT:WHITE

1000

SILK SCREEN

NOTES

Manchester, **United Kingdom**

Langenfeld, **Germany**

Italy

Las Vegas, **USA**

California, **USA**

Massachusetts, **USA**

Beijing, **China**

Shanghai, **China**

Shenzhen, **China**

Tokyo, **Japan**

Taipei, Taiwan
(Headquarters)

Thailand

Malaysia

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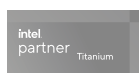Manchester, M2 5WQ, UK

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