



2020

PRODUCT Solution Guide

EMBEDDED BOARD & SOM
INDUSTRIAL & EMBEDDED COMPUTER
TOUCH PANEL COMPUTER
NETWORK APPLIANCE

www.axiomtek.com



Table of Contents

Boards and Modules

System on Modules	7
3.5" Embedded Boards	9
Pico-ITX SBCs	11
Mini-ITX Motherboards	13
ATX Motherboards	15
Micro ATX Motherboard	18
PICMG 1.3 Full-size CPU Cards	19
PICMG 1.3 Half-size CPU Card	20
ARM-based Embedded Boards	21
Smart Display Modules	22
I/O Board for Pico-ITX Boards	23
PoE I/O Boards	25
I/O Cable Kit	25
ZIO Modules for 3.5" Embedded Boards	26
PCI Express Cards	27
Full-size PCI Express Mini Modules	29

Systems and Platforms

Embedded Systems	31
Edge AI Systems	39
Transportation Certification Guide	40
Transportation Embedded Systems	41
Transportation Ethernet Switches	44
x86-based DIN-rail Embedded Systems	45
ARM-based DIN-rail Embedded Systems	48
Embedded MicroBoxes	51
Industrial Systems	52
Machine Vision Systems	55
Industrial Chassis	57
OPS+ & OPS Digital Signage Players	58
Digital Signage Players	60
Backplanes	62

Network Appliances

SMB Network Appliances	63
SOHO Network Appliances	66
DIN-rail Network Appliances	68
LAN Modules	69

Industrial Panel PCs

Fanless Touch Panel Computers	70
Heavy-duty Fanless Touch Panel Computers	73
Stainless Touch Panel Computers	75
Transportation Touch Panel Computers	77
Transportation Touch Displays	78
Industrial Touch Panel Computers	79
Industrial Touch Monitors	81
Medical Panel Computers	82
Open Frame Panel Computer	84



About Axiomtek

Axiomtek, one of the world's leading designers and manufacturers of PC-based industrial computer products, has had extensive experience and expertise in data acquisitions and control systems of rich diversity and modularization for more than 29 years. Axiomtek's commitment to excellence leads the industry in innovation, delivers superior quality, and is supported by extensive worldwide partners and distributors and more than 700 employees in 15 offices, to effectively serve our customers' diverse needs and thus to help them achieve their successes.

Company Culture

- Integrity is the Soul
- Innovation is the Mind
- Passion is the Heart

MindSET Inside

- Service-oriented
- Effectiveness
- Teamwork



Vision

To be at top 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.



Strength and Services

GLOBAL REACH

Axiomtek maintains a global network of international subsidiaries and distributors in more than 40 countries. Our offices can be found in 15 locations across the globe.



GO GREEN

As a global citizen, Axiomtek is committed to providing green products that are in compliance with WEEE and RoHS legislations. Our Environmental Management System (EMS) complies with ISO 14001 standards.



WORLDWIDE TECHNICAL SUPPORT

With our customer-focus approach, we ensure that our support staff and resources are available in all regions worldwide to provide real-time, responsive and effective technical support to our customers no matter where you are.



QUALITY ASSURANCE

Axiomtek is a company with ISO 9001, ISO 14001, ISO 45001, ISO 13485, and SGS certificates. Strict quality standards are maintained throughout our manufacturing processes to ensure that products endure rigorous quality checks at every stage during the production.



PARTNERSHIP

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



CUSTOMIZED SERVICE

Our creative concept of integrated services for embedded computing assures trusted delivery and valuable system integration from board-level design-in to system-level design for vertical markets in automation, transportation and much more.



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 and rBOX), Intelligent Transportation Systems (tBOX and UST), Touch Panel Computers (TPCs), Medical Panel Computers (MPCs), Intelligent Retail Solutions, Industrial IoT Gateway, Machine Vision System (MVS) and Network Appliances (NAs), Axiomtek products are widely used in industrial automation, smart energy, transportation, gaming, smart retail, medical and 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 in new generation gaming machines.

System on Modules



NEW



Features	Models	CEM310	CEM700	CEM130
Form Factor		COM Express® Type 10 Mini	COM Express® Type 7 Basic	COM Express® Type 6 Compact
CPU Level		Intel® Atom® x5/x7	Intel® Xeon® D-1577 Intel® Xeon® D-1539 Intel® Xeon® D-1548 Intel® Xeon® D-1527 Intel® Pentium® D1519 Intel® Pentium® D1508	AMD Ryzen™ Embedded V1000
CPU		Onboard	Onboard	Onboard
Core Logic Chipset		SoC integrated	SoC integrated	SoC integrated
Memory Type		DDR3L-1600	DDR4-2400	DDR-2400/3200
Max. DRAM Capacity		4GB (standard)/8GB (optional)	32GB	32GB (dual channel)
Cache RAM Capacity		SoC integrated	SoC integrated	SoC integrated
BIOS		AMI UEFI BIOS (Legacy Free)	AMI UEFI BIOS (Legacy Free)	AMI UEFI BIOS (Legacy Free)
Watchdog Timer		65536 levels, 0 to 65535 sec.	65536 levels, 0 to 65535 sec.	65536 levels, 0 to 65535 sec.
Onboard Storage		eMMC 5.0 up to 64GB (optional)	N/A	N/A
Onboard GPIO		4-in/4-out	4-in/4-out	4-in/4-out
SATA		2 x SATA-600	2 x SATA-600	2 x SATA-600
TPM		N/A	TPM 2.0	TPM 2.0
Serial	COM 1	TX/RX	TX/RX	TX/RX
	COM 2	TX/RX	TX/RX	TX/RX
	COM 3	N/A	N/A	N/A
	COM 4	N/A	N/A	N/A
USB		2 x USB 3.0 8 x USB 2.0	4 x USB 3.0 4 x USB 2.0	3 x USB 3.0 8 x USB 2.0
Display		1 x DDI 1 x LVDS (eDP optional)	N/A	2 x DDI 1 x LVDS (eDP optional) 1 x VGA (optional)
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 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

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Features	Models	CEM521	CEM520	Q7M310
Form Factor		COM Express® Type 6 Compact	COM Express® Type 6 Basic	Qseven
CPU Level		8th gen Intel® Core™ & Celeron® 4305UE	8th gen Intel® Core™ & Xeon®	Intel® Atom® x5/x7
CPU		Onboard	Onboard	Onboard
Core Logic Chipset		SoC integrated	SoC integrated	SoC integrated
Memory Type		DDR4-2400	DDR4-2666	DDR3L-1600
Max. DRAM Capacity		64GB	32GB	8GB
Cache RAM Capacity		SoC integrated	SoC integrated	SoC integrated
BIOS		AMI UEFI BIOS (Legacy Free)	AMI UEFI BIOS (Legacy Free)	AMI UEFI BIOS (Legacy Free)
Watchdog Timer		65536 levels, 0 to 65535 sec.	65536 levels, 0 to 65535 sec.	65536 levels, 0 to 65535 sec.
Onboard SSD		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
SATA		3 x SATA-600	4 x SATA-600	2 x SATA-600
TPM		TPM 2.0	TPM 2.0	NA
Serial	COM 1	TX/RX	TX/RX	TX/RX
	COM 2	TX/RX	TX/RX	N/A
	COM 3	N/A	N/A	N/A
	COM 4	N/A	N/A	N/A
USB		4 x USB 3.0 8 x USB 2.0	4 x USB 3.0 8 x USB 2.0	2 x USB 3.0 4 x USB 2.0
Display		1 x LVDS; 18/24-bit single/dual channel (eDP 1.4 optional) 1 x VGA (default) 1 x DDI	2 x DDI 1 x LVDS (eDP optional) 1 x VGA (optional)	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)	0°C to +60°C (32°F to +140°F)	-40°C to +85°C (-40°F to +185°F)
Relative Humidity		10% to 95%, non-condensing	10% to 95%, non-condensing	10% to 95%, non-condensing
EMI Compliance		CE	CE	CE

3.5" Embedded Boards

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



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

Pico-ITX SBCs

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Features\Models	PICO51R	PICO50R	PICO319
Form Factor	Pico-ITX	Pico-ITX	Pico-ITX
CPU Level	7th gen Intel® Core™ i7/i5/i3 & Celeron®	6th gen Intel® Core™ i7/i5/i3 & Celeron®	Intel® Atom® x5-E3940
CPU Socket	Onboard	Onboard	Onboard
Core Logic Chipset	SoC integrated	SoC integrated	SoC integrated
Memory Type	DDR4-2133	DDR4-2133	DDR3L-1867
Max. DRAM Capacity	16GB	16GB	8GB
Cache RAM Capacity	Integrated in CPU	Integrated in CPU	Integrated in CPU
BIOS	AMI UEFI BIOS	AMI UEFI BIOS	AMI UEFI BIOS
Watchdog Timer	65536 levels, 1 to 65535 sec.	65536 levels, 1 to 65535 sec.	65536 levels, 1 to 65535 sec.
SSD	1 x M.2 Key B 22 x 42	1 x M.2 Key B 22 x 42	1 x M.2 Key B 22 x 42
Digital I/O	4-channel in/out programmable	4-channel in/out programmable	4-channel in/out programmable
I/O	SATA	N/A	N/A
	Serial	RS-232/422/485	RS-232/422/485
	COM 2	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	2 x USB 3.0 2 x USB 2.0
SIM Card Slot	N/A	N/A	N/A
Display	1 x DisplayPort 1 x LVDS	1 x DisplayPort 1 x LVDS	1 x DisplayPort 1 x LVDS
Ethernet	2 x 10/100/1000 Mbps Ethernet	2 x 10/100/1000 Mbps Ethernet	2 x 10/100/1000 Mbps Ethernet
Audio	N/A	N/A	HD Codec
Hardware Monitoring	Yes	Yes	Yes
SMBus	Yes	Yes	Yes
Expansion Interface	1 x M.2 Key E 22 x 30	1 x M.2 Key E 22 x 30	1 x Half-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% to 95%, non-condensing	10% to 95%, non-condensing	10% to 95%, non-condensing
EMI Compliance	CE	CE	CE



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Features\Models		PICO318	PICO317
Form Factor		Pico-ITX	Pico-ITX
CPU Level		Intel® Pentium® N4200/ Celeron® N3350	Intel® Atom® x5-E3940
CPU Socket		Onboard	Onboard
Core Logic Chipset		SoC integrated	SoC integrated
Memory Type		DDR3L-1867	DDR3L-1867
Max. DRAM Capacity		8GB	8GB
Cache RAM Capacity		Integrated in CPU	Integrated in CPU
BIOS		AMI UEFI BIOS	AMI UEFI BIOS
Watchdog Timer		65536 levels, 1 to 65535 sec.	65536 levels, 1 to 65535 sec.
SSD		1 x M.2 Key B 22 x 42	N/A
Digital I/O		4-channel in/out programmable	N/A
I/O	SATA	N/A	1 x SATA-600
	Serial	COM 1	RS-232
		COM 2	RS-232
	USB	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
Display		1 x DisplayPort 1 x LVDS	1 x HDMI 1 x LVDS
Ethernet		2 x 10/100/1000 Mbps Ethernet	1 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 Full-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% to 95%, non-condensing	10% to 95%, non-condensing
EMI Compliance		CE	CE

Mini-ITX Motherboards

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



Features\Models		MANO521	MANO520	MANO315
Form Factor		Mini-ITX	Mini-ITX	Mini-ITX
CPU Level		9th/8th gen Intel® Core™ i7/i5/i3, Pentium® & Celeron®	9th/8th gen Intel® Core™ i7/i5/i3, Pentium® & Celeron®	Intel® Celeron® J3355
CPU Socket		LGA1151	LGA1151	Onboard
Core Logic Chipset		Intel® H310, Q370 (optional)	Intel® H310, Q370 (optional)	SoC integrated
Memory Type		DDR4-2400/2666	DDR4-2400/2666	DDR3L-1867
Max. DRAM Capacity		32GB	32GB	8GB
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		1 x M.2 Key M	1 x mSATA	1 x mSATA
Digital I/O		8-in/out	8-in/out	N/A
I/O	SATA	2 x SATA-600	3 x SATA-600	1 x SATA-600
	COM 1	RS-232/422/485	RS-232/422/485	RS-232
	COM 2	RS-232	RS-232	RS-232
	COM 3	N/A	RS-232	RS-232
	COM 4	N/A	RS-232	RS-232
	COM 5	N/A	N/A	N/A
	COM 6	N/A	N/A	N/A
USB		4 x USB 3.0, 4 x USB 2.0	4 x USB 3.0, 4 x USB 2.0	2 x USB 3.0, 4 x USB 2.0
Display		1 x DisplayPort++ 1 x HDMI 1 x LVDS 1 x VGA 1 x eDP (optional)	2 x DisplayPort++ 1 x HDMI 1 x LVDS	1 x VGA 1 x HDMI
Ethernet		2 x 10/100/1000 Mbps Ethernet	2 x 10/100/1000 Mbps Ethernet	2 x 10/100/1000 Mbps Ethernet
Audio		HD codec	HD Codec	HD codec
Hardware Monitoring		Yes	Yes	Yes
Expansion Interface		1 x PCI Express Mini Card slot 1 x M.2 Key M 1 x M.2 Key E 1 x PCIe x4	1 x M.2 Key E 1 x PCIe x16	1 x PCI Express Mini Card slot 1 x PCIe x1
Power Management		ACPI	ACPI	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

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Features\Models	IMB526	IMB525	IMB524
Form Factor	ATX	ATX	ATX
CPU Level	8th gen Intel® Core™ i7/i5/i3, Celeron® & Pentium®	9th/8th gen Intel® Core™ i7/i5/i3, Xeon® E, Pentium® or Celeron®	9th/8th gen Intel® Core™ i7/i5/i3, Celeron® & Pentium®
CPU Socket	LGA1151	LGA1151	LGA1151
Core Logic Chipset	Intel® Q370	Intel® C246	Intel® H310
Memory Type	DDR4-2666/2400	DDR4-2666/2400	DDR4-2666/2400
Max. DRAM Capacity	64GB	64GB	32GB
Cache RAM Capacity	Integrated in CPU	Integrated in CPU	Integrated in CPU
BIOS	AMI UEFI BIOS with OA 3.0 built	AMI UEFI BIOS with OA 3.0 built	AMI UEFI BIOS with OA 3.0 built
Watchdog Timer	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.
Digital I/O	8-channel programmable	8-channel programmable	8-channel programmable
SATA	4 x SATA-600	6 x SATA-600	4 x SATA-600
Serial	COM 1	RS-232/422/485	RS-232/422/485
	COM 2	RS-232/422/485	RS-232/422/485
	COM 3	RS-232	RS-232
	COM 4	RS-232	RS-232
	COM 5	RS-232	RS-232
	COM 6	RS-232	RS-232
USB	2 x USB 3.1 Gen2, 4 x USB3.1 Gen1, 7 x USB 2.0	2 x USB 3.1 Gen2, 4 x USB 3.1 Gen1, 7 x USB 2.0	4 x USB 3.1 Gen1, 6 x USB 2.0
SIM Card Slot	N/A	optional	optional
Display	1 x DisplayPort 1 x DVI-D 1 x HDMI 1 x VGA	1 x DisplayPort 1 x DVI-D 1 x HDMI 1 x VGA	1 x DisplayPort 1 x DVI-D 1 x HDMI 1 x VGA
Ethernet	2 x 10/100/1000 Mbps Ethernet	2 x 10/100/1000 Mbps Ethernet	2 x 10/100/1000 Mbps Ethernet
Audio	HD Codec	HD Codec	HD Codec
Hardware Monitoring	Yes	Yes	Yes
SMBus	Yes	Yes	Yes
Expansion Interface	2 x PCIe x16 4 x PCIe x4	1 x PCIe x16 2 x PCIe x4 4 x PCI 1 x PCI Express Mini Card slot (optional)	1 x PCIe x16 2 x PCIe x4 4 x PCI 1 x PCI Express Mini Card slot (optional)
Power Management	ACPI	ACPI	ACPI
Battery	Lithium	Lithium	Lithium
Operating Temperature	0°C to +60°C (+32°F to +140°F)	0°C to +60°C (+32°F to +140°F)	0°C to +60°C (+32°F to +140°F)
Relative Humidity	10% to 95%, non-condensing	10% to 95%, non-condensing	10% to 95%, non-condensing
EMI Compliance	CE	CE	CE



Features\Models	IMB523	IMB521	IMB520
Form Factor	ATX	ATX	ATX
CPU Level	9th/8th gen Intel® Core™ i7/i5/i3, Celeron® & Pentium®	9th/8th gen Intel® Core™ i7/i5/i3, Xeon® E, Pentium® or Celeron®	9th/8th gen Intel® Core™ i7/i5/i3, Celeron® & Pentium®
CPU Socket	LGA1151	LGA1151	LGA1151
Core Logic Chipset	Intel® Q370	Intel® C246	Intel® Q370
Memory Type	DDR4-2666/2400	DDR4-2666/2400	DDR4-2666/2400
Max. DRAM Capacity	64GB	64GB	64GB
Cache RAM Capacity	Integrated in CPU	Integrated in CPU	Integrated in CPU
BIOS	AMI UEFI BIOS with OA 3.0 built	AMI UEFI BIOS with OA 3.0 built	AMI UEFI BIOS with OA 3.0 built
Watchdog Timer	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.
Digital I/O	8-channel programmable	8-channel programmable	8-channel programmable
SATA	6 x SATA-600	4 x SATA-600	4 x SATA-600
Serial	COM 1	RS-232/422/485	RS-232/422/485
	COM 2	RS-232/422/485	RS-232/422/485
	COM 3	RS-232	RS-232
	COM 4	RS-232	RS-232
	COM 5	RS-232	RS-232
	COM 6	RS-232	RS-232
USB	2 x USB 3.1 Gen2, 4 x USB 3.1 Gen1, 7 x USB 2.0	2 x USB 3.1 Gen2, 4 x USB 3.1 Gen1, 7 x USB 2.0	2 x USB 3.1 Gen2, 4 x USB3.1 Gen1, 7 x USB 2.0
SIM Card Slot	Optional	N/A	N/A
Display	1 x DisplayPort 1 x DVI-D 1 x HDMI 1 x VGA	1 x DisplayPort 1 x DVI-D 1 x HDMI 1 x VGA	1 x DisplayPort 1 x DVI-D 1 x HDMI 1 x VGA
Ethernet	2 x 10/100/1000 Mbps Ethernet	2 x 10/100/1000 Mbps Ethernet	2 x 10/100/1000 Mbps Ethernet
Audio	HD Codec	HD Codec	HD Codec
Hardware Monitoring	Yes	Yes	Yes
SMBus	Yes	Yes	Yes
Expansion Interface	1 x PCIe x16 2 x PCIe x4 4 x PCI 1 x PCI Express Mini Card slot (optional)	1 x PCIe x16 4 x PCIe x4 1 x PCIe x1 1 x PCI	1 x PCIe x16 4 x PCIe x4 1 x PCIe x1 1 x PCI
Power Management	ACPI	ACPI	ACPI
Battery	Lithium	Lithium	Lithium
Operating Temperature	0°C to +60°C (+32°F to +140°F)	0°C to +60°C (+32°F to +140°F)	0°C to +60°C (+32°F to +140°F)
Relative Humidity	10% to 95%, non-condensing	10% to 95%, non-condensing	10% to 95%, non-condensing
EMI Compliance	CE	CE	CE

ATX Motherboards



Features\Models	IMB502	IMB501	IMB500
Form Factor	ATX	ATX	ATX
CPU Level	7th/6th gen Intel® Core™ i7/i5/i3 & Celeron®	7th/6th gen Intel® Core™ i7/i5/i3 & Celeron®	7th/6th gen Intel® Core™ i7/i5/i3 & Celeron®
CPU Socket	LGA1151	LGA1151	LGA1151
Core Logic Chipset	Intel® Q170	Intel® H110	Intel® Q170
Memory Type	DDR4-2400/2133/1866	DDR4-2400/2133/1866	DDR4-2400/2133/1866
Max. DRAM Capacity	64GB	32GB	64GB
Cache RAM Capacity	Integrated in CPU	Integrated in CPU	Integrated in CPU
BIOS	AMI UEFI BIOS with OA 3.0 built	AMI UEFI BIOS with OA 3.0 built	AMI UEFI BIOS with OA 3.0 built
Watchdog Timer	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.
Digital I/O	8-channel programmable	4-in & 4-out	4-in & 4-out
SATA	5 x SATA-600	3 x SATA-600 1 x mSATA	5 x SATA-600 1 x mSATA
Serial	COM 1	RS-232/422/485	RS-232/422/485
	COM 2	RS-232	RS-232/422/485
	COM 3	RS-232	RS-232
	COM 4	RS-232	RS-232
	COM 5	RS-232	RS-232
	COM 6	RS-232	RS-232
USB	6 x USB 3.0, 7 x USB 2.0	4 x USB 3.0, 4 x USB 2.0	4 x USB 3.0, 8 x USB 2.0
SIM Card Slot	N/A	1 x SIM	1 x SIM
Display	1 x DVI-D 1 x HDMI 1 x VGA	1 x DisplayPort 1 x HDMI 1 x VGA	1 x DisplayPort 1 x HDMI 1 x VGA
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 3 x PCIe x4 3 x PCI	4 x PCI 2 x PCIe x1 1 x PCIe x16 1 x PCI Express Mini Card slot 1 x SIM slot	4 x PCI 2 x PCIe x4 1 x PCIe x16 1 x PCI Express Mini Card slot 1 x SIM slot
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

Micro ATX Motherboard



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

PICMG 1.3 Full-size CPU Cards



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

PICMG 1.3 Half-size CPU Card



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

ARM-based Embedded Boards

NEW



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

Smart Display Modules

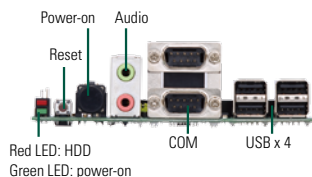


Features\Models	SDM500L	SDM300S
Form Factor	Intel® SDM Large	Intel® SDM Small
CPU Level	8th gen Intel® Core™ i7/i5/i3 processor	Intel® Pentium® N4200 & Celeron® N3350
CPU Socket	Onboard	Onboard
Core Logic Chipset	SoC integrated	SoC integrated
Memory Type	DDR4-2400	LPDDR4
Max. DRAM Capacity	32GB	4GB/8GB (optional)
Cache RAM Capacity	SoC integrated	SoC integrated
BIOS	AMI UEFI BIOS	AMI UEFI BIOS
Watchdog Timer	255 Level, 1 to 255 sec./min.	255 levels, 1 to 255 sec./min.
SSD	1 x M.2 Key M slot 1 x M.2 Key B slot	32GB (optional)/64GB eMMC onboard
Intel® AMT	Yes	N/A
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
	Ethernet	1 x 10/100/1000 Mbps with Intel® i211-AT; supports Wake-on-LAN, PXE Boot ROM
	Others	4 x USB 3.0 1 x USB type C 1 x Mic-in 1 x Line-out 1 x HDMI 1.4
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	1x M.2 Key E 1x 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 +55°C (+32°F to +131°F)	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

I/O Boards for Pico-ITX Boards

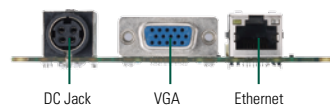
AX93265

- Specifications: 1 x RS-232/422/485, 1 x RS-232, 4 x USB 2.0, 1 x Audio (MIC-IN/Line-out), 1 x Power-on, 1 x Reset, 2 x LED
- Dimensions: 118 x 29 mm
- Compliant Products: PICO830, PICO831



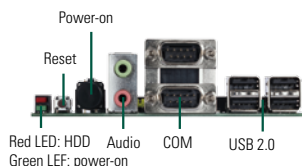
AX93267

- Specifications: 1 x DC Jack, 1 x VGA, 1 x Gigabit LAN
- Dimensions: 100 x 26 mm
- Compliant Products: PICO831, PICO841, PICO843



AX93283

- Specifications: 1 x RS-232/422/485, 1 x RS-232, 4 x USB 2.0, 1 x Audio (Mic-in/Line-out), 1 x Power-on, 1 x Reset, 2 x LED
- Dimensions: 118 x 29 mm
- Compliant Products: PICO840, PICO841, PICO843

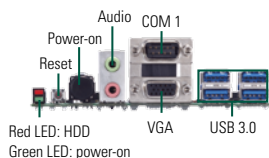


AX93275

- Specifications: 1 x RS-232/422/485, 1 x RS-232, 4 x USB 3.0, 1 x VGA, 1 x Audio (Mic-in/Line-out), 1 x Power-on, 1 x Reset, 2 x LED
- Dimensions: 118 x 40 mm
- Compliant Products: PICO880, PICO500, PICO300

Ordering Information

AX93275 for PICO880	P/N: E393275100
AX93275	P/N: E393275102

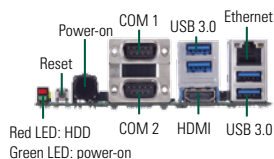


AX93276

- Specifications: 1 x RS-232/422/485, 1 x RS-232, 4 x USB 3.0, 1 x HDMI, 1 x Gigabit LAN, 1 x Power-on, 1 x Reset, 2 x LED
- Dimensions: 118 x 40 mm
- Compliant Products: PICO880, PICO500, PICO300

Ordering Information

AX93276	P/N: E393276102
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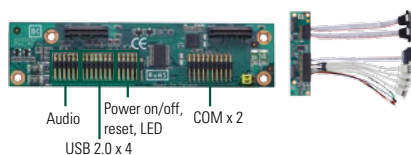


AX93292

- Specifications: 1 x RS-232/422/485, 1 x RS-232, 4 x USB 2.0, 1 x Audio (Mic-in/Line-out), 1 x Power-on, 1 x Reset, 2 x LED
- Dimensions: 118 x 29 mm
- Compliant Products: PICO880, PICO500, PICO300

Ordering Information

AX93292	P/N: E393292100
Cable for COM	P/N: 594H8302100E
Cable for Audio+USB+LED	P/N: 59340000200E

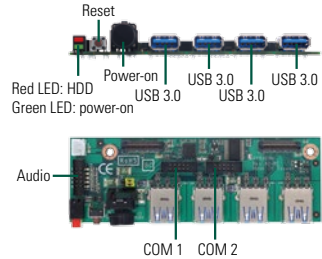


AX93299

- Specifications: 1 x RS-232/422/485, 1 x RS-232, 1 x Audio (Mic-in/Line-in/Line-out), 4 x USB 3.0, 1 x Power-on, 1 x Reset, 2 x LED
- Dimensions: 118 x 40 mm
- Compliant Products: PICO880, PICO500, PICO300

Ordering Information

AX93299	P/N: E393299100
Cable for COM	P/N: 59382620000E
Cable for Audio+USB+LED	P/N: 59384500100E

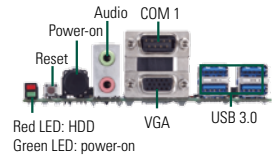


AX93A00

- Specifications: 1 x RS-232/422/485, 1 x RS-232, 4 x USB 3.0, 1 x VGA, 1 x Audio (Mic-in/Line-out), 1 x Power-on, 1 x Reset, 2 x LED
- Dimensions: 118 x 40 mm
- Compliant Products: PICO310, PICO312, PICO511, PICO512

Ordering Information

AX93A00	EP/N: 393A00100
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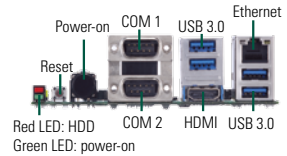


AX93A01

- Specifications: 1 x RS-232/422/485, 1 x RS-232, 4 x USB 3.0, 1 x HDMI, 1 x Gigabit LAN, 1 x Audio (Mic-in/Line-out), 1 x Power-on, 1 x Reset, 2 x LED
- Dimensions: 118 x 40 mm
- Compliant Products: PICO310, PICO312, PICO511, PICO512

Ordering Information

AX93A01	P/N: E393A01100
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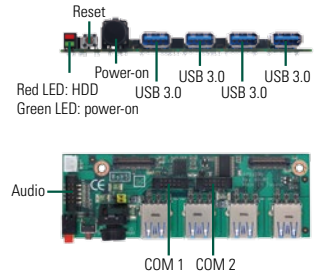


AX93A02

- Specifications: 1 x RS-232/422/485, 1 x RS-232, 1 x Audio (Mic-in/Line-in/Line-out), 4 x USB 3.0, 1 x Power-on, 1 x Reset, 2 x LED
- Dimensions: 118 x 40 mm
- Compliant Products: PICO310, PICO312, PICO511, PICO512

Ordering Information

AX93A02	P/N: E393A02100
Cable for COM	P/N: 59382620000E
Cable for Audio+USB+LED	P/N: 59384500100E

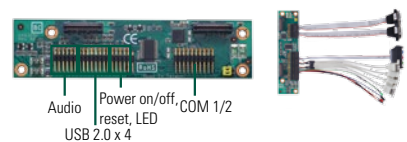


AX93A09

- Specifications: 1 x RS-232/422/485, 1 x RS-232, 4 x USB 2.0, 1 x Audio (Mic-in/Line-out), 1 x Power-on, 1 x Reset, 2 x LED
- Dimensions: 118 x 29 mm
- Compliant Products: PICO310, PICO312, PICO511, PICO512

Ordering Information

AX93A09	P/N: E393A09100
Cable for COM	P/N: 594H8302100E
Cable for Audio+USB+LED	P/N: 59340000200E



PoE I/O Boards

AX93274

- Specifications: PoE-PD I/O board complies with IEEE802.3at standard via an internal cable to power on SBC
- Dimensions: 100 x 32 mm
- Accessories: 1 x LAN cable, 1 x Power cable, 1 x Thermal module
- Compliant Products: PICO831, PICO121, PICO841, PICO843

Ordering Information

AX93274	PoE-PD I/O board
(P/N: E393274100)	



AX93280

- Specifications: PoE-PSE I/O board complies with IEEE802.3af standard via an internal cable connected to LAN port on a SBC to power an external PoE device
- Dimensions: 100 x 32 mm
- Accessories: 1 x LAN cable, 1 x Power cable
- Compliant Products: PICO831, PICO121, PICO841, PICO843

Ordering Information

AX93280	PoE-PSE I/O board
(P/N: E393280100)	



I/O Cable Kit

AX93242

HD audio converter board with bracket for SBC81205, SBC81206, SHB101 and SHB210
Mic-in/CD-in/Line-in/Line-out/Speaker-out

Ordering Information

AX93242	HD audio kit for SBC81205, SBC81206, SHB101
(P/N: E393242100)	
AX93242	HD audio kit for SHB210, SBC81210
(P/N: E393242101)	



ZIO Modules for 3.5" Embedded Boards

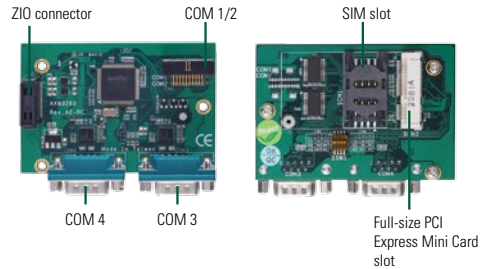
AX93262

ZIO Module with 4 COM Ports and 1 PCI Express Mini Card Slot

- Specifications: 2 x RS-232/422/485, 2 x RS-232, 1 x PCI Express Mini Card slot
- Dimensions: 80 x 55 mm
- Accessory: 2 x COM with bracket cable
- Compliant Products: CAPA830, CAPA840, CAPA843, CAPA880, CAPA500, CAPA313

Ordering Information

AX93262 (P/N: E393262100)	ZIO module with 4 COM ports and 1 PCI Express Mini Card slot
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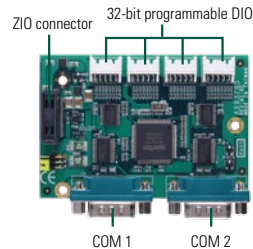
AX93285

ZIO Module with 2 COM Ports and 32-bit Programmable DIO

- Specifications: 2 x RS-232, 32-bit programmable DIO
- Dimensions: 80 x 55 mm
- Compliant Products: CAPA830, CAPA840, CAPA843, CAPA880, CAPA500, CAPA313

Ordering Information

AX93285 (P/N: E393285100)	ZIO module with 2 COM ports and 32-bit programmable DIO
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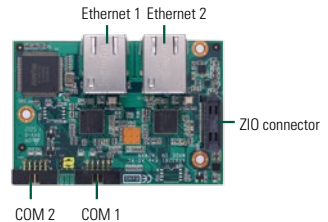
AX93291

ZIO Module with 2 Gigabit Ethernet and 2 COM Ports

- Specifications: 2 x GbE LAN, 2 x RS-232
- Dimensions: 80 x 55 mm
- Controller: Intel® i211-AT
- Compliant Products: CAPA830, CAPA840, CAPA843, CAPA880, CAPA500, CAPA313

Ordering Information

AX93291 (P/N: E393291100)	ZIO module with 2 Gigabit Ethernet and 2 COM ports
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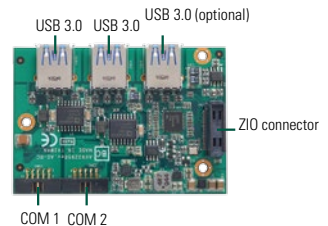
AX93295

ZIO Module with 2 isolated COM Ports and 2 USB 3.0 Ports

- Specifications: 2 x isolated RS-232, 2 x USB 3.0
- Dimensions: 80 x 55 mm
- Compliant Products: CAPA830, CAPA840, CAPA843, CAPA880, CAPA500, CAPA313

Ordering Information

AX93295 (P/N: E393295100)	ZIO module with 2 isolated COM ports and 2 USB 3.0 ports
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Note: the 3rd USB 3.0 working is subject to which 3.5" is installed.

PCI Express Cards

AX92320

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

Features	● PCI Express x4 compliant ● 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 bus/6-pin ATX power connector ● 0°C to +60°C wide operating temperature range ● PoE power management software ● Supports LAN port smart on/off
Dimensions	168 x 107 mm

Ordering Information

AX92320-2GE (P/N: E392320103)	2-port PCI Express GigE frame grabber card
AX92320-4GbE (P/N: E392320100)	4-port PCI Express GigE frame grabber card
PoE Power Cable (P/N: 59492320700E)	4P 3.0/6P 4.2, L=100 mm (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)



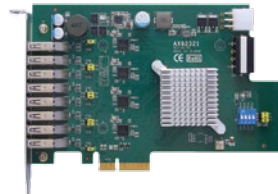
AX92321

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
Dimensions	168 x 107 mm

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
Power Cable (P/N: 59492320700E)	4P 3.0/6P 4.2, L=100 mm (only be used with IPC962/IPC964/IPC974)



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
Dimensions	125 x 111 mm

Ordering Information

AX92322-2GbE	2-port GigE PCI Express card
AX92322-4GbE	4-port GigE PCI Express card



AX92350

Real-Time Vision I/O Card

Features	● Integrated vision I/O - 4 CH trigger input - 4 or 8 CH trigger output - 4 CH LED lighting control (LED trigger output channels are defined by software settings) - 1 CH quadrature encoder input - 8 CH isolated DI, 8 CH isolated DO - 1 CH auto measurement function ● Programmable interrupt functions ● PCI Express x1 compliant ● Flexible design for vision inspection
Dimensions	168 x 107 mm

Ordering Information

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

Accessories

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



AX92351

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

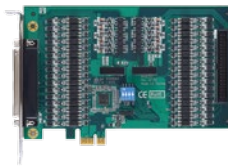
Features	● 16-CH/32-CH isolated digital input (compatibility: sink and source) ● 16-CH/32-CH isolated digital output (with output status read back) ● Interrupt capability (smart interrupt) ● Digital filter function ● Supports board ID
Dimensions	168 x 107 mm

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



Full-size PCI Express Mini Modules

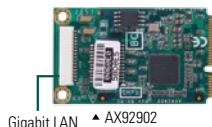
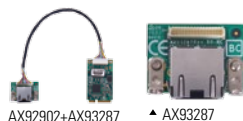
AX92902

Full-size PCI Express Mini Module with Gigabit LAN

Features	● Supports 10/100/1000 Mbps transfer rates ● Supports Wake-on LAN ● Supports PXE Boot ROM
From factor	Full-size PCI Express Mini Card
Controller	Intel® i210-IT
Connector	1 Gigabit LAN
Dimensions	51 x 30 mm

Ordering Information

AX92902+AX93287 (P/N: E392902101)	Full-size PCI Express Mini module with Gigabit LAN
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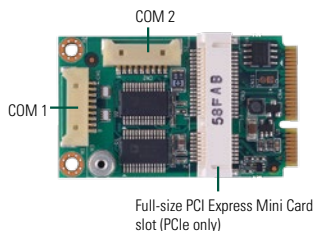
AX92906

Full-size PCI Express Mini Module with COM

Features	● USB to 2 Channel high speed RS-232 ports ● Supports 1 half-size PCI Express Mini card slot (PCIe only)
From factor	Full-size PCI Express Mini Card
Connector	2 COM ports (2 x RS-232) and half-size PCI Express Mini Card slot (PCIe only)
Dimensions	51 x 30 mm

Ordering Information

AX92906 (P/N: E392906100)	Full-size PCI Express Mini module with COM and half-size PCI Express Mini Card (PCIe only)
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AX92907

Full-size PCI Express Mini Module with SATA

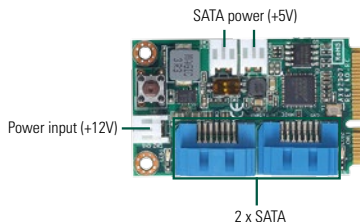
Features	● 2 independent SATA channels ● Fully compatible with SATA revision 2.0 and 3.0 hard drives (HDD) and Solid State Drives (SSD) ● Supports RAID 0/1 ● 2 SATA power connectors with +5V
From factor	Full-size PCI Express Mini Card
Connector	2 SATA connectors and SATA power connector
Dimensions	51 x 30 mm

Ordering Information

AX92907 (P/N: E392907100)	Full-size PCI Express Mini module with SATA
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Optional ordering for cables

59429070600E	SATA power cable, L=200 mm
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AX92903

Full-size PCI Express Mini Module with CANBus

Features	• USB to 1 channel CANBus port • Supports CANOpen
From factor	Full-size PCI Express Mini Card
Connector	CAN 2.0A and CAN 2.0B
Dimensions	51 x 30 mm

Ordering Information

AX92903 (P/N: E392903100)	Full-size PCI Express Mini module with CANBus
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AX92904

Full-size PCI Express Mini Module with 32-bit DIO

Features	• Supports 4 8-bit TTL level DIO ports with +5V powered • Each bit can be programmable as input or output
From factor	Full-size PCI Express Mini Card
Connector	32-bit programmable DIO
Dimensions	51 x 30 mm

Ordering Information

AX92904 (P/N: E392904101)	Full-size PCI Express Mini module with 32-bit DIO
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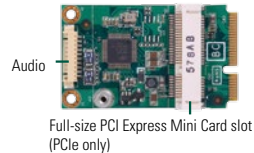
AX92905

Full-size PCI Express Mini Module with Audio

Features	• USB to audio as Mic-in/Line-in/Line-out • Supports 1 half-size PCI Express Mini Card slot (PCIe only)
From factor	Full-size PCI Express Mini Card
Controller	Cmedia CM6510B
Connector	Audio with Mic-in/Line-in/Line-out and half-size PCI Express Mini Card slot (PCIe only)
Dimensions	51 x 30 mm

Ordering Information

AX92905 (P/N: E392905100)	Full-size PCI Express Mini module with audio and half-size PCI Express Mini Card (PCIe only)
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▲ AX92905 with cable

Embedded Systems



NEW



Features/Models	eBOX100-312-FL	eBOX100-51R-FL	eBOX560-500-FL
CPU Level	Intel® Celeron® N3350 2.4 GHz Intel® Pentium® N4200 2.5 GHz	Intel® Core™ i5-7300U 2.6GHz Intel® Celeron® 3965U 2.2GHz	Intel® Core™ i7-6600U 3.4 GHz/ i5-6300U 3.0 GHz/i3-6100U 2.3 GHz & Celeron® 3955U 2.0 GHz
System Memory	1 x 204-pin DDR3L-1600 SO-DIMM, up to 8GB	1 x 260-pin DDR4-2400 SO-DIMM, up to 16G	1 x 260-pin DDR4-2133 SO-DIMM, up to 16GB
Chipset	SoC integrated	SoC integrated	SoC integrated
Serial	1 x RS-232	2 x RS-232/422/485	1 x RS-232/422/485 1 x RS-232
Display	2 x HDMI	1 x DisplayPort	2 x HDMI
Audio	N/A	N/A	N/A
PS/2	N/A	N/A	N/A
Ethernet	2 x 10/100/1000 Mbps Ethernet	2 x 10/100/1000 Mbps Ethernet	2 x 10/100/1000 Mbps Ethernet
USB	4 x USB 2.0 2 x USB 3.0	2 x USB 3.0 2 x USB 2.0	4 x USB 3.0
Expansion Interface	2 x Full-size PCI Express Mini Card slot (USB + PCIe) 1 x SIM slot	1 x M.2 Key B 2242 (SATA)	1 x Full-size PCI Express Mini Card slot (USB + PCIe)
Storage	1 x 2.5" HDD drive bay	1 x M.2 Key E 2230	1 x 2.5" HDD drive bay 1 x mSATA (enabled in BIOS setting)
Watchdog Timer	255 levels, 1 to 255 sec.	65536 levels, 1 to 65535 sec.	255 levels, 1 to 255 sec.
Power Supply	12 VDC	12 VDC	12 VDC
Operating Temperature	-5°C to +60°C (+23°F to +140°F) (with W.T. SSD/DRAM)	-10°C to +50°C (+14°C to +122°C) (with W.T. SSD/DRAM)	-10°C to +55°C (+14°F to +131°F) (with W.T. SSD/DRAM)
Mounting	Wall mount VESA mount DIN-rail	Wall mount VESA mount DIN-rail	Wall mount VESA mount DIN-rail
Dimensions (W x D x H)	216 x 137.65 x 38 mm (8.5" x 5.41" x 1.49")	142 x 87 x 58 mm (5.59" x 3.42" x 2.28")	141.5 x 106 x 55 mm (5.57" x 4.17" x 2.17")
Weight (net/gross)	1.15 kg (2.53 lb)/1.5 kg (3.3 lb)	0.6 kg (1.32 lb)/1.5 kg (3.3 lb)	0.8 kg (1.76 lb)/1.67 kg (3.68 lb)
Certifications	CE, FCC Class A	CE, FCC Class A	CE
EOS Support	Win 10 IoT, Linux	Win 10 IoT, Linux	Win 10 IoT, WEBS, Linux
Software Support	N/A	AMS.AXView	N/A



Features\Models	eBOX560-512-FL	eBOX560-900-FL	eBOX565-500-FL
CPU Level	Intel® Core™ i5-7300U 2.6 GHz/i3-7100U 2.4 GHz & Celeron® 3965U 2.2 GHz	NVIDIA® Jetson™ TX2 SoM HMP Dual Denver 2/2 MB L2 + Quad ARM® A57/2 MB L2	Intel® Core™ i5-6300U 2.4 GHz/ i3-6100U 2.3 GHz & Celeron® 3955U 2.0 GHz
System Memory	1 x 260-pin DDR4-2133 SO-DIMM, up to 16GB	1 x 8GB 128-bit LPDDR4@1866 MHz onboard	1 x 260-pin DDR4-2133 SO-DIMM, up to 16GB
Chipset	SoC integrated	SoM integrated	SoC integrated
Serial	2 x RS-232/422/485	N/A	1 x RS-232/422/485 1 x RS-232
Display	2 x HDMI	1 x HDMI	2 x HDMI
Audio	N/A	N/A	N/A
PS/2	N/A	N/A	N/A
Ethernet	2 x 10/100/1000 Mbps Ethernet	2 x 10/100/1000 Mbps Ethernet	2 x 10/100/1000 Mbps Ethernet
USB	4 x USB 3.0	1 x USB 2.0	4 x USB 3.0
Expansion Interface	1 x Full-size PCI Express Mini Card slot (USB + PCIe)	1 x Full-size PCI Express Mini Card slot (USB + PCIe) 1 x SIM slot	1 x Full-size PCI Express Mini Card slot (USB + PCIe)
Storage	1 x 2.5" HDD drive bay 1 x mSATA (enabled in BIOS setting)	Onboard 32GB eMMC (built-in TX2) 1 x M.2 Key M 2280 with PCIe 2.0 x4 NVMe SSD slot	1 x 2.5" HDD drive bay 1 x mSATA (enabled in BIOS setting)
Watchdog Timer	255 levels, 1 to 255 sec.	Built-in TX2	255 levels, 1 to 255 sec.
Power Supply	12 VDC	12 VDC	9 to 36 VDC
Operating Temperature	-10°C to +50°C (+14°F to +122°F) (with W.T. SSD/DRAM)	-30°C to +60°C (-22°F to +140°F)	-20°C to +50°C (-4°F to +122°F) (with W.T. SSD/DRAM)
Mounting	Wall mount VESA mount DIN-rail	Wall mount VESA mount DIN-rail	Wall mount VESA mount DIN-rail
Dimensions (W x D x H)	141.6 x 106 x 54.85 mm (5.57" x 4.17" x 2.15")	141.6 x 106 x 55 mm (5.57" x 4.17" x 2.17")	141.5 x 106 x 73 mm (5.57" x 4.17" x 2.87")
Weight (net/gross)	0.8 kg (1.76 lb)/1.67 kg (3.68 lb)	0.8 kg (1.76 lb)/1.5 kg (3.31 lb)	1.074 kg (1.76lb)/1.67 kg (3.68lb)
Certifications	CE, FCC Class A	CE, FCC Class A	CE
EOS Support	Win 10 IoT, Linux	Linux Ubuntu 18.04	Win 10 IoT, WEBS, Linux
Software Support	AMS.AXView	N/A	N/A

Embedded Systems



Features\Models	eBOX625-312-FL	eBOX625-853-FL	eBOX626-853-FL
CPU Level	Intel® Celeron® N3350 2.4 GHz Intel® Pentium® N4200 2.5 GHz	Intel® Celeron® N3160 2.24 GHz	Intel® Celeron® N3160 2.24 GHz
System Memory	1 x 204-pin DDR3L-1867 SO-DIMM, up to 8GB	1 x 204-pin DDR3L-1333/1600 SO-DIMM, up to 8GB	1 x 204-pin DDR3L-1333/1600 SO-DIMM, up to 8GB
Chipset	SoC integrated	SoC integrated	SoC integrated
Serial	2 x RS-232/422/485 1 x RS-232	1 x RS-232/422/485 3 x RS-232	1 x RS-232/422/485 3 x RS-232
Display	1 x HDMI (lockable) 1 x VGA	1 x VGA 1 x HDMI	1 x VGA 1 x HDMI
Audio	Yes	Yes	Yes
PS/2	N/A	N/A	N/A
Ethernet	2 x 10/100/1000 Mbps Ethernet	2 x 10/100/1000 Mbps Ethernet	2 x 10/100/1000 Mbps Ethernet
USB	2 x USB 2.0 4 x USB 3.0	1 x USB 2.0 3 x USB 3.0	1 x USB 2.0 3 x USB 3.0
Expansion Interface	2 x Full-size PCI Express Mini Card slot (USB + PCIe) 1 x SIM slot	2 x Full-size PCI Express Mini Card slot (USB + PCIe) 1 x SIM slot	2 x Full-size PCI Express Mini Card slot (USB + PCIe) 1 x SIM slot
Storage	1 x 2.5" HDD drive bay 1 x mSATA (enabled in BIOS setting)	1 x 2.5" HDD drive bay 1 x mSATA (enabled in BIOS setting)	1 x 2.5" HDD drive bay 1 x mSATA (enabled in BIOS setting)
Watchdog Timer	65536 levels, 1 to 65535 sec.	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.
Power Supply	12 VDC	12 VDC	9 to 36 VDC
Operating Temperature	-20°C to +60°C (-4°F to +140°F) (with W.T. SSD/DRAM)	-20°C to +60°C (-4°F to +140°F) (with W.T. SSD/DRAM)	-20°C to +60°C (-4°F to +140°F) (with W.T. SSD/DRAM)
Mounting	Wall mount VESA mount DIN-rail	Wall mount VESA mount DIN-rail	Wall mount VESA mount DIN-rail
Dimensions (W x D x H)	200 x 120 x 46 mm (7.87" x 4.72" x 1.81")	200 x 120 x 46 mm (7.87" x 4.72" x 1.81")	200 x 120 x 46 mm (7.87" x 4.72" x 1.81")
Weight (net/gross)	1.1 kg (2.43 lb)/1.8 kg (3.97 lb)	1.2 kg (2.65 lb)/1.9 kg (4.19 lb)	1.2 kg (2.65 lb)/1.9 kg (4.19 lb)
Certifications	CE, FCC Class A	CE	CE
EOS Support	Win 10 IoT, Linux	Win 10 IoT, Linux	Win 10 IoT, Linux
Software Support	AMS.AXView	N/A	N/A



NEW



Features/Models	eBOX627-312-FL	eBOX630-528-FL	eBOX638-842-FL
CPU Level	Intel® Celeron® N3350 2.4 GHz Intel® Pentium® N4200 2.5 GHz	Intel® Core™ i3-8145UE/i5-8365UE /i7-8665UE & Celeron® 4305UE	Intel® Celeron® J1900 2.0 GHz
System Memory	1 x 204-pin DDR3L-1867 SO-DIMM, up to 8GB	2 x 260-pin DDR4-2400 SO-DIMM, up to 32GB	1 x 204-pin DDR3L-1066/1333 SO-DIMM, up to 8GB
Chipset	SoC integrated	SoC integrated	SoC integrated
Serial	2 x RS-232/422/485 2 x RS-232	2 x RS-232/422/485 2 x RS-232	2 x RS-232/422/485 2 x RS-232
Display	1 x HDMI (lockable)	1 x VGA 2 x HDMI (lockable)	1 x HDMI 1 x VGA
Audio	N/A	Yes	Yes
PS/2	N/A	N/A	Yes
Ethernet	2 x 10/100/1000 Mbps Ethernet	3 x 10/100/1000 Mbps Ethernet	2 x 10/100/1000 Mbps Ethernet
USB	2 x USB 2.0 4 x USB 3.0	2 x USB 3.1 Gen2 2 x USB 3.1 Gen1 2 x USB 2.0	5 x USB 2.0 1 x USB 3.0
Expansion Interface	2 x Full-size PCI Express Mini Card slot (USB + PCIe) 1 x SIM slot	2 x Full-size PCI Express Mini Card (USB + PCIe + SATA) 1 x SIM slot	1 x Full-size PCI Express Mini Card slot (USB + PCIe) 2 PCI slot or 2 PCIe x1 slot 1 x SIM slot
Storage	1 x 2.5" HDD drive bay 1 x mSATA (enabled in BIOS setting)	2 x 2.5" HDD drive bay 1 x mSATA (enabled in BIOS setting)	1 x 2.5" HDD drive bay 1 x mSATA (enabled in BIOS setting)
Watchdog Timer	65536 levels, 1 to 65535 sec.	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.
Power Supply	9 to 36 VDC	9 to 36 VDC	9 to 36 VDC
Operating Temperature	-20°C to +70°C (-4°F to +158°F) (with W.T. SSD/DRAM)	-40°C to +70°C (-40°F to 158°F) (with W.T. SSD/DRAM)	-10°C to +55°C (14°F to +131°F) (with W.T. DRAM & SSD)
Mounting	Wall mount VESA mount DIN-rail	Wall mount VESA mount DIN-rail	Wall mount
Dimensions (W x D x H)	200 x 120 x 65 mm (7.87" x 4.72" x 2.55")	260 x 170 x 60 mm (9.84" x 6.69" x 2.36")	192 x 230 x 115.8 mm (7.56" x 9.05" x 4.56")
Weight (net/gross)	1.38 kg (3.04 lb)/2.08 kg (4.59 lb)	1.38 kg (3.04 lb)/2.08 kg (4.59 lb)	4.1 kg (9.03 lb)/4.8 kg (10.58 lb)
Certifications	CE, FCC Class A	CE, FCC Class A	CE
EOS Support	Win 10 IoT, Linux	Win 10 IoT, Linux	WES7, Win 10 IoT
Software Support	AMS.AXView	AMS.AXView	N/A

Embedded Systems



NEW



Features\Models	eBOX640-500-FL	eBOX640-521-FL	eBOX670-891-FL
CPU Level	LGA1151 7th/6th gen Intel® Core™ i7/i5/i3 & Celeron®	LGA1151 8th gen Intel® Core™ i7/i5/i3 & Celeron®	LGA1151 7th/6th gen Intel® Core™ i7/i5/i3 & Celeron®
System Memory	2 x 288-pin DDR4-2133 DIMM, up to 32GB	2 x 260-pin DDR4-2666/2400 SO-DIMM, up to 32GB	6th gen: 2 x 260-pin SO-DIMM DDR4-1866/2133, up to 32GB 7th gen: 2 x 260-pin SO-DIMM DDR4-2133/2400, up to 32GB
Chipset	Intel® H110	Intel® H310	Intel® Q170
Serial	1 x RS-232/422/485 3 x RS-232	1 x RS-232/422/485 1 x RS-232	2 x RS-232/422/485
Display	1 x DisplayPort 1 x HDMI 1 x VGA	1 x HDMI 1 x DisplayPort	1 x DisplayPort 2 x HDMI
Audio	Yes	Yes	Yes
PS/2	N/A	N/A	N/A
Ethernet	2 x 10/100/1000 Mbps Ethernet	2 x 10/100/1000 Mbps Ethernet	4 x 10/100/1000 Mbps Ethernet
USB	2 x USB 2.0 4 x USB 3.0	4 x USB 2.0 2 x USB 3.0	2 x USB 2.0 6 x USB 3.0
Expansion Interface	1 x Full-size PCI Express Mini Card slot (USB + PCIe) 1 x SIM slot	1 x Full-size PCI-Express Mini Card slot (PCIe + SATA + USB) 1 x M.2 Key E 2230 (for Wi-Fi)	2 x Full-size PCI Express Mini Card slot (USB + PCIe) 1 x SIM slot
Storage	2 x 2.5" HDD drive bay 1 x mSATA (enabled in BIOS setting)	2 x 2.5" HDD drive bay	2 x 2.5" HDD drive bay 1 x mSATA (enabled in BIOS setting)
Watchdog Timer	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.
Power Supply	10 to 30 VDC	19/24VDC	9 to 36 VDC
Operating Temperature	-10°C to +55°C (+14°F to +131°F) (with W.T. SSD/DRAM)	-10°C to +55°C (14°F to 131°F) (with W.T. SSD/DRAM)	-40°C to +60°C (-40°F to +140°F) (with W.T. SSD/DRAM)
Mounting	Wall mount	Wall mount VESA mount DIN-rail	Wall mount DIN-rail
Dimensions (W x D x H)	182 x 235.7 x 82 mm (7.16" x 9.27" x 3.23")	195 x 210.3 x 80 mm (7.67" x 8.27" x 3.14")	280 x 190 x 76 mm (11.02" x 7.4" x 2.99")
Weight (net/gross)	3 kg (6.61 lb)/3.6 kg (7.94 lb)	3 kg (6.61 lb)/3.6 kg (7.94 lb)	3.8 kg (8.37 lb)/4.6 kg (10.14 lb)
Certifications	CE	CE, FCC Class A	CE, FCC Class A
EOS Support	Win 10 IoT, WEBS, WES7, Linux	Win 10 IoT, Linux	Win 10 IoT, Linux
Software Support	N/A	N/A	AMS.AXView

NEW

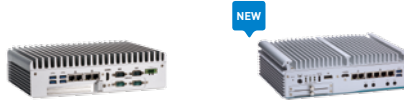


NEW



Features	Models	eBOX671-517-FL	eBOX671-521-FL
CPU Level		LGA1151 7th/6th gen Intel® Core™ i7/i5/i3 & Celeron® (35W/65W)	LGA1151 9th gen Intel® Core™ i7/i5/i3 & Celeron® (35W) LGA1151 8th gen Intel® Core™ i7/i5/i3 & Celeron® (35W/65W)
System Memory		2 x 260-pin DDR4-2133 SO-DIMM, up to 32GB	2 x 260-pin DDR4-2666 SO-DIMM, up to 64GB
Chipset		Intel® Q170	Intel® Q370 Intel® C246 (optional)
Serial		2 x RS-232/422/485	2 x RS-232/422/485
Display		1 x VGA 1 x DVI-D 1 x HDMI	1 x DisplayPort 1 x DVI-I 1 x HDMI 2 x DisplayPort via MXM (optional)
Audio		Yes	Optional
PS/2		N/A	N/A
Ethernet		8 x 10/100/1000 Mbps PoE, max. up to 90W	2 x 10/100/1000 Mbps Ethernet 4 x 10/100/1000 Mbps PoE, max. up to 60W
USB		2 x USB 2.0 4 x USB 3.0	4 x USB 3.1 Gen1 2 x USB 3.1 Gen2
Expansion Interface		2 x Full-size PCI Express Mini Card slot (USB + PCIe) 1 x Half-size PCI Express Mini Card slot (USB only) 1 x Half-size PCI Express Mini Card slot (USB + mSATA) 2 x SIM slot	2 x Full-size PCI Express Mini Card slot (USB + PCIe signal) 2 x SIM slot 1 x internal MXM 3.1 type A connector
Storage		2 x 2.5" HDD drive bay 1 x mSATA (enabled in BIOS setting)	2 x 2.5" HDD drive bay 1 x mSATA (enabled in BIOS setting)
Watchdog Timer		255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.
Power Supply		24 VDC	24 VDC
Operating Temperature		-40°C to +70°C (-40°F to +158°F) (with W.T. SSD/DRAM)	-40°C to +60°C (-40°F to +140°F) (with W.T. SSD/DRAM)
Mounting		Wall mount DIN-rail	Wall mount DIN-rail
Dimensions (W x D x H)		280 x 210 x 79.6 mm (11.02" x 8.26" x 3.13")	280 x 210 x 80.5 mm (11.02" x 8.26" x 3.16")
Weight (net/gross)		3.8 kg (8.37 lb)/4.6 kg (10.14 lb)	4.8 kg (10.58 lb)/5.6 kg (12.34 lb)
Certifications		CE, FCC Class A	CE, FCC Class A
EOS Support		Win 10 IoT, Linux	Win 10 IoT, Linux
Software Support		AMS.AXView	AMS.AXView

Embedded Systems



Features/Models	eBOX700-891-FL	eBOX710-521-FL
CPU Level	LGA1151 7th/6th gen Intel® Core™ i7/i5/i3 & Celeron®	LGA1151 Intel® Xeon®, 9th/8th gen Intel® Core™ i7/i5/i3 & Celeron® (35W)
System Memory	6th gen: 2 x 260-pin SO-DIMM DDR4-1866/2133, up to 32GB 7th gen: 2 x 260-pin SO-DIMM DDR4-2133/2400, up to 32GB	2 x 260-pin DDR4-2666 ECC/non-ECC SO-DIMM, up to 64GB
Chipset	Intel® H110	Intel® C246
Serial	2 x RS-232/422/485	2 x RS-232/422/485
Display	1 x DisplayPort 2 x HDMI	1 x DisplayPort 1 x DVI-I 1 x HDMI
Audio	Yes	Audio (optional)
PS/2	N/A	N/A
Ethernet	4 x 10/100/1000 Mbps Ethernet	6 x 10/100/1000 Mbps Ethernet
USB	2 x USB 2.0 4 x USB 3.0	4 x USB 3.2 Gen1 2 x USB 3.2 Gen2
Expansion Interface	2 x Full-size PCI Express Mini Card slot (USB + PCIe) 1 x PCIe x4 or 1 x PCI 1 x SIM slot	2 x Full-size PCI Express Mini Card slot (USB + PCIe signal) 2 x SIM slot 1 x PCIe x4 slot
Storage	1 x 2.5" HDD drive bay 1 x mSATA (enabled in BIOS setting)	2 x 2.5" HDD drive bay 1 x mSATA (enabled in BIOS setting)
Watchdog Timer	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.
Power Supply	9 to 36 VDC	24 VDC
Operating Temperature	-40°C to +50°C (-40°F to +122°F) (with W.T. SSD/DRAM)	-40°C to +70°C (-40°F to +158°F) (with W.T. SSD/DRAM)
Mounting	Wall mount DIN-rail	Wall mount DIN-rail
Dimensions (W x D x H)	280 x 190 x 76 mm (11.02" x 7.4" x 2.99")	280 x 210 x 80.5 mm (11.02" x 8.26" x 3.16")
Weight (net/gross)	3.8 kg (8.37 lb)/4.6 kg (10.14 lb)	4.8 kg (10.58 lb)/5.6 kg (12.34 lb)
Certifications	CE, FCC Class A	CE, FCC Class A
EOS Support	Win 10 IoT, Linux	Win 10 IoT, Linux
Software Support	AMS.AXView	AMS.AXView



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

Edge AI Systems

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NEW



Features	Models	AIE100-903-FL	AIE500-901-FL	AIE900-902-FL
CPU Level		NVIDIA® Jetson™ Nano SoM Quad-core ARM® Cortex®-A57 MPCore processor	NVIDIA® Jetson™ TX2 SoM HMP Dual Denver 2/2 MB L2 + Quad ARM® A57/2 MB L2	NVIDIA® Jetson™ Xavier SoM 8-core Carmel ARM v8.2 64-bit CPU, 8MB L2 + 4MB L3
GPU		NVIDIA Maxwell™ architecture with 128 NVIDIA CUDA® cores	NVIDIA® Pascal™, 256 CUDA cores	512-core NVIDIA Volta™ GPU with 64 Tensor cores
System Memory		1 x 4GB 64-bit LPDDR4 onboard	1 x 8GB 128-bit LPDDR4 onboard	1 x 16GB 256-bit LPDDR4x onboard
Chipset		SoM integrated	SoM integrated	SoM integrated
Serial		N/A	2 x RS-232 default (or 2 x CAN by jumper settings)	2 x RS-232/485 default (or 2 x CAN by jumper settings)
Display		1 x HDMI	1 x HDMI	2 x HDMI (lockable)
Ethernet		1 x 10/100/1000 Mbps Ethernet 1 x 10/100/1000 Mbps PoE, max. up to 15W	2 x 10/100/1000 Mbps Ethernet	2 x 10/100/1000 Mbps Ethernet 4 x 10/100/1000 Mbps PoE, max. up to 60W
USB		1 x USB 3.1 Gen1 1 x USB 2.0 1 x Micro USB	2 x USB 3.1 Gen1 1 x Micro USB	2 x USB 3.1 Gen2 2 x USB 3.1 Gen1 2 x USB 2.0 1 x Micro USB
Expansion Interface		1 x Full-size PCI Express Mini Card slot (USB + PCIe) 1 x SIM slot	1 x Full-size PCI Express Mini Card slot (USB + PCIe) 1 x SIM slot	1 x Full-size PCI Express Mini Card slot (USB + PCIe) 1 x M.2 Key E 2230 slot (USB+PCIe) 1 x SIM slot
Storage		Onboard 16GB eMMC (built-in Nano) 1 x M.2 Key M 2280 with PCIe 2.0 x4 NVMe SSD slot 1 x Micro SD slot	Onboard 32GB eMMC (built-in TX2) 1 x M.2 Key M 2280 with PCIe 2.0 x1 and SATA SSD slot 1 x Micro SD slot	Onboard 32GB eMMC (built-in Xavier) 1 x M.2 Key M 2280 with PCIe x4 NVMe SSD slot 1 x Micro SD slot 1 x 2.5" SSD/HDD drive bay
Watchdog Timer		Built-in Nano	Built-in TX2	Built-in Xavier
Power Supply		12 VDC	12 or 24 VDC	24 VDC default (9 to 36 VDC without PoE feature)
Operating Temperature		-30°C to +60°C (-22°F to +140°F)	-30°C to +60°C (-22°F to +140°F)	-30°C to +55°C (-22°F to +131°F)
Mounting		Wall mount DIN-rail	Wall mount VESA mount DIN-rail	Wall mount DIN-rail
Dimensions (W x D x H)		147.4 x 129.2 x 34.6 mm (5.8" x 5.08" x 1.36")	171 x 110 x 57 mm (6.73" x 4.33" x 2.24")	239 x 184.6 x 79.4 mm (9.4" x 7.26" x 3.12")
Weight (net/gross)		TBC	0.9 kg (1.98 lb)/1.6 kg (3.52 lb)	TBC
Certifications		CE, FCC Class A	CE, FCC Class A	CE, FCC Class A
EOS Support		Linux Ubuntu 18.04	Linux Ubuntu 18.04	Linux Ubuntu 18.04

Transportation Embedded Systems & Switches

Certification Guide



V: Certified △: Compliant

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



V: Certified △: Compliant

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

*Please refer to system datasheets and getting more certification standards info.

**For EN45545-2, test report is available exclusively.

***Please check datasheet for more detail.

Transportation Embedded Systems



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



Features/Models	tBOX300-510-FL	tBOX400-510-FL	tBOX500-510-FL
CPU Level	Intel® Core™ i7-7600U 2.8 GHz Intel® Core™ i5-7300U 2.6 GHz Intel® Core™ i3-7100U 2.4 GHz Intel® Celeron® 3965U 2.2 GHz	Intel® Core™ i7-7600U 2.8 GHz Intel® Core™ i5-7300U 2.6 GHz Intel® Core™ i3-7100U 2.4 GHz Intel® Celeron® 3965U 2.2 GHz	Intel® Core™ i7-7600U 2C @ 2.8 GHz Intel® Core™ i5-7300U 2C @ 2.6 GHz Intel® Core™ i3-7100U 2C @ 2.4 GHz Intel® Celeron® 3965U 2C @ 2.2 GHz
System Memory	2 x DDR4-1866/2133 SO-DIMM, up to 32GB	2 x DDR4-1866/2133 SO-DIMM, up to 32GB	2 x DDR4-1866/2133 SO-DIMM, up to 32GB
Chipset	SoC integrated	SoC integrated	SoC integrated
TPM	TPM 2.0 (optional)	TPM 2.0 (optional)	TPM 2.0 (optional)
Serial	1 x Serial console or RS-232/422/485	1 x Serial console or RS-232/422/485	1 x Serial console or RS-232/422/485
CANBus	N/A	N/A	N/A
Display	1 x DVI-I (1 x VGA and 1 x DVI)	1 x DVI-I (1 x VGA and 1 x DVI)	1 x DVI-I (1 x VGA and 1 x DVI)
Audio	1 x Mic-in, 1 x Line-out	1 x Mic-in, 1 x Line-out	1 x Mic-in, 1 x Line-out
Ethernet	1 x RJ-45 10/100/1000 Mbps Ethernet	8 x M12 D-coded 10/100 Mbps Ethernet 2 x M12 A-coded 10/100/1000 Mbps Ethernet 1 x RJ-45 10/100/1000 Mbps Ethernet	1 x RJ-45 10/100/1000 Mbps Ethernet
USB	4 x USB 3.0	4 x USB 3.0	4 x USB 3.0
DIO	N/A	N/A	N/A
Expansion Interface	3 x Full-size PCI Express Mini Card slot 2 x SIM card slot 1 x Value-added module slot	x Full-size PCI Express Mini Card slot 2 x SIM card slot	3 x Full-size PCI Express Mini Card slot 2 x SIM card slot 2 x Value-added module slot
Storage	4 x Swappable 2.5" SATA drive 1 x mSATA (occupied 1 PCIe Mini card)	2 x Swappable 2.5" SATA drive 1 x mSATA (occupied 1 PCIe Mini card)	2 x Swappable 2.5" SATA drive 1 x mSATA (occupied 1 PCIe Mini card)
RAID function	Marvell HW RAID 0/1/10	Intel® RAID 0/1	Intel® RAID 0/1
Watchdog Timer	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.
Power Supply	Railway: 24 - 110 VDC (M12) Marine: 24 VDC (terminal block)	Railway: 24 - 110 VDC (M12)	Railway: 24 VDC (M12) Vehicle: 12/24 VDC (ACC ignition, terminal block) Marine: 24 VDC (terminal block)
Operating Temperature	25°C to +70°C (-13°F to +158°F) with W.T. peripheral -25°C to +60°C (-13°F to +140°F) with PSU120 & W.T. peripheral	-40°C to +70°C (-40°F to +158°F) with W.T. peripheral -40°C to +60°C (-40°F to +140°F) with PSU120 & W.T. peripheral	-40°C to +70°C (-40°F to +158°F) with W.T. peripheral -40°C to +60°C (-40°F to +140°F) with PSU120 & W.T. peripheral
Mounting	Wall mount	Wall mount	Wall mount
Dimensions (W x D x H) without Mounting	321 x 210.2 x 105.33 mm (12.64" x 8.28" x 4.15")	321 x 210.2 x 73.3 mm (12.64" x 8.28" x 2.89")	321 x 210.2 x 73.3 mm (12.64" x 8.28" x 2.89")
Weight (net/gross)	5.5 kg (12.13 lb)/6.7 kg (14.77 lb)	3.5 kg (7.72 lb)/5.17 kg (11.40 lb)	3.5 kg (7.72 lb)/5.1 kg (11.24 lb)
Certifications	CE (Class A), LVD, FCC (Class A) and EN 50155 certified; EN 45545-2 and IEC 60945 compliant	CE (Class A), LVD and FCC (Class A) certified; EN 50155 and EN 45545-2 compliant	CE (Class A), LVD, FCC (Class A), EN 50155, EN 45545-2, and IEC 60945 certified; ISO 7637-2 compliant
EOS Support	Windows® 10 64-bit, Ubuntu 18.04	Windows® 10 64-bit, Ubuntu 18.04	Windows® 10 64-bit, Ubuntu 16.04.1
Software Support	AMS.AXView	AMS.AXView	AMS.AXView

Transportation Embedded Systems

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Features/Models	UST100-504-FL	UST500-517-FL	Agent336
CPU Level	7th gen Intel® Core™ 35W (socket type) 6th gen Intel® Core™ 35W (socket type)	7th gen Intel® Core™ 35 - 65W (socket type) 6th gen Intel® Core™ 35 - 65W (socket type)	NXP i.MX 8M Arm® Cortex®-A53, QUAD/QuadLite 1.3GHz
System Memory	1 x DDR4-1866/2133/2400 SO-DIMM, up to 16GB	2 x DDR4-1866/2133/2400, up to 32GB	1 x LPDDR4 3GB onboard
Chipset	Intel® H110	Intel® Q170	SoC integrated
TPM	TPM 2.0	TPM 2.0 (optional)	N/A
Serial	1 x DB9 Serial console or RS-232/422/485 (optional)	2 x Serial console or RS-232/422/485	2 x RS-232/422/485 (selected by software)
CANBus	N/A	N/A	1 x Isolated CANBus B
Display	1 x HDMI 1.4b	1 x VGA, 1 x DVI-D, 1 x HDMI	1 x HDMI
Audio	1 x Mic-in, 1 x Line-out (optional)	1 x Mic-in, 1 x Line-out	N/A
Ethernet	2 x RJ-45 10/100/1000 Mbps Ethernet (Intel® i211-IT)	8 x RJ-45 GbE LAN (with 2 SATA) 16 x RJ-45 GbE LAN (with 4 SATA or 2 SATA) 8 x RJ-45, 8 x M12 A-coded GbE LAN (with 4 SATA) 8 x M12 A-coded GbE LAN (with 4 SATA) (Intel® i211-AT)	1 x 10/100/1000 Mbps Ethernet (isolation 1.5 kV)
USB	4 x USB 3.0	4 x USB 3.0	2 x USB 3.0 Type A
DIO	1 x 4-in/4-out programmable DIO (optional)	1 x Isolated DIO 6-in/2-out	1 x Isolated DIO 2-in/2-out (TB 2 x 4P)
Expansion Interface	2 x Full-size Rev.1.2 PCI Express Mini Card slot 1 x Half-size Rev.1.2 PCI Express Mini Card slot	2 x Full-size PCI Express Mini Card slot 2 x Half-size PCI Express Mini Card slot 2 x External accessible SIM card slot	1 x PCIe Mini Card socket (USB & PCIe interface) 1 x PCIe Mini Card socket with 1 SIM socket (USB & PCIe interface)
Storage	1 x Internal 2.5" SATA drive 1 x Full-sized mSATA (occupied PCIe Mini card) 1 x Half-sized mSATA (occupied PCIe Mini card)	2 x 2.5" internal SATA drive (with 2 SATA) 2 x 2.5" swappable SATA drive (with 2 SATA) 4 x 2.5" swappable SATA drive (with 4 SATA) 1 x mSATA (occupied 1 PCIe Mini card)	1 x eMMC 8GB onboard 1 x Micro SD card socket
RAID function	N/A	Intel® RAID 0/1/5/10	N/A
Watchdog Timer	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.	256 levels, 0 to 128 sec.
Power Supply	24 VDC (ACC ignition, terminal block)	24 VDC (ACC ignition, terminal block)	9 to 36 VDC (ACC ignition)
Operating Temperature	-40°C to +60°C (-40°F to +140°F) with W.T. peripheral	-40°C to +70°C (-40°F to +158°F) with W.T. peripheral	-40°C to +70°C (-40°F to +158°F)
Mounting	Wall mount	Wall mount	Wall mount
Dimensions (W x D x H) without Mounting	185 x 150 x 65.15 mm (7.09" x 5.91" x 2.56")	2 internal SATA SKU: 280 x 210.5 x 70 mm (11.02" x 8.27" x 2.76") 2 swappable SATA SKU: 280 x 210.5 x 83.7 mm (11.02" x 8.27" x 3.30") 4 swappable SATA SKU: 280 x 210.5 x 99.2 mm (11.02" x 8.27" x 3.91")	163.8 x 118 x 44 mm (6.4" x 4.6" x 1.7")
Weight (net/gross)	1.71 kg (3.77 lb)/2.19 kg (4.83 lb)	2 internal SATA SKU: 3.95 kg (8.71 lb)/4.97 kg (10.96 lb) 2 swappable SATA SKU: 4.92 kg (10.85 lb)/5.75 kg (12.68 lb) 4 swappable SATA SKU: 4.92 kg (10.85 lb)/5.74 kg (12.65 lb)	1.0 kg (2.2 lb)/1.20 kg (1.10 lb)
Certifications	CE, FCC certified; and ISO 7637-2 compliant	CE (Class A), FCC (Class A) certified; EN 50155, ISO 7637-2 compliant	CE Class A, E-Mark
EOS Support	Windows® 10 64-bit, Windows® 7 64-bit, Ubuntu 18.04	Windows® 10 64-bit, Windows® 7 64/32-bit (for 6th gen Intel CPU)	Yocto Linux, Kernel 4.9.51, Android O8.1.0 (Linux Kernel 4.9.78)
Software Support	AMS.AXView	AMS.AXView	N/A

Transportation Ethernet Switches



Features	Models	TEN710MW	TEN710UW
Management		Managed Switch (supports ERPSv2, recover less than 20ms)	Unmanaged Switch
Layer		2	2
Construction		SECC enclosure, IP54	SECC enclosure, IP54
System Performance		Packet buffer 12 Mbits MAC address table size 16K Switching capacity 5.6 Gbps Forwarding rate 4.166 Mpps	Packet buffer 12 Mbits MAC address table size 16K Switching capacity 5.6 Gbps Forwarding rate 4.166 Mpps
Port		10	10
Interface		2 x M12 X-Coded 10/100/1000 Mbps LAN with bypass function 8 x M12 D-Coded 10/100 Mbps PoE* LAN	2 x M12 X-Coded 10/100/1000 Mbps LAN with bypass function 8 x M12 D-Coded 10/100 Mbps PoE* LAN
Console		1 x M12 A-coded RS-232 console	1 x M12 A-coded RS-232 console
Indicator		Unit power/status Port link/active & PoE	Unit power/status Port link/active & PoE
PoE Performance*		Max.150W output supports PoE & PoE+ - PoE (IEEE 802.3af 15.4W/port) - PoE+ (IEEE 802.3at 30W/port)	Max.150W output supports PoE & PoE+ - PoE (IEEE 802.3af 15.4W/port) - PoE+ (IEEE 802.3at 30W/port)
PoE Power Management*		Per port enable/disable, priority setting, overloading protection PD active check/PoE scheduling, PD classification Power feeding detecting capacity on PD	Per port enable/disable, priority setting, overloading protection PD active check/PoE scheduling, PD classification Power feeding detecting capacity on PD
Alarm Relay		Relay with current carrying capacity of 1A @ 24 VDC	Relay with current carrying capacity of 1A @ 24 VDC
Security & Management		Tag VLAN, IGMP Snooping, Quality of Service (QoS), Link Aggregation Control Protocol (LACP), Rate Control	N/A
Power Supply		Redundant dual inputs of 24/48/24-48 or 72-110 VDC-in	Redundant dual inputs of 24/48/24-48 or 72-110 VDC-in
Operating Temperature		-40°C to +75°C (-40°F to +167°F)	-40°C to +75°C (-40°F to +167°F)
Mounting		Wall mount and DIN-rail	Wall mount and DIN-rail
Dimensions (W x D x H)		143 x 77 x 209 mm (5.63" x 3.03" x 8.23")	143 x 77 x 209 mm (5.63" x 3.03" x 8.23")
Weight (net/gross)		2.2 kg (4.85 lb)/2.5 kg (5.51 lb)	2.2 kg (4.85 lb)/2.5 kg (5.51 lb)
Certifications		CE (Class A), FCC (Class A), EN 50155, EN 45545-2	CE (Class A), FCC (Class A), EN 50155, EN 45545-2

* Only for PoE Switch SKUs, see ordering info

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

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x86-based DIN-rail Embedded Systems



Features\Models	ICO100-839	ICO120-83D	ICO300
CPU Level	Intel® Celeron® N3350 1.1 GHz	Intel® Celeron® N3350 1.1 GHz	Intel® Atom® E3827 1.75 GHz Intel® Atom® E3815 1.46 GHz
System Memory	1 x DDR3L 1866 SO-DIMM, up to 8GB	1 x DDR3L 1866 SO-DIMM, up to 8GB	1 x DDR3L 1600 SO-DIMM, up to 8GB
Chipset	SoC integrated	SoC integrated	SoC integrated
TPM	TPM 1.2 (optional)	TPM 1.2 (optional)	TPM 1.2 (optional)
Serial	2 x Serial console or RS-232/422/485	1 x Serial console or RS-232/422/485 (ICO120-COM)	4 x Serial console or RS-232/422/485
CANBus	N/A	1 x CANBus 2.0 A/B (ICO120-CAN)	N/A
Display	1 x VGA	1 x VGA	1 x VGA
Ethernet	1 x 10/100/1000 Mbps Ethernet (Intel® i210-IT/Intel® i211-AT)	1 x 10/100/1000 Mbps Ethernet (Intel® i210-IT/Intel® i211-AT)	2 x 10/100/1000 Mbps Ethernet (Intel® i211-AT)
USB	2 x USB 2.0	2 x USB 2.0	2 x USB 2.0
DIO	1 x 8-bit programmable DIO	1 x 8-bit programmable DIO	1 x 8-bit programmable DIO
Expansion Interface	2 x Full-size PCI Express Mini Card slot	1 x Half-size PCI Express Mini Card slot 1 x Full-size PCI Express Mini Card slot	1 x Full-size PCI Express Mini Card slot
Storage	1 x Full-size mSATA (occupied 1 PCI Express Mini Card slot) 1 x eMMC Flash onboard (optional)	1 x Half-size mSATA (occupied 1 PCI Express Mini Card slot) 1 x eMMC Flash onboard (optional)	1 x Full-size mSATA (occupied 1 PCI Express Mini Card slot, mSATA/ wireless module either one) 1 x CF™ (mSATA/ CF™ either one) 1 x 2.5" SATA SSD/HDD
Watchdog Timer	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.
Power Supply	12 to 24 VDC (terminal block)	12 to 24 VDC (terminal block)	12 to 24 VDC (terminal block)
Power Consumption	12V - 24 V, 1.15A - 0.62A	12V - 24 V, 1.39A - 0.72A	12V - 24 V, 1.21A - 0.66A (ICO300-E3815) 12V - 24 V, 1.42A - 0.74A (ICO300-E3827)
PoE	N/A	N/A	N/A
Operating Temperature	-20°C to +70°C (-4°F to +158°F) -40°C to +70°C (-40°F to +158°F) (ICO100-WT)	-20°C to +70°C (-4°F to +158°F) -40°C to +70°C (-40°F to +158°F) (ICO120-WT)	-20°C to +70°C (-4°F to +158°F)
Mounting	DIN-rail/wall mount (optional)	DIN-rail/wall mount (optional)	DIN-rail/wall mount (optional)
Dimensions (W x D x H)	31 x 100 x 125 mm (1.22" x 3.93" x 4.92")	31 x 100 x 125 mm (1.22" x 3.93" x 4.92")	48 x 110 x 155 mm (1.88" x 4.33" x 6.1")
Weight (net/gross)	0.3 kg (0.67 lb)/0.46 kg (1 lb)	0.3 kg (0.67 lb)/0.46 kg (1 lb)	1.0 kg (2.2 lb)/1.50 kg (3.3 lb)
Certifications	CE, FCC	CE, FCC	CE, FCC, UL
EOS Support	Windows® 10 64-bit, Linux	Windows® 10 64-bit, Linux	Windows® 10 64-bit, Linux
Software Support	AMS.AXView	AMS.AXView	N/A



Features\Models	ICO300-83B	ICO310	ICO320-83C
CPU Level	Intel® Celeron® N4200 1.1 GHz Intel® Celeron® N3350 1.1 GHz	Intel® Celeron® N3160 1.6 GHz Intel® Celeron® N3060 1.6 GHz	Intel® Pentium® N4200 1.1 GHz (by request) Intel® Celeron® N3350 1.1 GHz
System Memory	1 x DDR3L-1866 SO-DIMM, up to 8GB	1 x DDR3L-1600 SO-DIMM, up to 8GB	1 x DDR3L-1866 SO-DIMM, up to 8GB
Chipset	SoC integrated	SoC integrated	SoC integrated
TPM	TPM 1.2 (optional)	N/A	TPM 2.0 (optional)
Serial	4 x Serial console or RS-232/422/485 (ICO300-83B-4 COM) 2 x Serial console or RS-232/422/485 (ICO300-83B-2 COM)	2 x Serial console or RS-232/422/485 (ICO300-83B-4 COM)	2 x Serial console or RS-232/422/485 (IC0320-2COM) 1 x Serial console or RS-232/422/485 (IC0320-COM-CAN)
CANBus	N/A	N/A	1 x CANBus 2.0 A/B (IC0320-COM-CAN)
Display	1 x VGA or HDMI	1 x VGA	1 x VGA
Ethernet	2 x 10/100/1000 Mbps Ethernet (Intel® i210-IT/Intel® i211-AT)	2 x 10/100/1000 Mbps Ethernet (Intel® i211-AT)	4 x 10/100/1000 Mbps Ethernet (Intel® i211-AT)
USB	4 x USB 3.0	2 x USB 3.0 2 x USB 2.0	2 x USB 3.0
DIO	N/A	1 x 8-bit programmable DIO	1 x 8-bit 5V TTL DIO (8-bit programmable, optional)
Expansion Interface	2 x Full-size PCI Express Mini Card slot	2 x Full-size PCI Express Mini Card slot	1 x Half-size PCI Express Mini Card slot 1 x Full-size PCI Express Mini Card slot
Storage	1 x Full-size mSATA (occupied 1 PCI Express Mini Card slot, mSATA/ wireless module either one) 1 x 2.5" SATA SSD/HDD	1 x Full-size mSATA (occupied 1 PCI Express Mini Card slot, mSATA/ wireless module either one) 1 x 2.5" SATA SSD/HDD	1 x Half-size mSATA (occupied 1 PCI Express Mini Card slot, mSATA/ wireless module either one) 1 x 2.5" SATA SSD/HDD
Watchdog Timer	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.
Power Supply	12 to 24 VDC (terminal block) 12V - 24V, 2.82A - 1.34A (ICO300-83B-N3350) 12V - 24V, 3.27A - 1.62A (ICO300-83B-N4200)	12 to 24 VDC (terminal block) 12V - 24V, 2.18A - 1.1A (ICO310-N3060) 12V - 24V, 2.25A - 1.18A (ICO310-N3160)	12 to 24 VDC (terminal block) 12V - 24V, 1.6A - 0.81A (IC0320-4LAN) 12V - 24V, 4.05A - 2.05A (IC0320-4PoE)
PoE	N/A	PoE+ (PD, 802.3at 25.5W/port)	PoE power output max. 30W 802.3af class 2, 7.5W, max 4 ports 802.3af class 3, 15.4W, max 2 ports 802.3at class 4, 30W, max 1 port
Operating Temperature	-20°C to +70°C (-4°F to +158°F) (ICO300-83B-N3350) -40°C to +70°C (-40°F to +158°F) (ICO300-83B-N3350-WT) -40°C to +60°C (-4°F to +140°F) (ICO300-83B-N4200-WT)	-20°C to +60°C (-4°F to +140°F)* (IC0310-N3060, IC0310-N3060-PD, IC0310-N3160) or over +50°C (IC0310-N3160-PD)	-40°C to +70°C (-4°F to +158°F)
Mounting	DIN-rail/wall mount (optional)	DIN-rail/wall mount (optional)	DIN-rail/wall mount (optional)
Dimensions (W x D x H)	48 x 110 x 155 mm (1.88" x 4.33" x 6.1")	48 x 110 x 155 mm (1.88" x 4.33" x 6.1")	48 x 110 x 155 mm (1.88" x 4.33" x 6.1") (IC0320-4LAN) 77 x 110 x 155 mm (3.03" x 4.33" x 6.1") (IC0320-4PoE)
Weight (net/gross)	1.0 kg (2.2 lb)/1.50 kg (3.3 lb)	1.0 kg (2.2 lb)/1.50 kg (3.3 lb)	1.2 kg (2.2 lb)/1.70 kg (3.3 lb) (IC0320-4PoE) 1.0 kg (2.2 lb)/1.50 kg (3.3 lb) (IC0320-4LAN)
Certifications	CE, FCC	CE, FCC	CE, FCC
EOS Support	Windows® 10 64-bit, Linux	Windows® 10 64-bit, Linux	Windows® 10 64-bit, Linux
Software Support	N/A	AMS.AXView	N/A

*The frequency of CPU will down when system operating temp. over +55°C

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

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x86-based DIN-rail Embedded Systems

NEW



Features\Models	ICO500-518	rBOX510-6COM(ATEX/C1D2)
CPU Level	Intel® Core™ i7-7600U 2.8 GHz Intel® Core™ i5-7300U 2.6 GHz Intel® Core™ i3-7100U 2.4 GHz Intel® Celeron® 3965U 2.2 GHz	Intel® Atom™ E3845 1.91 GHz (by request) Intel® Atom™ E3827 1.75 GHz
System Memory	1 x DDR4-2133 SO-DIMM, up to 16GB	1 x DDR3L-1333 SO-DIMM, 4GB onboard
Chipset	SoC integrated	SoC integrated
TPM	TPM 2.0	N/A
Serial	1 x Serial console or RS-232/422/485	2 x Serial console or RS-232/422/485 4 x Serial console or RS-232/422/485 (terminal block)
CANBus	N/A	N/A
Display	1 x VGA	1 x VGA
Ethernet	2 x 10/100/1000 Mbps Ethernet (Intel® i210-IT)	2 x 10/100/1000 Mbps Ethernet (Intel® i210-IT)
USB	4 x USB 3.0	1 x USB 2.0 1 x USB 3.0
DIO	1 x Isolated 4-in/4-out DIO (terminal block)	1 x Isolated 8-in/8-out DIO (terminal block)
Expansion Interface	2 x Full-size PCI Express Mini Card slot	1 x Full-size PCI Express Mini Card slot 2 x Full-size PCI Express Mini Card slot
Storage	1 x External CFast™ 1 x 2.5" SATA SSD/HDD	1 x Full-size mSATA (occupied 1 PCI Express Mini Card slot, mSATA/wireless module either one) 1 x External CF™ 1 x 2.5" SATA SSD/HDD
Watchdog Timer	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.
Power Supply	12 to 24 VDC (terminal block)	12 to 24 VDC (terminal block)
Power Consumption	12V - 48V, 4.01A - 1.01A	12V - 48V, 1.63A - 0.45A
PoE	N/A	N/A
Operating Temperature	-40°C to +70°C (-40°F to +158°F) with 2 PIM (PIM700 excluded) -40°C to +60°C (-40°F to +140°F) with 1 PIM700, 1 the other PIM -40°C to +50°C (-40°F to +122°F) with 2 PIM700	-40°C to +70°C (-40°F to +158°F)
Mounting	DIN-rail	DIN-rail/wall mount (optional)
Dimensions (W x D x H)	145 x 125 x 155 mm (5.7" x 4.92" x 6.1")	85 x 110 x 155 mm (3.37" x 4.33" x 6.1")
Weight (net/gross)	2.2 kg (4.85 lb)/2.7 kg (5.95 lb) (PIM module excluded)	1.5 kg (3.3 lb)/1.88 kg (4.14 lb)
Certifications	CE, FCC	CE, FCC, ATEX, C1D2
EOS Support	Windows® 10 64-bit, Linux	Windows® 7 Embedded, Windows® 8 Embedded, Linux
Software Support	AMS.AX/view	AMS.AX/view

ARM-based DIN-rail Embedded Systems

NEW



Features\Models	Agent200-FL-DC	IRU131	IRU151
CPU Level	NXP i.MX 6UltraLite, ARM® Cortex®-A7, 528 MHz	NXP i.MX 6UltraLite, ARM® Cortex®-A7, 528 MHz	NXP i.MX 6UltraLite, ARM® Cortex®-A7, 528 MHz
System Memory	1 x DDR3 256MB onboard	1 x DDR3 512MB onboard	1 x DDR3 512MB onboard
Serial	1 x RS-232/422/485 (selected by software)	1 x RS-232/422/485 (selected by software)	1 x RS-232/422/485 (selected by software)
CANBus	1 x CANBus (optional)	N/A	N/A
Console Port	Yes For user setting with debug	Yes For user setting with debug	Yes For user setting with debug
Ethernet	1 x 10/100 Mbps (isolation 1.5 kV)	1 x 10/100 Mbps (isolation 1.5 kV)	1 x 10/100 Mbps (isolation 1.5 kV)
Wireless	2 x PCI Express Mini Card slot (USB signal only) 1 x SIM card socket	2 x PCI Express Mini Card slot (USB signal only) 1 x SIM card socket	2 x PCI Express Mini Card slot (USB signal only) 1 x SIM card socket
DIO	1 x DIO (4-in/4-out)	1 x DIO (2-in/2-out)	1 x DIO (2-in/2-out)
USB	1 x USB 2.0	1 x USB 2.0	1 x USB 2.0
Expansion Interface	N/A	N/A	4 AI channels (16-bit, 100 S/s)
Storage	1 x eMMC 4GB -ash onboard	1 x eMMC 8GB onboard	1 x eMMC 8GB onboard
Watchdog Timer	0.5 to 128 sec. (time resolution of 0.5 sec.)	0.5 to 128 sec. (time resolution of 0.5 sec.)	0.5 to 128 sec. (time resolution of 0.5 sec.)
Power Input	9 to 48 VDC	9 to 48 VDC	9 to 48 VDC
Operating Temperature	-40°C to +70°C (-40°F to +158°F)	-40°C to +70°C (-40°F to +158°F)	-40°C to +70°C (-40°F to +158°F)
Dimensions (W x D x H)	31 x 100 x 125 mm (1.22" x 3.94" x 4.92")	55 x 82 x 108 mm (2.16" x 3.23" x 4.25")	55 x 82 x 108 mm (2.16" x 3.23" x 4.25")
Weight (net/gross)	0.3 kg (0.66 lb)/0.44 kg (0.97 lb)	0.3 kg (0.66 lb)/0.50 kg (1.10 lb)	0.32 kg (0.71 lb)/0.53 kg (1.17 lb)
Certifications	Heavy industrial CE, FCC part 15	Heavy industrial CE, FCC part 15	Heavy industrial CE, FCC part 15
OS Support	Yocto Sumo	Yocto (Linux Kernel: 3.14.52)	Yocto (Linux Kernel: 3.14.52)

ARM-based DIN-rail Embedded Systems



Features	Models	IRU151-I	IRU152	IRU152-I
CPU Level		NXP i.MX 6UltraLite, ARM® Cortex®-A7, 528 MHz	NXP i.MX 6UltraLite, ARM® Cortex®-A7, 528 MHz	NXP i.MX 6UltraLite, ARM® Cortex®-A7, 528 MHz
System Memory		1 x DDR3 512MB onboard	1 x DDR3 512MB onboard	1 x DDR3 512MB onboard
Wireless		2 x PCI Express Mini Card slot (USB signal only) 1 x SIM card socket	2 x PCI Express Mini Card slot (only USB signal) 1 x SIM Card socket	2 x PCI Express Mini Card slot (USB signal only) 1 x SIM card socket
Serial		1 x RS-232/422/485 (console/COM switch)	1 x RS-232/422/485 (selected by software)	1 x RS-232/422/485 (console/COM switch)
DIO		1 x DIO (2-in/2-out) (isolation 2kV)	1 x DIO (2-in/2-out) (isolation 2kV)	1 x DIO (2-in/2-out) (isolation 2kV)
Analog Input		4 AI channels (16-bit, 100 S/s) Input range: 0 - 20mA, ±20mA Resolution: 16-bit	4 AI channels (16-bit, 250 kS/s)	4 AI channels (16-bit, 250 kS/s) Input range: 0 - 20mA, ±20mA Resolution: 16-bit
Ethernet		2 x 10/100 Mbps Ethernet (isolation 1.5kV)	1 x 10/100 Mbps (isolation 1.5 kV)	2 x 10/100 Mbps Ethernet (isolation 1.5kV)
USB		1 x USB	1 x USB 2.0	1 x USB
Device ID		ID setting 0 to 255	ID setting 0 to 255	ID setting 0 to 255
Storage		1 x eMMC 8GB flash onboard	1 x eMMC 8GB onboard	1 x eMMC 8GB flash onboard
Watchdog Timer		0.5 to 128 sec. (time resolution of 0.5 sec.)	0.5 to 128 sec. (time resolution of 0.5 sec.)	0.5 to 128 sec. (time resolution of 0.5 sec.)
Power Supply		9 to 48 VDC	9 to 48 VDC	9 to 48 VDC
Operating Temperature		-40°C to +70°C (-40°F to +158°F)	-40°C to +70°C (-40°F to +158°F)	-40°C to +70°C (-40°F to +158°F)
DIN-rail		Yes	Yes	Yes
Dimensions (W x D x H)		55 x 82 x 108 mm (2.16" x 3.23" x 4.25")	55 x 82 x 108 mm (2.16" x 3.23" x 4.25")	55 x 82 x 108 mm (2.16" x 3.23" x 4.25")
Weight (net/gross)		0.32 kg (0.71 lb)/0.53 kg (1.17 lb)	0.32 kg (0.71 lb)/0.53 kg (1.17 lb)	0.32 kg (0.71 lb)/0.53 kg (1.17 lb)
Certifications		Heavy industrial CE, FCC part 15	Heavy industrial CE, FCC part 15	Heavy industrial CE, FCC part 15
EOS Support		Yocto (Linux Kernel: 3.14.52)	Yocto (Linux Kernel: 3.14.52)	Yocto (Linux Kernel: 3.14.52)



Features\Models	IFB112	IFB122	IFB125
CPU Level	NXP i.MX 6UltraLite, ARM® Cortex®-A7, 528 MHz	NXP i.MX 6UltraLite, ARM® Cortex®-A7, 528 MHz	NXP i.MX 6UltraLite, ARM® Cortex®-A7, 528 MHz
System Memory	1 x DDR3 256MB onboard	1 x DDR3 256MB onboard	1 x DDR3 256MB onboard
Serial	1 x RS-232/422/485 (selected by software)	2 x RS-232/422/485 (selected by software)	1 x RS-232/422/485
CANbus	1 x CANBus	N/A	N/A
Console Port	Yes	Yes	Yes
Ethernet	2 x 10/100 Mbps Ethernet (isolation 1.5kV)	2 x 10/100 Mbps Ethernet (isolation 1.5kV)	2 x 10/100 Mbps Ethernet (isolation 1.5kV)
Wireless	1 x PCI Express Mini Card slot (USB signal only) 1 x SIM card socket	1 x PCI Express Mini Card slot (USB signal only) 1 x SIM card socket	1 x PCI Express Mini Card slot (USB signal only) 1 x SIM card socket
DIO	1 x DIO (2-in/1-out)	1 x DIO (2-in/1-out)	1 x DIO (2-in/1-out)
USB	1 x USB 2.0	1 x USB 2.0	1 x USB 2.0
Expansion Interface	N/A	N/A	1 x I ² C (with 3.3V @ 0.5A powered) 1 x SPI (with 3.3V @ 0.5A powered) (DB9 connector)
Storage	1 x eMMC 4GB flash onboard	1 x eMMC 4GB onboard	1 x eMMC 8GB flash onboard
Watchdog Timer	0.5 to 128 sec. (time resolution of 0.5 sec.)	0.5 to 128 sec. (time resolution of 0.5 sec.)	0.5 to 128 sec. (time resolution of 0.5 sec.)
Power Input	9 to 48 VDC	9 to 48 VDC	9 to 48 VDC
Operating Temperature	-40°C to +70°C (-40°F to +158°F)	-40°C to +70°C (-40°F to +158°F)	-40°C to +70°C (-40°F to +158°F)
Dimensions (W x D x H)	31 x 100 x 125 mm (1.22" x 3.94" x 4.92")	31 x 100 x 125 mm (1.22" x 3.94" x 4.92")	31 x 100 x 125 mm (1.22" x 3.94" x 4.92")
Weight (net/gross)	0.3 kg (0.66 lb)/0.44 kg (0.97 lb)	0.3 kg (0.66 lb)/0.44 kg (0.97 lb)	0.3 kg (0.66 lb)/0.44 kg (0.97 lb)
Certifications	Heavy industrial CE, FCC part 15	Heavy industrial CE, FCC part 15	Heavy industrial CE, FCC part 15
OS Support	Yocto (Linux Kernel: 3.14.52)	Yocto (Linux Kernel: 3.14.52)	Yocto (Linux Kernel: 3.14.52)

Embedded MicroBoxes

Model	Accessory Specifications			Dimensions	Mini ITX
	Drive Bay	Expansion Slot	Power Supply		
 AX60630	1 x 2.5"	N/A	12V, 60W	259.5 x 186 x 58.5 mm	MAN0300 MAN0842
 AX60650	1 x 2.5"	N/A	PSU 150W	202 x 320 x 73 mm	MAN0500 MAN0881 MAN0882 MAN0873
 ECM100	2 x 2.5"	N/A	ATX 250W Input: AC 115 to 230V Output: +3.3V @ 10A, +5V @ 10A, +12V @ 8.5A, -12V @ 0.4A, +5VSB @ 1A, +5VSB @ 2.5A	265 x 250 x 71.5 mm	MAN0500 MAN0520
 ECM300	1 x 3.5"	2 x PCIe x8 or 1 x PCIe x16	ATX 250W Input: AC 115 to 230V Output: +3.3V @ 10A, +5V @ 10A, +12V @ 8.5A, -12V @ 0.4A, +5VSB @ 1A, +5VSB @ 2.5A	335 x 250 x 88 mm	MAN0500 MAN0520

Industrial Systems



Features/Models	IPC962-511-FL	IPC962-512-FL	IPC964-512-FL
CPU Level	7th/6th gen Intel® Core™ i7/i5/i3 & Celeron® up to 65W	7th/6th gen Intel® Core™ i7/i5/i3 & Celeron® up to 65W	7th/6th gen Intel® Core™ i7/i5/i3 & Celeron® up to 65W
System Memory	2 x DDR4-2133/2400 un-buffered SO-DIMM, up to 32GB	2 x DDR4-2133/2400 un-buffered SO-DIMM, up to 32GB	2 x DDR4-2133/2400 un-buffered SO-DIMM, up to 32GB
Chipset	Intel® H110	Intel® Q170	Intel® Q170
Extension System I/O Module	AX93511: 4 x RS-232/422/485 module (default RS-232) AX93512: 2 x RS-232/422/485 with isolated 1.5KVDC module and 8-in/8-out isolated DIO AX93516: 4 x RS-232/422/485 isolated 2KVDC module (default RS-232) Blank I/O cover	AX93511: 4 x RS-232/422/485 module (default RS-232) AX93512: 2 x RS-232/422/485 with isolated 1.5KVDC module and 8-in/8-out isolated DIO AX93516: 4 x RS-232/422/485 isolated 2KVDC module (default RS-232) AX93519: 1 x 10/100/1000 Mbps Ethernet, 2 x RS-232/422/485 and 2 x USB 3.0 module Blank I/O cover	AX93511: 4 x RS-232/422/485 module (default RS-232) AX93512: 2 x RS-232/422/485 with isolated 1.5KVDC module and 4-in/4-out isolated DIO AX93516: 4 x RS-232/422/485 isolated 2KVDC module (default RS-232) AX93519: 1 x 10/100/1000 Mbps Ethernet, 2 x RS-232/422/485 and 2 x USB 3.0 module Blank I/O cover
Display	1 x HDMI 1 x VGA	1 x HDMI 1 x VGA	1 x HDMI 1 x VGA
Audio	Yes	Yes	Yes
PS/2	N/A	N/A	N/A
Ethernet	2 x 10/100/1000 Mbps Ethernet	2 x 10/100/1000 Mbps Ethernet	2 x 10/100/1000 Mbps Ethernet
USB	4 x USB 3.0	4 x USB 3.0	4 x USB 3.0
Expansion Interface	1 PCIe x16 + 1 PCIe x4 or 1 PCIe x16 + 1 PCI or 2 PCI 1 PCI Express Mini Card slot (USB 2.0 interface)	1 PCIe x16 + 1 PCIe x4 or 1 PCIe x16 + 1 PCI or 2 PCI 1 PCI Express Mini Card slot (PCIe and USB 2.0 interface)	1 PCIe x16 + 3 PCIe x4 or 1 PCIe x16 + 1 PCIe x4 + 2 PCI 1 PCI Express Mini Card slot (PCIe and USB 2.0 interface)
Storage	2 x 2.5" swappable HDD	2 x 2.5" swappable HDD	2 x 2.5" swappable HDD
Watchdog Timer	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.
Power Input	24 VDC (uMin=19V/uMax=30V)	24 VDC (uMin=19V/uMax=30V)	24 VDC (uMin=19V/uMax=30V)
Operating Temperature	-10°C to +60°C (+14°F to +140°F) with 6th gen Intel® Core™ up to 35W and W.T. HDD/SSD -10°C to +50°C (+14°F to +122°F) with 6th/7th gen Intel® Core™ up to 65W and W.T. HDD/SSD	-10°C to +60°C (+14°F to +140°F) with 6th gen Intel® Core™ up to 35W and W.T. HDD/SSD -10°C to +50°C (+14°F to +122°F) with 6th/7th gen Intel® Core™ up to 65W and W.T. HDD/SSD	-10°C to +60°C (+14°F to +140°F) with 6th gen Intel® Core™ up to 35W and W.T. HDD/SSD -10°C to +50°C (+14°F to +122°F) with 6th/7th gen Intel® Core™ up to 65W and W.T. HDD/SSD
Wall Mount	Yes	Yes	Yes
Dimensions (W x D x H)	147.5 x 192 x 230 mm (5.80" x 7.54" x 9.04")	147.5 x 192 x 230 mm (5.80" x 7.54" x 9.04")	188.1 x 192 x 230 mm (7.39" x 7.54" x 9.04")
Weight (net/gross)	4.382 kg (9.66 lb)/5.346 kg (11.80 lb)	4.382 kg (9.66 lb)/5.346 kg (11.80 lb)	4.8 kg (10.56 lb)/5.9 kg (12.98 lb)
Certifications	CE/FCC	CE/FCC	CE/FCC
EOS Support	6th gen platform: Win 7 32/64-bit & Win 10 64-bit 7th gen platform: Win 10 64-bit	6th gen platform: Win 7 32/64-bit & Win 10 64-bit 7th gen platform: Win 10 64-bit	6th gen platform: Win 7 32/64-bit & Win 10 64-bit 7th gen platform: Win 10 64-bit

Industrial Systems



Features\Models	IPC922-215-FL	IPC932-230-FL
CPU Level	Intel® Celeron® J1900	4th gen Intel® Core™ i7/i5/i3 & Celeron®
System Memory	1 x 204-pin DDR3L-1333 SO-DIMM, up to 8GB	2 x 204-pin DDR3-1333/1600 SO-DIMM, up to 16GB
Chipset	SoC integrated	Intel® Q87
Serial	4 x RS-232/422/485	2 x RS-232/422/485 2 x RS-232
Display	1 x VGA	1 x DVI-I
Audio	N/A	Yes
PS/2	N/A	Yes
Ethernet	2 x 10/100/1000 Mbps Ethernet	2 x 10/100/1000 Mbps Ethernet
USB	4 x USB 2.0	4 x USB 2.0 2 x USB 3.0
Expansion Interface	2 PCI or 1 PCI & 1 PCIe x4	1 PCIe x1 & 1 PCIe x4 or 1 PCI & 1 PCIe x4
Storage	1 x 2.5" HDD 1 x CFast™	2 x 2.5" HDD 1 x CFast™
Watchdog Timer	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.
Power Supply	120 W ATX 18 to 28 VDC	150 W ATX 10 to 30 VDC
Operating Temperature	-10°C to +50°C (+14°F to +122°F) (with W.T. HDD)	-10°C to +55°C (+14°F to +131°F) (with W.T. SSD or CFast™)
Wall Mount	Yes	Yes
Dimensions (W x D x H)	118 x 248 x 185 mm (4.6" x 9.8" x 7.3")	164 x 245.6 x 185 mm (6.45" x 9.65" x 7.27")
Weight (net/gross)	4.22 kg (9.28 lb)/5.3 kg (11.68 lb)	6.2 kg (13.67 lb)/7.2 kg (15.87 lb)
Certifications	CE	CE
EOS Support	WES7	WES7

NEW



Features	Models	IPC974-519-FL
CPU Level		7th/6th gen Intel® Xeon® E3 V5, Core™ i7/i5/i3 & Celeron® processor up to 80W
System Memory		2 x DDR4-2133/2400 ECC/non-ECC SO-DIMM, up to 32GB
Chipset		Intel® C236
Extension Window		Blank cover (default) Wi-Fi & antenna kit 1 x Internal USB dongle kit AX92902+AX93287: 10/100/1000 Mbps Ethernet module (Intel® i210-AT) AX92906: 2 x RS-232 module AX92903: CANBus module
Extension System IO Module		AX93511: 4 x RS-232/422/485 module (default RS-232) AX93512: 2 x RS-232/422/485 with isolated 1.5kVDC & 8-in/8-out with isolated 1.5kVDC DIO module AX93516: 4 x RS-232/422/485 with isolated 2kVDC module AX93519: 1 x 10/100/1000 Mbps (Intel® i211-AT) Ethernet, 2 x RS-232/422/485, and 2 x USB 3.0 module
Display		1 x HDMI 1 x VGA
Audio		Yes
Ethernet		2 x 10/100/1000 Mbps Ethernet
USB		4 x USB 3.0, 2 x USB 2.0
Expansion Interface		1 PCIe x16 + 3 x PCIe x4 1 PCIe x16 + 1 x PCIe x4 + 2 x PCI 1 Full-size PCI Express Mini Card slot with SIM slot for Extension Window (USB & PCIe interface)
Storage		4 x 2.5" swappable HDD
Watchdog Timer		255 levels, 1 to 255 sec.
Power Input		24 VDC (uMin=19V/uMax=30V)
Operating Temperature		-10°C to +70°C (+14°F to +149°F) with 6th gen Intel® Core™ up to 35W and W.T. HDD/SSD -10°C to +60°C (+14°F to +122°F) with 6th/7th gen Intel® Core™ up to 65W (i5 series) and W.T. HDD/SSD -10°C to +50°C (+14°F to +122°F) with 6th/7th gen Intel® Core™ up to 80W and W.T. HDD/SSD
Wall Mount		Yes
Dimensions (W x D x H)		188.14 x 192 x 317 mm (7.40" x 7.54 x 12.46")
Weight (net/gross)		5.9 kg (13 lb)/7.3 kg (16.09 lb)
Certifications		CE
EOS Support		6th gen platform: Win 7 32/64-bit & Win 10 64-bit 7th gen platform: Win 10 64-bit

Machine Vision Systems

NEW



NEW



Features\Models	MVS900-511-FL	MVS900-512-FL
CPU Level	7th/6th gen Intel® Core™ i7/i5/i3 & Celeron®, up to 65W	7th/6th gen Intel® Core™ i7/i5/i3 & Celeron®, up to 65W
System Memory	2 x DDR4-2133/2400 un-buffered SO-DIMM, up to 32GB	2 x DDR4-2133/2400 un-buffered SO-DIMM, up to 32GB
Chipset	Intel® H110	Intel® Q170
Vision I/O	4 x Trigger input 4 x Trigger output 4 x LED lighting control (Strobe/Trigger mode) 2 x Quadrature encoder input 16 x Isolated DIO	4 x Trigger input 4 x Trigger output 4 x LED lighting control (Strobe/Trigger mode) 2 x Quadrature encoder input 16 x Isolated DIO
Display	1 x HDMI 1 x VGA	1 x HDMI 1 x VGA
Audio	YES	YES
PoE	4 x IEEE802.3at GbE LAN port	4 x IEEE802.3at GbE LAN port
I/O Ethernet	2 x 10/100/1000 Mbps Ethernet	2 x 10/100/1000 Mbps Ethernet
USB	4 x USB 3.0 1 x Internal USB connector	4 x USB 3.0 1 x Internal USB connector
Others	2 x RS-232/422/485 & 8-in/8-out DIO with isolated 1.5 kVDC protection	2 x RS-232/422/485 & 8-in/8-out DIO with isolated 1.5 kVDC protection
Expansion Module	N/A	N/A
Expansion Interface	1 x Full-size PCI Express Mini Card slot with USB interface 1 x Internal USB connector	1 x Full-size PCI Express Mini Card slot with USB & PCIe interface 1 x M.2 2280 Key M slot, PCIe Gen.3 x4 for NVMe SSD 1 x Internal USB connector
Storage	2 x Swappable 2.5" HDD (9.5mm height)	2 x Swappable 2.5" HDD (9.5mm height)
TPM	TPM 2.0	TPM 2.0
Watchdog Timer	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.
Power Input	24 VDC (uMin=19V/uMax=30V)	24 VDC (uMin=19V/uMax=30V)
Operating Temperature	-10°C to +60°C (+14°F to +140°F) with 6th gen CPU (35W) -10°C to +50°C (+14°F to +122°F) with 7th gen CPU & 6th gen (65W)	-10°C to +60°C (+14°F to +140°F) with 6th gen CPU (35W) -10°C to +50°C (+14°F to +122°F) with 7th gen CPU & 6th gen (65W)
Dimensions (W x H x D)	135 x 210 x 230 mm (5.31" x 8.27" x 9.06")	135 x 210 x 230 mm (5.31" x 8.27" x 9.06")
Weight (net/gross)	TBC	TBC
Mounting	Wall mount	Wall mount
Certifications	CE, FCC	CE, FCC
EOS Support	6th gen: Win 7 32/64-bit & Win 10 64-bit 7th gen: Win 10 64-bit	6th gen: Win 7 32/64-bit & Win 10 64-bit 7th gen: Win 10 64-bit
Software Support	AMS.AXView	AMS.AXView



Features\Models		IPS960-511-PoE	IPS962-512-PoE
CPU Level		7th/6th gen Intel® Core™ i7/i5/i3 & Celeron®, up to 65W	7th/6th gen Intel® Core™ i7/i5/i3 & Celeron®, up to 65W
System Memory		2 x DDR4-2133/2400 un-buffered SO-DIMM, up to 32GB	2 x DDR4-2133/2400 un-buffered SO-DIMM, up to 32GB
Chipset		Intel® H110	Intel® Q170
Vision I/O		4 x Trigger input 4 or 8 x Trigger output 4 x LED lighting control 1 x Quadrature encoder input 16 x Isolated DIO 1 x Auto measurement function	4 x Trigger input 4 or 8 x Trigger output 4 x LED lighting control 1 x Quadrature encoder input 16 x Isolated DIO 1 x Auto measurement function
Display		1 x HDMI 1 x VGA	1 x HDMI 1 x VGA
Audio		Yes	Yes
PoE		4 x IEEE802.3at GbE LAN port	4 x IEEE802.3at GbE LAN port
I/O Ethernet		2 x 10/100/1000 Mbps Ethernet	2 x 10/100/1000 Mbps Ethernet
USB		4 x USB 3.0	4 x USB 3.0
Expansion Module		AX93511: 4 x RS-232/422/485 (default RS-232) AX93512: 2 x isolated RS-232/422/485 & 1 x isolated 8-in/8-out DIO AX93516: 4 x isolated RS-232/422/485	AX93511: 4 x RS-232/422/485 (default RS-232) AX93512: 2 x isolated RS-232/422/485 & 1 x isolated 8-in/8-out DIO AX93516: 4 x isolated RS-232/422/485 AX93519: 1 x 10/100/1000 Mbps Ethernet, 2 x USB 3.0 & 2 x RS-232/422/485 (default RS-232)
Expansion Interface		1 x Full-size PCI Express Mini Card slot with USB interface	1 x PCIe x16 Gen3 1 x PCIe x4 Gen3 1 x Full-size PCI Express Mini Card slot with USB & PCIe interface
Storage		2 x Swappable 2.5" HDD	2 x Swappable 2.5" HDD
TPM		TPM 2.0	TPM 2.0
Watchdog Timer		255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.
Power Input		24 VDC (uMin=19V/uMax=30V)	24 VDC (uMin=19V/uMax=30V)
Operating Temperature		-10°C to +55°C (+14°F to +131°F) with 6th gen CPU -10°C to +45°C (+14°F to +113°F) with 7th gen CPU	-10°C to +55°C (+14°F to +131°F) with 6th gen CPU -10°C to +45°C (+14°F to +113°F) with 7th gen CPU
Dimensions (W x D x H)		147.5 x 192 x 230 mm (5.80" x 7.54" x 9.04")	188.1 x 192 x 230 mm (7.39" x 7.54" x 9.04")
Weight (net/gross)		4.582 kg (10.10lb)/5.546 kg (12.23lb)	5 Kg (11.02 lb)/6.1 Kg (13.45 lb)
Mounting		Wall mount	Wall mount
Certifications		CE compliance	CE compliance
EOS Support		6th gen platform: Win 7 32/64-bit & Win 10 64-bit 7th gen platform: Win 10 64-bit	6th gen platform: Win 7 32/64-bit & Win 10 64-bit 7th gen platform: Win 10 64-bit
Software Support		AMS.AXView	AMS.AXView

Industrial Chassis



Features/Models	AX60501	AX60810	AX61131TM
Height	-	-	1U
Number of Slots	6	7	1
Backplane Selection	FAB105, FAB109, FAB110, HAB206, ATX6022/6	N/A	N/A
MB Support	N/A	Yes, 12" x 9.6" (ATX), 9.6" x 9.6" (mATX)	Yes, 12" x 9.6" (ATX)
Drive Capacity			
5.25"	1	1	N/A
3.5"	2 (1 internal)	2	2 (internal)
Cooling System	1 x 9 cm	1 x 12 cm (with a removable filter)	2 x 4 cm
Fault Detection	N/A	N/A	N/A
Power Supply	PS/2 type	PS/2 type	1U type
Dimensions (W x D x H)	235 x 400 x 154.7 mm (9.25" x 15.8" x 6.1")	196 x 407.4 x 330 mm (7.716" x 16.039" x 12.992")	440 x 428 x 44mm (17.3" x 16.8" x 1.73")
Weight (net/gross)	9 kg (19.84 lb)/10.3 kg (22.7 lb)	9 kg (19.84 lb)/10.3 kg (22.7 lb)	9.8 kg (21.6 lb)/10.8 kg (23.81 lb)



Features/Models	AX61223TM	AX61410	AX6156LE
Height	2U	4U	4U
Number of Slots	2	14	14
Backplane Selection	N/A	FAB100, FAB101, FAB112, FAB113, FAB114, FAB118, FAB119, ATX6022/14, ATX6022/14G, ATX6022/13L, ATX6022/14GP7	FAB100, FAB101, FAB112, FAB113, FAB114, FAB118, FAB119, ATX6022/14, ATX6022/14G, ATX6022/14G, ATX6022/13
MB Support	Yes, 12" x 9.6" (ATX)	Yes, 12" x 9.6" (ATX)	Yes, 12" x 9.6" (ATX)
Drive Capacity			
5.25"	1	3	3
3.5"	3 (2 internal)	2 (1 internal)	1
Cooling System	1 x 8 cm	1 x 12 cm	1 x 12 cm
Fault Detection	N/A	N/A	N/A
Power Supply	PS/2 type	PS/2 type	PS/2 type (optional HRP)
Dimensions (W x D x H)	482.6 x 450 x 88 mm (19" x 17.7" x 3.5")	482.6 x 450 x 177 mm (19" x 17.7" x 7")	484.7 x 537.6 x 176.7 mm (19" x 21.2" x 7")
Weight (net/gross)	12 kg (26.45 lb)/13.5 kg (29.77 lb)	15 kg (33.07 lb)/16.3 kg (35.94 lb)	18 kg (39.68 lb)/19.5 kg (43 lb)

OPS+ & OPS Digital Signage Players



Features\Models	OPS700-520	OPS500-520-H	OPSS500-501
CPU Level	LGA1151 socket 8th gen Intel® Core™ i7/i5/i3 and Celeron®, 35W TDP	LGA1151 socket 8th gen Intel® Core™ i7/i5/i3 and Celeron®, 35W TDP	7th/6th gen Intel® Core™ i7/i5/i3
Chipset	Intel® Q370	Intel® H310	Intel® Q170
System Memory	2 x 260-pin DDR4-2400 SO-DIMM, up to 32GB	2 x 260-pin DDR4-2400 SO-DIMM, up to 32GB	1 x 260-pin DDR4-2133 SO-DIMM, up to 16GB
Pluggable Engine Box	Yes (OPS+ & OPS compliance)	Yes (OPS compliance)	Yes (OPS compliance)
Intel® AMT	AMT 11.0	N/A	AMT 11.0
TPM	TPM 2.0	TPM 2.0	N/A
I/O	2 x USB 2.0 2 x USB 3.1 Gen2 Type A 1 x RS-232 1 x 10/100/1000 Mbps Ethernet (Intel® i219-LM) 1 x HDMI with 4K/Full HD resolution 1 x Power on/off button 1 x Reset button 1 x 12 VDC power input (adapter available by option)	2 x USB 2.0 2 x USB 3.1 Gen1 Type A 1 x RS-232 1 x 10/100/1000 Mbps Ethernet (Intel® i219-LM) 1 x HDMI with 4K resolution 1 x Power on/off button 1 x Reset button 1 x 12 VDC power input (adapter available by option)	1 x USB 2.0 2 x USB 3.0 1 x RS-232 1 x 10/100/1000 Mbps Ethernet (Intel® i219-LM) 1 x HDMI with 4K resolution 1 x Audio (Mic-in & Line-out) 1 x Power on/off button 1 x Reset button 1 x 12 VDC power input (adapter available by option)
JAETX-25A	1 x DisplayPort with 4K 60Hz supported 1 x HDMI 2.0 with 4K 60Hz supported 2 x USB 2.0 1 x USB 3.0 1 x Audio (Line-out) 1 x UART (TX/RX)	1 x DisplayPort with 4K 60Hz supported 1 x HDMI 2.0 with 4K 60Hz supported 2 x USB 2.0 1 x USB 3.0 1 x Audio (Line-out) 1 x UART (TX/RX)	1 x DisplayPort with 4K 60Hz supported 1 x HDMI 2.0 with 4K 60Hz supported 2 x USB 2.0 1 x USB 3.0 1 x Audio (Line-out) 1 x UART (TX/RX)
HRS FX-18	1 x DisplayPort with 4K 60Hz supported 1 x PCI Express x4	N/A	N/A
Storage	1 x M.2 Key M 2280 SATA for storage	1 x M.2 Key M 2280 SATA for storage	1 x 2.5" SATA HDD tray 1 x mSATA
Expansion Interface	1 x M.2 Key E 2230 for Wi-Fi	1 x M.2 Key E 2230 for Wi-Fi	1 x Full-size PCI Express Mini Card slot (USB + PCIe + SATA)
Power Supply	12 to 19 VDC	12 to 19 VDC	12 to 19 VDC
Dimensions (W x D x H)	200 x 119 x 30 mm (7.87" x 4.68" x 1.18")	200 x 119 x 30 mm (7.87" x 4.68" x 1.18")	200 x 119 x 30 mm (7.87" x 4.68" x 1.18")
Weight (net/gross)	1 kg (2.21 lb)/1.5 kg (3.3 lb)	1 kg (2.21 lb)/1.5 kg (3.3 lb)	1 kg (2.2 lb)/1.5 kg (3.3 lb)
Operating Temperature	0°C to +45°C (+32°F to +113°F) (with airflow 1.2m/s)	0°C to +45°C (+32°F to +113°F) (with airflow 1.2m/s)	0°C to +45°C (+32°F to +113°F)
Certifications	CE, FCC Class A	CE, FCC Class A	CE

OPS+ & OPS Digital Signage Players



Features\Models	OPS500-501-H	OPS300-310
CPU Level	7th/6th gen Intel® Core™ i7/i5/i3	Intel® Celeron® N3350
Chipset	Intel® H110	SoC integrated
System Memory	1 x 260-pin DDR4-2133 SO-DIMM, up to 16GB	1 x 204-pin DDR3L-1600 SO-DIMM, up to 8GB
Pluggable Engine Box	Yes (OPS compliance)	Yes (OPS compliance)
Intel® AMT	N/A	N/A
TPM	N/A	TPM 2.0
I/O	1 x USB 2.0 2 x USB 3.0 1 x RS-232 1 x 10/100/1000 Mbps Ethernet (Intel® i219-LM) 1 x HDMI with 4K resolution 1 x Audio (Mic-in & Line-out) 1 x Power on/off button 1 x Reset button 1 x 12 VDC power input (adapter available by option)	1 x USB 3.0 2 x USB 2.0 1 x 10/100/1000 Mbps Ethernet 1 x VGA 1 x Power on/off button 1 x Reset button 1 x Audio (Line-out & Mic-in)
JAETX-25A	1 x DisplayPort with 4K 60Hz supported 1 x HDMI 2.0 with 4K 60Hz supported 2 x USB 2.0 1 x USB 3.0 1 x Audio (Line-out) 1 x UART (TX/RX)	1 x DisplayPort with 4K 60Hz supported 1 x HDMI 2.0 with 4K 60Hz supported 2 x USB 2.0 1 x USB 3.0 1 x Audio (Line-out) 1 x UART (TX/RX)
HRS FX-18	N/A	N/A
Storage	1 x 2.5" SATA HDD tray 1 x mSATA	1 x 2.5" SATA HDD tray 1 x mSATA
Expansion Interface	1 x Full-size PCI Express Mini Card slot (USB + PCIe + SATA)	1 x Full-size PCI Express Mini Card slot (USB + PCIe + SATA) 1 x M.2 Key E 2230 for Wi-Fi 1 x SIM slot
Power Supply	12 to 19 VDC	12 to 19 VDC
Dimensions (W x D x H)	200 x 119 x 30 mm (7.87" x 4.68" x 1.18")	200 x 119 x 30 mm (7.87" x 4.68" x 1.18")
Weight (net/gross)	1 kg (2.2 lb)/1.5 kg (3.3 lb)	1 kg (2.2 lb)/1.5 kg (3.3 lb)
Operating Temperature	0°C to +45°C (+32°F to +113°F)	0°C to +45°C (+32°F to +113°F)
Certifications	CE, BSMI	CE, FCC Class A

Digital Signage Players

NEW



NEW



Features\Models	DSP600-211	DSP501-527
CPU Level	AMD Ryzen™ Embedded V1807B/ V1605B/V1202B	Intel® Core™ i7/i5/i3 or Celeron® processor
Chipset	SoC integrated	SoC integrated
System Memory	2 x 260-pin DDR4-2400 SO-DIMM, up to 32GB	2 x 260-pin DDR4-2400 SO-DIMM, up to 32GB
Pluggable Engine Box	N/A	N/A
Intel® AMT	N/A	AMT 11
TPM	TPM 2.0	TPM 2.0
I/O	2 x USB 3.0 2 x USB 2.0 2 x GbE LAN 1 x Device management management 4 x HDMI 2.0 2 x RS-232 DB9 1 x Line-out 1 x SIM card 1 x Power switch 1 x Reset switch 1 x Remote switch 1 x VDC power input connector 4 x Antenna opening	4 x USB 3.0 1 x USB 2.0 1 x GbE LAN 1 x Device management management 1 x HDMI 2.0 1 x HDMI 1.4 1 x DisplayPort++ 1 x RS-232 DB9 1 x Line-out 1 x Mic-in 1 x Power switch 1 x Reset switch 1 x Remote switch 1 x Screw type VDC power input connector 4 x Antenna opening
Storage	1 x M.2 Key M 2280 (SATA) 1 x M.2 Key M 2280 (NvME)	1 x M.2 Key M 2280 (SATA/NvME)
Expansion Interface	1 x M.2 Key E 2230 1 x M.2 Key B 3042 1 x SIM card slot	1 x M.2 Key E 2230 1 x M.2 Key B 3042 1 x SIM card slot
Power Supply	+12V DC-in	+12V DC-in
Dimensions (W x D x H)	250 x 182.8 x 30 mm (9.84" x 7.19" x 1.18")	198 x 158 x 26 mm (7.79" x 6.22" x 1.02")
Weight (net/gross)	1.3kg (2.86 lb)/2.3kg (5.07 lb)	1.9kg (4.18 lb)/2.9kg (6.39 lb)
Operating Temperature	0°C to +45°C (+32°F to +113°F)	0°C to +50°C (+32°F to +122°F)
Certifications	CE, FCC class A	CE, FCC class A

Digital Signage Players

NEW



Features\Models	DSP500-523	DSP300-318
CPU Level	Intel® Core™ i7/i5/i3 or Pentium® processor	Intel® Pentium® N4200 & Celeron® N3350 onboard
Chipset	Intel® Q370	SoC integrated
System Memory	2 x 260 pin DDR4-2666 SO-DIMM, up to 32GB	2 x DDR3L-1600 SO-DIMMs, up to 8GB
Pluggable Engine Box	N/A	N/A
Intel® AMT	AMT 11	N/A
TPM	TPM 2.0	N/A
I/O	1 x GbE LAN 4 x USB 3.1 2 x HDMI 2.0 or 3 x HDMI 2.0 1 x Line-out 1 x RS-232 1 x Device management 1 x Remote switch 1 x Screw type VDC power input 1 x VDC power input connector 4 x Antenna opening	3 x USB 3.0 1 x USB 2.0 2 x GbE LAN 1 x HDMI 1.4 1 x DisplayPort 1.2 1 x RS-232 DB9 1 x Line-out 1 x Mic-in 1 x SIM card 1 x Power switch 1 x Reset switch 1 x Remote switch 1 x Screw type VDC power input connector 4 x Antenna opening
Storage	1 x M.2 Key M 2280 (SATA & NVMe)	1 x M.2 Key M 2280 1 x eMMC 5.0 64GB (optional)
Expansion Interface	1 x M.2 Key E 2230 1 x M.2 Key B 3042 1 x SIM card slot	1 x M.2 Key E 2230 1 x M.2 Key B 3042 1 x SIM card slot
Power Supply	+12V DC-in	+12V DC-in
Dimensions (W x D x H)	202 x 196 x 39 mm (7.95" x 7.71" x 1.53")	200 x 137.8 x 20 mm (7.87" x 5.4" x 0.79")
Weight (net/gross)	1.8kg (3.96 lb)/2.8kg (6.17 lb)	0.90 kg (1.98 lb)/1.57 kg (3.45 lb)
Operating Temperature	0°C to +45°C (+32°F to +113°F)	0°C to +50°C (+32°F to +122°F)
Certifications	CE, FCC Class A	CE, FCC class A

PICMG 1.3 Full-size Backplanes

FAB100


PICMG 1.3 ①
PCI ④
ISA ④
PCIe x1 ④
PCIe x16 ①

FAB105

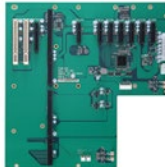

PICMG 1.3 ①
PCI ③
PCIe x16 ①

FAB111


PICMG 1.3 ①
PCI ④
PCIe x4 ①
PCIe x16 ①

FAB119


PICMG 1.3 ①
PCI ⑩
PCIe x4 ①
PCIe x16 ①

FAB121


PICMG 1.3 ①
PCI ②
PCIe x8 ①
PCIe x4 ⑦

PICMG 1.3 Half-size Backplanes

HAB206


PICMG 1.3 ①
PCI ③
PCIe x16 ①

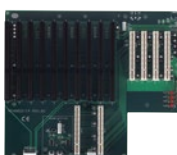
HAB208


PICMG 1.3 ①
PCI ⑥
PCIe x16 ①

PICMG 1.0 Full-size Backplanes

ATX6022/13L


PICMG ①
PCI ④
ISA ⑧

ATX6022/14


PICMG ①
PCI ④
ISA ⑨

SMB Network Appliances



Features \ Models		NA850	NA860	NA861
Form Factor		2U, 19" rackmount	2U, 19" rackmount	1U, 19" rackmount
Processor		LGA2011 Intel® Xeon® E5-2600 v3/v4	Dual LGA3647 Intel® Xeon® Scalable processors	LGA3647 Intel® Xeon® Scalable
Chipset		Intel® C612	Intel® C621	Intel® C621
BIOS		AMI SPI Flash BIOS	AMI SPI Flash BIOS	AMI SPI Flash BIOS
Memory	Technology	DDR4-2133	DDR4-2400	DDR4-2400
	Max Capacity	512GB non-ECC/ECC	384GB non-ECC/ECC	192GB non-ECC/ECC
	Socket	16 x 288-pin R-DIMM	12 x 288-pin R-DIMM	6 x 288-pin R-DIMM
Network Interface	Ethernet (default)	2 x 10/100/1000 Mbps (Intel® i210)	2 x 10/100/1000 Mbps (Intel® i210)	2 x 10/100/1000 Mbps (Intel® i210)
	Ethernet (max.)	42 x 10/100/1000 Mbps	66 x 10/100/1000 Mbps	34 x 10/100/1000 Mbps
	LAN Bypass	Upon LAN module	Upon LAN module	Upon LAN module
	LAN Module	5 NIC slots (Dual CPUs) 3 NIC slots (Single CPU)	8 NIC slots (Dual CPUs) 4 NIC slots (Single CPU)	4 NIC slots
Storage		2 x 3.5" HDD (hot swappable) 1 x CompactFlash™ 1 x CFast™ (optional)	2 x 2.5" HDD (hot swappable) 1 x mSATA	2 x 2.5" HDD 1 x mSATA
I/O	USB	2 x USB 3.0	2 x USB 3.0	2 x USB 2.0
	Console	1 x RJ-45	1 x RJ-45	1 x RJ-45
	Display	1 x VGA	1 x VGA	1 x VGA
Power Supply		650W 2U redundant	800W 2U redundant	400W 1U redundant
Expansion Interface		2 x PCIe x8 (optional)	1 x PCIe x16 (optional) 2 x PCIe x8 (optional)	N/A
Operating Temperature		0°C to +45°C (+32°F to +113°F)	0°C to +40°C (+32°F to +104°F)	0°C to +40°C (+32°F to +104°F)
LCD Module		Yes	Yes	Yes
OS Support		Linux Kernel	Linux Kernel	Linux Kernel
Dimensions (H x W x D)		88 x 430 x 550 mm (3.46" x 16.93" x 21.65")	88 x 430 x 562 mm (3.46" x 16.93" x 22")	44 x 430 x 561 mm (1.73" x 16.93" x 22")
Certifications		CE/FCC	CE/FCC	CE/FCC

NEW



NEW



Features \ Models		NA160	NA362R	NA363R
Form Factor		1U, 19" rackmount	1U, 19" rackmount	1U, 19" rackmount
Processor		Intel® Pentium® N4200 Intel® Celeron® N3350	Intel® Atom® C3558/C3758	Intel® Atom® processor C3558/C3758
Chipset		SoC integrated	SoC integrated	SoC integrated
BIOS		AMI SPI Flash BIOS	AMI SPI Flash BIOS	AMI SPI Flash BIOS
Memory	Technology	DDR3L-1866	DDR4	DDR4
	Max Capacity	8GB non-ECC	128GB non-ECC/ECC	128GB non-ECC/ECC
	Socket	1 x SO-DIMM	4 x 288-pin R-DIMM/U-DIMM	4 x 288-pin R-DIMM/U-DIMM
	Ethernet (default)	2 x 10/100/1000 Mbps	6 x 10/100/1000 Mbps (Intel® i210) 2 x 10G SFP+ or 4 x 10G SFP+	6 x 10/100/1000 Mbps (Intel® i210)
Network Interface	Ethernet (max.)	24 x 10/100/1000 Mbps (L2 managed switch)	6 x 10/100/1000 Mbps 4 x 10G SFP+	6 x 10/100/1000 Mbps Ethernet
	LAN Bypass	Upon LAN module	1 pair	1 pair 2 pair (optional)
	LAN Module	N/A	N/A	1 NIC slot (optional)
	Storage	1 x 2.5" SATA3 HDD 1 x mSATA	2 x 2.5" HDD 1 x mSATA	2 x 2.5" SATA3 HDD 1 x mSATA
I/O	USB	2 x USB 3.0	2 x USB 2.0	2 x USB 2.0
	Console	1 x RS-232	1 x RJ-45	1 x RJ-45
	Display	1 x HDMI (optional)	N/A	N/A
Power Supply		110/220 VAC	120W open frame	120W open frame
Expansion Interface		1 x PCI Express Mini Card slot (USB interface)	N/A	1 x LAN module through AX98614 (83986141010E, for C3758 only)
Operating Temperature		0°C to +45°C (+32°F to +113°F)	0°C to +45°C (+32°F to +113°F)	0°C to +45°C (+32°F to +113°F)
LCD Module		Yes	Yes	Yes
OS Support		Win 10, Linux	Yocto, Linux	Yocto, Linux
Dimensions (H x W x D)		44 x 430 x 390 mm (1.73" x 16.92" x 15.35")	44 x 430 x 250 mm (1.73" x 16.93" x 9.84")	44 x 430 x 251 mm (1.73" x 16.93" x 9.88")
Certifications		CE/FCC	CE/FCC	CE/FCC

SMB Network Appliances



NEW



Features \ Models		NA580	NA590	NA591	NA592
Form Factor		1U, 19" rackmount	1U, 19" rackmount	1U, 19" rackmount	1U, 19" rackmount
Processor		LGA1151 Intel® Xeon® E3/ Intel® Core™	LGA1151 Intel® Xeon® E-2200/ Intel® Core™	LGA1151 Intel® Xeon® E-2200/ Intel® Core™	AMD EYPC 3000
Chipset		Intel® C236/H110	Intel® C246/H310	Intel® C246	SoC integrated
BIOS		AMI SPI Flash BIOS	AMI SPI Flash BIOS	AMI SPI Flash BIOS	AMI SPI Flash BIOS
Memory	Technology	DDR4-2400	DDR4-2666	DDR4-2666	DDR4-2666
	Max Capacity	64GB non-ECC/ECC	128GB non-ECC/ECC	128GB non-ECC/ECC	256GB non-ECC/ECC
	Socket	4 x 288-pin U-DIMM (Intel® C236) 2 x 288-pin U-DIMM (Intel® H110)	4 x 288-pin U-DIMM (Intel® C246) 2 x 288-pin U-DIMM (Intel® H310)	4 x 288-pin U-DIMM	8 x 288-pin DIMM
Network Interface	Ethernet (default)	8 x 10/100/1000 Mbps (Intel® C236) 6 x 10/100/1000 Mbps (Intel® H110)	8 x 10/100/1000 Mbps (Intel® C246) 6 x 10/100/1000 Mbps (Intel® H310)	2 x 10/100/1000 Mbps (Intel® i210-AT)	2 x 10/100/1000 Mbps
	Ethernet (max.)	18 x 10/100/1000 Mbps	26 x 10/100/1000 Mbps	34 x 10/100/1000 Mbps	34 x 10/100/1000 Mbps
	LAN Bypass	2 pairs	2 pairs	Upon LAN module	Depends on LAN module
	LAN Module	1 NIC slot	2 NIC slots	4 NIC slots	4 NIC slots
Storage		2 x 2.5" HDD or 1 x 3.5" HDD (optional) 1 x CFast™ 1 x mSATA	2 x 2.5" HDD or 1 x 3.5" HDD (optional) 1 x mSATA	2 x 2.5" HDD 1 x mSATA	2 x 2.5" HDD (internal) 1 x M.2 Key M 2280
	USB	2 x USB 3.0	2 x USB 3.0	2 x USB 2.0	2 x USB 2.0
I/O	Console	1 x RJ-45	1 x RJ-45	1 x RJ-45	2 x RJ-45 (one port share IPMI by option)
	Display	1 x VGA (pin header)	1 x VGA (pin header)	1 x VGA (pin header)	1 x VGA (option by IPMI)
Power Supply		270W ATX power 280W 1U redundant (optional)	400W ATX power 400W 1U redundant (optional)	400W ATX power, 400W 1U redundant (optional)	400W single ATX power 400W 1U redundant power
Expansion Interface		1 x PCIe x8 (Intel® C236 only)	1 x PCIe x8 (Intel® C246 only)	1 x PCIe x4 (optional)	1 x PCIe x16 (optional)
Operating Temperature		0°C to +45°C (+32°F to +113°F) (270W ATX power) 0°C to +40°C (+32°F to +104°F) (280W 1U redundant)	0°C to +45°C (+32°F to +113°F) (270W ATX power) 0°C to +40°C (+32°F to +104°F) (300W 1U redundant)	0°C to +45°C (+32°F to +113°F)	0°C to +40°C (+32°F to +104°F)
LCD Module		Yes	Yes	Yes	Yes
OS Support		Linux Kernel	Linux Kernel	Linux Kernel	Linux Kernel
Dimensions (H x W x D)		44 x 430 x 450 mm (1.73" x 16.93" x 17.7")	44 x 430 x 450 mm (1.73" x 16.93" x 17.7")	44 x 430 x 500 mm (1.73" x 16.92" x 19.69")	44 x 430 x 500 mm (1.73" x 16.93" x 19.69")
Certifications		CE/FCC	CE/FCC	CE/FCC	CE/FCC

SOHO Network Appliances



Features \ Models	NA342	NA345	NA346	NA347
Form Factor	1U desktop	1U desktop	Desktop	1U Desktop
Processor	Intel® Celeron® J1900 (4-core)	Intel® Pentium® N4200 (4-core) Intel® Celeron® N3350 (2-core)	Intel® Celeron® N3350 Intel® Atom® x5-E3930	Intel® Atom® Elkhart Lake (4-core)
Chipset	SoC integrated	SoC integrated	SoC integrated	SoC integrated
BIOS	AMI SPI Flash BIOS	AMI SPI Flash BIOS	AMI SPI Flash BIOS	AMI SPI Flash BIOS
Technology	DDR3L-1333	DDR3L-1866	DDR3L-1866	DDR4-3200
Memory Max Capacity	Up to 8GB non-ECC	Up to 8GB non-ECC	Up to 8GB non-ECC/ECC	Up to 32GB
Socket	1 x 204-pin SO-DIMM	1 x 204-pin SO-DIMM	1 x 204-pin SO-DIMM	1 x 260-pin SO-DIMM
Ethernet	4 x 10/100/1000 Mbps (6 ports by request)	4 x 10/100/1000 Mbps (6 ports by request)	4 x 10/100/1000 Mbps	6 x 10/100/1000 Mbps (3-port w/ TSN MACs)
Network Interface	LAN Bypass	2 pairs (optional)	1 pair (optional)	1 pairs (optional)
Controllers	Intel® i211	Intel® i211	Intel® i211	Intel® LAN Controllers
LAN Module	N/A	N/A	N/A	N/A
HDD	1 x 2.5" HDD	1 x 2.5" HDD	N/A	1 x 2.5" HDD (optional)
Storage	CompactFlash™ / CFast™ / mSATA	1 x mSATA	1 x mSATA (half type)	1 x eMMC (optional) 1 x mSATA (optional)
USB	1 x USB 2.0, 1 x USB 3.0	2 x USB 3.0	2 x USB3.0	2 x USB 2.0
I/O	Console	1 x RJ-45	1 x RJ-45	1 x RJ-45
Power Supply	12V, 5A power adapter	12V, 5A power adapter	12V/5A	12V/7A
Expansion Interface	1 x PCI Express Mini Card slot (USB interface)	1 x PCI Express Mini Card slot (USB interface)	1 x PCI Express Mini Card slot (USB interface)	1 x PCIe mini card (USB+PCe interface) for wireless/LTE 1 x PCIe mini card (SATA+USB interface) for LTE
VGA/HDMI	Pin-header	1 x HDMI (optional)	1 x HDMI	1 x HDMI
Fanless	N/A	NA345FL (by request)	NA364FL (by request)	N/A
Operating Temperature	0°C to +40°C (+32°F to +104°F)	0°C to +40°C (+32°F to +104°F)	0°C to +40°C (+32°F to +104°F)	0°C to +40°C (+32°F to +104°F)
LCD Module	N/A	N/A	N/A	N/A
OS Support	Win7, WE7, Win8, WE8S, Linux	Win 10, Linux	Win 10, Linux (Yocto project)	Win 10, Yocto, Linux
Dimensions (H x W x D)	44 x 231.9 x 152 mm (1.73" x 9" x 5.98")	44 x 231.9 x 152 mm (1.73" x 9" x 5.98")	33.5 x 146 x 118.2 mm (1.32" x 5.75" x 4.65")	44 x 231.9 x 152 mm (1.73" x 9" x 5.95")
Certifications	CE/FCC	CE/FCC	CE/FCC	CE/FCC

SOHO Network Appliances



NEW



Features \ Models	NA361	NA362	NA363	
Form Factor	1U desktop	1U desktop	1U desktop	
Processor	Intel® Atom® C2358 (2-core)	Intel® Atom® C3338/C3558/C3758	Intel® Atom® C3338	
Chipset	SoC integrated	SoC integrated	SoC integrated	
BIOS	AMI SPI Flash BIOS	AMI SPI Flash BIOS	AMI SPI Flash BIOS	
Memory	Technology	DDR3-1600	DDR4-2400	
	Max Capacity	Up to 16GB non-ECC/ECC	Up to 64GB non-ECC/ECC (Atom® C3338) Up to 128GB non-ECC/ECC (Atom® C3558/C3758)	Up to 64G R-DIMM non-buffer, non-ECC/ECC
	Socket	2 x 240-pin U-DIMM	2 x 288-pin R-DIMM/U-DIMM (Intel® C3338) 4 x 288-pin R-DIMM/U-DIMM (Intel® C3558/C3758)	2 x 288-pin R-DIMM/U-DIMM
Network Interface	Ethernet	6 x 10/100/1000 Mbps	6 x 10/100/1000 Mbps (default) 2 or 4 x 10GbE SFP+ (depends on CPU)	6 x 10/100/1000 Mbps
	LAN Bypass	2 pairs (optional)	1 pair (optional)	1 pairs (optional)
	Controllers	Intel® i354 & i210	Intel® i210	Intel® i210
	LAN Module	N/A	N/A	N/A
Storage	HDD	1 x 2.5" HDD	1 x 2.5" HDD	1 x 2.5" HDD
	CompactFlash™ / CFast™ / mSATA	1 x CompactFlash™ 1 x CFast™ (optional) 1 x mSATA (optional)	1 x mSATA	1 x mSATA (optional)
I/O	USB	2 x USB 2.0	2 x USB 2.0	2 x USB 3.0
	Console	1 x RJ-45	1 x RJ-45	1 x RJ-45
Power Supply	12V, 5A power adapter	12V, 5A power adapter (Atom® C3338/C3558) 12V, 7A power adapter (Atom® C3758)	12V/5A (Atom® C3558) 12V/7A (Atom® C3758)	
Expansion Interface	1 x PCI Express Mini Card slot (USB interface)	1 x PCI Express Mini Card slot	1 x PCIe Mini Card (USB+SATA interface) 1 x PCIe Mini Card (USB+PCIe interface)	
VGA/HDMI	N/A	N/A	N/A	
Fanless	NA361FL (by request)	N/A	N/A	
Operating Temperature	0°C to +40°C (+32°F to +104°F)	0°C to +40°C (+32°F to +104°F)	0°C to +40°C (+32°F to +104°F)	
LCD Module	N/A	N/A	N/A	
OS Support	Yocto, Linux	Yocto, Linux	Yocto, Linux	
Dimensions (H x W x D)	44 x 231 x 197 mm (1.73" x 9.09" x 7.76")	44 x 231 x 197 mm (1.73" x 9.09" x 7.76")	44 x 231 x 197 mm (1.73" x 9.09" x 7.76")	
Certifications	CE/FCC	CE/FCC	CE/FCC	

DIN-rail Network Appliances

NEW



NEW



Features \ Models		iNA260	iNA600
Form Factor		DIN-rail	2U compact
Processor		Intel® Atom® C3808 Intel® Atom® C3708	LGA1151 Intel® Xeon® (Coffee Lake)
Chipset		SoC integrated	Intel® C246
BIOS		AMI SPI Flash BIOS	AMI SPI Flash BIOS
Technology		DDR4-2400	DDR4-2400
Memory	Max Capacity	64GB non-ECC/ECC	64GB non-ECC/ECC
	Socket	2 x 288-pin SO-DIMM	4 x 288-pin R-DIMM
	Switch	N/A	24 x managed switch
Network Interface	Ethernet	6 x 10/100/1000 Mbps (default) and 2 x 10G SFP+ (depend on CPU)	4 x 10/100/1000 Mbps (1-port share with IPMI) 16 x 10/100/1000 Mbps (L2 managed switch)
	Storage	2 x 2.5" SATA3 HDD 1 x mSATA	2 x 2.5" SSD 1 x SATA DOM
I/O	Serial	1 x RS-232/422/485 1 x RS-232	1 x RS-232/422/485
	USB	2 x USB 2.0	2 x USB 3.0
	Management	N/A	1 x RJ-45 management port
	Display	N/A	1 x HDMI
Expansion Interface		1 x Mini Card slot 1 x SIM socket for 3G (optional) 1 x M.2 for Key M or Key E 2280	1 x PCIe Mini Card slot (USB + PCIe interface) 1 x PCIe x8 MXM slot for GPU card (optional) 2 x PCIe x8 M.2 or mPCIe slot for VPU (optional)
IPMI		N/A	IPMI 2.0
TPM		TPM 2.0	TPM 2.0
Fanless		Yes	Yes
Power Supply		+9 to 36V (dual 2-pin terminal block)	24 VDC
Operating Temperature		-20°C to +60°C (-4°F to +140°F)	0°C to +60°C (+32°F to +140°F)
OS Support		Yocto, Linux	Win 10, Linux
Dimensions (H x W x D)		180 x 150 x 88 mm (7.09" x 5.91" x 3.46")	176" x 200 x 235 mm (6.93" x 7.87" x 9.25")
Certifications		CE/FCC class B	CE/FCC

LAN Modules

Model	Port Number	Ethernet Controller	LAN Bypass	Copper/Fiber	Form Factor
40 GbE Fiber					
AX93331-2QFI	2	Intel® XL710	N/A	0/2	1U & 2U
25 GbE Fiber					
AX93332-25FI	2	Intel® XXV710	N/A	0/2	1U & 2U
10 GbE Fiber					
AX93307-2FI	2	Intel® 82599ES	N/A	0/2	1U & 2U
AX93307-2FIL	2	Intel® 82599ES	1	0/2	1U & 2U
AX93327-4FI	4	Intel® XL710	N/A	0/4	1U & 2U
10 GbE Copper					
AX93317-GIL	2	Intel® X540	1	2/0	1U & 2U
GbE Mix					
AX93322-8MIL	8	Intel® 82580EB / Intel® i350	2	4/4	1U & 2U
GbE Fiber					
AX93322-8FI	8	Intel® 82580EB / Intel® i350	N/A	0/8	1U & 2U
AX93336-4FI	4	Intel® i350	N/A	0/4	1U & 2U
GbE Copper					
AX93316-8GI	8	Intel® 82580EB	N/A	8/0	1U & 2U
AX93316-8GIL	8	Intel® 82580EB	4	8/0	1U & 2U
AX93326-8GI	8	Intel® i210	N/A	8/0	1U & 2U
AX93326-8GIL	8	Intel® i210	4	8/0	1U & 2U
AX93336-4GI	4	Intel® i211	N/A	4/0	1U & 2U
AX93336-4GIL	4	Intel® i350	2	4/0	1U & 2U



AX93307-2FI



AX93316-8GIL



AX93317-2GIL



AX93322-8FI



AX93326-8GIL



AX93327-4FI



AX93331



AX93332



AX93336-4FI

Fanless Touch Panel Computers



NEW



Features/Models	GOT107W-319	GOT110-316-PoE-PD	GOT110-316
CPU Level	Intel® Celeron® N3350, up to 2.4 GHz Intel® Pentium® N4200, up to 2.5 GHz	Intel® Celeron® N3350, up to 2.4 GHz	Intel® Celeron® N3350, up to 2.4 GHz Intel® Pentium® N4200, up to 2.5 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 SO-DIMM socket, up to 8GB	1 x 204-pin DDR3L-1600 SO-DIMM, up to 8GB
Display	7" WSVGA TFT, 320 nits	10.4" XGA TFT, 350 nits	10.4" XGA TFT, 350 nits
I/O	1 x RS-232/422/485 1 x RS-232 2 x 10/100/1000 Mbps Ethernet 2 x USB 3.0 1 x Screw type connector for power 1 x ATX/AT selectable switch 1 x Power button	1 x RS-232/422/485 1 x RS-232 2 x 10/100/1000 Mbps Ethernet (one for PoE PD) 4 x USB 3.0 1 x Audio (Line-out) 1 x HDMI 1 x Power button (ATX) 1 x Remote power switch 1 x ATX/AT selectable switch	1 x RS-232/422/485 1 x RS-232 2 x 10/100/1000 Mbps Ethernet (PoE PD optional) 4 x USB 3.0 1 x Audio (Line-out) 1 x HDMI 1 x Screw type connector for power 1 x Power button (ATX) 1 x Remote power switch 1 x ATX/AT selectable switch
Storage	1 x mSATA 1 x MicroSD Card	1 x 2.5" SATA HDD 1 x mSATA	1 x 2.5" SATA HDD 1 x mSATA
Expansion Interface	1 x PCI Express Mini Card slot 1 x M.2 Key E	2 x PCI Express Mini Card slot	2 x PCI Express Mini Card slot
Touchscreen	Projected capacitive multi-touch	5-wire resistive touch or projected capacitive multi-touch	5-wire resistive touch or projected capacitive multi-touch
Operating System	Windows® 10 (64-bit)	Windows® 10 (64-bit)	Windows® 10 (64-bit)
Power Supply	100 to 240 VAC, 60W power adapter or DC cable for 24 VDC	Power Device (PD): follows IEEE 802.3at (25.5 W)	100 to 240 VAC, 60W power adapter or adapter cable for 24 VDC
Power Consumption	20.4W	24W	24W
Watchdog Timer	255 levels, 0 to 255 sec.	255 levels, 0 to 255 sec.	255 levels, 0 to 255 sec.
Dimensions (W x D x H)	192 x 37.4 x 145 mm (7.56" x 1.47" x 5.7")	259.43 x 43.5 x 232.73 mm (10.21" x 1.71" x 9.16")	259.43 x 43.5 x 232.73 mm (10.21" x 1.71" x 9.16")
Weight (net/gross)	0.75 kg (1.65 lb)/2.0 kg (4.41 lb)	1.8 kg (3.96 lb)/3 kg (6.61 lb)	1.8 kg (3.96 lb)/3 kg (6.61 lb)
Operating Temperature	0°C to +50°C (+32°F to +122°F)	0°C to +50°C (+32°F to +122°F)	0°C to +50°C (+32°F to +122°F)
Certifications	CE, FCC	CE, FCC	CE, FCC

Fanless Touch Panel Computers

NEW



Features/Models	GOT115-319	GOT5103W-845	GOT5153W-845
CPU Level	Intel® Celeron® N3350, up to 2.4 GHz Intel® Pentium® N4200, up to 2.5 GHz	Intel® Celeron® N3060, up to 2.48 GHz Intel® Pentium® N3710, up to 2.56 GHz	Intel® Celeron® N3060, up to 2.48 GHz
Chipset	SoC integrated	SoC integrated	SoC integrated
System Memory	1 x 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	15" XGA TFT, 300 nits	10.1" WXGA TFT, 350 nits	15.6" WXGA TFT, 300 nits
I/O	1 x RS-232/422/485 1 x RS-232 2 x 10/100/1000 Mbps Ethernet 2 x USB 3.0 2 x USB 2.0 1 x Audio (Line-out) 1 x Screw type connector for power 1 x Power button (ATX) 1 x Remote power switch 1 x ATX/AT selectable switch	1 x RS-232/422/485 1 x RS-232 2 x 10/100/1000 Mbps Ethernet 2 x USB 2.0 2 x USB 3.0 1 x Audio (Line-out) 1 x HDMI 1 x Switch for power on/off 1 x AT/ATX mode selection switch	1 x RS-232/422/485 1 x RS-232 2 x 10/100/1000 Mbps Ethernet 2 x USB 2.0 2 x USB 3.0 1 x Audio (Line-out) 1 x HDMI 1 x Switch for power on/off 1 x AT/ATX mode selection switch
Storage	1 x 2.5" SATA HDD 1 x mSATA 1 x MicroSD card	1 x Half-slim SATA SSD (optional) 1 x mSATA	1 x mSATA 1 x 2.5" SATA HDD (AC version only)
Expansion Interface	1 x PCI Express Mini Card slot 1 x M.2 Key E	2 x PCI Express Mini Card slot	2 x PCI Express Mini Card slot
Touchscreen	5-wire resistive touch or projected capacitive multi-touch	Projected capacitive multi-touch	5-wire resistive touch or projected capacitive multi-touch
Operating System	Windows® 10 (64-bit)	Windows® 10, Windows® 8.1, WE8S, Windows® 7, WES 7	Windows® 10, Windows® 8.1, WE8S, Windows® 7, WES 7
Power Supply	100 to 240 VAC, 60W power adapter or DC cable for 24 VDC	24 VDC 100 to 240 VAC, 60W power adapter	DC version: 9 to 36 VDC with over-current protection fuse AC version: 100 to 240 VAC-DC, 60W power adapter
Power Consumption	28.8W	40.32W	30W
Watchdog Timer	255 levels, 0 to 255 sec.	255 levels, 0 to 255 sec.	255 levels, 0 to 255 sec.
Dimensions (W x D x H)	329.7 x 50 x 306 mm (13" x 2" x 12")	260.8 x 38 x 194.1 mm (10.27" x 1.50" x 7.65")	394.2 x 57 x 257.2 mm (15.53" x 2.25" x 10.13")
Weight (net/gross)	3.2 kg (7.1 lb)	1.08 kg (2.38 lb)/2.18 kg (4.8 lb)	3.0 kg (6.61 lb)/4.5 kg (9.92 lb)
Operating Temperature	0°C to +50°C (+32°F to +122°F)	0°C to +50°C (+32°F to +122°F)	0°C to +50°C (+32°F to +122°F)
Certifications	CE, FCC	CE, FCC	CE, FCC



Features/Models	GOT5103W-845	GOT5153W-845
CPU Level	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
System Memory	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	15.6" WXGA TFT, 300 nits
I/O	1 x RS-232/422/485 1 x RS-232 2 x 10/100/1000 Mbps Ethernet 2 x USB 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 Half-slim SATA SSD (optional) 1 x mSATA	1 x 2.5" SATA HDD (AC version only) 1 x mSATA
Expansion Interface	2 x PCI Express Mini Card slot	2 x PCI Express Mini Card slot
Touchscreen	Projected capacitive multi-touch	5-wire resistive touch or projected capacitive multi-touch
Operating System	Windows® 10, Windows® 8.1, WE8S, Windows® 7, WES 7	Windows® 10, Windows® 8.1, WE8S, Windows® 7, WES 7
Power Supply	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	40.32W	30W
Watchdog Timer	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 1.50" x 7.65")	394.2 x 57 x 257.2 mm (15.53" x 2.25" x 10.13")
Weight (net/gross)	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)
Certifications	CE, FCC	CE, FCC

Heavy-duty Fanless Touch Panel Computers



Features\Models	GOT315WL-845	GOT318WL-845
CPU Level	Intel® Pentium® N3710, 1.6 GHz (Braswell)	Intel® Pentium® processor N3710, 1.6 GHz (Braswell)
Chipset	SoC integrated	SoC integrated
System Memory	1 x 204-pin DDR3L-1333/1600 SO-DIMM, up to 8GB	1 x 204-pin DDR3L-1333/1600 SO-DIMM, up to 8GB
Display	15.6" WXGA TFT, 400 nits	18.5" WXGA TFT, 250 nits
I/O	1 x RS-232/422/485 1 x RS-232 1 x HDMI 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	1 x RS-232/422/485 1 x RS-232 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
Storage	1 x 2.5" SATA HDD 1 x mSATA	1 x 2.5" SATA HDD 1 x mSATA
Expansion Interface	1 x Full-size PCI Express Mini Card slot 1 x Full-size PCI Express Mini Card slot	1 x Full-size PCI Express Mini Card slot 1 x Full-size PCI Express Mini Card slot
Touchscreen	Projected capacitive multi-touch	Projected capacitive multi-touch or flat resistive touch
Operating System	Windows® 10	Windows® 10
Power Supply	24 VDC	24 VDC
Power Consumption	72W	48W
Watchdog Timer	255 levels, 0 to 255 sec.	255 levels, 0 to 255 sec.
Dimensions (W x D x H)	396.8 x 59.0 x 247.1 mm (15.62" x 2.3" x 9.73")	460.8 x 58.5 x 285 mm (18.11" x 2.3" x 11.22")
Weight (net/gross)	4.5 kg (9.9 lb)/6.5 kg (14.3 lb)	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 +50°C (+32°F to +122°F)
Certifications	CE	CE



Features\Models	GOT317W-502	GOT321W-502
CPU Level	LGA1151 socket 7th/6th gen Intel® Core™ i7/i5/i3, Pentium® & Celeron® (Kaby lake/Skylake)	LGA1151 socket 7th/6th gen Intel® Core™ i7/i5/i3, Pentium® & Celeron® (Kaby lake/Skylake)
Chipset	Intel® H110	Intel® H110
System Memory	2 x 260-pin DDR4-2400 SO-DIMM, up to 32GB	2 x 260-pin DDR4-2400 SO-DIMM, up to 32GB
Display	21.5" FHD TFT, 250 nits	21.5" FHD TFT, 250 nits
I/O	2 x RS-232/422/485 1 x HDMI v1.4 1 x VGA (up to 1920 x 1200, 60Hz) 1 x DisplayPort v1.2 (DP++) 4 x USB 3.0 2 x 10/100/1000 Mbps Ethernet 1 x Audio (Mic-in/Line-out)	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)
Storage	1 x 2.5" SATA HDD	1 x 2.5" SATA HDD
Expansion Interface	1 x Half-size PCI Express Mini Card slot 1 x Full-size PCI Express Mini Card slot	1 x Half-size PCI Express Mini Card slot 1 x Full-size PCI Express Mini Card slot
Touchscreen	10-point projected capacitive multi-touch	10-point projected capacitive multi-touch
Operating System	Skylake: Windows® 7, Windows® 8.1, Windows® 10 (64-bit) Kaby Lake: Windows® 10	Skylake: Windows® 7, Windows® 8.1, Windows® 10 (64-bit) Kaby Lake: Windows® 10
Power Supply	DC terminal block: +12V/+19V/+24V AC adapter: 19V, 6.32A	DC terminal block: +12V/+19V/+24V AC adapter: 19V, 6.32A
Power Consumption	105W	105W
Watchdog Timer	255 levels, 0 to 255 sec.	255 levels, 0 to 255 sec.
Dimensions (W x D x H)	547.59 x 339.05 x 75.6 mm (21.56" x 13.49" x 2.98")	547.59 x 339.05 x 75.6 mm (21.56" x 13.49" x 2.98")
Weight (net/gross)	8.4 kg (18.5 lb)/11.3 kg (24.9 lb)	8.4 kg (18.5 lb)/11.3 kg (24.9 lb)
Operating Temperature	0°C to +45°C (+32°F to +113°F)	0°C to +45°C (+32°F to +113°F)
Certifications	CE	CE

Stainless Touch Panel Computers

NEW



Features\Models	GOT810-845	GOT812L(H)-880	GOT815L-511
CPU Level	Intel® Celeron® N3060, up to 2.48 GHz	Intel® Core™ i5-4300U, 1.9 GHz (Haswell ULT)	Intel® Core™ i5-7300U, 3.5 GHz (Kaby Lake)
Chipset	SoC integrated	SoC integrated	SoC integrated
System Memory	1 x DDR3L -1333 SO-DIMM, up to 8GB	1 x 204-pin DDR3L-1600 SO-DIMM, up to 8GB	1 x 260-pin DDR4-2133 SO-DIMM, up to 16GB
Display	10.4" XGA TFT, 350 nits	12" XGA TFT, 500 nits (GOT812L-880) 12" XGA TFT, 800 nits (GOT812H-880)	15" XGA TFT, 420 nits
I/O	1 x RS-232/422/485 (default RS-232) 1 x RS-232 2 x USB 2.0 1 x 10/100/1000 Mbps Ethernet 1 x DC power connector	2 x RS-232/422/485 (default RS-232) 4 x USB 2.0 1 x 10/100/1000 Mbps Ethernet	2 x RS-232/422/485 (default RS-232) 4 x USB 2.0 1 x 10/100/1000 Mbps Ethernet
Storage	1 x mSATA 1 x 2.5" SATA HDD	1 x 2.5" SSD	1 x 2.5" SSD HDD or 1 x 2.5" SATA HDD
Expansion Interface	2 x PCI Express Mini Card slot	1 x PCI Express Mini Card slot	1 x Full-size PCI Express Mini Card slot 1 x Half-size PCI Express Mini Card slot
Touchscreen	5-wire resistive touch or projected capacitive multi-touch	5-wire resistive type or projected capacitive multi-touch	5-wire resistive touch or projected capacitive multi-touch
Operating System	Windows® 8/8.1, WEBS Windows® 7, WES 7, Windows® 10	Windows® 8.1, WEBS, Windows® 7, WES 7, Windows® 10	Windows® 10 IoT, Windows® 10
Power Supply	9 to 36 VDC	9 to 36 VDC	9 to 36 VDC
Power Consumption	29W	56W	45W
Watchdog Timer	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.
Front Bezel	Stainless steel with IP66/IP69K protection	Stainless steel with IP66/IP69K protection	Stainless steel with IP66/IP69K protection
Dimensions (W x D x H)	284 x 56 x 241 mm (11.2" x 2.2" x 9.49")	318 x 75.3 x 248.5 mm (12.52" x 2.96" x 9.78")	382 x 55 x 305 mm (15.4" x 2.17" x 12.01")
Weight (net/gross)	2.8 kg (6.17 lb)/4 kg (8.82 lb)	4.27 kg (9.41 lb)/5.77 kg (12.72 lb)	5.2 kg (11.46 lb)/8.4 kg (18.5 lb)
Operating Temperature	-10°C to +50°C (14°F to +122°F)	-20°C to +50°C (-4°F to +122°F)	-20°C to +50°C (-4°F to +122°F)
Certifications	CE	CE	CE



Features\Models	GOT815-834	GOT817L-511	GOT817-834
CPU Level	Intel® Atom® E3827, 1.75 GHz	Intel® Core™ i5-7300U, 3.5 GHz (Kaby Lake)	Intel® Atom® E3827, 1.75 GHz
Chipset	SoC integrated	SoC integrated	SoC integrated
System Memory	1 x 204-pin DDR3L-1333 SO-DIMM, up to 8GB	1 x 260-pin DDR4-2133 SO-DIMM, up to 16GB	1 x 204-pin DDR3L-1333 SO-DIMM, up to 8GB
Display	15" XGA TFT, 420 nits	17" SXGA TFT LCD, 350 nits	17" SXGA TFT, 350 nits
I/O	2 x RS-232/422/485 (default RS-232) 4 x USB 2.0 1 x 10/100/1000 Mbps Ethernet	2 x RS-232/422/485 (default RS-232) 4 x USB 2.0 1 x 10/100/1000 Mbps Ethernet	2 x RS-232/422/485 (default RS-232) 4 x USB 2.0 1 x 10/100/1000 Mbps Ethernet
Storage	1 x 2.5" SSD 1 x CFast™	1 x 2.5" SSD HDD or 1 x 2.5" SATA HDD	1 x 2.5" SSD 1 x CFast™
Expansion Interface	2 x PCI Express Mini Card slot	1 x Full-size PCI Express Mini Card slot 1 x Half-size PCI Express Mini Card slot	2 x PCI Express Mini Card slot
Touchscreen	5-wire resistive type or projected capacitive multi-touch	5-wire resistive touch or projected capacitive multi-touch	5-wire resistive type or projected capacitive multi-touch
Operating System	WES 7, WE8S, Windows® 7, Windows® 8.1, Windows® 10	Windows® 10	WES 7, WE8S, Windows® 7, Windows® 8.1, Windows® 10
Power Supply	9 to 36 VDC	9 to 36 VDC	12 to 36 VDC
Power Consumption	30W	67.5W	50W
Watchdog Timer	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.
Front Bezel	Stainless steel with IP66/IP69K protection	Stainless steel IP66/IP69K protection	Stainless steel IP66/IP69K protection
Dimensions (W x D x H)	382 x 55 x 305 mm (15.4" x 2.2" x 12.01")	415.92 x 55 x 348.34 mm (16.37" x 2.16" x 13.71")	415.92 x 54.96 x 348.34 mm (16.37" x 2.16" x 13.71")
Weight (net/gross)	6.94 kgs (15.3 lb)/10.2 kgs (22.5 lb)	6.94 Kgs (15.3 lb) / 10.2 Kgs (22.5 lb)	7.04 kg (15.52 lb)/10.3 kg (22.71 lb)
Operating Temperature	-20°C to +50°C (-4°F to +122°F)	-20°C to +50°C (-4°F to +122°F)	-20°C to +55°C (-4°F to +131°F)
Certifications	CE	CE	CE

Transportation Touch Panel Computers

NEW



Features\Models	GOT610-837	GOT710-837	GOT712-837
CPU Level	Intel® Atom® E3845 (1.91 GHz)	Intel® Atom® E3845, 1.91 GHz	Intel® Atom® E3845, 1.91 GHz
Chipset	SoC integrated	SoC integrated	SoC integrated
System Memory	4GB DDR3 (default) or 8GB memory onboard	4GB DDR3 onboard	4GB DDR3 onboard
Display	10.4" XGA TFT, 500 nits	10.4" SVGA TFT, 1000 nits	12.1" XGA TFT, 800 nits
I/O	1 x 10/100/1000 Mbps Ethernet with isolated 1.5kV 4 x USB port type A connector 1 x RS-232/422/485 with isolated 1.5kV (D-sub 9 male) 1 x DC power input with isolated 1.5kV 1 x Audio (Line-out & Mic-in) 1 x DIO (6-in/2-out) with isolated 1.5kV (Phoenix type) 1 x CANBus with isolated 1.5kV (D-sub 9 male) 3 x Internal Antenna (SMA) 1 x SIM Card socket	2 x RS-232/422/485 with isolated 1.5kV (M12, A-coded) 2 x RJ-45 with isolated 1.5kV (M12, X-coded) 2 x USB 2.0 (M12, A-coded) 1 x DC power input with isolated 1.5kV (M12, A-coded) 1 x Audio (Line-out & Mic-in), Speaker (D-sub) 1 x DIO (6-in/2-out) with isolated 1.5kV (D-sub) 1 x CANBus with isolated 1.5kV (D-sub)	2 x RS-232/422/485 with isolated 1.5kV (M12, A-coded) 2 x RJ-45 with isolated 1.5kV (M12, X-coded) 2 x USB 2.0 (M12, A-coded) 1 x DC power input with isolated 1.5kV (M12, A-coded) 1 x Audio (Line-out & Mic-in), Speaker (D-sub) 1 x DIO (6-in/2-out) with isolated 1.5kV (D-sub) 1 x CANBus with isolated 1.5kV (D-sub)
Storage	16GB flash onboard 1 x mSATA	16GB flash onboard 1 x mSATA	16GB flash onboard 1 x mSATA
Expansion Interface	2 x Full-size PCI Express Mini Card slot	2 x PCI Express Mini Card slot	2 x PCI Express Mini Card slot
Touchscreen	5-wire resistive or projected capacitive touch	5-wire resistive type or glass with keyboard	5-wire resistive type or glass with keyboard
Operating System	Windows® 7, WES7 Windows® 8/8.1, WEBS Windows® 10, Windows® 10 IoT	Windows® 8.1, WEBS, Windows® 7, WES7 Windows® 10 IoT	Windows® 8.1, WEBS, Windows® 7, WES7 Windows® 10 IoT
Power Supply	9 to 60 VDC	16.8 to 30 VDC or 77 to 137.5 VDC	16.8 to 30 VDC or 77 to 137.5 VDC
Power Consumption	44.5W	36W	35W
Watchdog Timer	255 levels, 1 to 255 sec	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.
Front Bezel	Aluminum with rugged protection	Aluminum with rugged protection	Aluminum with rugged protection
Dimensions (W x D x H)	291 x 50 x 266 mm (11.46" x 1.97" x 10.47")	310 x 65 x 216 mm (12.20" x 2.56" x 8.50")	330 x 64.4 x 245 mm (13" x 2.53" x 9.65")
Weight (net/gross)	2.0 kg (4.4 lb)/3.25 kg (7.16 lb)	2.4 kg (5.29 lb)/5 kg (11.02 lb)	2.4 kg (5.29 lb)/5 kg (11.02 lb)
Operating Temperature	-30°C to +55°C (-22°F to +131°F)	-25°C to +70°C (-13°F to +158°F)	-25°C to +70°C (-13°F to +158°F)
Certifications	CE, EN 60721-3-5	EN 50155 railway EN 50121-3-2 railway EMC EN 61373 railway shock/vibration	EN 50155 railway EN 50121-3-2 railway EMC EN 61373 railway shock/vibration

Transportation Touch Displays



Features/Models	P6105	P6125	P6187W-PIS
Display Type	10.4" XGA TFT	12.1" XGA TFT	18.5" FHD LCD
Max. Colors	16.2M	16.2M	16.7M
Active Area (mm)	210.4 x 157.8	210.4 x 157.8	408.96 x 203.04
Max. Resolution	1024 x 768	1024 x 768	1920 x 1080
Display Mode	VGA 640 x 480 (60/72 Hz) SVGA 800 x 600 (60/72 Hz) XGA 1024 x 768 (60/72 Hz)	VGA 640 x 480 (60/72 Hz) SVGA 800 x 600 (60/72 Hz) XGA 1024 x 768 (60/72 Hz)	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)
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	20ms
Contrast Ratio	1000 (TYP)	1000 (TYP)	1000 (TYP)
Brightness (cd/m²)	500 nits	800 nits	500 nits
Display Control	OSD	OSD	OSD
I/O Connectors	1 x DC power input 1 x RS-232 for touch and remote control 1 x VGA 1 x HDMI 1 x DVI-D 1 x Line-in	1 x DC power input 1 x RS-232 for touch and remote control 1 x VGA 1 x HDMI 1 x DVI-D 1 x Line-in	1 x RS-232 (remote control) 1 x HDMI 1 x VGA 1 x DVI-D 1 x M12 DC-in 1 x Line-in
Touchscreen	Resistive type	Resistive type	Glass type
Power Consumption	16W	33W	TBD
Power Supply	24 or 110 VDC power input	24 or 110 VDC power input	24 to 110 VDC power input
Dimensions (W x D x H)	310 x 49 x 214 mm (12.20" x 1.94" x 8.43")	330 x 57 x 245 mm (12.99" x 2.24" x 9.65")	445.2 x 269.4 x 50.3 mm (17.52" x 10.6" x 1.98")
Weight (net/gross)	2.0 kg (4.4 lb)/3.25 kg (7.16 lb)	2.2 kg (4.85 lb)/3.45 kg (7.61 lb)	4.4 kg (9.7 lb)/5.9 kg (13.0 lb)
Operating Temperature	-25°C to +55°C (-13°F to +131°F)	-25°C to +55°C (-13°F to +131°F)	-25°C to +55°C (-13°F to +131°F)
Mounting	Panel mount/Wall mount/VESA arm	Panel mount/Wall mount/VESA arm	VESA mount
Certifications	EN 50155 railway EN 50121-3-2 railway EMC EN 613703 railway shock/vibration	EN 50155 railway EN 50121-3-2 railway EMC EN 613703 railway shock/vibration	EN 50155/IEC 60571, EN 50121-3-2, EN 45545-2, CE

Industrial Touch Panel Computers



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 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 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 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



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)
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

Industrial Touch Monitors



Features/Models	P6157W-V2	P6171-V2	P6187W-V2	P6217W
Display Type	15.6" WXGA TFT	17" SXGA TFT	18.5" WXGA TFT	21.5" FHD TFT
Front Bezel	Flat, NEMA 4/12 (IP65)-compliant	Metal, NEMA 4/12 (IP65)-compliant	Flat, NEMA 4/12 (IP65)-compliant	Flat, NEMA 4/12 (IP65)-compliant
Max. Colors	16.7M	16.2M	16.7M	16.7M
Active Area (mm)	344.232 x 193.536	337.920 x 270.336	409.8 x 230.4	476.64 x 268.11
Max. Resolution	1366 x 768	1280 x 1024	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 640 x 480 (60/72/75 Hz) VGA 720 x 400 (70 Hz) SVGA 800 x 600 (60/72/75 Hz) XGA 1024 x 768 (60/72/75 Hz) SXGA 1280 x 1024 (60/72/75 Hz)	VGA 640 x 350 (70 Hz) VGA 720 x 400 (70 Hz) VGA 640 x 480 (60/72/75 Hz) SVGA 800 x 600 (60/72/75 Hz) XGA 1024 x 768 (60/70/75 Hz) WXGA 1366 x 768 (60 Hz)	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	0.264 x 0.264	0.3 x 0.3	0.24 x 0.24
Backlight	LED	LED	LED	LED
Backlight MTBF (hrs)	50,000	30,000	50,000	50,000
Viewing Angle (H/V)	170°/160°	170°/160°	170°/160°	178°/178°
Response Time	8ms	5ms	5ms	18ms
Contrast Ratio	500 (TYP)	1000 (TYP)	1000 (TYP)	3000 (TYP)
Brightness (cd/m²)	400 nits	250 nits	450 nits	250 nits
Display Control	OSD	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 Audio (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 Audio (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 Audio (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 Audio (Line-in)
Touchscreen	Capacitive type 10-point projected capacitive multi-touch	Resistive type	Capacitive multi-touch	Capacitive type 10-point projected capacitive multi-touch
Power Consumption	19W	24W	22W	20W
Power Adapter	Screw-type external AC/DC power adapter	Screw-type external AC/DC power adapter	Screw-type external AC/DC power adapter	Screw-type external AC/DC power adapter
Dimensions (W x D x H)	397 x 247 x 54 mm (15.63" x 9.72" x 2.13")	410.31 x 28 x 38.31 mm (16.15" x 1.10" x 1.32")	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)	3.8 kg (8.38 lb)/6.56 kg (14.46 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 +45°C (+32°F to +113°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 mount	Panel mount, wall mount, VESA mount	Panel mount, wall mount, VESA mount
Certifications	CE	CE	CE	CE

Medical Panel Computers



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" SATA HDD 1 x mSATA	1 x 2.5" SATA 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 Resistive Type	5-wire Resistive Type
Power Supply	9 to 36 VDC 100 to 240V, 65W (medical grade power adapter)	9 to 36 VDC 100 to 240V, 65W (medical grade power adapter)	9 to 36 VDC 100 to 240V, 65W (medical grade power adapter)
Watchdog Timer	255 levels, 0 to 255 sec.	255 levels, 0 to 255 sec.	255 levels, 0 to 255 sec.
Dimensions (W x D x H)	260.8 x 38 x 194.1 mm (10.27" x 1.5" x 7.65")	292.5 x 45.8 x 235.8 mm (1.52" x 1.8" x 9.28")	387.9 x 54.6 x 307.7 mm (15.27" x 2.14" x 12.11")
Weight (net/gross)	1.08 kg (2.38 lb)/2.18 kg (4.8 lb)	1.8 kg (3.96 lb)/3 kg (6.61 lb)	3.2 kg (7.05 lb)/5.1 kg (11.24 lb)
Operating Temperature	0° to +40°C (+32°F to +104°F)	0° to +40°C (+32°F to +104°F)	0° to +40°C (+32°F to +104°F)
Certifications	CE, EN 60601-1	CE, EN 60601-1	CE, EN 60601-1

Medical Panel Computers



Features\Models	MPC153-834	MPC240
CPU Level	Intel® Celeron® J1900 (up to 2.42 GHz)	Socket G3 4th gen Intel® Core™ i7/i5/i3 & Celeron®, Pentium® mobile
Chipset	SoC integrated	Intel® HM86
System Memory	1 x 204-pin DDR3L-1066/1333 SO-DIMM, up to 8GB	2 x 204-pin DDR3L-1600 SO-DIMM, up to 16GB
Display	15.6" WXGA TFT, 300 nits	24" FHD TFT, 250 nits
I/O	2 x RS-232/422/485 1 x RS-232/422/485 (with isolated 4kV) 2 x 10/100/1000 Mbps Ethernet 2 x USB 3.0 1 x Audio (Line-out)	4 x USB 3.0 4 x USB 2.0 1 x 10/100/1000 Mbps Ethernet 1 x Audio (Line-out) 1 x Audio (Mic-in) 1 x HDMI 1 x DC-in jack
Storage	1 x Half-slim SSD 1 x CFast™ or mSATA	1 x 2.5" SATA HDD 1 x M.2-2242 SATA SSD
DVD-RW	N/A	1 x Super multi drive (optional)
Expansion Interface	2 x PCI Express Mini Card slot	1 x PCI Express Mini Card slot
Touchscreen	Projected capacitive multi-touch 5-wire flat resistive type	Projected capacitive multi-touch
Power Supply	9 to 36 VDC 100 to 240V, 65W (medical grade power adapter)	100 to 240V, 135W (medical grade power adapter)
Watchdog Timer	255 levels, 0 to 255 sec.	255 levels, 0 to 255 sec.
Dimensions (W x D x H)	394.2 x 57 x 257.2 mm (15.53" x 2.25" x 10.13")	610 x 35.5 x 415 mm (24.01" x 1.40" x 16.34")
Weight (net/gross)	3.0 kg (6.61 lb)/4.5 kg (9.92 lb)	6.2 kg (13.66 lb)/9 kg (19.84 lb)
Operating Temperature	0°C to +40°C (+32°F to +104°F)	5°C to +40°C (+13°F to +104°F)
Certifications	CE, EN 60601-1, FCC classB	CE, EN 60601-1

Open Frame Panel Computer



Features\Models	FDK172-834
CPU Level	Intel® Celeron® J1900 2.0 GHz
Display Type	17" SXGA TFT LCD
Chipset	SoC integrated
System Memory	1 x 204-pin DDR3L-1333 SO-DIMM, up to 8GB
CPU FSB Frequency	N/A
I/O	4 x RS-232/422/485 2 x USB 3.0 2 x USB 2.0 1 x 10/100/1000 Mbps Ethernet 1 x Audio (Line-out) 1 x VGA
Storage	1 x 2.5" SATA HDD 1 x CFast™ or mSATA
Brightness (cd/m2)	250 nits
Resolution	1280 x 1024
Expansion	2 x PCI Express Mini Card slot
Touchscreen	5-wire resistive type (optional)
Operating System	WES 7, WE8S, Windows® 7, Windows® 8.1
Power Supply	12 to 36 VDC 100 to 240 VAC-DC, 60W (with power adapter)
Power Consumption	57.6W
Watchdog Timer	255 levels, 0 to 255 sec.
Dimensions (W x D x H)	367 x 65 x 304.5 mm (14.45" x 2.6" x 11.99")
Weight (net/gross)	5.52 kg (12.16 lb)/7.5 kg (16.53 lb)
Operating Temperature	0°C to +50°C (+32°F to +122°F)
Certifications	CE

NOTES

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.



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