



2021

CONDENSED CATALOG



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About Axiomtek

Empowering IoT Innovation

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

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

Mission To empower IoT innovation with reliable products and trusted services

Value Passion: We are passionate about our vision, our goals and our commitment to Systems serve our employees and customers.

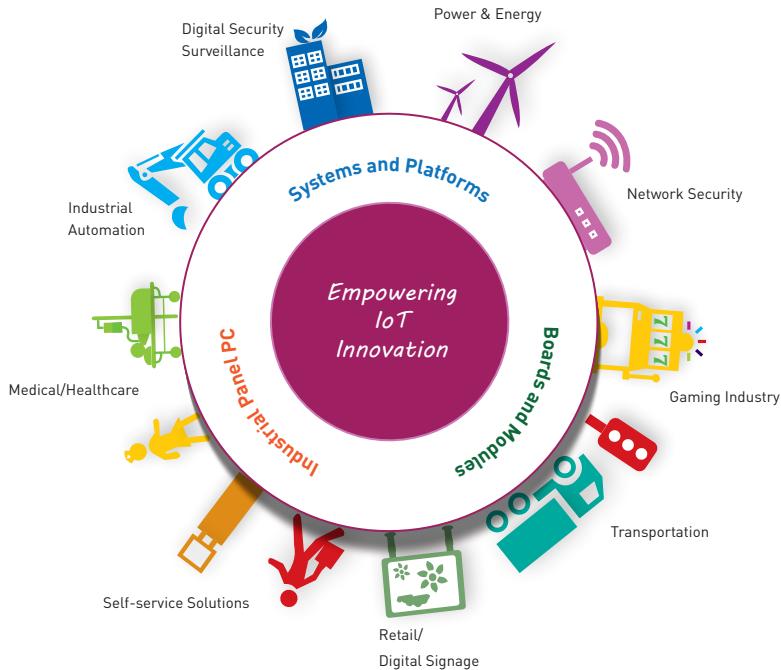
Integrity: We earn your trust through honest and ethical business practice.

Innovation: Our focus is on developing new products using the most advanced technologies and customer-based experiences.

Partnership: We commit to long-term mutual success with customers, employees and stakeholders.

Leadership: Our goal is always to be the leader in our targeted markets.

Diversity: We strive to diversify our products and services to serve specific industry needs.



Product Design

Boards and Modules

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

Industrial Panel PCs

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

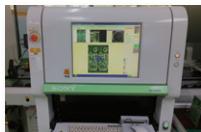
Systems and Platforms

- Heavy-duty design capabilities: extended temperature, fanless operation, anti-dust/water, anti-vibration, EMS and ESD
- Professional certified compliance and industrial standards
- Embedded OS and API capabilities to value-added custom systems
- IEC 61850/IEEE 1613 certified for power grid and substations
- Intel® OPS and Intel OPS+ signage player for retail applications
- EN 50155/EN 50121-4/EN 45545 certified for rolling-stock and railway management
- E-Mark and ISO 7637 certified for in-vehicle applications
- IEC 60945/DNV 2.4 certified for marine
- Intelligent remote management solution for IIoT (AMS.AXView)
- ATEX and C1D2 certified for anti-explosion
- Deep learning AI inference solutions with Intel® Distribution of OpenVINO™ Toolkit and NVIDIA JetPack SDK
- Network appliances support IPMI (Intelligent Platform Management Interface) and DPDK (Data Plane Development Kit)

Strength and Services

Manufacturing Capacity

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



Vertical Market Focus

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

eRMA Service

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

Software Service

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

Quality Assurance

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





Global Support

Axiomtek maintains a global network of international subsidiaries and distributors in more than 40 countries. To maximize service efficiency, Axiomtek employs an international service network. Our worldwide technical support and sales service among our 15 office locations located in Taiwan, North America, Europe, China, Malaysia, Thailand and Japan ensures we deliver dedicated and prompt services. Through our global network of international subsidiaries, customers obtain faster services and the most competitive pricing. Each project is fully supported by a group of experienced engineers, mechanical engineers, field application engineers, and sales coordinators from our worldwide offices. From concept to design, Axiomtek provides a comprehensive set of services to help you shorten your product development cycle and speed up your "Time to Market" gaining a competitive advantage. It has never been this easy to develop a project! With years of experience and knowledge, Axiomtek is your best partner for industry applications.

Technical Support

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

Partnership

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

Microsoft Partner
Silver OEM



AMD

NVIDIA

NXP

Strategic Business Focus

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



Automation

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



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.



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.



Transportation

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



Gaming

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

Global Website

www.axiomtek.com

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

Multi-languages



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

Solutions



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

Supports



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

Partner Zone



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

RWD Design



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

Various Products



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

eCatalogs & Videos



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

Resources



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

eNewsletters



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

Social Links



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

System on Modules



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®/Pentium® Processor D Series	AMD Ryzen™ Embedded V1000
CPU	Onboard	Onboard	Onboard
Core Logic Chipset	SoC integrated	SoC integrated	SoC integrated
Memory Type	DDR3L-1866	DDR4-2400	DDR4-2400/3200
Max. DRAM Capacity	4GB (default)/8GB (optional)	64GB	32GB (dual-channel)
Cache RAM Capacity	SoC integrated	SoC integrated	SoC integrated
BIOS	AMI UEFI BIOS (Legacy Free)	AMI UEFI BIOS (Legacy Free)	AMI UEFI BIOS (Legacy Free)
Watchdog Timer	65536 levels, 0 to 65535 sec.	65536 levels, 0 to 65535 sec.	65536 levels, 0 to 65535 sec.
Onboard Storage	eMMC 5.0 up to 64GB (optional)	N/A	N/A
Onboard GPIO	4-in/4-out	4-in/4-out	4-in/4-out
SATA	2 x SATA-600	2 x SATA-600	2 x SATA-600
TPM	N/A	TPM 2.0	TPM 2.0
I/O Serial	COM 1 TX/RX	TX/RX	TX/RX
	COM 2 TX/RX	TX/RX	TX/RX
	COM 3 N/A	N/A	N/A
	COM 4 N/A	N/A	N/A
USB	2 x USB 3.0 8 x USB 2.0	4 x USB 3.0 4 x USB 2.0	3 x USB 3.0 8 x USB 2.0
Display	1 x DDI 1 x LVDS (eDP optional)	N/A	1 x VGA 1 x LVDS dual-channel 18 /24 bit (eDP 1.3 optional) 2 x DDI (supports HDMI 1.4/DVI/DP 1.2*) *HDMI 2.0 needs Redriver chip on carrier board/DP 1.4 needs Redriver chip on carrier board
Ethernet	1 x 10/100/1000 Mbps Ethernet	1 x 10/100/1000 Mbps Ethernet 2 x 10GBase-KR interfaces support NCSI	1 x 10/100/1000 Mbps Ethernet
Audio	Codec on baseboard	Codec on baseboard	Codec on baseboard
Hardware Monitoring	Yes	Yes	Yes
SMBus	Yes	Yes	Yes
Expansion Interface	4 x PCIe x1	1 x PCIe x16 Gen3 1 x PCIe x8 Gen3 8 x PCIe x1 Gen2	7 x PCIe x1 via PCIe bridge
Power Management	ACPI	ACPI	ACPI
Operating Temperature	Industrial: -40°C to +85°C (-40°F to +185°F) Standard: -20°C to +70°C (-4°F to +158°F)	Industrial: -40°C to 85°C (-40°F to 185°F) Standard: 0°C to 60°C (32°F to 140°F)	-20°C to +60°C (-4°F to +140°F)
Relative Humidity	10% - 95%, non-condensing	10% - 95%, non-condensing	10% - 95%, non-condensing
EMI Compliance	CE	CE	CE



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

3.5" Embedded Boards

NEW



NEW



NEW



Features\Models	CAPA55R	CAPA13R	CAPA520
Form Factor	3.5"	3.5"	3.5"
CPU Level	11th gen Intel® Core™ i7/i5/i3 & Celeron®	AMD® RYZEN™ Embedded V1807B and V1605B APU	9th/8th gen Intel® Core™ i7/i5/i3 & Celeron®
CPU Socket	Onboard	Onboard	Onboard
Core Logic Chipset	SoC integrated	SoC integrated	Intel® H310/Intel® Q370
Memory Type	DDR4-3200	DDR4-3200/2400	DDR4-2666
Max. DRAM Capacity	64GB	16GB	16GB
Cache RAM Capacity	Integrated in CPU	Integrated in CPU	Integrated in CPU
BIOS	AMI UEFI BIOS	AMI UEFI BIOS	AMI UEFI BIOS
Watchdog Timer	65536 Levels, 0 to 65535 sec.	256 Levels, 0 to 255 sec.	256 Levels, 0 to 255 sec.
SSD	1 x M.2 Key M 22 x 80 (NVMe)	1 x M.2 Key B 22 x 42	1 x mSATA (optional)
Digital I/O	8-channel in/out programmable	8-channel in/out programmable	8-channel in/out programmable
SATA	1 x SATA-600	1 x SATA-600	2 x SATA-600
Serial I/O	COM 1 RS-232/422/485 COM 2 RS-232/422/485 COM 3 N/A COM 4 N/A	RS-232/422/485 RS-232 N/A N/A	RS-232/422/485 N/A N/A
	USB 4 x USB 2.0 3 x USB 3.2 Gen2	2 x USB 2.0 2 x USB 3.2 Gen2	3 x USB 2.0 3 x USB 3.0
Display	1 x DisplayPort++ 1 x HDMI 1 x LVDS 1 x eDP (optional)	1 x DisplayPort 2 x HDMI 1 x LVDS	1 x DisplayPort 1 x HDMI 1 x LVDS
Ethernet	1 x 10/100/1000 Mbps Ethernet 1 x 10/100/1000/2500 Mbps Ethernet	2 x 10/100/1000 Mbps Ethernet 2 x 10/100/1000 Mbps Ethernet (optional)	2 x 10/100/1000 Mbps Ethernet 1 x 10/100/1000 Mbps Ethernet (Optional)
Audio	HD audio link	HD audio link	HD audio link
Hardware Monitoring	Yes	Yes	Yes
SMBus	Yes	Yes	Yes
Expansion Interface	1 x M.2 Key E 22 x 30 1 x M.2 Key B 30 x 42/30 x 52	1 x M.2 Key E 22 x 30	1 x Full-size PCI Express Mini Card slot 1 x USB, 1 x PCIe x1, 1 x LPC, 1 x SMBus (through a ZIO connector)
Power Management	ACPI	ACPI	ACPI
Battery	Lithium	Lithium	Lithium
Operating Temperature	-20°C to +60°C (-4°F to +140°F)	-20°C to +60°C (-4°F to 140°F)	-20°C to +60°C (-4°F to +140°F)
Relative Humidity	10% to 95%, non-condensing	10% to 95%, non-condensing	10% to 95%, non-condensing
EMI Compliance	CE	CE	CE

Pico-ITX SBCs

NEW



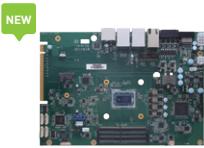
Features\Models	PICO51R	PICO52R	PICO317
Form Factor	Pico-ITX	Pico-ITX	Pico-ITX
CPU Level	7th gen Intel® Core™ i7/i5/i3 & Celeron®	6th gen Intel® Core™ i7/i5/i3 & Celeron®	Intel Atom® x5-E3940
CPU Socket	Onboard	Onboard	Onboard
Core Logic Chipset	SoC integrated	SoC integrated	SoC integrated
Memory Type	DDR4-2133	DDR4-2400	DDR3L-1867
Max. DRAM Capacity	16GB	32GB	8GB
Cache RAM Capacity	Integrated in CPU	Integrated in CPU	Integrated in CPU
BIOS	AMI UEFI BIOS	AMI UEFI BIOS	AMI UEFI BIOS
Watchdog Timer	65536 levels, 0 to 65535 sec.	65536 levels, 0 to 65535 sec.	65536 levels, 0 to 65535 sec.
SSD	1 x M.2 Key B 22 x 42	N/A	N/A
Digital I/O	4-channel in/out programmable	4-channel in/out programmable	N/A
SATA	N/A	1 x SATA-600	1 x SATA-600
I/O	COM 1	RS-232/422/485	RS-232/422/485
	COM 2	RS-232/422/485	RS-232/422/485
USB	2 x USB 3.0 2 x USB 2.0	2 x USB 3.0 2 x USB 2.0	3 x USB 3.0 2 x USB 2.0
Display	1 x DisplayPort++ 1 x LVDS	1 x LVDS 1 x DisplayPort++ 1 x HDMI	1 x HDMI 1 x LVDS
Ethernet	2 x 10/100/1000 Mbps Ethernet	2 x 10/100/1000 Mbps Ethernet	1 x 10/100/1000 Mbps Ethernet
Audio	N/A	N/A	HD Codec
Hardware Monitoring	Yes	Yes	Yes
SMBus	Yes	Yes	Yes
Expansion Interface	1 x M.2 Key E 22 x 30	M.2 Key E 22 x 30	1 x Full-size PCI Express Mini Card slot with mSATA supported
Power Management	ACPI	ACPI	ACPI
Battery	Lithium	Lithium	Lithium
Operating Temperature	-20°C to +60°C (-4°F to +140°F)	-20°C to +60°C (-4°F to +140°F)	-40°C to +70°C (-40°F to +158°F)
Relative Humidity	10% - 95%, non-condensing	10% - 95%, non-condensing	10% - 95%, non-condensing
EMI Compliance	CE	CE	CE

Pico-ITX SBCs



Features\Models	PICO318	PICO319
Form Factor	Pico-ITX	Pico-ITX
CPU Level	Intel® Pentium® N4200 & Celeron® N3350	Intel Atom® x5-E3940
CPU Socket	Onboard	Onboard
Core Logic Chipset	SoC integrated	SoC integrated
Memory Type	DDR3L-1867	DDR3L-1867
Max. DRAM Capacity	8GB	8GB
Cache RAM Capacity	Integrated in CPU	Integrated in CPU
BIOS	AMI UEFI BIOS	AMI UEFI BIOS
Watchdog Timer	65536 levels, 0 to 65535 sec.	65536 levels, 0 to 65535 sec.
SSD	1 x M.2 Key B 22 x 42 or 30 x 42	1 x M.2 Key B 22 x 42 or 30 x 42
Digital I/O	4-channel in/out programmable	4-channel in/out programmable
SATA	N/A	N/A
I/O	Serial COM 1	RS-232/422/485
	COM 2	RS-232
USB	2 x USB 3.0 2 x USB 2.0	2 x USB 3.0 2 x USB 2.0
Display	1 x DisplayPort++ 1 x LVDS	1 x DisplayPort++ 1 x LVDS
Ethernet	2 x 10/100/1000 Mbps Ethernet	2 x 10/100/1000 Mbps Ethernet
Audio	HD Codec	HD Codec
Hardware Monitoring	Yes	Yes
SMBus	Yes	Yes
Expansion Interface	1 x Half-size PCI Express Mini Card slot with mSATA supported	1 x Half-size PCI Express Mini Card slot with mSATA supported
Power Management	ACPI	ACPI
Battery	Lithium	Lithium
Operating Temperature	-20°C to +60°C (-4°F to +140°F)	-40°C to +70°C (-40°F to +158°F)
Relative Humidity	10% - 95%, non-condensing	10% - 95%, non-condensing
EMI Compliance	CE	CE

Embedded Vision Board



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

Mini-ITX Motherboards



NEW



Coming soon



Coming soon

Features\Models	MANO522	MANO526	MANO540
Form Factor	Mini-ITX	Mini-ITX	Mini-ITX
CPU Level	9th/8th gen Intel® Core™ i7/i5/i3	9th/8th gen Intel® Core™ i7/i5/i3, Pentium® & Celeron®	10th gen Intel® Core™ i7/i5/i3, Pentium® & Celeron®
CPU Socket	LGA1151	LGA1151	LGA1200
Core Logic Chipset	Intel® H310	Intel® Q370	Intel® H410
Memory Type	DDR4-2666/2400	DDR4-2400/2666	DDR4-2666
Max. DRAM Capacity	64GB	32GB	32GB
Cache RAM Capacity	Integrated in CPU	Integrated in CPU	Integrated in CPU
BIOS	AMI	AMI	AMI
Watchdog Timer	255 levels, 1 to 255 sec.	255 levels, 1 to 255sec.	255 levels, 1 to 255sec.
SSD	1 x mSATA	1 x M.2 Key M	1 x M.2 Key M
Digital I/O	8-in/out	8-in/out	8-in/out
SATA	2 x SATA-600	2 x SATA-600	2 x SATA-600
I/O	COM 1	RS-232/422/485	RS-232/422/485
	COM 2	RS-232	RS-232
	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	4 x USB 3.0 2 x USB 2.0	4 x USB 3.0 4 x USB 2.0	2 x USB 3.2 Gen1 5 x USB 2.0
Display	1 x VGA 1 x HDMI 1 x LVDS	1 x VGA 1 x DisplayPort++ 1 x eDP	1 x VGA 1 x HDMI 1 x DisplayPort++ 1 x eDP
Ethernet	2 x 10/100/1000 Mbps Ethernet	2 x 10/100/1000 Mbps Ethernet	2 x 10/100/1000 Mbps Ethernet
Audio	HD Codec	HD codec	HD codec
Hardware Monitoring	Yes	Yes	Yes
Expansion Interface	1 x PCIe x16 1 x M.2 Key E 22 x 30	1 x M.2 Key E 1 x PCIe x16	1 x M.2 Key E 1 x PCI Express Mini Card slot 1 x PCIe x16
Power Management	ACPI	ACPI	ACPI
Battery	Lithium	Lithium	Lithium
Operating Temperature	0°C to +60°C (+32°F to +140°F)	0°C to +60°C (+32°F to +140°F)	0°C to +60°C (+32°F to +140°F)
Relative Humidity	10% - 95%, non-condensing	10% - 95%, non-condensing	10% - 95%, non-condensing
EMI Compliance	CE	CE	CE

ATX Motherboards

NEW



NEW



NEW



Features\Models	IMB525R	IMB524R	IMB523R
Form Factor	ATX	ATX	ATX
CPU Level	9th/8th gen Intel® Core™ i7/i5/i3, Xeon® E, Pentium® & Celeron®	9th/8th gen Intel® Core™ i7/i5/i3, Pentium® & Celeron®	9th/8th gen Intel® Core™ i7/i5/i3, Pentium® & Celeron®
CPU Socket	LGA1151	LGA1151	LGA1151
Core Logic Chipset	Intel® C246	Intel® H310	Intel® Q370
Memory Type	DDR4-2666/2400	DDR4-2666/2400	DDR4-2666/2400
Max. DRAM Capacity	128GB	64GB	128GB
Cache RAM Capacity	Integrated in CPU	Integrated in CPU	Integrated in CPU
BIOS	AMI	AMI	AMI
Watchdog Timer	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.
Digital I/O	8-channel programmable	8-channel programmable	8-channel programmable
SATA	5 x SATA-600	4 x SATA-600	5 x SATA-600
Serial I/O	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	RS-232/422/485 RS-232/422/485 RS-232 RS-232 RS-232 RS-232	RS-232/422/485 RS-232/422/485 RS-232 RS-232 RS-232 RS-232
USB	2 x USB 3.1 Gen2, 4 x USB 3.1 Gen1, 7 x USB 2.0	4 x USB 3.1 Gen1, 5 x USB 2.0	2 x USB 3.1 Gen2, 4 x USB 3.1 Gen1, 7 x USB 2.0
SIM Card Slot	Yes	Yes	Yes
Display	1 x VGA, 1 x DVI-D, 1 x HDMI, 1 x DisplayPort++	1 x VGA, 1 x DVI-D, 1 x HDMI, 1 x DisplayPort++	1 x VGA, 1 x DVI-D, 1 x HDMI, 1 x DisplayPort++
Ethernet	2 x 10/100/1000 Mbps Ethernet	2 x 10/100/1000 Mbps Ethernet	2 x 10/100/1000 Mbps Ethernet
Audio	HD Codec	HD Codec	HD Codec
Hardware Monitoring	Yes	Yes	Yes
SMBus	Yes	Yes	Yes
Expansion Interface	1 x PCIe x16, 2 x PCIe x4, 4 x PCI, 1 x PCI Express Mini Card slot	1 x PCIe x16, 2 x PCIe x4 w/PCIe x1 signal 4 x PCI, 1 x PCI Express Mini Card slot	1 x PCIe x16, 2 x PCIe x4, 4 x PCI, 1 x PCI Express Mini Card 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

ATX Motherboards



Features\Models	IMB521R	IMB520R	IMB700	IMB530
Form Factor	ATX	ATX	ATX	ATX
CPU Level	9th/8th gen Intel® Core™ i7/i5/13, Xeon® E, Pentium® & Celeron®	9th/8th gen Intel® Core™ i7/i5/13, Pentium® & Celeron®	Intel® Xeon® Scalable platform	10th gen Intel® Core™ i7/i5/13, Xeon® W, Pentium® & Celeron®
CPU Socket	LGA1151	LGA1151	LGA4189	LGA1200
Core Logic Chipset	Intel® C246	Intel® Q370	Intel® C621A	Intel® W480E
Memory Type	DDR4-2400/2666	DDR4-2400/2666	DDR4-3200	DDR4-2933
Max. DRAM Capacity	128GB	128GB	384GB	128GB
Cache RAM Capacity	Integrated in CPU	Integrated in CPU	Integrated in CPU	Integrated in CPU
BIOS	AMI	AMI	AMI	AMI
Watchdog Timer	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.
Digital I/O	8-channel programmable	8-channel programmable	8-channel programmable	8-channel programmable
I/O	SATA	4 x SATA-600	4 x SATA-600	6 x SATA-600
	COM 1	RS-232/422/485	RS-232/422/485	RS-232/422/485
	COM 2	RS-232/422/485	RS-232/422/485	N/A
	COM 3	RS-232	RS-232	N/A
	COM 4	RS-232	RS-232	N/A
	COM 5	RS-232	RS-232	N/A
	COM 6	RS-232	RS-232	N/A
	USB	2 x USB 3.1 Gen2, 4 x USB 3.1 Gen1, 7 x USB 2.0	2 x USB 3.1 Gen2, 4 x USB 3.1 Gen1, 7 x USB 2.0	6 x USB 3.1 Gen1 7 x USB 2.0
SIM Card Slot	N/A	N/A	N/A	N/A
Display	1 x VGA, 1 x DVI-D, 1 x HDMI, 1 x DisplayPort++	1 x VGA, 1 x DVI-D, 1 x HDMI, 1 x DisplayPort++	1 x VGA	1 x VGA, 1 x DVI-D, 1 x HDMI, 1 x DisplayPort++
Ethernet	2 x 10/100/1000 Mbps Ethernet	2 x 10/100/1000 Mbps Ethernet	2 x 10/100/1000 Mbps Ethernet	2 x 10/100/1000 Mbps Ethernet
Audio	HD Codec	HD Codec	HD Codec	HD Codec
Hardware Monitoring	Yes	Yes	Yes	Yes
SMBus	Yes	Yes	Yes	Yes
Expansion Interface	1 x PCIe x16, 4 x PCIe x4, 1 x PCIe x1, 1 x PCI	1 x PCIe x16, 4 x PCIe x4, 1 x PCIe x1, 1 x PCI	3 x PCIe x16, 3 x PCIe x8	2 x PCIe x16, 3 x PCIe x4, 1 x PCIe x4 w/PCIe x1 signal, 1 x PCI
Power Management	ACPI	ACPI	ACPI	ACPI
Battery	Lithium	Lithium	Lithium	Lithium
Operating Temperature	0°C to +60°C (+32°F to +140°F)	0°C to +60°C (+32°F to +140°F)	0°C to +60°C (+32°F to +140°F)	0°C to +60°C (+32°F to +140°F)
Relative Humidity	10% to 95%, non-condensing	10% to 95%, non-condensing	10% to 95%, non-condensing	10% to 95%, non-condensing
EMI Compliance	CE	CE	CE	CE

PICMG 1.3 Full-size/Half-size CPU Cards



Features\Models	SHB140	SHB150R	SHB250R
Form Factor	PICMG 1.3	PICMG1.3	PICMG 1.3
CPU Level	7th/6th gen Intel® Core™ i7/i5/i3, Pentium® & Celeron®	9th/8th gen Intel® Core™ i7/i5/i3, Xeon® E, Pentium® & Celeron®	9th/8th gen Intel® Core™ i7/i5/i3, Xeon® E, Pentium® & Celeron®
CPU Socket	LGA1151	LGA1151	LGA1151
Core Logic Chipset	Intel® Q170/H110	Intel® C246/Q370/H310	Intel® C246/Q370/H310
Memory Type	DDR4-2400/2133	DDR4-2666/2400	DDR4-2666/2400
Max. DRAM Capacity	32GB	64GB	64GB
Cache RAM Capacity	Integrated in CPU	Integrated in CPU	Integrated in CPU
BIOS	AMI	AMI	AMI
Watchdog Timer	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.
SSD	N/A	M.2 Key M 2280 w/PCIe x4 signal (C246,Q370)	M.2 Key M 2242
Digital I/O	N/A	N/A	N/A
IDE	N/A	N/A	N/A
SATA	Q170: 6 x SATA-600, support RAID 0/1/5/10 H110: 4 x SATA-600	C246/Q370: 6 x SATA-600, support RAID 0/1/5/10 H310: 4 x SATA-600	C246/Q370: 2 x SATA-600, support RAID 0/1 H310: 2 x SATA-600
FDD	N/A	N/A	N/A
LPT	N/A	1 x LPT	N/A
I/O	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	N/A
	COM 6	RS-232	N/A
USB	Q170: 2 x USB 3.0 & 10 x USB 2.0 H110: 2 x USB 3.0 & 8 x USB 2.0	C246/Q370: 2 x USB 3.1 Gen2, 4 x USB 3.1 Gen1 & 6 x USB 2.0, H310: 4 x USB 3.1 Gen1 & 6 x USB 2.0	4 x USB 3.1 Gen1, 4 x USB 2.0
IrDA	N/A	N/A	N/A
IEEE 1394a	N/A	N/A	N/A
Display	1 x DVI-I	1 x DVI-I, 1 x DisplayPort++	1 x DVI-I, 1 x DisplayPort++
Ethernet	2 x 10/100/1000 Mbps Ethernet	2 x 10/100/1000 Mbps Ethernet	2 x 10/100/1000 Mbps Ethernet
Audio	HD Codec	HD Codec	HD Codec
Hardware Monitoring	Yes	Yes	Yes
SMBus	Yes	Yes	Yes
Expansion Interface	1 x PCIe x16, 1 x PCIe x4 or 4 x PCIe x1, 4 x PCI	1 x PCIe x16, 1 x PCIe x4 or 4 x PCIe x1, 4 x PCI	1 x PCIe x16, 1 x PCIe x4 or 4 x PCIe x1,
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

ARM-based Embedded Boards



Features\Models	SCM180	Q7M120	SCM120
Form Factor	SMARC v2.0	Qseven v2.0	SMARC v1.0
CPU Level	ARM Cortex™-A9 CPU 800 MHz/ 1 GHz	ARM Cortex™-A9 CPU 800 MHz/ 1 GHz	ARM Cortex™-A9 CPU 800 MHz/ 1 GHz
CPU Socket	Onboard	Onboard	Onboard
Core Logic Chipset	SoC integrated	SoC integrated	SoC integrated
Memory Type	LPDDR4-1866 on board	DDR3-1600 onboard	DDR3-800/1066 onboard
Max. DRAM Capacity	4GB	1GB	1GB
RTC	Battery on the baseboard is required	Battery on the baseboard is required	Battery on the baseboard is required
Watchdog Timer	255 levels, 1 to 255 sec./min.	255 levels, 1 to 255 sec./min.	255 levels, 1 to 255 sec./min.
Storage	eMMC flash 8GB	eMMC flash 4GB	eMMC flash 4GB
Digital I/O	12 x GPIO	8 x GPIO	8 x GPIO
TPM	N/A	N/A	N/A
I/O Interface	2 x PCIe 1 x USB 2.0, 1 x OTG Client 2 x USB 3.0 1 x I²S 2 x CANBus 3 x I²C 2 x COM (TX/RX/RTS/CTS) 1 x COM (TX/RX) 1 x COM (TX/RX for console debug) 1 x HDMI 2 x MIPI CSI2 v1.1 (2 and 4 lane) 1 x QSPI with 2 chip select 1 x SPI with 2 chip select 1 x MIPI DSI 4 lanes or dual-channel LVDS	1 x PCIe 1 x USB 2.0 1 x OTG Client 1 x I²S 2 x CANBus 3 x I²C 4 x COM (TX/RX/RTS/CTS) 1 x Console 1 x HDMI 1 x 24-bit TTL Signal 1 x SPI 2 x Signal channel 24-bit LVDS	1 x PCIe 1 x USB 2.0 1 x OTG Client 1 x I²S 2 x CANBus 4 x I²C 3 x COM(TX/RX/RTS/CTS) 1 x Console 1 x MIPI v1.0 (2 lanes) 1 x PCAM 8-bit 1 x HDMI 1 x 24-bit TTL Signal 2 x Signal channel 24-bit LVDS 1 x SPI
Ethernet	1 x 10/100/1000 Mbps Ethernet	1 x 10/100/1000 Mbps Ethernet	1 x 10/100/1000 Mbps Ethernet
Power Input	+3V to +5.25V DC-in	+5V ± 5% DC-in	+5V ± 5% DC-in
OS	Linux Kernel	Linux Kernel 3.0.35	Linux Kernel 3.0.35
Operating Temperature	Commercial: 0°C to +70°C (-32°F to +158°F) Industrial: -40°C to +80°C (-40°F to +176°F)	-40°C to +85°C (-40°F to 185°F)	-40°C to +85°C (-40°F to 185°F)
Relative Humidity	10% - 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, 15W	Intel® Pentium® N4200 & Celeron® N3350
CPU Socket	Onboard	Onboard
Core Logic Chipset	SoC integrated	SoC integrated
Memory Type	Dual-channel DDR4-2400 SO-DIMM	LPDDR4
Max. DRAM Capacity	32GB	4GB/8GB (optional)
Cache RAM Capacity	SoC integrated	SoC integrated
BIOS	AMI UEFI BIOS	AMI UEFI BIOS
Watchdog Timer	255 levels, 1 to 255 sec./min.	255 levels, 1 to 255 sec./min.
SSD	1 x M.2 Key M slot for storage 1 x M.2 Key B slot for storage	32GB (optional)/64GB eMMC onboard
Golden Finger	PCIe x8 (98-pin) 1 x USB 3.0 1 x HDMI 2.0 1 x DisplayPort 1.2 1 x Serial TX/RX 2 x I²C	PCIe x8 (98-pin) 1 x USB 3.0 1 x HDMI 1.4 1 x DisplayPort 1.2 1 x Serial TX/RX 2 x I²C
	1 x 10/100/1000 Mbps with Intel® i211-AT; supports Wake-on-LAN, PXE Boot ROM	1 x 10/100/1000 Mbps with Intel® i211-AT; supports Wake-on-LAN, PXE Boot ROM
Others	4 x USB 3.0 1 x USB type C (optional) 1 x Mic-in 1 x Line-out 1 x HDMI 1.4 (optional)	2 x USB 3.0
	Yes	Yes
Expansion Interface	1 x M.2 Key E for Wi-Fi/Bluetooth 1 x M.2 Key M slot for storage 1 x M.2 Key B slot for storage	1 x M.2 Key E for Wi-Fi/Bluetooth 1 x PCIe x1 thru SDM edge connector
Power Input	Through SDM edge connector +12V & +3.3VBS	Through SDM edge connector +12V & +3.3VBS
Battery	Lithium 3 V/220 mAH	Lithium 3 V/220 mAH
Operating Temperature	0°C to 60°C (+32°F to +140°F) -20 to 70 °C (-20°F to +158°F) (optional)	0°C to +55°C (+32°F to +131°F)
Relative Humidity	10% to 95%, non-condensing	10% to 95%, non-condensing
EMI Compliance	CE	CE

PCI Express Cards

AX92320

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

Features	<ul style="list-style-type: none">• PCI Express x4 compliant• 2 or 4 independent Gigabit PoE ports• Supports 9.5KB Jumbo Frame and IEEE 1588• Compliant with IEEE802.3at to deliver 30W at 54 VDC per port• Up to 20/120W PoE power from PCIe 6-pin ATX power connector• 0°C to +60°C operating temperature range• PoE power management software• Supports LAN port smart on/off
Dimensions	168 x 111 mm



Ordering Information

AX92320-2GbE (P/N: E392320103)	2-port PCI Express GigE frame grabber card
AX92320-4GbE (P/N: E392320100)	4-port PCI Express GigE frame grabber card
PoE Power Cable (P/N: 59492320700E)	4P 3.0/6P 4.2, L=10 cm (only be used with IPC962, IPC964 & IPC974)
Power Cable (P/N: 59492320730E)	6-pin ATX to Molex 4-pin power cable, L=150 mm (used for ATX power)

AX92321

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

Features	<ul style="list-style-type: none">• 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 mm (6.6") x 107 mm (4.2")



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)	Power cable 4P3.0/6P4.2, L=100 mm (For IPC962/964 riser card power connector)

AX92322

2-port/4-port GigE PCI Express Card

Features	<ul style="list-style-type: none">• 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 (P/N: E392322101)	2-port GigE PCI Express card
AX92322-4GbE (P/N: E392322100)	4-port GigE PCI Express card

AX92324

NEW

2-port 10GbE PoE PCI Express Card**Features**

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

Dimensions

168 x 111 mm

**Ordering Information**

AX92324-PoE 2-port 10GbE PCIe card with PoE
(P/N: E392324100)

AX92324-w/o PoE 2-port 10GbE PCIe card
(P/N: E392324101)

PoE Power Cable 4P 3.0/6P 4.2, L=10 cm (only used with IPC962/IPC964/IPC974)
(P/N: 59492320700E)

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

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

Dimensions

168 x 107 mm

Ordering Information

AX92351-32CH 32-CH isolated digital I/O with digital filter
(P/N: E392351102)

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

Accessories

5A237AP020E	37-pin DIN-rail terminal board DM37-AP02
594DM373500E	37-pin D-Sub cable, L=1m WHDM37/1.0
594DM373510E	37-pin D-Sub cable, L=2m WHDM37/2.0
594DM373520E	37-pin D-Sub cable, L=3m WHDM37/3.0

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

**AX92352****2-CH Encoder Card with Real-Time trigger I/O****Features**

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

Dimensions

168 x 100 mm

Accessories

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

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

**Ordering Information**

AX92352 2-CH encoder card with real-time trigger I/O
(P/N: E392352100)

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

PCI Express Cards

AX92353

4-CH Lighting Control Module

Features	<ul style="list-style-type: none">• 4-CH independent constant current LED drivers (up to 1 A)• Supports strobe and trigger mode• Intensity control by software• Supports duration and delay time for LED output
Dimensions	151 x 80 mm

Ordering Information

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



NEW



Features\Models	eBOX100-312-FL	eBOX100-51R-FL	eBOX560-52R-FL
CPU Level	Intel® Celeron® N3350 2.4 GHz Intel® Pentium® N4200 2.5 GHz	Intel® Core™ i5-7300U 2.6 GHz Intel® Celeron® 3965U 2.2 GHz	Intel® Core™ i5-8365UE 1.6 GHz Intel® Celeron® 4305UE 2.0 GHz
System Memory	1 x 204-pin DDR3L-1600 SO-DIMM, up to 8GB	1 x 260-pin DDR4-2133 SO-DIMM, up to 16G	1 x 260-pin DDR4-2400 SO-DIMM, up to 32GB
Chipset	SoC integrated	SoC integrated	SoC integrated
Serial	1 x RS-232	2 x RS-232/422/485	2 x RS-232/422/485
Display	2 x HDMI	1 x DisplayPort++	1 x HDMI 1 x DisplayPort++
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	2 x USB 3.1 Gen2 2 x USB 2.0
Expansion Interface	2 x Full-size PCI Express Mini Card slot (USB + PCIe) 1 x SIM slot	1 x M.2 Key E 2230 (for Wi-Fi)	1 x M.2 Key E 2230 (for Wi-Fi)
Storage	1 x 2.5" HDD drive bay	1 x M.2 Key B (SATA)	1 x 2.5" HDD drive bay
Watchdog Timer	255 levels, 1 to 255 sec.	65535 levels, 1 to 65536 sec.	65535 levels, 1 to 65536 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 +50°C (+14°C to +122°C) with 0.7 m/s air flow (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")	141.6 x 106 x 56 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)	0.6 kg (1.32 lb)/1.5 kg (3.3 lb)
Certifications	CE, FCC Class A	CE, FCC Class A, IEC 60945	CE, FCC Class A
EOS Support	Win 10 IoT, Linux	Win 10 IoT, Linux	Win 10 IoT, Linux
Software Support	N/A	AMS.AXView	AMS.AXView

Embedded Systems



Features\Models	eBOX560-500-FL	eBOX560-512-FL	eBOX560-900-FL
CPU Level	Intel® Core™ i7-6600U 3.4 GHz/ i5-6300U 3.0 GHz/i3-6100U 2.3 GHz & Celeron® 3955U 2.0 GHz	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
System Memory	1 x 260-pin DDR4-2133 SO-DIMM, up to 16GB	1 x 260-pin DDR4-2133 SO-DIMM, up to 16GB	1 x 8GB 128-bit LPDDR4 onboard
Chipset	SoC integrated	SoC integrated	SoM integrated
Serial	1 x RS-232/422/485 1 x RS-232	2 x RS-232/422/485	N/A
Display	2 x HDMI	2 x HDMI	1 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 (NVIDIA® + Intel® i210-IT)
USB	4 x USB 3.0	4 x USB 3.0	1 x USB 2.0
Expansion Interface	1 x Full-size PCI Express Mini Card slot (USB + PCIe)	1 x Full-size PCI Express Mini Card slot (USB + PCIe)	1 x Full-size PCI Express Mini Card slot (USB + PCIe) 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)	Onboard 32GB eMMC (built-in TX2) 1 x M.2 Key M 2280 with PCIe x4 NVMe SSD slot
Watchdog Timer	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.	Built-in TX2
Power Supply	12 VDC	12 VDC	12 VDC
Operating Temperature	-10°C to +55°C (+14°F to +131°F) (with W.T. SSD/DRAM)	-10°C to +50°C (+14°F to +122°F) (with W.T. SSD/DRAM)	-30°C to +60°C (-22°F to +140°F)
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)	141.5 x 106 x 55 mm (5.57" x 4.17" x 2.17")	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")
Weight (net/gross)	0.8 kg (1.76 lb)/1.67 kg (3.68 lb)	0.8 kg (1.76 lb)/1.67 kg (3.68 lb)	0.8 kg (1.76 lb)/1.5 kg (3.31 lb)
Certifications	CE	CE, FCC Class A	CE, FCC Class A
EOS Support	Win 10 IoT, WE8S, Linux	Win 10 IoT, Linux	Linux Ubuntu 18.04
Software Support	N/A	N/A	N/A



Features\Models	eBOX565-500-FL	eBOX625-312-FL	eBOX625-853-FL
CPU Level	Intel® Core™ i5-6300U 2.4 GHz/ i3-6100U 2.3 GHz & Celeron® 3955U 2.0 GHz	Intel® Celeron® N3350 2.4 GHz Intel® Pentium® N4200 2.5 GHz	Intel® Celeron® N3160 2.24 GHz
System Memory	1 x 260-pin DDR4-2133 SO-DIMM, up to 16GB	1 x 204-pin DDR3L-1866 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	1 x RS-232/422/485 1 x RS-232	2 x RS-232/422/485 1 x RS-232	1 x RS-232/422/485 3 x RS-232
Display	2 x HDMI	1 x HDMI (lockable) 1 x VGA	1 x VGA 1 x HDMI
Audio	N/A	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	2 x USB 2.0 4 x USB 3.0	1 x USB 2.0 3 x USB 3.0
Expansion Interface	1 x Full-size PCI Express Mini Card slot (USB + PCIe)	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	255 levels, 1 to 255 sec.	65536 levels, 1 to 65535 sec.	255 levels, 1 to 255 sec.
Power Supply	9 to 36 VDC	12 VDC	12 VDC
Operating Temperature	-10°C to +50°C (-4°F to +122°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)	141.6 x 106 x 73 mm (5.57" x 4.17" x 2.87")	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)	1.074 kg (1.76lb)/1.67 kg (3.68lb)	1.1 kg (2.43 lb)/1.8 kg (3.97 lb)	1.2 kg (2.65 lb)/1.9 kg (4.19 lb)
Certifications	CE	CE, FCC Class A	CE
EOS Support	Win 10 IoT, WE8S, Linux	Win 10 IoT, Linux	WES7, WE8S, Win 10 IoT, Linux
Software Support	N/A	AMS.AXView	N/A

Embedded Systems



Features\Models	eBOX626-311-FL	eBOX626-853-FL	eBOX627-312-FL
CPU Level	Intel Atom® x5-E3940 1.8 GHz	Intel® Celeron® N3160 2.24 GHz	Intel® Celeron® N3350 2.4 GHz Intel® Pentium® N4200 2.5 GHz
System Memory	1 x 204-pin DDR3L-1866 SO-DIMM, up to 8GB	1 x 204-pin DDR3L-1333/1600 SO-DIMM, up to 8GB	1 x 204-pin DDR3L-1866 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	2 x RS-232/422/485 2 x RS-232
Display	1 x HDMI (lockable) 1 x VGA	1 x HDMI 1 x VGA	1 x HDMI (lockable)
Audio	Yes	Yes	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	2 x USB 2.0 4 x USB 3.0	1 x USB 2.0 3 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	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.	65536 levels, 1 to 65535 sec.
Power Supply	9 to 36 VDC	9 to 36 VDC	9 to 36 VDC
Operating Temperature	-40°C to +60°C (-40°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 +70°C (-4°F to +158°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 65 mm (7.87" x 4.72" x 2.55")
Weight (net/gross)	1.2 kg (2.65 lb)/1.6 kg (3.53 lb)	1.2 kg (2.65 lb)/1.9 kg (4.19 lb)	1.38 kg (3.04 lb)/2.08 kg (4.59 lb)
Certifications	CE, FCC Class A	CE	CE, FCC Class A
EOS Support	Win 10 IoT, Linux	WES7, WE8S, Linux	Win 10 IoT, Linux
Software Support	AMS.AXView	N/A	AMS.AXView

NEW



Features\Models	eBOX630-528-FL	eBOX638-842-FL	eBOX640-500-FL
CPU Level	Intel® Core™ i7-8665UE/i5-8365UE/i3-8145UE & Celeron® 4305UE (15W)	Intel® Celeron® J1900 2.0 GHz	LGA1151 7th/6th gen Intel® Core™ i7/i5/i3 & Celeron® (35W)
System Memory	2 x 260-pin DDR4-2400 SO-DIMM, up to 64GB	1 x 204-pin DDR3L-1066/1333 SO-DIMM, up to 8GB	2 x 288-pin DDR4-2133 DIMM, up to 32GB
Chipset	SoC integrated	SoC integrated	Intel® H110
Serial	2 x RS-232/422/485 2 x RS-232	2 x RS-232/422/485 2 x RS-232	1 x RS-232/422/485 3 x RS-232
Display	2 x HDMI (lockable) 1 x VGA	1 x HDMI 1 x VGA	1 x DisplayPort 1 x HDMI 1 x VGA
Audio	Yes	Yes	Yes
PS/2	N/A	Yes	N/A
Ethernet	3 x 10/100/1000 Mbps Ethernet	2 x 10/100/1000 Mbps Ethernet	2 x 10/100/1000 Mbps Ethernet
USB	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	2 x USB 2.0 4 x USB 3.0
Expansion Interface	2 x Full-size PCI Express Mini Card Slot A (USB + PCIe signal) Slot B (USB + PCIe + SATA signal)	1 x Full-size PCI Express Mini Card slot (USB + PCIe) 2 PCIe slot or 2 PCIe x1 slot 1 x SIM slot	1 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)	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.	255 levels, 1 to 255 sec.
Power Supply	9 to 36 VDC	9 to 36 VDC	10 to 30 VDC
Operating Temperature	-40°C to +70°C (-40°F to +158°F) with 0.7 m/s air flow -40°C to +65°C (-40°F to +149°F) with 0.5 m/s air flow (with W.T. SSD/DRAM)	-10°C to +55°C (+14°F to +131°F) (with W.T. DRAM & SSD)	-10°C to +55°C (+14°F to +131°F) (with W.T. SSD/DRAM)
Mounting	Wall mount VESA mount DIN-rail	Wall mount	Wall mount
Dimensions (W x D x H)	250 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")	182 x 235.7 x 82 mm (7.16" x 9.27" x 3.23")
Weight (net/gross)	2.2 kg (4.85 lb)/3 kg (6.6 lb)	4.1 kg (9.03 lb) /4.8 kg (10.58 lb)	3 kg (6.61 lb)/3.6 kg (7.94 lb)
Certifications	CE, FCC Class A	CE Compliance	CE
EOS Support	Win 10 IoT, Linux	WES7, Win 10 IoT	Win 10 IoT, WE8S, WES7, Linux
Software Support	N/A	N/A	N/A

Embedded Systems



Features\Models	eBOX640-521-FL	eBOX670-891-FL	eBOX671-517-FL
CPU Level	LGA1151 9th/8th gen Intel® Core™ i7/ i5/i3 & Celeron® (35W)	LGA1151 7th/6th gen Intel® Core™ i7/ i5/i3 & Celeron® (35W)	LGA1151 7th/6th gen Intel® Core™ i7/ i5/i3 & Celeron® (35W/65W)
System Memory	2 x 260-pin DDR4-2666/2400 SO-DIMM, up to 64GB	6th gen: 2 x 260-pin DDR4-1866/2133 SO-DIMM, up to 32GB 7th gen: 2 x 260-pin DDR4-2133/2400 SO-DIMM, up to 32GB	2 x 260-pin DDR4-2133 SO-DIMM, up to 32GB
Chipset	H310/Q370 (optional)	Intel® Q170	Intel® Q170
Serial	1 x RS-232/422/485 1 x RS-232	2 x RS-232/422/485 (onboard) 2 x RS-232/422/485 (via cable on flexible IO window)	2 x RS-232/422/485
Display	1 x HDMI 1 x DisplayPort	2 x HDMI 1 x DisplayPort	1 x VGA 1 x DVI-D 1 x HDMI
Audio	Yes	Yes	Yes
PS/2	N/A	N/A	N/A
Ethernet	2 x 10/100/1000 Mbps Ethernet	4 x 10/100/1000 Mbps Ethernet	8 x 10/100/1000 Mbps PoE, max. up to 120W
USB	4 x USB 2.0 2 x USB 3.0	2 x USB 2.0 6 x USB 3.0	2 x USB 2.0 4 x USB 3.0
Expansion Interface	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	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 + PCIe) 2 x SIM slot
Storage	2 x 2.5" HDD drive bay	2 x 2.5" HDD drive bay 1 x CFast™ 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.	255 levels, 1 to 255 sec.
Power Supply	19 VDC, 6.32A (12V, 24V DC can be used by option adapter)	9 to 36 VDC	24 VDC
Operating Temperature	-10°C to +50°C (14°F to 122°F) (with W.T. SSD/DRAM)	-40°C to +60°C (-40°F to +140°F) (with W.T. SSD/DRAM)	-40°C to +70°C (-40°F to +158°F) (with W.T. SSD/DRAM)
Mounting	Wall mount DIN-rail	Wall mount DIN-rail	Wall mount DIN-rail
Dimensions (W x D x H)	195 x 210.6 x 80 mm (7.67" x 8.29" x 3.14")	280 x 190 x 76 mm (11.02" x 7.48" x 2.99")	280 x 210 x 79.6 mm (11.02" x 8.26" x 3.13")
Weight (net/gross)	3 kg (6.61 lb)/3.6 kg (7.94 lb)	3.8 kg (8.37 lb)/4.6 kg (10.14 lb)	4.31 kg (9.5 lb)/5.1 kg (11.24 lb)
Certifications	CE, FCC Class A	UL62368-1 certified, CE, FCC Class A	CE, FCC Class A
EOS Support	Win 10 IoT, Linux	WE8S, Win 10 IoT, Linux	Win 10 IoT, Linux
Software Support	N/A	AMS.AXView	AMS.AXView



Features\Models	eBOX671-521-FL	eBOX700-891-FL	eBOX710-521-FL
CPU Level	LGA1151 9th gen Intel® Core™ i7/i5/i3 & Celeron® (35W) LGA1151 8th gen Intel® Core™ i7/i5/i3 & Celeron® (35W/65W)	LGA1151 7th/6th gen Intel® Core™ i7/i5/i3 & Celeron® (35W)	LGA1151 Intel® Xeon®, 9th/8th gen Intel® Core™ i7/i5/i3 & Celeron® (35W)
System Memory	2 x 260-pin DDR4-2666 SO-DIMM, up to 64GB	6th gen: 2 x 260-pin SO-DIMM DDR4-1866/2133, up to 32GB 7th gen: 2 x 260-pin SO-DIMM DDR4-2133/2400, up to 32GB	2 x 260-pin DDR4-2666 ECC/non-ECC SO-DIMM, up to 64GB* * ECC memory can be supported by Intel® Xeon® and Intel® Core™ i3 processor only
Chipset	Intel® Q370 Intel® C246 (optional)	Intel® H110	Intel® C246 PCH
Serial	2 x RS-232/422/485	2 x RS-232/422/485	2 x RS-232/422/485
Display	1 x DisplayPort 1 x DVI-I 1 x HDMI 2 x DisplayPort via MXM (optional)	1 x DisplayPort 2 x HDMI	1 x HDMI 1 x DisplayPort 1 x DVI-I
Audio	Optional	Optional	Optional
PS/2	N/A	N/A	N/A
Ethernet	2 x 10/100/1000 Mbps Ethernet 4 x 10/100/1000 Mbps PoE, max. up to 60W	4 x 10/100/1000 Mbps Ethernet	6 x 10/100/1000 Mbps Ethernet
USB	4 x USB 3.1 Gen1 2 x USB 3.1 Gen2	2 x USB 2.0 4 x USB 3.0	4 x USB 3.1 Gen2 2 x USB 3.1 Gen1
Expansion Interface	2 x Full-size PCI Express Mini Card slot (USB + PCIe signal) 2 x SIM slot 1 x MXM3.1 type A connector	2 x Full-size PCI Express Mini Card slot (USB + PCIe) 1 x PCIe x4 or 1 x PCI 1 x SIM slot	2 x Full-size PCI Express Mini Card slot (USB + PCIe) 2 x SIM slot 1 x PCIe x4 slot
Storage	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)	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	24 VDC	9 to 36 VDC	24 VDC
Operating Temperature	-40°C to +60°C (-40°F to +140°F) (with W.T. SSD/DRAM)	-40°C to +50°C (-40°F to +122°F) (with W.T. SSD/DRAM)	-40°C to 70°C (-40°F to 158°F) (with W.T. DRAM/SSD)
Mounting	Wall mount DIN-rail	Wall mount DIN-rail	Wall mount DIN-rail
Dimensions (W x D x H)	280 x 210 x 80.5 mm (11.02" x 8.26" x 3.16")	280 x 190 x 76 mm (11.02" x 7.4" x 2.99")	280 x 210 x 80.5 mm (11.02" x 8.26" x 3.16")
Weight (net/gross)	4.8 kg (10.58 lb)/5.6 kg (12.34 lb)	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	CE, FCC Class A
EOS Support	Win 10 IoT, Linux	Win 10 IoT, Linux	Win 10 IoT, Linux
Software Support	AMS.AXView	AMS.AXView	AMS.AXView

Embedded Systems



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 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
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 C3 USB 2.0
Expansion Interface	1 x Full-size PCI Express Mini Card slot 1 x Half-size PCI Express Mini Card slot (USB + PCIe)	1 x Full-size PCI Express Mini Card slot 1 x Half-size PCI Express Mini Card slot (USB + PCIe)	1 x Full-size PCI Express Mini Card slot (USB + PCIe signal) 1 x SIM slot
Storage	1 x 2.5" HDD drive bay 1 x mSATA (enabled in BIOS setting)	1 x 2.5" HDD drive bay 1 x CFast™ 1 x mSATA (enabled in BIOS setting) 1 x SIM slot	Onboard 32GB eMMC (built-in TX2) 1 x M.2 Key M 2280 with PCIe 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 83.8 mm (8.27" x 14.44" x 3.27")	210 x 366.83 x 83.8 mm (8.27" x 14.44" x 3.27")	210 x 366.83 x 83.8 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



Features\Models	AIE100-903-FL	AIE100-903-FL-NX	AIE500-901-FL
CPU Level	NVIDIA® Jetson Nano™ SoM Quad-core ARM® Cortex®-A57 MPCore	NVIDIA® Jetson Xavier™ NX SoM 6-core NVIDIA Carmel ARMv8.2 64-bit CPU 6MB L2 + 4MB L3	NVIDIA® Jetson™ TX2 SoM HMP Dual Denver 2/2 MB L2 + Quad ARM® A57/2 MB L2
GPU	NVIDIA Maxwell™ GPU architecture with 128 NVIDIA CUDA® cores	384-core NVIDIA Volta™ GPU with 48 Tensor Cores	NVIDIA Pascal™ architecture with 256 NVIDIA CUDA cores
System Memory	1 x 4GB 64-bit LPDDR4 onboard	1 x 8GB 128-bit LPDDR4x onboard	1 x 8GB 128-bit LPDDR4 onboard
Chipset	SoM integrated	SoM integrated	SoM integrated
Serial	N/A	N/A	2 x RS-232 default (or 2 x CAN by jumper settings)
Display	1 x HDMI	1 x HDMI	1 x HDMI
Ethernet	1 x 10/100/1000 Mbps Ethernet 1 x 10/100/1000 Mbps PoE	1 x 10/100/1000 Mbps Ethernet 1 x 10/100/1000 Mbps PoE	2 x 10/100/1000 Mbps Ethernet
USB	1 x USB 3.1 Gen1 1 x USB 2.0 1 x Micro USB	1 x USB 3.1 Gen2 1 x USB 2.0 1 x Micro USB	2 x USB 3.1 Gen1 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 SIM slot
Storage	Onboard 16GB eMMC (built-in Nano) 1 x M.2 Key M 2280 with PCIe x4 NVMe SSD slot 1 x Micro SD slot	Onboard 16GB eMMC (built-in Xavier NX) 1 x M.2 Key M 2280 with PCIe x4 NVMe SSD slot 1 x Micro SD slot	Onboard 32GB eMMC (built-in TX2) 1 x M.2 Key M 2280 with PCIe x1 and SATA SSD slot 1 x Micro SD slot
Watchdog Timer	Built-in Nano	Built-in Xavier NX	Built-in TX2
Power Supply	12 VDC	12 VDC	12 or 24 VDC
Operating Temperature	-30°C to +60°C (-22°F to +140°F)	-30°C to +50°C (-22°F to +122°F)	-30°C to +60°C (-22°F to +140°F)
Mounting	Wall mount DIN-rail VESA mount	Wall mount DIN-rail VESA mount	Wall mount DIN-rail VESA mount
Dimensions (W x D x H)	148.6 x 129.8 x 34.6 mm (5.85" x 5.11" x 1.36")	148.6 x 129.8 x 34.6 mm (5.85" x 5.11" x 1.36")	171 x 110 x 57 mm (6.73" x 4.33" x 2.24")
Weight (net/gross)	1 kg (2.20lb)/1.6 kg (3.52lb)	1 kg (2.20lb)/1.6 kg (3.52lb)	1.2 kg (2.64 lb)/1.7 kg (3.75 lb)
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

Edge AI Systems



Features\Models	AIE800-904-FL	AIE900-902-FL
CPU Level	NVIDIA® Jetson Xavier™ NX SoM 6-core NVIDIA Carmel ARMv8.2 64-bit CPU 6MB L2 + 4MB L3	NVIDIA® Jetson AGX Xavier™ SoM 8-core Carmel ARM v8.2 64-bit CPU 8MB L2 + 4MB L3
GPU	384-core NVIDIA Volta™ GPU with 48 Tensor Cores	NVIDIA Volta™ architecture with 512 NVIDIA CUDA cores and 64 Tensor cores
System Memory	1 x 8GB 128-bit LPDDR4x onboard	1 x 32GB 256-bit LPDDR4x onboard
Chipset	SoM integrated	SoM integrated
Serial	N/A	2 x RS-232 default (or 2 x CAN by jumper settings)
Display	1 x C3 HDMI	2 x HDMI (lockable)
Ethernet	1 x 10/100/1000 Mbps PoE (M12, 30W)	2 x 10/100/1000 Mbps Ethernet 4 x 10/100/1000 Mbps PoE
USB	1 x C3 USB 2.0	2 x USB 3.1 Gen2 2 x USB 3.1 Gen1 2 x USB 2.0 1 x Micro USB
Expansion Interface	1 x Full-size PCI Express Mini Card slot (USB + PCIe) 1 x SIM slot	1 x Full-size PCI Express Mini Card slot (USB + PCIe) 1 x M.2 Key E 2230 slot 1 x SIM slot
Storage	Onboard 16GB eMMC (built-in Xavier™ NX) 1 x M.2 Key B 2242 with PCIe x2 NVMe SSD slot	Onboard 32GB eMMC (built-in AGX 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 Xavier NX	Built-in AGX Xavier
Power Supply	100 to 240 VAC with 10kV SPD	24 VDC default (9 to 36 VDC without PoE feature)
Operating Temperature	-30°C to +50°C (-22°F to +122°F)	-30°C to +50°C (-22°F to +122°F)
Mounting	Wall mount VESA mount	Wall mount DIN-rail VESA mount
Dimensions (W x D x H)	366.8 x 235 x 83.8 mm (14.44" x 9.25" x 3.3")	239 x 185.3 x 79.4 mm (9.41" x 7.3" x 3.13")
Weight (net/gross)	4.13kg (9.11lb)/5.5kg (12.13lb)	2.8kg (6.17lb)/3.45kg (7.61lb)
Certifications	CE, FCC Class A	CE, FCC Class A
EOS Support	Linux Ubuntu 18.04	Linux Ubuntu 18.04

Transportation Embedded Systems



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	Layer-2 managed 8x M12 D-coded 10/100 Mbps Ethernet Layer-2 managed 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
PoE (PSE, Power Sourcing Equipment)	N/A	Layer-2 managed 8x M12 D-coded 10/100Mbps PoE output max. 890W supports PoE & PoE+	N/A
USB	4 x USB 3.0	4 x USB 3.0	4 x USB 3.0
DIO	N/A	N/A	N/A
Expansion Interface	3 x Full-size PCI Express Mini Card slot 2 x SIM card slot 1 x Value-added module slot	3 x Full-size PCI Express Mini Card slot 2 x SIM card slot	3 x Full-size PCI Express Mini Card slot 2 x SIM card slot 2 x Value-added module slot
Storage	4 x Swappable 2.5" SATA drive 1 x mSATA (occupied 1 PCIe Mini card)	2 x Swappable 2.5" SATA drive 1 x mSATA (occupied 1 PCIe Mini card)	2 x Swappable 2.5" SATA drive 1 x mSATA (occupied 1 PCIe Mini card)
RAID function	Marvell HW RAID 0/1/10	Intel® RAID 0/1	Intel® RAID 0/1
Watchdog Timer	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.
Power Supply	Railway: 24 - 110 VDC (M12) Marine: 24 VDC (terminal block)	Railway: 24 - 110 VDC (M12)	Railway: 24 - 110 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), EN 50155 and EN 45545-2 certified	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



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® 3956U 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	1 x Mic-in, 1 x Line-out	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
SDI Input	5 x BNC (4 x Video-in & 1 x Audio-in)	N/A	N/A
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: 24/110VDC (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, IEC 60945 and DNV 2.4 certified	CE (Class A), LVD, FCC (Class A), EN 50155, EN 45545-2, E-Mark, IEC 60945 and DNV 2.4 certified
EOS Support	Windows® 10, WE8S, WES 7, VxWorks7, Ubuntu 16.10	Windows® 10 64-bit, WE8S, WES 7, VxWorks7, Ubuntu 15.10	WES 7, Windows 10 64-bit, Ubuntu 16.10 and above
Software Support	AMS.AXView	AMS.AXView	AMS.AXView



NEW



NEW



Features\Models	tBOX510-518-FL	UST100-504-FL	UST200-83H-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	7th/6th gen Intel® Core™ 35W (socket type)	Intel Atom® x5-E3930 2C @ 1.3 GHz
System Memory	1 x DDR4-2133 SO-DIMM, up to 16GB	1 x DDR4-1866/2133/2400 SO-DIMM, up to 16GB	1 x DDR3L-1866 SO-DIMM, up to 8GB
Chipset	SoC integrated	Intel® H110	SoC integrated
TPM	TPM 2.0	TPM 2.0	TPM 2.0
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	1 x CANBus 2.0 A/B
Display	1 x VGA, 1 x HDMI	1 x HDMI 1.4b	1x VGA
Audio	1 x Mic-in, 1 x Line-out	1 x Mic-in, 1 x Line-out	N/A
Ethernet	2 x RJ-45 10/100/1000 Mbps Ethernet (Intel® i210-IT)	2 x RJ-45 10/100/1000 Mbps Ethernet (Intel® i211-IT)	2 x RJ-45 10/100/1000 Mbps Ethernet (Intel® i211-AT)
USB	2x USB 2.0 (in 1x M12 A-coded) 4 x USB 3.0	4 x USB 3.0	2 x USB 2.0
DIO	1 x Isolated DIO 4-in/4-out	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 External SIM card slot 1 x Plug-In Module 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 1 x Half-size PCI Express Mini Card slot 1 x SIM card slot
Storage	1 x Swappable 2.5" SATA drive 1 x CFast™	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)	1 x mSATA (occupied 1 PCIe Mini card)
RAID function	N/A	N/A	N/A
Watchdog Timer	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.
Power Supply	24 - 110 VDC (M12) (S2 Optional)	Vehicle: 12/24 VDC typical (supports Smart Ignition, terminal block) AT Mode: 9 - 36 VDC	Vehicle: 12/24 VDC typical (support Smart Ignition, terminal block) AT Mode: 9 - 36 VDC
Operating Temperature	-40°C to +70°C (-40°F to +158°F) with W.T. peripheral	-40°C to +60°C (-40°F to +140°F) with W.T. peripheral	-40°C to +70°C (-40°F to +158°F) with W.T. peripheral
Mounting	Wall mount DIN-rail	Wall mount	Wall mount DIN-rail
Dimensions (W x D x H) without Mounting	119.8 x 124.8 x 155 mm (4.72" x 4.91" x 6.1")	185 x 150 x 65.15 mm (7.09" x 5.91" x 2.56")	31 x 100 x 125 mm (1.22" x 3.93" x 4.92")
Weight (net/gross)	2.50 kg (5.51 lb) / 2.65 kg (5.84 lb)	1.71 kg (3.77 lb)/21.9 kg (4.83 lb)	0.3 kg (0.67 lb)/0.45 kg (0.99 lb)
Certifications	CE (Class A), LVD, FCC (Class A), EN 50155, EN45545-2 certified; EN 50124 compliant	CE, FCC certified; and ISO 7637-2 compliant	CE (Class A), FCC (Class A) certified; ISO 7637-2 compliant
EOS Support	Windows® 10 64-bit, Ubuntu 18.04	Windows® 10 64-bit, Windows® 7 64-bit, Ubuntu 18.04	Windows® 10 64-bit, Ubuntu 18.04
Software Support	AMS.AXView	AMS.AXView	AMS.AXView

Transportation Embedded Systems



Features\Models	UST210-83K-FL	UST500-517-FL	UST510-52B-FL
CPU Level	Intel Atom® x5-E3940 2C @ 1.6 GHz	7th/8th gen Intel® Core™ i35 - 65W (socket type)	9th/8th gen Intel® Core™ i35W (socket type)
System Memory	1 x DDR3L-1866 SO-DIMM, up to 8GB	2 x DDR4-1866/2133/2400 SO-DIMM, up to 32GB	2 x DDR4-2400 SO-DIMM, up to 32GB
Chipset	SoC integrated	Intel® Q170	Intel® C246
TPM	TPM 2.0	TPM 2.0 (optional)	TPM 2.0
Serial	2 x Serial console or RS-232/422/485	2 x Serial console or RS-232/422/485	1 x RS-232/422/485 with 4 wire
CANBus	1 x CANBus 2.0 A/B	N/A	1 x CANBus 2.0 A/B
Display	1 x HDMI	1 x VGA, 1 x DVI-D, 1 x HDMI	1 x VGA, 2 x HDMI
Audio	N/A	1 x Mic-in, 1 x Line-out	1 x Mic-in, 1 x Line-out
Ethernet	4 x RJ-45 10/100/1000 Mbps Ethernet (Intel® i211-AT)	16 x RJ-45 GbE LAN (4 SATA or 2 SATA) 8 x RJ-45, 8 x M12 A-coded LAN (4 SATA) 8 x M12 A-coded GbE LAN (4 SATA) (Intel® i211-AT)	8 x RJ-45 GbE LAN 8 x M12 A-coded GbE LAN 8 x RJ-45 + 8 x M 12 A-coded GbE LAN (Intel® i211-AT)
PoE (PSE, Power Sourcing Equipment)	Up to 4 x configurable RJ-45 PoE output max. 30W supports PoE & PoE+	Up to 16 x RJ-45/8 x RJ-45 & 8 x M12 PoE output max. 200W supports PoE & PoE+	Up to 8 x RJ-45/8 x RJ-45 & 8 x M12/8 x M12 PoE, output max. 90W supports PoE & PoE+
USB	2 x USB 3.0	4 x USB 3.0	4 x USB 3.0
DIO	1 x 8-bit programmable DIO	1 x Isolated DIO 6-in/2-out	1 x Isolated DIO 6-in/2-out
Expansion Interface	1 x Full-size PCI Express Mini Card slot 1 x Half-size PCI Express Mini Card slot 1 x SIM 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 Full-size PCI Express Mini Card slot 1 x Half-size PCI Express Mini Card slot 1 x M.2 Key B, 1 x M.2 Key A & E 2 x External accessible SIM card slot
Storage	1 x Internal 2.5" SATA drive 1 x mSATA (occupied 1 PCIe Mini card)	2 x Internal 2.5" SATA drive (with 2 SATA) 2 x Swappable 2.5" SATA drive (with 2 SATA) 4 x Swappable 2.5" SATA drive (with 4 SATA) 1 x mSATA (occupied 1 PCIe Mini card)	2 x Swappable 2.5" SATA drive
RAID function	N/A	Intel® RAID 0/1/5/10	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	Vehicle: 12/24 VDC typical (support Smart Ignition, terminal block) AT Mode: 9 - 36 VDC	Vehicle: 24 VDC (ACC ignition, terminal block) AT Mode: 9 - 36 VDC	Vehicle: 12/24 VDC typical (support Smart Ignition, terminal block) AT Mode: 9 - 36 VDC
Operating Temperature	-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	-40°C to +70°C (-40°F to +158°F) with W.T. peripheral
Mounting	Wall mount, DIN-rail	Wall mount	Wall mount
Dimensions (W x D x H) without Mounting	48 x 110 x 155 mm (1.89" x 4.33" x 6.1")	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")	240 x 210.5 x 84.2 mm (9.45" x 8.29" x 3.31")
Weight (net/gross)	0.51 kg (1.12 lb)/0.79 kg (1.74 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)/5.74 kg (12.65 lb) 4 swappable SATA SKU: 4.92 kg (10.85 lb)/5.74 kg (12.65 lb)	TBA
Certifications	CE (Class A), FCC (Class A) certified; ISO 7637-2 compliant	CE (Class A), FCC (Class A), E-Mark (E13), EN 50155 certified	CE (Class A), FCC (Class A), E-Mark certified
EOS Support	Windows® 10 64-bit, Ubuntu 18.04	Windows® 10 64-bit, Windows® 7 64/32-bit (for 6th gen Intel CPU)	Windows® 10 64-bit, Ubuntu 18.04
Software Support	AMS.AXView	AMS.AXView	AMS.AXView



Features\Models		Agent336
CPU Level		NXP i.MX 8M Arm® Cortex®-A53, QUAD/QuadLite 1.3GHz
System Memory		1 x LPDDR4 3GB onboard
Chipset		SoC integrated
TPM		N/A
Serial		2 x RS-232/422/485 (selected by software)
CANBus		1 x Isolated CANBus B
Display		1 x HDMI
Audio		N/A
Ethernet		1 x 10/100/1000 Mbps (isolation 1.5 kV)
USB		2 x USB 3.0 Type A
DIO		1 x Isolated DIO 2-in/2-out (TB 2 x 4P)
Expansion Interface		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 eMMC 8GB onboard 1 x Micro SD card socket
RAID function		N/A
Watchdog Timer		256 levels, 0 to 128 sec.
Power Supply		9 to 36 VDC (ACC ignition)
Operating Temperature		-40°C to +70°C (-40°F to +158°F)
Mounting		Wall mount
Dimensions (W x D x H) without Mounting		163.8 x 118 x 44 mm (6.4" x 4.6" x 1.7")
Weight (net/gross)		1.0 kg (2.2 lb)/1.20 kg (1.10 lb)
Certifications		CE Class A, E-Mark
EOS Support		Yocto Linux, Kernel L4.9.51, Android O8.1.0 (Linux Kernel 4.9.78)
Software Support		N/A

Certification Guide

V:Certified △: Compliant



Features\Models	tBOX300-510-FL	tBOX400-510-FL	tBOX500-510-FL	tBOX510-518-FL	tBOX324-894-FL
IP Rating	△ (IP30)				
CE	V	V	V	V	V
LVD	V	V	V	V	V
FCC	V	V	V	V	V
EN 50155	V	V	V	V	V
EN 50121-3-2	V	V	V	V	V
Railway IEC 62236-3-2	V	V	V	V	V
EN 61373	V	V	V	V	V
EN 45545-2**	△	V	V	V	V
DNV 2.4					V
IEC 60945	△		V		V
Marine IEC 61000-4	△		V		V
CISPR 16-1	△		V		V
IEC 60068-2	△		V		V
Vehicle E-Mark (ECE-R10)			△ (ISO 7637-2)		V (E24)

V: Certified △: Compliant



Features\Models	tBOX100-838-FL	tBOX810-838-FL	UST100-504-FL	UST200-83H-FL	UST210-83K-FL	UST500-517-FL
IP Rating	△ (IP30)	V (IP40)	△ (IP30)	△ (IP20)	△ (IP20)	△ (up to IP40)***
CE	△	V	V	V	V	V
LVD						
FCC	△	V	V	V	V	V
EN 50155	△	V				V
EN 50121-3-2	△	V				V
Railway IEC 62236-3-2	△	V				V
EN 61373	△	V				V
EN 45545-2**	△	V				V
DNV 2.4			V			
IEC 60945	△	V				
Marine IEC 61000-4	△	V				
CISPR 16-1	△	V				
IEC 60068-2	△	V				
Vehicle E-Mark (ECE-R10)	△ (ISO 7637-2)	V (E13)	△ (ISO 7637-2)	△ (ISO 7637-2)	△ (ISO 7637-2)	V (E13)

*Please refer to system datasheets to get more certification standards information.

**The test report of EN 45545-2 is available exclusively.

***Please check datasheet for more detail.

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® E3815 1.46 GHz Intel Atom® E3827 1.75 GHz
System Memory	1 x DDR3L-1866 SODIMM, up to 8GB	1 x DDR3L-1866 SO-DIMM, up to 8GB	1 x DDR3L 1333/1600 SO-DIMM, up to 4GB (E3815) or up to 8GB (E3827)
Chipset	SoC integrated	SoC integrated	SoC integrated
TPM	TPM 2.0	TPM 2.0	TPM 1.2 (optional)
Serial	2 x DB9 RS-232/422/485	1 x DB9 RS-232/422/485 (ICO120-COM)	4 x 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® i211-AT)	1 x 10/100/1000 Mbps Ethernet (Intel® i211-AT)	2 x 10/100/1000 Mbps Ethernet (Intel® i211-AT)
PoE	N/A	N/A	N/A
Expansion Interface	2 x Full-size PCI Express Mini Card slot	1 x Half-size PCI Express Mini Card slot 1 x Full-size PCI Express Mini Card slot	1 x Full-size PCI Express Mini Card slot
DIO	1 x 8-bit programmable DIO	1 x 8-bit programmable DIO	1 x 8-bit programmable DIO
USB	2 x USB 2.0	2 x USB 2.0	2 x USB 2.0
Storage	1 x Half-size mSATA 1 x eMMC flash onboard (optional)	1 x mSATA 1 x eMMC flash onboard (optional)	1 x CompactFlash™ (or mSATA) 1 x 2.5" SATA SSD/HDD
Watchdog Timer	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.
Power Input	12 to 24 VDC (terminal block)	12 to 24 VDC (terminal block)	12 to 24 VDC (terminal block)
Operating Temperature	-20°C to +70°C (-4°F to +158°F) -40°C to +70°C (-40°F to +158°F) (optional)	-20°C to +70°C (-4°F to +158°F) -40°C to +70°C (-40°F to +158°F) (ICO120-WT)	-20°C to +70°C (-4°F to +158°F)
Dimensions (W x D x H)	31 x 100 x 125 mm (1.22" x 3.93" x 4.92")	31 x 100 x 125 mm (1.22" x 3.93" x 4.92")	48 x 110 x 155 mm (1.88" x 4.33" x 6.1")
Weight (net/gross)	0.3 kg (0.67 lb)/0.46 kg (1 lb)	0.3 kg (0.67 lb)/0.46 kg (1 lb)	1.0 kg (2.2 lb)/1.50 kg (3.3 lb)
Certifications	CE, FCC	CE, FCC	CE, FCC, UL
Mounting	DIN-rail/wall mount (optional)	DIN-rail/wall mount (optional)	DIN-rail/wall mount (optional)
EOS Support	Windows® 10 IoT, Linux	Windows® 10 IoT, Linux	Windows® 10 IoT, Linux
Software Support	AMS.AXView	AMS.AXView	AMS.AXView

x86-based DIN-Rail Embedded Systems



NEW



Features\Models	ICO300-83B	ICO300-83M (ATEX/C1D2)	ICO310
CPU Level	Intel® Celeron® N3350 1.1 GHz Intel® Pentium® N4200 1.1 GHz	Intel Atom® x5-E3930	Intel® Celeron® N3060 1.6 GHz Intel® Celeron® N3160 1.6 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 SODIMM, up to 8GB
Chipset	SoC integrated	SoC integrated	SoC integrated
TPM	TPM 2.0 (optional)	TPM 2.0	N/A
Serial	4 x DB9 Isolated RS-232/422/485 (ICO300-83B-4COM) or RS-232/422/485 (ICO300-83B-4COM) 2 x DB9 Isolated RS-232/422/485 (ICO300-83B-2COM) or RS-232/422/485 (ICO300-83B-2COM)	2 x Isolated RS-232/422/485 (Phoenix Type) 4 x Isolated RS-232/422/485 (4-wire, Phoenix Type)	2 x RS-232/422/485
CANbus	N/A	N/A	N/A
Display	1 x HDMI	1 x HDMI	1 x VGA
Ethernet	2 x 10/100/1000 Mbps Ethernet (Intel® i211-AT)	3 x 10/100/1000 Mbps Ethernet (Intel® i211-AT)	2 x 10/100/1000 Mbps Ethernet (Intel® i211-AT)
PoE	N/A	N/A	1x PD (also can support 10/100/1000 Mbps Ethernet)
Expansion Interface	2 x Full-size PCI Express Mini Card slot	1 x M.2 Key B 3052 1 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
DIO	1 x 8-bit programmable DIO	1 x Isolated 8-in/8-out DIO	1 x 8-bit programmable DIO
USB	4 x USB 3.0	2 x USB 3.0	2 x USB 3.0 2 x USB 2.0
Storage	1 x mSATA 1 x 2.5" SATA SSD/HDD	1 x mSATA 1 x Internal 2.5" SATA drive 1 x eMMC on board (optional)	1 x mSATA 1 x 2.5" SATA SSD/HDD
Watchdog Timer	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.
Power Input	12 to 24 VDC (terminal block)	9 to 36 VDC	12 to 24 VDC (terminal block)
Operating Temperature	-40°C to +70°C (-40°F to +158°F)	-40°C to +75°C (-40°F to +167°F)	-20°C to +60°C (-4°F to +140°F)
Dimensions (W x D x H)	48 x 110 x 155 mm (1.88" x 4.33" x 6.1")	63 x 110 x 155 mm (2.48" x 4.33" x 6.1")	48 x 110 x 155 mm (1.88" x 4.33" x 6.1")
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)	1.0 kg (2.2 lb)/1.50 kg (3.3 lb)
Certifications	CE, FCC	CE, FCC, ATEX, C1D2	CE, FCC
Mounting	DIN-rail/wall mount (optional)	DIN-rail/wall mount	DIN-rail/wall mount (optional)
EOS Support	Windows® 10 IoT, Linux	Windows® 10 IoT, Linux	Windows® 10 IoT, Linux
Software Support	AMS.AXView	AMS.AXView	AMS.AXView



Features\Models	ICO320-83C	ICO500-518	rBOX510-6COM (ATEX/CID2)
CPU Level	Intel® Celeron® N3350 1.1 GHz	Intel® Core™ i7-7600U 2.8 GHz Intel® Core™ i5-7300U 2.6 GHz Intel® Core™ i3-7100U 2.4 GHz Intel® Celeron® N3965U 2.2 GHz	Intel Atom® E3827 1.75 GHz Intel Atom® E3845 1.91 GHz
System Memory	1 x DDR3L 1866 SO-DIMM, up to 8 GB	DDR4-2133 SO-DIMM, up to 16GB	DDR3L-1333 4GB onboard
Chipset	SoC integrated	SoC integrated	SoC integrated
TPM	TPM 2.0 (optional)	TPM 2.0 (optional)	N/A
Serial	1 x RS-232/422/485	1 x DB9 RS-232/422/485	2 x RS-232/422/485 4 x isolated RS-232/422/485
CANbus	1 x CANBus 2.0 A/B (ICO320-COM-CAN)	N/A	N/A
Display	1 x VGA	1 x VGA 1 x HDMI	1 x VGA
Ethernet	4 x 10/100/1000 Mbps Ethernet (Intel® I211-AT)	2 x 10/100/1000 Mbps Ethernet (Intel® I210-IT)	2 x 10/100/1000 Mbps Ethernet (Intel® I210-IT)
PoE	4 x RJ-45 PoE	N/A	N/A
Expansion Interface	1 x Half-size PCI Express Mini Card slot 1 x Full-size PCI Express Mini Card slot	2 x Full-size PCI Express Mini Card slot 1 x External SIM card slot	1 x Full-size PCI Express Mini Card slot 2x Full-size PCI Express Mini Card slot with SIM socket
DIO	1 x 8-bit programmable DIO (optional)	1 x Isolated 4-in/4-out DIO (terminal block)	1 x Isolated 8-in/8-out DIO (terminal block)
USB	2 x USB 3.0	4 x USB 3.0	1 x USB 3.0 1 x USB 2.0
Storage	1 x mSATA 1 x 2.5" SATA SSD/HDD	1 x External CFast™ 1 x 2.5" SATA SSD/HDD	1 x mSATA 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.	255 levels, 1 to 255 sec.
Power Input	12 to 24 VDC (terminal block)	12 to 48 VDC (terminal block)	12 to 48 VDC (terminal block)
Operating Temperature	-40°C to +70°C (-40°F to +158°F)	-40°C to +70°C (-40°F to +158°F) with 2 PIM (PIM700 excluded) -40°C to +60°C (-40°F to +140°F) with 1 PIM700, 1 the other PIM -40°C to +50°C (-40°F to +122°F) with 2 PIM700	-40°C to +70°C (-40°F to +158°F)
Dimensions (W x D x H)	48 x 110 x 155 mm (1.88" x 4.33" x 6.1") (ICO320-4LAN) 77 x 110 x 155 mm (3.03" x 4.33" x 6.1") (ICO320-4PoE)	145 x 125 x 155 mm (5.70" x 4.92" x 6.10")	100.6 x 110 x 135 mm (3.96" x 4.33" x 5.31")
Weight (net/gross)	1.2 kg (2.2 lb)/1.70 kg (3.3 lb) (ICO320-4PoE) 1.0 kg (2.2 lb)/1.50 kg (3.3 lb) (ICO320-4LAN)	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	Heavy Industrial CE, FCC Part 18, UL60950-1 ATEX & C1D2 Anti-Explosive Certification
Mounting	DIN-rail/wall mount (optional)	DIN-rail/wall mount (optional)	DIN-rail/wall mount (optional)
EOS Support	Windows® 10 IoT, Linux	Windows® 10 IoT, Linux	Windows® 7 Embedded, Windows® 8 Embedded IoT, Linux support package
Software Support	AMS.AXView	AMS.AXView	AMS.AXView

ARM-based DIN-Rail Embedded Systems



Features\Models	Agnet200-FL-DC	IRU131	IRU151
CPU Level	NXP i.MX 6UltraLite, ARM® Cortex®-A7, 528 MHz	NXP i.MX 6UltraLite, ARM® Cortex®-A7, 528 MHz	NXP i.MX 6UltraLite, ARM® Cortex®-A7, 528 MHz
System Memory	1 x DDR3L-1600 256MB onboard	1 x DDR3-1600 512MB onboard	1 x DDR3-1600 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	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 onboard 1 x Micro SD card slot	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	CE, FCC	CE, FCC	CE, FCC
OS Support	Yocto Sumo	Yocto (Linux Kernel : 3.14.52)	Yocto (Linux Kernel : 3.14.52)



Features\Models	IRU152	IFB112	IFB122
CPU Level	NXP i.MX 6UltraLite, ARM® Cortex®-A7, 528 MHz	NXP i.MX 6UltraLite, ARM® Cortex®-A7, 528 MHz	NXP i.MX 6UltraLite, ARM® Cortex®-A7, 528 MHz
System Memory	1 x DDR3-1600 512MB onboard	1 x DDR3-1600 256MB onboard	1 x DDR3-1600 256MB onboard
Serial	1 x RS-232/422/485 (selected by software)	1 x RS-232/422/485 (selected by software)	2 x RS-232/422/485 (selected by software)
CANBus	N/A	1 x CAN 2.0 B	N/A
Console Port	Yes For user setting with debug	Yes For user setting with debug	Yes For user setting with debug
Ethernet	1 x 10/100 Mbps (isolation 1.5 kV)	2 x 10/100 Mbps (isolation 1.5 kV)	2 x 10/100 Mbps (isolation 1.5 kV)
Wireless	2 x PCI Express Mini Card slot (USB signal only) 1 x SIM card socket	1 x PCI Express Mini Card slot (USB signal only) 1 x SIM card socket	1 x PCI Express Mini Card slot (USB signal only) 1 x SIM card socket
DIO	1 x DIO (2-in/2-out)	1 x DIO (2-in/1-out)	1 x DIO (2-in/1-out)
USB	1 x USB 2.0	1 x USB 2.0	1 x USB 2.0
Expansion Interface/ Analog Input	4 AI channels (16-bit, 250 kS/s)	N/A	N/A
Storage	1 x eMMC 8GB onboard	1 x eMMC 4GB onboard	1 x eMMC 4GB onboard
Watchdog Timer	0.5 to 128 sec. (time resolution of 0.5 sec.)	0.5 to 128 sec. (time resolution of 0.5 sec.)	0.5 to 128 sec. (time resolution of 0.5 sec.)
Power Input	9 to 48 VDC	9 to 48 VDC	9 to 48 VDC
Operating Temperature	-40°C to +70°C (-40°F to +158°F)	-40°C to +70°C (-40°F to +158°F)	-40°C to +70°C (-40°F to +158°F)
Dimensions (W x D x H)	55 x 82 x 108 mm (2.16" x 3.23" x 4.25")	31 x 100 x 125 mm (1.22" x 3.94" x 4.92")	31 x 100 x 125 mm (1.22" x 3.94" x 4.92")
Weight (net/gross)	0.32 kg (0.71 lb)/0.53 kg (1.17 lb)	0.3 kg (0.66 lb)/0.44 kg (0.97 lb)	0.3 kg (0.66 lb)/0.44 kg (0.97 lb)
Certifications	CE, FCC	CE, FCC	CE, FCC
OS Support	Yocto (Linux Kernel : 3.14.52)	Yocto (Linux Kernel : 3.14.52)	Yocto (Linux Kernel : 3.14.52)

ARM-based DIN-Rail Embedded Systems



Features\Models	IFB125	rBOX630
CPU Level	NXP i.MX 6UltraLite, ARM® Cortex®-A7, 528 MHz	NXP i.MX 6, ARM® Cortex®-A9, 800 MHz
System Memory	1 x DDR3-1600 256MB onboard	1 x DDR3-1600 1GB onboard
Serial	1 x RS-232/422/485	4 x RS-232/422/485
CANBus	N/A	2 x CAN 2.0 B
Console Port	Yes For user setting with debug	Yes For user setting with debug
Ethernet	2 x 10/100 Mbps (isolation 1.5 kV)	1 x 10/100/1000 Mbps Ethernet 1 x 10/100 Mbps Ethernet (isolation 1.5 kV)
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) with outside 1 x SIM Socket 1 x PCI Express Mini Card slot (supports USB&PCIE interface) with inside 1 x SIM Socket
DIO	1 x DIO (2-in/1-out)	1 x DIO (8-in/ 8-out) (isolation 2 kV)
USB	1 x USB 2.0	1 x USB 2.0 OTG
Expansion Interface	1 x I2C (with 3.3V @ 0.5A powered) 1 x SPI (with 3.3V @ 0.5A powered) (DB9 connector)	1 x HDMI
Storage	1 x eMMC 8GB flash onboard	1 x eMMC 8GB flash onboard 1 x SDHC Card
Watchdog Timer	0.5 to 128 sec. (time resolution of 0.5 sec.)	1 to 255 sec. (time resolution of 1 sec.)
Power Input	9 to 48 VDC	12 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)
Dimensions (W x D x H)	31 x 100 x 125 mm (1.22" x 3.94" x 4.92")	55 x 155 x 110 mm (2.16" x 6.10" x 4.33")
Weight (net/gross)	0.3 kg (0.66 lb)/0.44 kg (0.97 lb)	0.9 kg (2.0 lb)/1.3 kg (2.87 lb)
Certifications	CE, FCC	CE, FCC
OS Support	Yocto (Linux Kernel: 3.14.52)	Yocto (Linux Kernel: 3.0.35)

Embedded MicroBoxes

Model	Accessory Specifications			Dimensions	Mini ITX
	Drive Bay	Expansion Slot	Power Supply		
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" or 1 x 2.5"	2 x PCIe x8 or 1 x PCIe x16	ATX 250W Input: AC 115 to 230V Output: +3.3V @ 10A, +5V @ 10A, +12V @ 8.5A, -12V @ 0.4A, +5VSB @ 1A, +5VSB @ 2.5A	335 x 250 x 93.5 mm	MAN0500 MAN0520

Industrial Systems

NEW



NEW



NEW



Features\Models	IPC960-525-FL	IPC962-525	IPC964-525
CPU Level	9th/8th gen Intel® Core™, up to 65W	9th/8th gen Intel® Core™, up to 65W	9th/8th gen Intel® Core™, up to 65W
System Memory	2 x DDR4-2666/2400 MT/s un-buffered SO-DIMM, up to 64GB	2 x DDR4-2133/2400 un-buffered SO-DIMM, up to 64GB	2 x DDR4-2133 un-buffered SO-DIMM, up to 64GB
Chipset	Intel® H310/Intel® Q370	Intel® H310/Intel® Q370	Intel® Q370
Vision I/O	N/A	N/A	N/A
Expansion I/O Module	4 x RS-232/422/485 module (default RS-232) or 2 x RS-232/422/485 with isolated 1.5kVDC module and 4-in/4-out isolated DIO or 4 x RS-232/422/485 isolated 2kVDC module (default RS-232) or 1 x 10/100/1000 Mbps Ethernet, 2 x RS-232/422/485 and 2 x USB module	4 x RS-232/422/485 module (default RS-232) or 2 x RS-232/422/485 with isolated 1.5kVDC module and 4-in/4-out isolated DIO or 4 x RS-232/422/485 isolated 2kVDC module (default RS-232) or 1 x 10/100/1000 Mbps Ethernet, 2 x RS-232/422/485 and 2 x USB module	4 x RS-232/422/485 module (default RS-232) or 2 x RS-232/422/485 with isolated 1.5kVDC module and 4-in/4-out isolated DIO or 4 x RS-232/422/485 isolated 2kVDC module (default RS-232) or 1 x 10/100/1000 Mbps Ethernet, 2 x RS-232/422/485 and 2 x USB module
Display	1 x HDMI 1 x VGA	1 x HDMI 1 x VGA	1 x HDMI 1 x VGA
Audio	Yes	Yes	Yes
PS/2	N/A	N/A	N/A
Ethernet	2 x 10/100/1000 Mbps Ethernet	2 x 10/100/1000 Mbps Ethernet	2 x 10/100/1000 Mbps Ethernet
Serial	1 x RS-232/422/485 (default RS-232, COM1)	1 x RS-232/422/485 (default RS-232, COM1)	1 x RS-232/422/485 (default RS-232, COM1)
USB	4 x USB 3.1 2 x USB 2.0 1 x USB 2.0 (internal, 180D type A for license key)	4 x USB 3.1 2 x USB 2.0 1 x USB 2.0 (internal, 180D type A for license key)	4 x USB 3.1 2 x USB 2.0 1 x USB 2.0 (internal, 180D type A for license key)
Expansion Interface	1 x PCIe x16 + 1 x PCIe x4 or 1 x PCIe x16 + 1 x PCI or 2 x PCI 1 x PCI Express Mini Card slot or 1 x M.2 Key B socket (Q370) 1 x SIM slot	1 x PCIe x16 + 1 x PCIe x4 or 1 x PCIe x16 + 1 x PCI or 2 x PCI 1 x PCI Express Mini Card slot or 1 x M.2 Key B socket (Q370) 1 x SIM slot	1 x PCIe x16 + 3 x PCIe x4 or 1 x PCIe x16 + 1 x PCIe x4 + 2 x PCI 1 x PCI Express Mini Card slot or 1 x M.2 Key B socket 1 x SIM slot
Storage	2 x 2.5" swappable HDD 1 x M.2 Key M slot (Q370)	2 x 2.5" swappable HDD 1 x M.2 Key M slot (Q370)	2 x 2.5" swappable HDD 1 x M.2 Key M slot
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)	-10°C to +60°C (+14°F to +140°F)	-10°C to +60°C (+14°F to +140°F)
Wall Mount	Yes	Yes	Yes
Dimensions (W x D x H)	83.5 x 192 x 230 mm (3.28" 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)	3.82 kg (8.43 lb)/4.78 kg (10.55 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	Win 10 64-bit	Win 10 64-bit	Win 10 64-bit

Machine Vision Systems



NEW

Features\Models	MVS100-323	MVS900-511-FL	MVS900-512-FL
CPU Level	Intel Atom® x5-E3940 (1.6GHz)	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	1 x DDR3L-1866 SO-DIMM, up to 8GB	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	SoC integrated	Intel® H110	Intel® Q170
Vision I/O	2 x Trigger input 2 x Trigger output 2 x LED lighting control 4 x Isolated 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	1 x HDMI 1 x VGA
Audio	N/A	YES	YES
PoE	2 x IEEE802.3af GbE LAN port	4 x IEEE802.3at GbE LAN port	4 x IEEE802.3at GbE LAN port
I/O	Ethernet 1 x 10/100/1000 Mbps Ethernet	2 x 10/100/1000 Mbps Ethernet	2 x 10/100/1000 Mbps Ethernet
	USB 2 x USB 3.0	4 x USB 3.0	4 x USB 3.0
	Others 1 x RS-232/422/485	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	N/A
Expansion Interface	N/A	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	1 x Full-size PCI Express Mini Card slot (mSATA signal)	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	TPM 2.0
Watchdog Timer	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.
Power Input	24 VDC±10%	24 VDC (uMin=19V/uMax=30V)	24 VDC (uMin=19V/uMax=30V)
Operating Temperature	-10°C to +55°C (+14°F to +131°F)	-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 CPU (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 CPU (65W)
Dimensions (W x H x D)	53.2 x 155 x 110.3 mm (2.09" x 6.1" x 4.34")	135 x 208 x 230 mm (5.27" x 8.19" x 9.01")	135 x 208 x 230 mm (5.27" x 8.19" x 9.01")
Weight (net/gross)	0.6kg (1.32lb)/0.9kg (1.98lb)	5 kg (11.02lb)/5.9 kg (13 lb)	5 kg (11.02lb)/5.9 kg (13 lb)
Mounting	Wall mount/DIN-rail	Wall mount/DIN-rail	Wall mount/DIN-rail
Certifications	CE, FCC	CE, FCC	CE, FCC
EOS Support	Win 10 64-bit	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	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	N/A
MB Support	N/A	Yes, 12" x 9.6" (ATX), 9.6" x 9.6" (mATX)	Yes, 12" x 9.6" (ATX)	Yes, 12" x 9.6" (ATX)
Drive Capacity	1 2 (1 internal)	1	2	N/A 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 16.9" 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, ATX6022/14GP7	FAB100, FAB101, FAB112, FAB113, FAB114, FAB118, FAB119, ATX6022/14, ATX6022/14G, ATX6022/14GP7
MB Support	Yes, 12" x 9.6" (ATX)	Yes, 12" x 9.6" (ATX)	Yes, 12" x 9.6" (ATX)	Yes, 12" x 9.6" (ATX)
Drive Capacity	1 3 (2 internal)	3	2 (1 internal)	3 1
Cooling System	1 x 8 cm	1 x 12 cm	1 x 12 cm	1 x 12 cm
Fault Detection	N/A	N/A	N/A	N/A
Power Supply	PS/2 type	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	OPS500-501-H	OPS300-310
CPU Level	8th gen Intel® Core™ i7/5/3 and Celeron®, 35W TDP	9th/8th gen Intel® Core™ i7/i5/3 and Celeron®, 35W TDP	7th/6th gen Intel® Core™ i7/i5/3 and Celeron®	Intel® Celeron® N3350
Chipset	Intel® Q370	Intel® H310	Intel® H110	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	1 x 260-pin DDR4-2133 SO-DIMM, up to 16GB	1 x 204-pin DDR3L-1600 SODIMM, up to 8GB
Pluggable Engine Box	Yes (OPS+ & OPS compliance)	Yes (OPS compliance)	Yes (OPS compliance)	Yes (OPS compliance)
Intel® AMT	AMT 11.0	N/A	N/A	N/A
TPM	TPM 2.0	TPM 2.0	N/A	TPM 2.0
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)	2 x USB 2.0 1 x USB 3.0 1 x 10/100/1000 Mbps Ethernet (RTL8111E) 1 x VGA 1 x Audio (Mic-in & Line-out) 1 x Power on/off button 1 x Reset button
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)	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	N/A
Storage	1 x M.2 Key M 2280 SATA (NVMe optional)	1 x M.2 Key M 2280 SATA (NVMe optional)	1 x 2.5" SATA HDD tray 1 x mSATA	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) 1 x M.2 Key E 2230 for Wi-Fi 1 x SIM slot	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	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")	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)	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)	0°C to +45°C (+32°F to +113°F)
Certifications	CE, FCC Class A	CE, FCC Class A	CE	CE, FCC Class A

Digital Signage Players



Features\Models	DSP600-211	DSP501-527	DSP500	DSP300-318
CPU Level	AMD Ryzen™ Embedded V1807B/V1605B/V1202B	8th gen Intel® Core™ i5/i3 & Celeron®	9th/8th gen Intel® Core™ i7/i5/i3 & Pentium®	Intel® Pentium® N4200 & Celeron® N3350
Chipset	SoC integrated	SoC integrated	Intel® Q370	SoC integrated
System Memory	2 x 260-pin DDR4-2400 SO-DIMM, up to 32GB	2 x 260-pin DDR4-2400 SO-DIMM, up to 32GB	2 x 260-pin DDR4-2666 SO-DIMM, up to 32GB	2 x DDR3L-1600 SO-DIMM, up to 8GB
Pluggable Engine Box	N/A	N/A	N/A	N/A
Intel® AMT	N/A	AMT 11	AMT 11	N/A
TPM	TPM 2.0	TPM 2.0	TPM 2.0	N/A
I/O	2 x USB 3.0 2 x USB 2.0 2 x GbE LAN 1 x Device management 4 x HDMI 2.0 2 x RS-232 DB9 1 x Line-out 1 x SIM card 1 x Power switch 1 x Reset switch 1 x Remote switch 1 x VDC power input connector 4 x Antenna opening	4 x USB 3.0 1 x USB 2.0 1 x GbE LAN 1 x Device management 1 x HDMI 2.0 1 x DisplayPort++ 1 x RS-232 DB9 1 x Line-out 1 x Mic-in 1 x Power switch 1 x Reset switch 1 x Remote switch 1 x Screw type VDC power input connector 4 x Antenna opening	1 x GbE LAN 4 x USB 3.1 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 4 x Antenna opening	3 x USB 3.0 1 x USB 2.0 2 x GbE LAN 1 x Device management 1 x HDMI 1.4 1 x RS-232 DB9 1 x Line-out 1 x Mic-in 1 x Power switch 1 x Reset switch 1 x Remote switch 1 x Screw type VDC power input connector 4 x Antenna opening
	1 x M.2 Key M 2280 (SATA) 1 x M.2 Key M 2280 (NVMe)	1 x M.2 Key M 2280 (SATA & NVMe)	1 x M.2 Key M 2280 (SATA & NVMe)	1 x M.2 Key M 2280 (SATA)
	1 x M.2 Key E 2230 for Wi-Fi/BT 1 x M.2 Key B 3042 for 4G/LTE 1 x SIM card slot	1 x M.2 Key E 2230 for Wi-Fi/BT 1 x M.2 Key B 3042 for 4G/LTE	1 x M.2 Key E 2230 for Wi-Fi/BT 1 x M.2 Key B 3042 for 4G/LTE	1 x M.2 Key E 2230 for Wi-Fi/BT 1 x M.2 Key B 3042 for 4G/LTE
	+12V DC-in	+12V DC-in	+12V DC-in	+12V DC-in
	250 x 182.8 x 30 mm (9.84" x 7.19" x 1.18")	197.6 x 157.6 x 26 mm (7.79" x 6.22" x 1.02")	202 x 196 x 39 mm (7.95" x 7.71" x 1.53")	200 x 137.8 x 20 mm (7.87" x 5.42" x 0.78")
	1.9kg (4.18 lb)/2.9kg (6.39 lb)	1.3kg (2.86 lb)/2.3kg (5.07 lb)	1.8kg (3.96 lb)/2.8kg (6.17 lb)	0.90 kg (1.98 lb)/1.57 kg (3.45 lb)
	0°C to +45°C (+32°F to +113°F)	0°C to +50°C (+32°F to +122°F)	0°C to +45°C (+32°F to +113°F)	0°C to +50°C (+32°F to +122°F)
	CE, FCC Class A	CE, FCC Class A	CE, FCC Class A	CE, FCC class A

Intelligent Medical Systems



Features\Models	mBOX100	mBOX600	mHPC200
CPU Level	8th gen Intel® Core™ i7/i5/i3 (Whisky Lake-U)	Intel® Xeon® & 8th gen Intel® Core™ i7/i5/i3 (Coffee Lake)	Dual Intel® Xeon® Gold 6226R 2.9GHz, 22MB Cache 16 Cores, LGA3647 server grade
System Memory	2 x DDR4-2666 SO-DIMM, up to 64GB	2 x DDR4-2666 SO-DIMM, up to 64GB	384GB (12 x 32GB) DDR4-2933 ECC registered
Chipset	SoC integrated	Intel® CM246/QM370/HM370	Intel® C621, TDP 15W BMC: ASpeed AST2500A2-GP Embedded Graphics SoC: SiliconMotion SM768
BIOS	AMI	AMI	AMI
Display	1 x HDMI 1.4: 4096 x 2160 @30/24Hz 1 x DisplayPort 1.2: 4096 x 2304 @60Hz	1 x HDMI 1.4: 4096 x 2160 @30/24Hz 2 x DisplayPort 1.2: 4096 x 2304 @60Hz	1 x HDMI 1.4: 4096 x 2160 @30/24Hz
Audio	N/A	N/A	N/A
Others	TPM 2.0	TPM 2.0	N/A
Ethernet	2 x 10/100/1000 Mbps Ethernet (Isolation)	2 x 10/100/1000 Mbps Ethernet (Isolation)	1 x Network card supports dual 10G Base-T & dual SFP+
COM	2 x RS-232/422/485 (Isolation)	2 x RS-232/422/485 (Isolation)	N/A
USB	4 x USB 3.1 (Rear)	4 x USB 3.1 (Rear)	4 x USB 3.0
Expansion Interface	1x PCI Express Mini Card slot	1x PCI Express Mini Card slot 1x PCIe x16 Gen3	Two PCIe riser cards inside: 2 x PCIe x16 Gen 3.0 slots 1 x PCIe x16 slot, 1 x PCIe x8 slot, M.2 22110-M slot
Storage	1 x 2.5" SATA3.1 SSD 1 x M.2 Key M 2280 NVMe SSD	1 x 2.5" SATA3.1 SSD 1 x M.2 Key M 2280 NVMe SSD	1 x 256GB SATA SSD 1 x 6.4TB 2.5" PCIe NVMe U.2 SSD
Watchdog Timer	65536 levels, 0 to 65535 sec.	65536 levels, 0 to 65535 sec.	65536 levels, 0 to 65535 sec.
Power Input	12 to 24 VDC	12 to 24 VDC	2 x 1200W 1U AC/DC ATX power supply
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)
Mounting	Wall mount	Wall mount	Rack mount
Dimensions (W x D x H)	250 x 220 x 60 mm (9.8" x 8.66" x 2.36")	250 x 240 x 90 mm (9.8" x 9.44" x 3.54")	600 x 430 x 88 mm (20.5" x 17" x 3.5")
Weight (net/gross)	TBD	TBD	TBD
Certifications	CE, FCC IEC/EN 60601-1 Compliance	CE, FCC IEC/EN 60601-1 Compliance	CE, FCC
EOS Support	TBD	TBD	TBD

Fanless Touch Panel Computers



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



Features\Models	GOT115-319	GOT5103W-845	GOT5153W-845
CPU Level	Intel® Celeron® N3350, up to 2.4 GHz Intel® Pentium® N4200, up to 2.5 GHz	Intel® Celeron® N3060, up to 2.48 GHz Intel® Pentium® N3710, up to 2.56 GHz	Intel® Celeron® N3060, up to 2.48 GHz
Chipset	SoC integrated	SoC integrated	SoC integrated
System Memory	1 x 204-pin DDR3L SO-DIMM, up to 8GB	1 x 204-pin DDR3L-1600 SO-DIMM, up to 8GB	1 x 204-pin DDR3L-1600 SO-DIMM, up to 8GB
Display	15" XGA TFT LCD, 300 nits	10.1" WXGA TFT LCD, 350 nits	15.6" WXGA TFT LCD, 300 nits
I/O	1 x RS-232/422/485 1 x RS-232 2 x 10/100/1000 Mbps Ethernet 2 x USB 3.0 2 x USB 2.0 1 x Audio (Line-out) 1 x Screw type connector for power 1 x Power button (ATX) 1 x Remote power switch 1 x ATX/AT selectable switch	1 x RS-232/422/485 1 x RS-232 2 x 10/100/1000 Mbps Ethernet 2 x USB 2.0 2 x USB 3.0 1 x Audio (Line-out) 1 x HDMI 1 x Switch for power on/off 1 x AT/ATX mode selection switch	1 x RS-232/422/485 1 x RS-232 2 x 10/100/1000 Mbps Ethernet 2 x USB 2.0 2 x USB 3.0 1 x Audio (Line-out) 1 x HDMI 1 x Switch for power on/off 1 x AT/ATX mode selection switch
Storage	1 x 2.5" SATA HDD 1 x mSATA 1 x MicroSD card	1 x Half-slim SATA SSD (optional) 1 x mSATA	1 x mSATA 1 x 2.5" SATA HDD (AC version only)
Expansion Interface	1 x PCI Express Mini Card slot 1 x M.2 Key E	2 x PCI Express Mini Card slot	2 x PCI Express Mini Card slot
Touchscreen	5-wire resistive touch or projected capacitive multi-touch	Projected capacitive multi-touch	5-wire resistive touch or projected capacitive multi-touch
Operating System	Windows® 10 (64-bit)	Windows® 10, Windows® 8.1, WE8S, Windows® 7, WES 7	Windows® 10, Windows® 8.1, WE8S, Windows® 7, WES 7
Power Supply	100 to 240 VAC, 60W power adapter or DC cable for 24 VDC	24 VDC 100 to 240 VAC, 60W power adapter	DC version: 9 to 36 VDC with over-current protection fuse AC version: 100 to 240 VAC-DC, 60W power adapter
Power Consumption	28.8W	40.32W	30W
Watchdog Timer	255 levels, 0 to 255 sec.	255 levels, 0 to 255 sec.	255 levels, 0 to 255 sec.
Dimensions (W x D x H)	329.7 x 50 x 306 mm (13" x 2" x 12")	260.8 x 38 x 194.1 mm (10.27" x 1.50" x 7.65")	394.2 x 57 x 257.2 mm (15.53" x 2.25" x 10.13")
Weight (net/gross)	3.2 kg (7.1 lb)/4.8 kg (10.6 lb)	1.08 kg (2.38 lb)/2.18 kg (4.8 lb)	3.0 kg (6.61 lb)/4.5 kg (9.92 lb)
Operating Temperature	0°C to +50°C (+32°F to +122°F)	0°C to +50°C (+32°F to +122°F)	0°C to +50°C (+32°F to +122°F)
Certifications	CE, FCC	CE, FCC	CE, FCC

Heavy-duty Fanless Touch Panel Computers

NEW



Features\Models	GOT315W-521	GOT315WL-845-PCT	GOT317-502-FR
CPU Level	LGA1151 socket 8th gen Intel® Core™ i7/i5 & Pentium® (Tj 100°C)	Intel® Pentium® N3710 4C @ 1.6 GHz	LGA1151 socket 7th/6th gen Intel® Core™ i7/i5/3, Pentium® & Celeron®
Chipset	Intel® H310	SoC integrated	Intel® H110
System Memory	1 x 260-pin DDR4-2133/2400MHz SO-DIMM, up to 32GB	1 x 204-pin DDR3L-1333/1600 SO-DIMM, up to 8GB	2 x 260-pin DDR4-2400 SO-DIMM, up to 32GB
Display	15.6" WXGA TFT LCD, 400 nits	15.6" WXGA TFT LCD, 400 nits	17" SXGA TFT LCD, 350 nits
I/O	1x 9-pin D-sub Male/Via cable (optional) for RS-232 1 x RS-232/422/485 2 x 10/100/1000 Mbps Ethernet 2 x USB 3.0, 2 x USB 2.0 1 x Phoenix type connector for DC power input 1 x Switch for power on/off (ATX) 1 x Line out 1 x HDMI 1 x DisplayPort 1 x VGA 1 x Remote power switch 1 x AT/ATX switch (DC type only) 1 x Grounding Hole	1 x RS-232 1 x RS-232/422/485 1 x Switch for power on/off (ATX) 1 x Audio (Line-out) 2 x USB 3.0 2 x USB 2.0 2 x 10/100/1000 Mbps Ethernet (Intel® i217-LM & i210-AT)	2 x RS-232/422/485 1 x HDMI v1.4 1 x VGA (up to 1920 x 1200 60Hz) 1 x DisplayPort v1.2 (DP++) 4 x USB 3.0 2 x 10/100/1000 Mbps Ethernet (Intel® i219LM/i211AT) 1 x Audio (Mic-in/Line-out)
Storage	1 x 2.5" SATA HDD/SSD (7mm/9.5mm, removable)	1 x 2.5" SATA HDD 1 x mSATA	1 x 2.5" SATA HDD
Expansion Interface	1 x M.2 Key E slot 1 x Full-size PCI Express Mini Card slot	1 x Full-size PCI Express Mini Card slot with mSATA 1 x Full-size PCI Express Mini Card slot with SIM	1 x Half-size PCI Express Mini Card slot (mPCIe 1) 1 x Full-size PCI Express Mini Card slot (mSATA_mPCIe 2)
Touchscreen	Projected capacitive multi-touch	Projected capacitive multi-touch	Flat resistive touch
Operating System	Windows® 10	Windows® 10	Skylake: Windows® 7, Windows® 8.1, Windows® 10 Kaby Lake: Windows® 10
Power Supply	DC terminal block: +12V/+19V/+24V	DC version: 24 VDC	DC terminal block: +12V / +19V / +24V AC adapter: 19V, 6.32A
Power Consumption	60W	72W	120W (include 35W processor)
Watchdog Timer	255 levels, 0 to 255 sec.	255 levels, 0 to 255 sec.	255 levels, 0 to 255 sec.
Dimensions (W x D x H)	396.8 x 53.0 x 247.1 mm (15.6" x 2.08" x 9.73")	396.8 x 59.0 x 247.1 mm (15.62" x 2.3" x 9.73")	398.02 x 77.5 x 330.44 mm (15.67" x 3.05" x 13.01")
Weight (net/gross)	6.5 kg(14.3 lb)/8.5kg(18.7 lb)	4.5 kg (9.9 lb)/6.5 kg (14.3 lb)	6.7 kg (14.77 lb)/9.0 kg (19.84 lb)
Operating Temperature	0°C to +50°C (+32°F to +122°F)	0°C to +50°C (+32°F to +122°F)	0°C to +40°C (+32°F to +104°F)
Certifications	CE	CE	CE

NEW



Features\Models	GOT318WL-845	GOT321W-502	GOT3187WL-834
CPU Level	Intel® Pentium® N3710 4C @ 1.6 GHz	LGA1151 socket 7th/6th gen Intel® Core™ i7/i5/i3, Pentium® & Celeron®	Intel® Celeron® J1900 4C @ 2.0 GHz
Chipset	SoC integrated	Intel® H110	SoC integrated
System Memory	1 x 204-pin DDR3L-1333/1600 SO-DIMM, up to 8GB	2 x 260-pin DDR4-2400 SO-DIMM, up to 32GB	1 x 204-pin DDR3L-1333/1600 SO-DIMM, up to 8GB
Display	18.5" WXGA TFT LCD, 250 nits	21.5" FHD TFT LCD, 250 nits	18.5" WXGA TFT LCD, 250 nits 18.5" FHD TFT LCD, 500 nits
I/O	1 x RS-232 1 x RS-232/422/485 1 x Switch for power on/off (ATX) 1 x Audio (Line-out) 2 x USB 3.0 2 x USB 2.0 2 x 10/100/1000 Mbps Ethernet (Intel® i217-LM & i210-AT)	2 x RS-232/422/485 1 x HDMI v1.4 1 x VGA (up to 1920 x 1200 60Hz) 1 x DisplayPort v1.2 (DP++) 4 x USB 3.0 2 x 10/100/1000 Mbps Ethernet (Intel® i219-LM/i211-AT) 1 x Audio (Mic-in/Line-out)	2 x RS-232/422/485 1 x Switch for power on/off (ATX) 1 x Audio (Line-out) 2 x USB 3.0 2 x USB 2.0 2 x 10/100/1000 Mbps Ethernet (Intel® i210-IT)
Storage	1 x 2.5" SATA HDD 1 x mSATA	1 x 2.5" SATA HDD	1 x 2.5" SATA HDD (7/9.5 mm height) 1 x CFast™ or 1 x mSATA
Expansion Interface	1 x Full-size PCI Express Mini Card slot with mSATA 1 x Full-size PCI Express Mini Card slot with SIM	1 x Half-size PCI Express Mini Card slot (mPCIe 1) 1 x Full-size PCI Express Mini Card slot (mSATA_mPCIe 2)	2 x Full-size PCI Express Mini Card slot
Touchscreen	Projected capacitive multi-touch/ Flat resistive touch (optional)	10-point projected capacitive multi-touch	Projected capacitive multi-touch
Operating System	Windows® 10	Skylake: Windows® 7, Windows® 8.1, Windows® 10 (64-bit) Kaby Lake: Windows® 10	Windows® 8.1, WE8S, Windows® 7, WES 7, Windows® 10
Power Supply	DC version: 24 VDC	DC terminal block: +12V / +19V / +24V AC adapter: 19V, 6.32A	DC version: 9 to 36 VDC AC version: 12 VDC 60W adapter (WXGA version) AC version: 12 VDC 84W adapter (FHD version)
Power Consumption	48W	105W	49W (WXGA) 60W (FHD)
Watchdog Timer	255 levels, 0 to 255 sec.	255 levels, 0 to 255 sec.	255 levels, 0 to 255 sec.
Dimensions (W x D x H)	460.8 x 58.5 x 285 mm (18.11" x 2.3" x 11.22")	547.59 x 339.05 x 75.6 mm (21.56" x 13.49" x 2.98")	460.8 x 58.5 x 285 mm (18.11" x 2.3" x 11.22")
Weight (net/gross)	5.8 kg (12.8 lb)/8.2 kg (18.1 lb)	8.4 kg (18.5 lb)/11.3 kg (24.9 lb)	5.8 kg (12.8 lb)/8.2 kg (18.1 lb)
Operating Temperature	0°C to +50°C (+32°F to +122°F)	0°C to +40°C (+32°F to +104°F)	0°C to +50°C (+32°F to +122°F)
Certifications	CE	CE	CE

Heavy-duty Fanless Touch Panel Computers

NEW



Features\Models	GOT3217WL-845-PCT
CPU Level	Intel® Pentium® N3710 4C @ 1.6 GHz
Chipset	SoC integrated
System Memory	1 x 204-pin DDR3L-1333/ 1600 SO-DIMM, up to 8GB
Display	21.5" FHD TFT LCD, 250 nits
I/O	1 x RS-232 1 x RS-232/422/485 1 x Switch for power on/off (ATX) 1 x Audio (Line-out) 2 x USB 3.0 2 x USB 2.0 2 x 10/100/1000 Mbps Ethernet (Intel® i211-AT)
Storage	1 x 2.5" SATA HDD 1 x mSATA
Expansion Interface	2 x Full-size PCI Express Mini Card slot
Touchscreen	Projected capacitive multi-touch
Operating System	Windows® 10
Power Supply	DC version: DC 24V AC version: 12VDC, 5A adapter
Power Consumption	48W
Watchdog Timer	255 levels, 0 to 255 sec.
Dimensions (W x D x H)	547.6 x 58.5 x 339.0 mm (21.56" x 2.30" x 13.35")
Weight (net/gross)	7.6 kg (16.8 lb)/10.5 kg (23.1 lb)
Operating Temperature	0°C to +50°C (+32°F to +122°F)
Certifications	CE

Stainless Touch Panel Computers



Features\Models	GOT810-845	GOT815L-511	GOT815-834
CPU Level	Intel® Celeron® N3060 2C@1.6 GHz	Intel® Core™ i5-7300U 3.5 GHz	Intel Atom® E3827 1.75 GHz
Chipset	SoC intergrated	SoC integrated	SoC integrated
System Memory	1 x DDR3L-1333 MHz SO-DIMM, up to 8GB	1 x 260-pin DDR4-2133 SO-DIMM, up to 16GB	1 x 204-pin DDR3L-1333 SO-DIMM, up to 8GB
Display	10.4" XGA TFT LCD, 350 nits	15" XGA TFT LCD, 420 nits	15" XGA TFT, 420 nits
I/O	1 x RS-232/422/485 (default RS-232, M12 A-coded) 1 x RS-232 (M12 A-coded) 2 x USB 2.0 (M12 A-coded) 1 x 10/100/1000 Mbps Ethernet (M12 X-coded) 1 x DC power connector (M12)	2 x RS-232/422/485 (default RS-232, M12 A-coded) 4 x USB 2.0 (M12 A-coded) 1 x 10/100/1000 Mbps Ethernet (M12 X-coded) 1 x DC power connector (M12)	2 x RS-232/422/485 (default RS-232, M12 A-coded) 4 x USB 2.0 (M12, A-coded) 1 x 10/100/1000 Mbps Ethernet (M12, X-coded) 1 x DC power connector (M12)
Storage	1 x mSATA 1 x SATA	1 x 2.5" SSD HDD or 1 x 2.5" SATA HDD	1 x 2.5" SSD 1 x Cfast™
Expansion Interface	2 x PCI Express Mini Card slot	1 x Full-size PCI Express Mini Card slot 1 x Half-size PCI Express Mini Card slot	2 x PCI Express Mini Card slot
Touchscreen	5-wire resistive type or projected capacitive touch	5-wire resistive touch or projected capacitive multi-touch	5-wire resistive type or projected capacitive touch
Operating System	Windows® 8.1, WE8S, Windows® 7, WES 7, Windows® 10	Windows® 10 IoT, Windows® 10	Windows® 8.1, WE8S, Windows® 7, WES 7, Windows® 10
Power Supply	9 to 36 VDC	9 to 36 VDC	9 to 36 VDC
Power Consumption	29W	45W	30W
Watchdog Timer	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.
Front Bezel	Stainless steel with IP66/IP69K protection	Stainless steel 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")	382 x 55 x 305 mm (15.4" x 2.17" x 12.01")	382 x 55 x 305 mm (15.4" x 2.2" x 12.01")
Weight (net/gross)	2.8 kg (6.17 lb)/4 kg (8.82 lb)	5.2 kg (11.46 lb)/8.4 kg (18.5 lb)	6.94 kg (15.3 lb)/10.2 kg (22.5 lb)
Operating Temperature	-10°C to +50°C (14°F to +122°F)	-20°C to +50°C (-4°F to +122°F)	-20°C to +50°C (-4°F to +122°F)
Certifications	CE	CE	CE

Stainless Touch Panel Computers



Features\Models	GOT817L-511	GOT817-834
CPU Level	Intel® Core™ i5-7300U 3.5 GHz	Intel Atom® E3827 1.75 GHz
Chipset	SoC integrated	SoC integrated
System Memory	1 x 260-pin DDR4-2133 SO-DIMM, up to 16GB	1 x 204-pin DDR3L-1333 SO-DIMM, up to 8GB
Display	17" SXGA TFT LCD, 350 nits	17" SXGA TFT, 350 nits
I/O	2 x RS-232/422/485 (default RS-232, M12 A-coded) 4 x USB 2.0 (M12 A-coded) 1 x 10/100/1000 Mbps Ethernet (M12 X-coded) 1 x DC power connector (M12)	2 x RS-232/422/485 (default RS-232, M12 A-coded) 4 x USB 2.0 (M12 A-coded) 1 x 10/100/1000 Mbps Ethernet (M12 X-coded) 1 x DC power connector (M12)
Storage	1 x 2.5" SSD HDD or 1 x 2.5" SATA HDD	1 x 2.5" SSD 1 x CFast™
Expansion Interface	1 x Full-size PCI Express Mini Card slot 1 x Half-size PCI Express Mini Card slot	2 x PCI Express Mini Card slot
Touchscreen	5-wire resistive touch or projected capacitive multi-touch	5-wire resistive type or projected capacitive touch
Operating System	Windows® 10 IoT, Windows® 10	Windows® 8.1, WE8S, Windows® 7, WES 7, Windows® 10
Power Supply	9 to 36 VDC	12 to 36 VDC
Power Consumption	67.5W	50W
Watchdog Timer	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.
Front Bezel	Stainless steel with IP66/IP69K protection	Stainless steel with IP66/IP69K protection
Dimensions (W x D x H)	415.92 x 55 x 348.34 mm (16.37" x 2.16" x 13.71")	415.92 x 54.96 x 348.34 mm (16.37" x 2.16" x 13.71")
Weight (net/gross)	6.94 Kg (15.3 lb) / 10.2 Kg (22.5 lb)	7.04 kg (15.52 lb) / 10.3 kg (22.71 lb)
Operating Temperature	-20°C to +50°C (-4°F to +122°F)	-20°C to +55°C (-4°F to +131°F)
Certifications	CE	CE

Transportation Touch Panel Computers



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	DDR3L 4GB onboard	DDR3L 4GB onboard	DDR3L 4GB onboard
Display	10.4" XGA TFT LCD, 500 nits	10.4" SVGA TFT LCD, 1000 nits	12.1" XGA TFT LCD, 800 nits
I/O	1x Isolated DB9 RS-232/422/485 (isolation level 1.5kV) 1 x RJ-45 GbE (isolation level 1.5kV) 4 x USB 2.0 type A 1 x 4-pin terminal block DC-in 1 x Audio (Line-out & Mic-in) 1 x Isolated terminal block DIO (6-in/2-out, isolation level 1.5kV) 1 x Isolated DB9 CANbus (isolation level 1.5kV) 3 x SMA antenna opening 1 x SIM card socket	2 x Isolated M12 A-coded RS-232/422/485 (isolation level 1.5kV) 2 x isolated M12 X-coded GbE (isolation level 1.5kV) 1 x M12 A-coded USB 2.0 (2 port signal) 1 x M12 A-coded DC-in 1 x DB15 audio line-in, mic-in, speaker-out or line-out 1 x Isolated terminal block DIO (6-in/2-out, isolation level 1.5kV) 1 x Isolated DB9 CANbus (isolation level 1.5kV)	2 x Isolated M12 A-coded RS-232/422/485 (isolation level 1.5kV) 2 x isolated M12 X-coded GbE (isolation level 1.5kV) 1 x M12 A-coded USB 2.0 (2 port signal) 1 x M12 A-coded DC-in 1 x DB15 audio line-in, mic-in, speaker-out or line-out 1 x Isolated terminal block DIO (6-in/2-out, isolation level 1.5kV) 1 x Isolated DB9 CANbus (isolation level 1.5kV)
Storage	16GB flash onboard 1 x mSATA (occupied 1 PCI Express Mini Card)	16GB flash onboard 1 x mSATA (occupied 1 PCI Express Mini Card)	16GB flash onboard 1 x mSATA (occupied 1 PCI Express Mini Card)
Expansion Interface	3 x Full-size PCI Express Mini Card slot	2 x Full-size PCI Express Mini Card slot	2 x Full-size PCI Express Mini Card slot
Touchscreen	Zero-bezel 5-wire resistive touch screen	5-wire resistive touchscreen	5-wire resistive touchscreen
Operating System	Windows® 7, Windows® 8/8.1, Windows® 10, Windows® 10 IoT	Windows® 7, Windows® 10, Windows® 10 IoT	Windows® 7, Windows® 8/8.1, Windows® 10, Windows® 10 IoT
Power Supply	18 to 60 VDC power input	24 to 110 VDC power input	24 to 110 VDC power input
Power Consumption	36W	33.6W	40.8W
Watchdog Timer	255 levels, 1 to 255 sec	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.
Front Bezel	Full IP65-rated with rubberized cable gland for standard connectors protection	IP65-rated aluminum front bezel and IP40-rated rear protection	IP65-rated aluminum front bezel and IP40-rated rear protection
Dimensions (W x D x H)	291 x 50 x 266 mm (11.46" x 1.97" x 10.47")	310 x 51.5 x 214 mm (12.20" x 2.03" x 8.43")	330 x 51.5 x 245 mm (13" x 2.01" x 9.65")
Weight (net/gross)	2.0 kg (4.4 lb)/3.25 kg (7.16 lb)	2.5kg (5.51 lb)/4.3kg (9.48 lb)	2.86 kg (6.31 lb)/5.26 kg (11.60 lb)
Operating Temperature	-30°C to +55°C (-22°F to +131°F)	-40°C to +70°C (-40°F to +158°F)	-40°C to +70°C (-40°F to +158°F)
Mounting	Wall mount, VESA mount	Suspension, Wall mount, VESA mount	Suspension, Wall mount, VESA mount
Certifications	CE and FCC certified, EN 60721-3-5 and MIL-STD-810F complied	CE/FCC Class A, EN 50155, EN 50121-3-2, EN 61373, EN 45542-2 certified	CE, FCC Class A, EN 50155, EN 50121-3-2, EN 61373, and EN 45542-2 certified

Transportation Touch Panel Computers

NEW



NEW



Features\Models	GOT710S-837	GOT712S-837
CPU Level	Intel Atom® E3845 (1.91 GHz)	Intel Atom® E3845 (1.91 GHz)
Chipset	SoC integrated	SoC integrated
System Memory	DDR3L 4GB onboard	DDR3L 4GB onboard
Display	10.4" SVGA TFT LCD, 1000 nits	12.1" XGA TFT LCD, 800 nits
I/O	2 x Isolated M12 A-coded RS-232/422/485 (isolation level 1.5kV) 2 x Isolated M12 X-coded GbE (isolation level 1.5kV) 1 x M12 A-coded USB 2.0 (2 port signal) 1 x M12 A-coded DC-in 1 x DB15 audio line-in, mic-in, speaker-out or line-out 1 x Isolated terminal block DIO (6-in/2-out, isolation level 1.5kV) 1 x Isolated DB9 CANbus (isolation level 1.5kV)	2 x Isolated M12 A-coded RS-232/422/485 (isolation level 1.5kV) 2 x Isolated M12 X-coded GbE (isolation level 1.5kV) 1 x M12 A-coded USB 2.0 (2 port signal) 1 x M12 A-coded DC-in 1 x DB15 audio line-in, mic-in, speaker-out or line-out 1 x Isolated terminal block DIO (6-in/2-out, isolation level 1.5kV) 1 x Isolated DB9 CANbus (isolation level 1.5kV)
Storage	16GB flash onboard 1 x mSATA (occupied 1 PCI Express Mini Card)	16GB flash onboard 1 x mSATA (occupied 1 PCI Express Mini Card)
Expansion Interface	2 x Full-size PCI Express Mini Card slot	2 x Full-size PCI Express Mini Card slot
Touchscreen	5-wire resistive touchscreen	5-wire resistive touchscreen
Operating System	Windows® 7, Windows® 8/8.1, Windows® 10, Windows® 10 IoT	Windows® 7, Windows® 8/8.1, Windows® 10, Windows® 10 IoT
Power Supply	24 to 110 VDC power input, EN 50155 Class S3 20ms power interruption protection	24 to 110 VDC power input, EN 50155 Class S3 20ms power interruption protection
Power Consumption	33.6W	40.8W
Watchdog Timer	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.
Front Bezel	IP65-rated aluminum front bezel and IP40-rated rear protection	IP65-rated aluminum front bezel and IP40-rated rear protection
Dimensions (W x D x H)	310 x 61.5 x 214 mm (12.20" x 2.42"x 8.43")	330 x 61.5 x 245 mm (13" x 2.42"x 9.65")
Weight (net/gross)	2.6kg (5.73 lb)/4.4kg (9.7 lb)	2.95 kg (6.50 lb)/5.35 kg (11.79 lb)
Operating Temperature	-40°C to +70°C (-40°F to +158°F)	-40°C to +70°C (-40°F to +158°F)
Mounting	Suspension, Wall mount, VESA mount	Suspension, Wall mount, VESA mount
Certifications	CE, FCC Class A, EN 50155, EN 50121-3-2, EN 61373, and EN 45545-2 certified	CE, FCC Class A, EN 50155, EN 50121-3-2, EN 61373, and EN 45545-2 certified

Transportation Touch Displays

NEW



Features\Models	P6105	P6125	P718W
Display Type	10.4" XGA TFT LCD	12.1" XGA TFT LCD	18.5" FHD TFT LCD
Max. Colors	16.2M	16.2M	16.7M
Active Area (mm)	210.4 x 157.8	245.76 x 184.32	408.96 x 203.04
Max. Resolution	1024 x 768	1024 x 768	1920 x 1080
Display Mode	VGA 640 x 480 (60/72 Hz) SVGA 800 x 600 (60/72 Hz) XGA 1024 x 768 (60/72 Hz)	VGA 640 x 480 (60/72 Hz) SVGA 800 x 600 (60/72 Hz) XGA 1024 x 768 (60/72 Hz)	1920 x 1080 (50/60/75Hz)
Pixel Pitch (H x V, mm)	0.0685 x 0.2055	0.24 x 0.24	0.213 x 0.213
Backlight	LED	LED	LED
Backlight MTBF (hrs)	50,000	70,000	50,000
Viewing Angle (H/V)	176°/176°	160°/160°	178°/178°
Response Time	11ms (TYP) 16ms (MAX)	18ms	20ms
Contrast Ratio	1000 (TYP)	900 (TYP)	1000 (TYP)
Brightness (cd/m²)	500 nits	800 nits	500 nits
Display Control	OSD	OSD	OSD
I/O Connectors	1 x M12 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 M12 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 M12 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
Touchscreen	5-wire resistive touchscreen	5-wire resistive touchscreen	N/A
Power Consumption	24W	24W	TBD
Power Supply	24/110 VDC power input	24 to 110 VDC power input	24 to 110 VDC power input
Dimensions (W x D x H)	310 x 49.2 x 214 mm (12.20" x 1.94" x 8.43")	330 x 50.2 x 245 mm (12.99" x 1.98" x 9.65")	445.2 x 50.3 x 269.4 mm (17.52" x 1.98" x 10.6")
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	Suspension, Wall mount, VESA mount	Suspension, Wall mount, VESA mount	Suspension, Wall mount, VESA mount
Certifications	CE, FCC, EN 50155, EN 50121-3-2, EN 61373, and EN 45545-2 certified	CE, FCC, EN 50155, EN 50121-3-2, EN 61373, and EN 45545-2 compliant	CE, FCC, EN 50155, EN 50121-3-2, EN 61373, and EN 45545-2 certified

Industrial Touch Panel Computers



Features\Models	P1127E-500	P1157E-500	P1177E-500
CPU Level	LGA1151 socket 7th/6th gen Intel® Core™ i7/i5/i3, Celeron® & Pentium®	LGA1151 socket 7th/6th gen Intel® Core™ i7/i5/i3, Celeron® & Pentium®	LGA1151 socket 7th/6th gen Intel® Core™ i7/i5/i3, Celeron® & Pentium®
Chipset	Intel® H110	Intel® H110	Intel® H110
System Memory	2 x 288-pin DDR4-2133 Long-DIMM dual channel, up to 32GB	2 x 288-pin DDR4-2133 Long-DIMM dual channel, up to 32GB	2 x 288-pin DDR4-2133 Long-DIMM dual channel, up to 32GB
Display	12.1" XGA TFT, 500 nits	15" XGA TFT, 250 nits	17" SXGA TFT, 250 nits
I/O	3 x RS-232 1 x RS-232/422/485 1 x HDMI 1 x VGA 1 x DisplayPort 4 x USB 3.0 2 x USB 2.0 2 x 10/100/1000 Mbps Ethernet 1 x Audio (Mic-in & Line-out) 1 x PS/2 combo 1 x Remote power switch	3 x RS-232 1 x RS-232/422/485 1 x HDMI 1 x VGA 1 x DisplayPort 4 x USB 3.0 2 x USB 2.0 2 x 10/100/1000 Mbps Ethernet 1 x Audio (Mic-in & Line-out) 1 x PS/2 combo 1 x Remote power switch	3 x RS-232 1 x RS-232/422/485 1 x HDMI 1 x VGA 1 x DisplayPort 4 x USB 3.0 2 x USB 2.0 2 x 10/100/1000 Mbps Ethernet 1 x Audio (Mic-in & Line-out) 1 x PS/2 combo 1 x Remote power switch
Storage	1 x 2.5" SATA HDD	1 x 3.5" or 2 x 2.5" SATA HDD	1 x 3.5" or 2 x 2.5" SATA HDD
DVD-RW	N/A	N/A	N/A
Expansion Interface	1 x PCIe x4 or 1 x PCI	1 x PCIe x4 or 1 x PCI	1 x PCIe x4 or 1 x PCI
Touchscreen	5-wire resistive type	5-wire resistive type	5-wire resistive type
Operation System	Skylake: Windows® 7, Windows® 8.1, Windows® 10 Kaby Lake: Windows® 10	Skylake: Windows® 7, Windows® 8.1, Windows® 10 Kaby Lake: Windows® 10	Skylake: Windows® 7, Windows® 8.1, Windows® 10 Kaby Lake: Windows® 10
Power Supply	200W, 100 to 240 VAC	200W, 100 to 240 VAC	200W, 100 to 240 VAC
Power Consumption	121W	97.6W	143W
Watchdog Timer	255 levels, 1 to 255 sec	255 levels, 1 to 255 sec	255 levels, 1 to 255 sec
Front Bezel	Aluminum with IP65/NEMA 4 rugged protection	Aluminum with IP65/NEMA 4 rugged protection	Aluminum with IP65/NEMA 4 rugged protection
Dimensions (W x D x H)	314.2 x 105 x 253.7 mm (12.37" x 4.13" x 9.99")	378.3 x 90 x 310.3 mm (14.89" x 3.54" x 12.22")	411.82 x 90 x 353.24 mm (16.21" x 3.54" x 13.91")
Weight (net/gross)	4.2 kg (9.26 lb)/6.3 kg (13.89 lb)	5.4 kg (11.90 lb)/7.8 kg (17.20 lb)	6.4 kg (14.11 lb)/10.2 kg (22.49 lb)
Operating Temperature	0°C to +50°C (+32°F to +122°F)	0°C to +50°C (+32°F to +122°F)	0°C to +50°C (+32°F to +122°F)
Certifications	CE	CE	CE



Features\Models		P1197E-500
CPU Level		LGA1151 socket 7th/6th gen Intel® Core™ i7/i5/i3, Celeron® & Pentium®
Chipset		Intel® H110
System Memory		2 x 288-pin DDR4-2133 Long-DIMM dual channel, up to 32GB
Display		19" SXGA TFT, 250 nits
I/O		3 x RS-232 1 x RS-232/422/485 1 x HDMI 1 x VGA 1 x DisplayPort 4 x USB 3.0 2 x USB 2.0 2 x 10/100/1000 Mbps Ethernet 1 x Audio (Mic-in & Line-out) 1 x PS/2 combo
Storage		1 x 3.5" or 2 x 2.5" SATA HDD
DVD-RW		1 x Built-in slim type (optional)
Expansion Interface		1 x PCIe x4 or 1 x PCI
Touchscreen		5-wire resistive type
Operation System		Skylake: Windows® 7、Windows® 8.1、Windows® 10 Kaby Lake: Windows® 10
Power Supply		200W, 100 to 240 VAC
Power Consumption		157W
Watchdog Timer		255 levels, 1 to 255 sec.
Front Bezel		Aluminum with IP65/NEMA 4 rugged protection
Dimensions (W x D x H)		378 x 72.2 x 309 mm (14.88" x 2.84" x 12.17")
Weight (net/gross)		8 kg (17.64 lb)/10.4 kg (22.93 lb)
Operating Temperature		0°C to +45°C (+32°F to +113°F)
Certifications		CE

Industrial Touch Monitors

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Features\Models	P6157W-V3	P6217W-V3
Front Bezel	Flat, NEMA 4/12 (IP65)-compliant	Flat, NEMA 4/12 (IP65)-compliant
Display Type	15.6" WXGA TFT	21.5" FHD TFT
Max. Colors	16.7M	16.7M
Active Area (mm)	344.232 x 193.536	476.64 x 268.11
Max. Resolution	1366 x 768	1920 x 1080
Display Mode	VGA 640 x 480 (60/75Hz), SVGA 800 x 600 (60/75Hz), XGA 1024 x 768 (60/75Hz) WXGA 1366 x 768 (60/75Hz)	VGA 640 x 480 (60/75Hz), SVGA 800 x 600 (60/75Hz), XGA 1024 x 768 (60/75Hz) SXGA 1280 x 1024 (60/70/75Hz) WXGA 1366 x 768 (60/75Hz) FHD 1920 x 1080 (60Hz)
Pixel Pitch (H x V, mm)	0.252 x 0.252	0.24 x 0.24
Backlight	LED	LED
Backlight MTBF (hrs)	50,000	50,000
Viewing Angle (H/V)	170°/160°	178°/178°
Response Time	8ms	22ms
Contrast Ratio	500 (TYP)	1000 (TYP)
Brightness (cd/m²)	400 nits	250 nits
Display Control	OSD	OSD
I/O Connectors	1x Screw type connector 1 x USB for touch 1 x VGA 1 x HDMI 1 x DP 1 x Line-in	1x Screw type connector 1 x USB for touch 1 x VGA 1 x HDMI 1 x DP 1 x Line-in
Touchscreen	Projective capacitive multi-touch	Capacitive type 10-point projected capacitive multi-touch
Power Consumption	TBD	TBD
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")	547.59 x 53 x 339.05 mm (21.56" x 2.09" x 13.34")
Weight (net/gross)	4.5 kg (9.92 lb)/6.5 kg (14.33 lb)	6.42 kg (14.15 lb)/7.78 kg (17.15 lb)
Operating Temperature	0°C to +50°C (+32°F to +122°F)	0°C to +50°C (+32°F to +122°F)
Mounting	Panel mount/wall mount/ VESA mount	Panel mount/wall mount/VESA arm
Certifications	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" HDD 1 x mSATA	1 x 2.5" HDD 1 x mSATA
DVD-RW	N/A	N/A	N/A
Expansion Interface	2 x PCI Express Mini Card slot	2 x PCI Express Mini Card slot	2 x PCI Express Mini Card slot
Touchscreen	Projected capacitive multi-touch	5-wire flat resistive type	5-wire flat resistive type
Power Supply	AC version: 100 to 240 VAC-DC, 65W power adapter DC version: 9 to 36 VDC with over current protection fuse	AC version: 100 to 240 VAC-DC, 65W power adapter DC version: 9 to 36 VDC with over current protection fuse	AC version: 100 to 240 VAC-DC, 65W power adapter DC version: 9 to 36 VDC with over current protection fuse
Watchdog Timer	255 levels, 0 to 255 sec.	255 levels, 0 to 255 sec.	255 levels, 0 to 255 sec.
Dimensions (W x D x H)	260.8 x 38 x 194.1 mm (10.27" x 1.5" x 7.65")	292.5 x 45.8 x 235.8 mm (11.52" x 1.8" x 9.28")	387.9 x 54.6 x 307.7 mm (15.27" x 2.14" x 12.11")
Weight (net/gross)	1.08 kg (2.38 lb)/2.18 kg (4.8 lb)	1.8 kg (3.96 lb)/3 kg (6.61 lb)	3.2 kg (7.05 lb)/5.1 kg (11.24 lb)
Operating Temperature	0° to +40°C (+32°F to +104°F)	0° to +40°C (+32°F to +104°F)	0° to +40°C (+32°F to +104°F)
Certifications	EN 60601-1 (ESD contact 8KV, air 15KV), CE and FCC	EN 60601-1 (ESD contact 8KV, air 15KV), CE and FCC	EN 60601-1 (ESD contact 8KV, air 15KV), CE and FCC

Medical Panel Computers



Features\Models		MPC153-834
CPU Level		Intel® Celeron® J1900 (up to 2.42 GHz)
Chipset		SoC integrated
System Memory		1 x 204-pin DDR3L-1066/1333 SO-DIMM, up to 8GB
Display		15.6" WXGA TFT, 300 nits
I/O		2 x RS-232/422/485 1 x RS-232/422/485 (with isolated 4KV) 2 x 10/100/1000 Mbps Ethernet 2 x USB 3.0 1 x Audio (Line-out)
Storage		1 x Half-slim SSD 1 x CFast™ or mSATA
DVD-RW		N/A
Expansion Interface		2 x PCI Express Mini Card slot
Touchscreen		5-wire flat resistive type
Power Supply		AC version: 100 to 240 VAC-DC, 65W power adapter DC version: 9 to 36 VDC with over current protection fuse
Watchdog Timer		255 levels, 0 to 255 sec.
Dimensions (W x D x H)		394.2 x 57 x 257.2 mm (15.53" x 2.25" x 10.13")
Weight (net/gross)		3.0 kg (6.61 lb)/5.2 kg (11.46 lb)
Operating Temperature		0°C to +40°C (+32°F to +104°F)
Certifications		CE, EN 60601-1, FCC classB

Interactive Touch Computers



Features\Models	ITC150WM	ITC210WM
SDM Module	SDM300S: Intel® SDM Small (SDM-S, 60 x 100 mm) SDM500L: Intel® SDM Large (SDM-L, 175 x 100 mm)	SDM300S: Intel® SDM Small (SDM-S, 60 x 100 mm) SDM500L: Intel® SDM Large (SDM-L, 175 x 100 mm)
CPU Level	SDM300S: Intel® Pentium® N4200 1.1GHz processor or Intel® Celeron® N3350 1.1GHz processor SDM500L: Intel® Celeron® i3 4305UE 2.0GHz processor or Intel® Core™ processor (optional)	SDM300S: Intel® Pentium® N4200 1.1GHz processor or Intel® Celeron® N3350 1.1GHz processor SDM500L: Intel® Celeron® i3 4305UE 2.0GHz processor or Intel® Core™ processor (optional)
Chipset	SoC Integrated	SoC Integrated
System Memory	SDM300S: Onboard LPDDR4 2400 MHz 4GB (8GB optional) SDM500L: 2 x 260-pin DDR4-2400 SO-DIMM slot, up to 64GB	SDM300S: Onboard LPDDR4 2400 MHz 4GB (8GB optional) SDM500L: 2 x 260-pin DDR4-2400 SO-DIMM slot, up to 64GB
Display	15.6" FHD TFT LCD 300 nits 16:9 radio 1920 x 1080 pixels	21.5" FHD TFT LCD 250 nits 16:9 radio 1920 x 1080 pixels
SDM-S I/O	1 x GbE LAN 2 x USB 3.0 Type A 2 x SMA antenna reserved hole	1 x GbE LAN 2 x USB 3.0 Type A 2 x SMA antenna reserved hole
SDM-L I/O	1 x Power button with LED 1 x GbE LAN 4 x USB 3.0 Type A 1 x Audio output 1 x Microphone input	1 x Power button with LED 1 x GbE LAN 4 x USB 3.0 Type A 1 x Audio output 1 x Microphone input
I/O	1 x HDMI 1 x USB 3.0 Type A 2 x USB 2.0 Type A 1 x microSD card slot (push-push type) 2 x 12 VDC-in barrel (screw-lock type) 1 x Power button with LED	1 x HDMI 1 x USB 3.0 Type A 2 x USB 2.0 Type A 1 x microSD card slot (push-push type) 2 x 12 VDC-in barrel (screw-lock type) 1 x Power button with LED
Storage	SDM300-S: 1 x eMMC 64GB onboard SDM500-L: 1 x M.2 Key M 2242 slot 1 x M.2 Key B 2280 slot	SDM300-S: 1 x eMMC 64GB onboard SDM500-L: 1 x M.2 Key M 2242 slot 1 x M.2 Key B 2280 slot
Expansion Interface	SDM300S: 1 x M.2 Key E 2230 slot (for the Wi-Fi) SDM500L: 1 x M.2 Key E 2230 slot (for the Wi-Fi)	SDM300S: 1 x M.2 Key E 2230 slot (for the Wi-Fi) SDM500L: 1 x M.2 Key E 2230 slot (for the Wi-Fi)
Touchscreen	Projected capacitive multi-touch	Projected capacitive multi-touch
Operating System	Windows® 10	Windows® 10
Power Supply	96W (12V/8A) AC to DC power adapter	96W (12V/8A) AC to DC power adapter
Power Consumption	Average 45W	Average 50W
Watchdog Timer	255 levels, 1 to 255 sec./min.	255 levels, 1 to 255 sec./min.
Dimensions (W x D x H)	386 x 40 x 241 mm (15.1" x 1.6" x 9.5")	531 x 48.5 x 317 mm (20.9" x 1.9" x 12.5")
Weight (net/gross)	3.2 kg (7.04lb)/5.4kg (11.9 lb)	7.5 kg (16.53 lb)/10.5kg (23.2 lb)
Operating Temperature	0°C to +40°C (+32°F to +104°F)	0°C to +40°C (+32°F to +104°F)
Certifications	CE, FCC Class A	CE, FCC Class A

Self-service Kiosk

NEW



Features\Models		SSK315
SDM Module		SDM300S: Intel® SDM Small (SDM-S, 60 x 100 mm) SDM500L: Intel® SDM Large (SDM-L, 175 x 100 mm)
CPU Level		SDM300S: Intel® Pentium® N4200 1.1GHz processor or Intel® Celeron® N3350 1.1GHz processor SDM500L: Intel® Celeron® 4305UE 2.0GHz processor or Intel® Core™ processor (optional)
Chipset		SoC Integrated
System Memory		SDM300S: Onboard LPDDR4 2400 MHz 4GB (8GB optional) SDM500L: 2 x 260-pin DDR4-2400 SO-DIMM slot, up to 64GB
Display		15.6 " FHD TFT LCD 400 nits 16:9 ratio 1920 x 1080 pixels
SDM-S I/O		1 x GbE LAN 2 x USB 3.0 Type A 2 x SMA antenna reserved hole
SDM-L I/O		1 x Power button with LED 1 x GbE LAN 4 x USB 3.0 Type A 1 x Audio output 1 x Microphone input
I/O		1 x Power button with LED 1 x HDMI output 1 x USB 3.0 Type A 2 x USB 2.0 Type A 1 x microSD card slot (push-push type) 2 x 12 VDC-in barrel (screw-lock type) 1 x 124 VDC-in (screw-lock type)
Storage		SDM300-S: 1 x eMMC 64GB onboard SDM500-L: 1 x M.2 Key M 2242 slot 1 x M.2 Key B 2280 slot
Expansion Interface		SDM300S: 1 x M.2 Key E 2230 slot (for the Wi-Fi) SDM500L: 1 x M.2 Key E 2230 slot (for the Wi-Fi)
Touchscreen		10-point projected capacitive touch with direct bonding
Optional Devices		Thermal printer (2 inch and 3 inch) Barcode scanner (1D and 2D) RFID reader (13.56MHz)
Power Supply		150W (24V@A) AC to DC open-frame
Power Consumption		Average 90W
Watchdog Timer		255 levels, 0 to 255 sec
Dimensions (W x D x H)		405 x 288 x 509 mm (15.94" x 11.34" x 20.04")
Weight (net/gross)		20 kg (44.1 lb)/23 kg (50.7 lb)
Operating Temperature		0°C to +40°C (+32°F to +104°F)
Operating Humidity		20% - 80%, non-condensing
Certifications		CE, FCC Class A

SMB Network Appliances

NEW



Features \ Models	NA870	NA860	NA861
Form Factor	2U, 19" rackmount	2U, 19" rackmount	1U, 19" rackmount
Processor	Dual LGA4189 Intel® Xeon® Scalable processors	Dual LGA3647 Intel® Xeon® Scalable processors	LGA3647 Intel® Xeon® Scalable processors
Platform	Chipset Intel® C621A/C627A	Acceleration Technology Intel® QAT (C627A)	Processor Intel® C621
BIOS	AMI SPI Flash BIOS	AMI SPI Flash BIOS	AMI SPI Flash BIOS
Memory	Technology DDR4-3200	Max. Capacity 1280GB	Technology DDR4-2400
	Socket 20 x 288-pin R-DIMM	Socket 12 x 288-pin R-DIMM	Max. Capacity 384GB
	ECC Support Non-ECC/ECC	ECC Support Non-ECC/ECC	Socket 6 x 288-pin R-DIMM
Network Interface	Ethernet (default) 2 x 10/100/1000 Mbps	Ethernet (max.) 66 x 10/100/1000 Mbps	Ethernet (max.) 34 x 10/100/1000 Mbps
	LAN Bypass Upon LAN module	LAN Bypass Upon LAN module	LAN Bypass Upon LAN module
	Controller Intel® i210	Controller Intel® i210	Controller Intel® i210
	LAN Module 8 x NIC slot (Dual CPUs) 4 x NIC slot (Single CPU)	LAN Module 8 x NIC slot (Dual CPUs) 4 x NIC slot (Single CPU)	LAN Module 4 x NIC slot
	HDD/SSD 2 x 2.5" HDD (Hot swappable)	HDD/SSD 2 x 2.5" HDD (Hot swappable)	HDD/SSD 2 x 2.5" HDD
Storage	M.2 SSD 1 x M.2 2242/2280 Key M slot (PCIe) 1 x M.2 2242/2280 Key M slot (SATA)	M.2 SSD N/A	M.2 SSD N/A
	mSATA/CF/Cfast N/A	mSATA/CF/Cfast 1 x Full-size mSATA	mSATA/CF/Cfast 1 x Full-size mSATA
I/O	Button Yes	LED Indicator Power, HDD, GPIO programmable, Link/Act with transfer rate	Button N/A
	USB 2 x USB 3.0	LED Indicator Power, HDD, GPIO programmable, Link/Act with transfer rate	USB 2 x USB 3.0
	Console 1 x Console (RJ-type)	USB 2 x USB 3.0	Console 1 x Console (RJ-type)
	LCM Module Yes	Console 1 x Console (RJ-type)	LCM Module Yes
	Display 1 x VGA	Display 1 x VGA	Display 1 x VGA
TPM	2.0	1.2	1.2
IPMI	Optional	Optional	Optional
Watchdog	255 stepping for system reset 8 stepping for LAN Bypass	255 stepping for system reset 8 stepping for LAN Bypass	255 stepping for system reset 8 stepping for LAN Bypass
Power Supply	Power Type Redundant	Power Type Redundant	Power Type Single/Redundant (optional)
	Watts 1600W	Watts 800W	Watts 400W
	Input 100 to 240 Vac	Input 100 to 240 Vac	Input 100 to 240 Vac
	Connector Inlet C14	Connector Inlet C14	Connector Inlet C14
Expansion Interface	2 x PCIe x16 (optional, 1 slot for each CPU)	1 x PCIe x16 (optional) 2 x PCIe x8 (optional from CPU#1)	1 x PCIe x16 2 x PCIe x8 (optional from CPU#1)
Environment	Operating Temperature 0°C to +40°C (+32°F to +104°F)	Operating Temperature 0°C to +40°C (+32°F to +104°F)	Operating Temperature 0°C to +40°C (+32°F to +104°F)
	Storage Temperature -20°C to +70°C (-4°F to +158°F)	Storage Temperature -20°C to +70°C (-4°F to +158°F)	Storage Temperature -20°C to +70°C (-4°F to +158°F)
	Humidity 10% to 95% RH, non-condensing	Humidity 10% to 95% RH, non-condensing	Humidity 10% to 95% RH, non-condensing
Mechanical	Construction Iron	Construction Iron	Construction Iron
	Dimensions (W x H x D) 88 x 430 x 663 mm (3.46" x 16.93" x 26.10")	Dimensions (W x H x D) 88 x 430 x 562 mm (3.46" x 16.93" x 22")	Dimensions (W x H x D) 44 x 430 x 561 mm (1.73" x 16.93" x 22")
	Weight (net/gross) 12 kg (26.4 lb)/20 kg (44 lb)	Weight (net/gross) 12 kg (26.4 lb)/20 kg (44 lb)	Weight (net/gross) 8 kg (17.6 lb)/12 kg (26.4 lb)
OS Support	Linux Kernel	Linux Kernel	Linux Kernel
Certifications	CE/FCC Class A	CE/FCC Class A	CE/FCC Class A

SMB Network Appliances

NEW



Features \ Models	NA720	NA592	NA591
Form Factor	1U, 19" rackmount	1U, 19" rackmount	1U, 19" rackmount
Processor	Intel® Xeon® D-1527 Intel® Pentium® D1508	LGA1200 Intel® Xeon® W-1200/ Intel® Core™	LGA1151 Intel® Xeon® E-2200/ Intel® Core™
Platform	Chipset SoC Integrated	Intel® W480E	Intel® C246
Acceleration Technology	N/A	N/A	N/A
BIOS	AMI SPI Flash BIOS	AMI SPI Flash BIOS	AMI SPI Flash BIOS
Memory	Technology DDR4-2400	DDR4-2933	DDR4-2666
	Max. Capacity 128GB	128GB	128GB
	Socket 4 x 288-pin R-DIMM/U-DIMM	4 x 288-pin U-DIMM	4 x 288-pin U-DIMM
	ECC Support Non-ECC/ECC	Non-ECC/ECC	Non-ECC/ECC
Network Interface	Ethernet (default) 8 x 10/100/1000 Mbps 2 x 10 GbE SFP+	8 x 10/100/1000 Mbps	2 x 10/100/1000 Mbps
	Ethernet (max.) 24 x 10/100/1000 Mbps	26 x 10/100/1000 Mbps	34 x 10/100/1000 Mbps
	LAN Bypass On board 2 pairs Upon LAN module	2 pairs	Upon LAN module
	Controller Intel® i210	Intel® i350	Intel® i210
	LAN Module 2 x NIC slot	2 x NIC slot	4 x NIC slot
Storage	HDD/SSD 2 x 2.5" HDD	2 x 2.5" HDD	2 x 2.5" HDD
	M.2 SSD N/A	1 x M.2 B-Key 2242	N/A
	mSATA/CF/Cfast 1 x Full-size mSATA	N/A	1 x Full-size mSATA
I/O	Button N/A	Yes	N/A
	LED Indicator Power, HDD, GPIO programmable, LAN Bypass, Link/Act with transfer rate	Power, HDD, GPIO programmable, LAN Bypass, Link/Act with transfer rate	Power, HDD, GPIO programmable, Link/Act with transfer rate
	USB 2 x USB 3.0	2 x USB 3.0	2 x USB 2.0
	Console 1 x Console (RJ-type)	1 x Console (RJ-type)	1 x Console (RJ-type)
	LCM Module Yes	Yes	Yes
	Display 1 x VGA (optional)	1 x VGA (optional)	1 x VGA (optional)
TPM	1.2	2.0	1.2
IPMI	Optional	Optional	Optional
Watchdog	255 stepping for system reset 8 stepping for LAN Bypass	255 stepping for system reset 8 stepping for LAN Bypass	255 stepping for system reset 8 stepping for LAN Bypass
	Power Type Single/Redundant (optional)	Single/Redundant (optional)	Single/Redundant (optional)
Power Supply	Watts 300W 400W (optional)	400W	400W
	Input 100 to 240 Vac	100 to 240 Vac	100 to 240 Vac
	Connector Inlet C14	Inlet C14	Inlet C14
Expansion Interface	1 x PCIe x8 (optional)	1 x M.2 Key E 2230 slot (optional) 1 x PCIe x8 (optional)	1 x PCIe x4 (optional)
Environment	Operating Temperature 0°C to +45°C (+32°F to +113°F)	0°C to +45°C (+32°F to +113°F) (400W ATX power supply) 0°C to +40°C (+32°F to +104°F) (400W 1U redundant power supply)	0°C to +45°C (+32°F to +113°F)
	Storage Temperature -20°C to +70°C (-4°F to +158°F)	-20°C to +70°C (-4°F to +158°F)	-20°C to +70°C (-4°F to +158°F)
	Humidity 10% to 95% RH, non-condensing	10% - 95% RH, non-condensing	10% - 95% RH, non-condensing
Mechanical	Construction Iron	Iron	Iron
	Dimensions (W x H x D) 44 x 430 x 390 mm (1.73" x 16.93" x 15.34")	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")
	Weight (net/gross) 5.5 kg (12.13 lb)/7.5 kg (16.53 lb)	6 kg (13.2 lb)/10 kg (22 lb)	8.32 kg (18.34 lb)/12.76 kg (28.13 lb)
OS Support	Linux Kernel	Linux Kernel	Linux
Certifications	CE/FCC Class A	CE/FCC Class A	CE/FCC Class A



Features \ Models		NA590	NA580
Form Factor		1U, 19" rackmount	1U, 19" rackmount
Platform	Processor	LGA1151 socket 9th/8th gen Intel® Core™/ Xeon® E-2200	LGA1151 Intel® Xeon® E3/ Intel® Core™
	Chipset	Intel® C246/H310	Intel® C236/H110
	Acceleration Technology	N/A	N/A
BIOS		AMI SPI Flash BIOS	AMI SPI Flash BIOS
Memory	Technology	DDR4-2666	DDR4-2400
	Max. Capacity	64GB (H310) 128G (C246)	64GB
	Socket	4 x 288-pin U-DIMM (H310) 2 x 288-pin U-DIMM (C246)	2 x 288-pin U-DIMM (H310) 4 x 288-pin U-DIMM (C246)
	ECC Support	Non-ECC	Non-ECC/ECC
	Ethernet (default)	6 x 10/100/1000 Mbps (H310) 8 x 10/100/1000 Mbps (C246)	6 x 10/100/1000 Mbps (H110) 8 x 10/100/1000 Mbps (C236)
Network Interface	Ethernet (max.)	14 x 10/100/1000 Mbps (H310) 26 x 10/100/1000 Mbps (C246)	18 x 10/100/1000 Mbps
	LAN Bypass	LAN Bypass function through latch relay (2 pairs)	2 pairs
	Controllers	Intel® i210	Intel® i210
	LAN Module	2 x NIC slot (2 slot for C246 only)	1 x NIC slot
Storage	HDD/SSD	2 x 2.5" HDD or 1 x 3.5" HDD (3.5" optional for single PSU)	2 x 2.5" HDD or 1 x 3.5" HDD (3.5" optional for single PSU)
	M.2 SSD	1 x M.2 2280 (C246 only)	N/A
	mSATA/CF/CFast	1 x Full-size mSATA	1 x CFast™ 1 x Full-size mSATA
I/O	Button	N/A	N/A
	LED Indicator	Power, HDD, GPIO programmable, LAN Bypass, Link/Act with transfer rate	Power, HDD, GPIO programmable, LAN Bypass, Link/Act with transfer rate
	USB	2 x USB 3.0	2 x USB 3.0
	Console	1 x Console (RJ-type)	1 x Console (RJ-type)
	LCM Module	Yes	Yes
TPM	Display	1 x VGA (optional)	1 x VGA (optional)
		1.2	1.2
IPMI		Optional	Optional
Watchdog		255 stepping for system reset 8 stepping for LAN Bypass	255 stepping for system reset 8 stepping for LAN Bypass
Power Supply	Power Type	Single/Redundant (optional)	Single/Redundant (optional)
	Watts	300W/400W (optional)	300W/400W (optional)
	Input	100 to 240 Vac	100 to 240 Vac
Expansion Interface	Connector	Inlet C14	Inlet C14
		1 x M.2 Key M 2280 slot (C246 optional) 1 x PCIe x8 (C246 optional)	N/A
Environment	Operating Temperature	0°C to +45°C (+32°F to +113°F) (300W ATX power supply)	0°C to +45°C (+32°F to +113°F) (300W ATX power supply)
	Humidity	0°C to +40°C (+32°F to +104°F) (400W 1U redundant power supply)	0°C to +40°C (+32°F to +104°F) (400W 1U redundant power supply)
	Storage Temperature	-20°C to +70°C (-4°F to +158°F)	-20°C to +70°C (-4°F to +158°F)
Mechanical	Humidity	10% to 95% RH, non-condensing	10% - 95% RH, non-condensing
	Construction	Iron	Iron
	Dimensions (W x H 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")
OS Support	Weight (net/gross)	6 kg (13.2 lb)/10 kg (22 lb)	6 kg (13.2 lb)/10 kg (22 lb)
		Linux	Linux
Certifications		CE/FCC Class A	CE/FCC Class A

SMB Network Appliances



Features \ Models	NA362R	NA363R	NA345R
Form Factor	1U, 19" rackmount	1U, 19" rackmount	1U, 19" Rackmount
Processor	Intel Atom® C3558/C3758	Intel Atom® C3558/C3758	Intel® Celeron® N3350/J3455
Platform			
Chipset	SoC integrated	SoC integrated	SoC integrated
Acceleration Technology	Intel® QAT	Intel® QAT	N/A
BIOS	AMI SPI Flash BIOS	AMI SPI Flash BIOS	AMI SPI Flash BIOS
Memory			
Technology	DDR4-2400	DDR4-2400	DDR3L-1866
Max. Capacity	128GB	128GB	8GB
Socket	4 x 288-pin R-DIMM/U-DIMM	4 x 288-pin R-DIMM/U-DIMM	1 x 204-pin SO-DIMM
ECC Support	Non-ECC/ECC	Non-ECC/ECC	Non-ECC/ECC
Network Interface			
Ethernet (default)	6 x 10/100/1000 Mbps 2 x 10G SFP+ or 4 x 10G SFP+	6 x 10/100/1000 Mbps	6 x 10/100/1000 Mbps
Ethernet (max.)	6 x 10/100/1000 Mbps 4 x 10G SFP+	6 x 10/100/1000 Mbps	6 x 10/100/1000 Mbps
LAN Bypass	1 pair	1 pair 2 pairs (optional)	1 pair (optional)
Controller	Intel® i210	Intel® i210	Intel® i211
LAN Module	N/A	1 x NIC Slot (C3758 optional)	N/A
Storage			
HDD/SSD	2 x 2.5" HDD 1 x 3.5" HDD (optional)	2 x 2.5" HDD 1 x 3.5" HDD (optional)	1 x 2.5" HDD 1 x 3.5" HDD (optional)
M.2 SSD	N/A	N/A	N/A
mSATA/CF/CFast	1 x Full-size mSATA	1 x Full-size mSATA	1 x Full-size mSATA
I/O			
Button	Yes	Yes	Yes
LED Indicator	Power, HDD, GPIO programmable, LAN Bypass, Link/Act with transfer rate	Power, HDD, GPIO programmable, LAN Bypass, Link/Act with transfer rate	Power, HDD, GPIO programmable, LAN Bypass, Link/Act with transfer rate
USB	2 x USB 2.0	2 x USB 3.0	2 x USB 3.0
Console	1 x Console (RJ-type)	1 x Console (RJ-type)	1 x Console (RJ-type)
LCM Module	Yes	Yes	N/A
Display	N/A (optional for VGA module)	N/A (optional for VGA module)	1 x HDMI 1 x VGA (Optional)
TPM	Yes	Yes	Yes
IPMI	N/A	N/A	N/A
Watchdog	255 stepping for system reset 8 stepping for LAN Bypass	255 stepping for system reset 8 stepping for LAN Bypass	255 stepping for system reset 8 stepping for LAN Bypass
Power Supply			
Power Type	Open frame	Open frame	Open frame
Watts	120W	120W	65W
Input	100 to 240Vac	100 to 240Vac	100 to 240Vac
Connector	Inlet C14	Inlet C14	Inlet C14
Expansion Interface	1 x Full-size Mini PCIe slot (SATA/USB) 1 x Full-size Mini PCIe slot (PCIe/USB)	1 x Full-size Mini PCIe slot (PCIe or mSATA/USB) 1 x Full-size Mini PCIe slot (PCIe or mSATA/USB)	N/A
Environment			
Operating Temperature	0°C to +45°C (+32°F to +113°F)	0°C to +45°C (+32°F to +113°F)	0°C to +45°C (+32°F to +113°F)
Storage Temperature	-20°C to +70°C (-4°F to +158°F)	-20°C to +70°C (-4°F to +158°F)	-20°C to +70°C (-4°F to +158°F)
Humidity	10% - 95% RH, non-condensing	10% - 95% RH, non-condensing	10% - 95% RH, non-condensing
Mechanical			
Construction	Iron	Iron	Iron
Dimensions (W x H x D)	44 x 430 x 250 mm (1.73" x 16.93" x 9.84")	44 x 430 x 250 mm (1.73" x 16.93" x 9.84")	44 x 430 x 250 mm (1.73" x 16.93" x 9.84")
Weight (net/gross)	3.5 kg (7 lb)/4.5 kg (9 lb)	3.5 kg (7 lb)/4.5 kg (9 lb)	7 kg (15.43 lb)/8 kg (17.64 lb)
OS Support	Yocto, Linux	Yocto, Linux	Win 10, Yocto, Linux
Certifications	CE/FCC Class B	CE/FCC Class A	CE/FCC Class B

SOHO Network Appliances

Network
Appliances



Models	NA347	NA346	NA345	NA342
Form Factor	Ultra-Compact, Fanless	Ultra-Compact, Fanless	1U Desktop	1U Desktop
Processor	Intel® Celeron® N3350	Intel® Celeron® N3350	Intel® Pentium® N4200 (4-core) Intel® Celeron® N3350 (2-core)	Intel® Celeron® J1900 (4-core)
Platform	Chipset Acceleration Technology	SoC integrated N/A	SoC integrated N/A	SoC integrated N/A
BIOS	AMI SPI Flash BIOS	AMI SPI Flash BIOS	AMI SPI Flash BIOS	AMI SPI Flash BIOS
Memory	Technology Max. Capacity Socket ECC Support	DDR3L-1866 8GB 1 x 204-pin SO-DIMM Non-ECC	DDR3L-1866MHz 8GB 1 x 204-pin SO-DIMM Non-ECC	DDR3L-1866 8GB 1 x 204-pin SO-DIMM Non-ECC
Network Interface	Ethernet (default) Ethernet (max.) LAN Bypass Controller LAN Module	3 x 10/100/1000 Mbps 3 x 10/100/1000 Mbps 1 pair (optional) Intel® i211 N/A	4 x 10/100/1000 Mbps 4 x 10/100/1000 Mbps 1 pair (optional) Intel® i211 N/A	4 x 10/100/1000 Mbps 6 x 10/100/1000 Mbps 1 pair (optional) Intel® i211 N/A
Storage	HDD/SSD M.2 SSD mSATA/CF/CFast	N/A 1 x M.2 Key B 2242 slot N/A	N/A N/A 1 x Half-size mSATA 1 x Full-size mSATA	1 x 2.5" HDD (Max 9.5mm height only) N/A 1 x Power Switch
I/O	Button LED Indicator	Power Button with LED N/A	Power Switch Power, HDD, GPIO programmable, Power, HDD, GPIO programmable, LAN Bypass, Link/Act with transfer rate	1 x Power Switch Power, HDD, GPIO programmable, LAN Bypass, Link/Act with transfer rate
TPM IPMI	N/A N/A	Yes N/A	Yes N/A	Yes N/A
Watchdog	255 stepping for system reset	255 stepping for system reset 8 stepping for LAN Bypass	255 stepping for system reset 8 stepping for LAN Bypass	255 stepping for system reset 8 stepping for LAN Bypass
Power Supply	Power Type Watts Input Connector	Adapter 36W 100 to 240 Vac DC-Jack w/Screw Type	Adapter 36W 100 to 240 Vac DC-Jack w/Screw Type	Adapter 60W 100 to 240 Vac DC-Jack
Expansion Interface	1 x M.2 Key B 2242 1 x Full-size Mini-Pcie slot (PCIe/USB)	1 x Half-size Mini-Pcie slot (SATA/USB) 1 x Half-size Mini-Pcie slot (SATA/USB) (PCIe optional, co-layout with Eth4) 1 x Nano SIM slot	1 x PCI Express Mini Card slot with USB interface	1 x PCI Express Mini Card slot (USB interface)
Environment	Operating Temperature Storage Temperature Humidity	0°C to +40°C (+32°F to +104°F) -20°C to +70°C (-4°F to +158°F) 10% - 95% RH, non-condensing	0°C to +40°C (+32°F to +104°F) -20°C to +70°C (-4°F to +158°F) 10% - 95% RH, non-condensing	0°C to +40°C (+32°F to +104°F) -20°C to +70°C (-4°F to +158°F) 10% - 95% RH, non-condensing
Mechanical	Construction Dimensions (W x H x D) Weight (net/gross)	Aluminum 26 x 146 x 118.2 mm (1.24" x 5.57" x 4.65") 0.284 kg (0.63 lb) / 0.786 kg (1.73 lb)	Aluminum 33.5 x 146 x 118.2 mm (1.32" x 5.75" x 4.65") 0.62 kg (1.37 lb)/1.3 kg (2.87 lb)	Iron 44 x 231.9 x 152 mm (1.73" x 9" x 5.98") 2.35 kg (5.18 lb)/2.61 kg (5.75 lb)
OS Support Certifications	Win 10, Yocto, Linux CE/FCC Class B	Win 10, Yocto, Linux CE/FCC Class B	Win 10, Linux CE/FCC Class B	Win7, WES7, Win8, WE8S, Linux CE/FCC Class B

SOHO Network Appliances



Models	NA363	NA362	NA361
Form Factor	1U Desktop	1U Desktop	1U Desktop
Processor	Intel Atom® C3758	Intel Atom® C3338/C3558/C3758	Intel Atom® C2358 (2-core)
Platform	SoC integrated	SoC integrated	SoC integrated
Acceleration Technology	Intel® QAT	Intel® QAT	Intel® QAT
BIOS	AMI SPI Flash BIOS	AMI SPI Flash BIOS	AMI SPI Flash BIOS
Memory	DDR4-2400	DDR4-2400	DDR3-1600
Max. Capacity	64GB (U-DIMM) 128GB (R-DIMM)	64GB (U-DIMM) 128GB (R-DIMM)	16GB
Socket	4 x 288-pin R-DIMM/U-DIMM	2 x 288-pin R-DIMM/U-DIMM (C3338) 4 x 288-pin R-DIMM/U-DIMM (C3558/C3758)	4 x 240-pin U-DIMM
ECC Support	Non-ECC/ECC	Non-ECC/ECC	Non-ECC/ECC
Ethernet (default)	6 x 10/100/1000 Mbps	6 x 10/100/1000 Mbps 2 x 10GbE SFP+ (C3558) 4 x 10GbE SFP+ (C3758)	6 x 10/100/1000 Mbps
Network Interface	6 x 10/100/1000 Mbps	6 x 10/100/1000 Mbps 4 x 10GbE SFP+	6 x 10/100/1000 Mbps
Ethernet (max.)	1 pair (optional)	1 pair (optional)	1 pair (optional)
LAN Bypass	Intel® i210	Intel® i210	Intel® i347 & Intel® i210
LAN Module	N/A	N/A	N/A
Storage	1 x 2.5" HDD	1 x 2.5" HDD	1 x 2.5" HDD
HDD/SSD	N/A	N/A	N/A
M.2 SSD	1 x Full-size mSATA	1 x Full-size mSATA	1 x CompactFlash™
mSATA/CF/CFast	Power Switch	1 x Power Switch 1 x Reset Button	Power Switch
I/O	Power, HDD, GPIO programmable, LAN Bypass, Link/Act with transfer rate	Power, HDD, GPIO programmable, LAN Bypass, Link/Act with transfer rate	Power, HDD, GPIO programmable, LAN Bypass, Link/Act with transfer rate
LED Indicator	2 x USB 2.0	2 x USB 2.0	2 x USB 2.0
USB	1 x Console (RJ-type)	1 x Console (RJ-type)	1 x Console (RJ-type)
Console	N/A	N/A	N/A
LCM Module	N/A	N/A	N/A
Display	N/A	N/A	N/A
TPM	Yes	Yes	Yes
IPMI	N/A	N/A	N/A
Watchdog	255 stepping for system reset 8 stepping for LAN Bypass	255 stepping for system reset 8 stepping for LAN Bypass	255 stepping for system reset 8 stepping for LAN Bypass
Power Supply	Power Type Adapter Watts 60W Input 100 to 240Vac Connector DC-Jack	Adapter 60W/84W 100 to 240Vac DC-Jack	Adapter 60W 100 to 240Vac DC-Jack
Expansion Interface	1 x Full-size Mini PCIe slot (USB+SATA) 1 x Full-size Mini PCIe slot (USB+PCIe)	1 x Full-size Mini PCIe slot (USB+SATA) 1 x Full-size Mini PCIe slot (USB+PCIe)	1 x PCIe Mini Card slot (USB)
Environment	Operating Temperature 0°C to +40°C (+32°F to +104°F) Storage Temperature -20°C to +70°C (-4°F to +158°F) Humidity 10% - 95% RH, non-condensing	0°C to +40°C (+32°F to +104°F) -20°C to +70°C (-4°F to +158°F) 10% - 95% RH, non-condensing	0°C to +40°C (+32°F to +104°F) -20°C to +70°C (-4°F to +158°F) 10% - 95% RH, non-condensing
Mechanical	Construction Iron Dimensions (W x H x D) 44 x 231 x 197 mm (1.73" x 9.09" x 7.76") Weight (net/gross) 1.64 kg (3.62 lb)/2.69 kg (5.93 lb)	Iron 44 x 231 x 197 mm (1.73" x 9.09" x 7.76") 1.64 kg (3.62 lb)/2.69 kg (5.93 lb) (C3338/C3558)	Iron 44 x 231 x 197 mm (1.73" x 9.09" x 7.76") 2.35 kg (5.18 lb)/2.61 kg (5.75 lb)
OS Support	Yocto, Linux	Yocto, Linux	Yocto, Linux
Certifications	CE/FCC Class B	CE/FCC Class B	CE/FCC Class B

DIN-Rail Network Appliances

NEW



Features \ Models		iNA100	iNA600
Form Factor		DIN-Rail, Wall Mount (optional)	DIN-Rail
Processor		Intel Atom® x5-E3930 (Apollo Lake)	LGA1151 Intel® Xeon® (Coffee Lake)
Chipset		SoC integrated	Intel® C246
BIOS		AMI SPI Flash BIOS	AMI SPI Flash BIOS
	Technology	DDR3L-1866	DDR4-2600
Memory	Max Capacity	8GB non-ECC/ECC	32GB non-ECC/ECC
	Socket	1 x 204 pin SO-DIMM	2 x 288 pin U-DIMM
	Switch	N/A	Up to 16 port managed switch
Network Interface	Ethernet	4 x 10/100/1000 Mbps (1-port share with IPMI) Optional 16 x 10/100/1000 Mbps (L2 managed switch)	4 x 10/100/1000 Mbps (1-port share with IPMI) Optional 16 x 10/100/1000 Mbps (L2 managed switch)
Storage		1 x mSATA 1 x 2.5" SSD /HDD	2 x 2.5" SSD 1 x SATA DOM
	Serial	1 x RS-232 1 x RS-232/422/485	1 x RS-232 1 x RS-232/422/485
I/O	USB	2 x USB 3.0	2 x USB 3.0
	Management	N/A	N/A
	Display	1 x HDMI	1 x HDMI and 1 x VGA for Win 10 1 x HDMI or 1x VGA for Linux
Expansion Interface		1 x Half-size PCIe Mini Card slot with SATA/USB signal 1 x Full-size PCIe Mini Card slot with USB signal	1 x Full-size PCIe Mini Card slot with USB /PCIe signal 2 x PCIe slot for riser card expansion
IPMI		N/A	IPMI 2.0
TPM		TPM 2.0	TPM 2.0
Fanless		Yes	Yes
Power Supply		12 VDC	24 VDC
Operating Temperature		-20°C to +60°C (-4°F to +140°F)	0°C to +60°C (+32°F to +140°F)
OS Support		Win 10, Linux	Win 10, Linux
Dimensions (H x W x D)		150 x 54 x 120 mm (5.9" x 2.13" x 4.72")	176 x 214 x 265 mm (6.93" x 8.43" x 10.43")
Certifications		CE/FCC	CE/FCC

Add-on Card

	Module	LAN Chipset	Ports	Copper/Fiber (SFP)	LAN Bypass
1G	AX93316-8GIL	Intel® i350AM4/ Intel® 82580EB	8	8/0	4
	AX93326-8GIL	Intel® i210	8	8/0	4
	AX93316-8GI	Intel® i350AM4/ Intel® 82580EB	8	8/0	0
	AX93322-8MIL	Intel® i350AM4/ Intel® 82580EB	8	4/4	2
	AX93322-8FI	Intel® i350AM4/ Intel® 82580EB	8	0/8	0
	AX93336-4GIL	Intel® i350	4	4/0	2
	AX93336-4GI	Intel® i211	4	4/0	0
	AX93336-4FI	Intel® i350	4	0/4	0
	Module	LAN Chipset	Ports	Copper/Fiber (SFP)	LAN Bypass
10G	AX93316-8GIL	Intel® XL710	4	0/4	0
	AX93326-8GIL	Intel® 82599ES	2	0/2	0
	AX93316-8GI	Intel® 82599ES	2	0/2	1
	AX93322-8MIL	Intel® X540	2	2/0	1
25G	Module	LAN Chipset	Ports	Copper/Fiber (SFP)	LAN Bypass
	AX93332-25FI	Intel® XXV710	2	0/2	0
40G	Module	LAN Chipset	Ports	Copper/Fiber (SFP)	LAN Bypass
	AX93331-20FI	Intel® XL710	2	0/2	0
100G	Module	LAN Chipset	Ports	Copper/Fiber (SFP)	LAN Bypass
	AX93357	Intel® E810	2	0/2	0
	AX93358	Intel® E810	2	0/2	0

100Gbps Modules

PCIe Card - AX93357



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

NIC Module - AX93358



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

PoE Modules

4-port PoE Module - AX93367



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

8-port PoE Module - AX93368



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

RAID Module

AX98626



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



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ASIA

Axiomtek Co., Ltd (HQ)

8F., No.55, Nanxing Road, Xizhi District,
New Taipei City 221, Taiwan

T/ +886-2-8646-2111

F/ +886-2-8646-2555

E/ info@axiomtek.com.tw

Axiomtek Technology Co., Ltd

10F, Block B, Build 6 (Baohui Building),
Baocheng Science & Technology Park,
No.1, Qingxiang Road, Longhua New
District, Shenzhen 518109, P.R. China

T/ +86-0755-66865899

F/ +86-0755-66863068

E/ axcn@axiomtek.com.cn

Axiomtek Japan Co., Ltd.

3F, 1-7-11, Higashi Nihonbashi,
Chuo-Ku, Tokyo
103-0004, Japan

T/ +81-(0)3-6206-0308

E/ info@axiomtek.co.jp

Axiomtek (Malaysia) Sdn. Bhd.

No 16, Jalan Tandang 51/205A,
Seksyen 51, 46050 Petaling Jaya, Selangor,
Malaysia

T/ +603-77733908

F/ +603-77733873

E/ info@axiomtek.com.my

Axiomtek (Thailand) Co., Ltd.

7/17 Moo 6, Tumbol Banmai,
Amphur Pakkret, Nonthaburi,
Thailand 11120

T/ +662-573-4725

F/ +662-573-4726

E/ sales@axiomtek.co.th

USA

Axiomtek

18138 Rowland Street, City of Industry,
CA 91748, USA

T/ +1-626-581-3232

F/ +1-626-581-3552

E/ info@axiomtek.com
sales@axiomtek.com

Regional Sales Office

T/ +1-626-581-3232
Western Region ext. 116
Northeast/Southeast Region ext. 123
North Central Region ext. 189

Axiomtek Systems

300 Griffin Brook Drive, Methuen,
MA 01844, USA

T/ +1-978-258-0108

E/ sales@axiomteksystems.com

EU

Axiomtek Deutschland GmbH

Elisabeth-Selbert-Straße 21a
40764 Langenfeld, Germany

T/ +49-2173-399360

E/ verkauf@axiomtek.eu

Axiomtek UK Limited

Peter House
Oxford Street
Greater Manchester
M1 5AN

T/ +44(0) 1612093680

E/ info@axiomtek.co.uk

Axiomtek Italia S.r.l.

Via Pavia, 21
20835 Muggiò (MB) – Italy

T/ +39-02-664299.1 r.a.

E/ info@axiomtek.it



V117 94300005310E