

integra network

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About us

The Passion of Doing Great Things

Axiomtek, established in 1990, is one of the world's leading designers/manufacturers of embedded industrial computer products. From its origin as a turnkey systems integrator specializing in data acquisition and control systems, Axiomtek has trended with the IIoT evolution by offering intelligent industrial computers and edge computing solutions and value-added services for a variety of mission-critical industries. As a valuable and reliable industrial manufacturer, Axiomtek will continue to offer cutting-edge solutions, value and professional support to assist our customers in achieving their success.

Design Engineering Services

-  **Global Support and Service** In-house manufacturing and system assembly. Global certifications for worldwide product development.
-  **Diverse Industry Experience** Quick innovation on the customized application and fully-integrated simulation technology.
-  **Project Management Service** World-class project managers take ownership of your projects from concept through mass production.
-  **Accelerate Time-to-Market** Utilizes development resources quickly, efficiently, and within budget.

Manufacturing & Logistic Service Center

Axiomtek maintains a solid global network of international subsidiaries and distributors representing our brand in more than 60 countries. Our sales and technical support resources are seamlessly accessible to our customers and channel partners alike through 15 Axiomtek offices located in APAC, Europe, and the USA.

Domain-Focused Solutions

Boosting Your Business's Value



AUTOMATION



RETAIL



GAMING



NETWORK



TRANSPORTATION

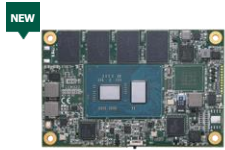


MEDICAL

Ecosystem Partner Collaboration

As an Intel®, Microsoft®, NVIDIA®, NXP, and AMD partner, Axiomtek has ample awareness of market trends and can rapidly develop advanced applications to enhance the competitiveness of our customers. While collaborating closely with some of the leading solution providers- including Basler and SICK on machine vision solutions, LIPS on 3D vision deployment, Allxon on simplification of large-scale AIoT implementation, and AI chipmaker Hailo on a new level of AI solutions- Axiomtek continues to develop and deliver cutting edge products for AIoT applications and serves our key markets with innovative solution packages of hardware and software.

System on Modules



Features\Models	CEM310	CEM311	CEM320	
Form Factor	COM Express® Type 10 Mini	COM Express Type 10 Mini	COM Express Type 10 Mini	
CPU Level	Intel Atom® x7/x5	Intel® Pentium® N4200 or Celeron® N3350	Intel Atom® x6000E Series or Intel® Celeron® N/J Series	
CPU Socket	Onboard	Onboard	Onboard	
Core Logic Chipset	SoC integrated	SoC integrated	SoC integrated	
Memory Type	DDR3L-1866	DDR3L-1866/LPDDR4	LPDDR4-4267	
Max. DRAM Capacity	4GB/8GB	4GB/8GB	8GB/16GB	
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)	eMMC 5.0 up to 64GB (optional)	eMMC 5.1 up to 64GB (optional)	
Onboard GPIO	4-in/4-out	4-in/4-out	4-in/4-out	
I/O	SATA	2 x SATA-600	2 x SATA-600	
	TPM	N/A	N/A	
	Serial	COM 1	TX/RX	TX/RX
		COM 2	TX/RX	TX/RX
		COM 3	N/A	N/A
COM 4		N/A	N/A	
USB	2 x USB 3.0 8 x USB 2.0	2 x USB 3.0 8 x USB 2.0	2 x USB 3.0 8 x USB 2.0	
Display	1 x DDI 1 x LVDS (eDP optional)	1 x DDI 1 x LVDS (eDP optional)	1 x DDI 1 x LVDS (eDP optional)	
Ethernet	1 x 10/100/1000 Mbps	1 x 10/100/1000 Mbps	1 x 10/100/1000/2500 Mbps	
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	4 x PCIe x1	4 x PCIe x1	
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: -20°C to +70°C (-4°F to +158°F)	Industrial: -40°C to +85°C (-40°F to +185°F) Standard: -20°C to +70°C (-4°F to +158°F)	
Relative Humidity	10% to 95%, non-condensing	10% to 95%, non-condensing	10% to 95%, non-condensing	
EMI Compliance	CE	CE	CE	

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



Features\Models	CEM130	CEM521	CEM530	
Form Factor	COM Express Type 6 Compact	COM Express Type 6 Compact	COM Express Type 6 Compact	
CPU Level	AMD Ryzen™ Embedded V1000	8th gen Intel® Core™ or Celeron® 4305UE	Intel® Xeon® or 9th/8th gen Intel® Core™	
CPU Socket	Onboard	Onboard	Onboard	
Core Logic Chipset	SoC integrated	SoC integrated	Intel® CM246/Intel® QM370	
Memory Type	DDR4-2400/3200	DDR4-2400	DDR4-2666	
Max. DRAM Capacity	32GB (dual channel)	64GB	64GB (96GB optional)	
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	N/A	eMMC 5.1 up to 64GB (optional)	N/A	
Onboard GPIO	4-in/4-out	4-in/4-out	4-in/4-out	
I/O	SATA	2 x SATA-600	3 x SATA-600	
	TPM	TPM 2.0	TPM 2.0	
	Serial	COM 1	TX/RX	TX/RX
		COM 2	TX/RX	TX/RX
		COM 3	N/A	N/A
COM 4		N/A	N/A	
USB	3 x USB 3.0 8 x USB 2.0	4 x USB 3.0 8 x USB 2.0	4 x USB 3.0 8 x USB 2.0	
Display	1 x LVDS (eDP 1.3 optional) 1 x VGA 2 x DDI (supports HDMI 1.4/DVI/DisplayPort 1.2*) *HDMI 2.0/DisplayPort 1.4 needs Redriver chip on carrier board	1 x LVDS (eDP 1.4 optional) 1 x VGA (default) 1 x DDI	1 x LVDS (eDP 1.4 optional) 1 x VGA (default) 1 x DDI	
Ethernet	1 x 10/100/1000 Mbps	1 x 10/100/1000 Mbps	1 x 10/100/1000 Mbps	
Audio	Codec on baseboard	Codec on baseboard	Codec on baseboard	
Hardware Monitoring	Yes	Yes	Yes	
SMBus	Yes	Yes	Yes	
Expansion Interface	7 x PCIe x1 via PCIe bridge	8 x PCIe x1 Gen3	1 x PCIe x16 Gen3 8 x PCIe x1 Gen3	
Power Management	ACPI	ACPI	ACPI	
Operating Temperature	-20°C to +60°C (-4°F to +140°F)	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)	
Relative Humidity	10% to 95%, non-condensing	10% to 95%, non-condensing	10% to 95%, non-condensing	
EMI Compliance	CE	CE	CE	

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System on Modules



Features\Models	CEM561	CEM710		
Form Factor	COM Express Type 6 Compact	COM Express® Type 7 Basic		
CPU Level	13th/12th gen Intel® Core™ or Celeron®	Intel® Xeon® D-1700 LCC		
CPU Socket	Onboard	Onboard		
Core Logic Chipset	SoC integrated	SoC integrated		
Memory Type	DDR4-3200	DDR4-2666		
Max. DRAM Capacity	64GB	64GB (128GB optional)		
Cache RAM Capacity	SoC integrated	SoC integrated		
BIOS	AMI UEFI BIOS (legacy free)	AMI UEFI BIOS (legacy free)		
Watchdog Timer	65536 levels, 0 to 65535 sec.	65536 levels, 0 to 65535 sec.		
Onboard Storage	NVMe up to 512GB (optional)	N/A		
Onboard GPIO	4-in/4-out	4-in/4-out		
SATA	3 x SATA-600	2 x SATA-600		
TPM	TPM 2.0	TPM 2.0		
I/O	Serial	COM 1	TX/RX	TX/RX
		COM 2	TX/RX	TX/RX
		COM 3	N/A	N/A
		COM 4	N/A	N/A
USB	4 x USB 3.0 8 x USB 2.0	4 x USB 3.0 4 x USB 2.0		
Display	1 x LVDS (eDP 1.4 optional) 1 x VGA (default) 2 x DDI	N/A		
Ethernet	1 x 10/100/1000/2500 Mbps	1 x 10/100/1000/2500 Mbps		
Audio	Codec on baseboard	Codec on baseboard		
Hardware Monitoring	Yes	Yes		
SMBus	Yes	Yes		
Expansion Interface	8 x PCIe x1 Gen3	1 x PCIe x16 Gen3 1 x PCIe x8 Gen3 8 x PCIe x1 Gen2		
Power Management	ACPI	ACPI		
Operating Temperature	Industrial: -40°C to +85°C (-40°F to +185°F) Standard: 0°C to +60°C (32°F to +140°F)	0°C to +70°C (+32°F to +158°F)		
Relative Humidity	10% to 95%, non-condensing	10% to 95%, non-condensing		
EMI Compliance	CE	CE		

Small Form Factor Embedded Boards



Features\Models	KIWI330	KIWI310	
Form Factor	75 x 56 mm (smaller than 1.8")	85 x 56 mm (1.8")	
CPU Level	Intel® processor N-series	Intel® Celeron® N3350	
CPU Socket	Onboard	Onboard	
Core Logic Chipset	SoC integrated	SoC integrated	
Memory Type	LPDDR5	LPDDR4	
Max. DRAM Capacity	16GB	4GB	
Cache RAM Capacity	Integrated in CPU	Integrated in CPU	
BIOS	AMI	AMI	
Watchdog Timer	255 levels, 1 to 255 sec	255 levels, 1 to 255 sec	
SSD	1 x BGA NVMe (default 64GB, up to 512GB)	N/A	
Digital I/O	N/A	N/A	
I/O	SATA	N/A	N/A
	Serial	TX/RX	TX/RX
	USB	2 x USB 3.2 2 x USB 3.2 2 x USB 2.0	2 x USB 3.2 2 x USB 2.0
SIM Card Slot	N/A	N/A	
Display	2 x DisplayPort (Type C) 1 x eDP (small size connector)	1 x Micro HDMI	
Ethernet	N/A	1 x 10/100/1000 Mbps Ethernet	
Audio	N/A	N/A	
Hardware Monitoring	Yes	Yes	
SMBus	N/A	N/A	
Expansion Interface	1 x M.2 Key E	1 x M.2 Key E	
Power Management	ACPI	ACPI	
Operating Temperature	0°C to +60°C (+32° F to +140° F)	0°C to +60°C (+32° F to +140° F)	
Relative Humidity	10% to 95%, non-condensing	10% to 95%, non-condensing	
EMI Compliance	CE	CE	

Pico-ITX SBCs



Features\Models	PICO52R	PICO316	PICO317	
Form Factor	Pico-ITX	Pico-ITX	Pico-ITX	
CPU Level	8th gen Intel® Core™ i7/i5/i3 or Celeron®	Intel® Pentium® N4200 or Celeron® N3350/J455	Intel Atom® x5-E3940	
CPU Socket	Onboard	Onboard	Onboard	
Core Logic Chipset	SoC integrated	SoC integrated	SoC integrated	
Memory Type	DDR4-2400	DDR3L-1867	DDR3L-1867	
Max. DRAM Capacity	32GB	8GB	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	64GB eMMC (optional)	1 x mSATA (optional)	1 x mSATA (optional)	
Digital I/O	4-CH in/out programmable	N/A	N/A	
I/O	SATA	1 x SATA-600	1 x SATA-600	
	Serial	COM 1	RS-232/422/485	RS-232
		COM 2	RS-232/422/485	RS-232
USB	2 x USB 3.2 2 x USB 2.0	3 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 HDMI 1 x LVDS	1 x HDMI 1 x LVDS	1 x HDMI 1 x LVDS	
Ethernet	2 x 10/100/1000 Mbps	1 x 10/100/1000 Mbps	1 x 10/100/1000 Mbps	
Audio	N/A	HD codec	HD codec	
Hardware Monitoring	Yes	Yes	Yes	
SMBus	Yes	Yes	Yes	
Expansion Interface	1 x M.2 Key E 2230	1 x Full-size PCIe Mini Card slot	1 x Full-size PCIe Mini Card slot	
Power Management	ACPI	ACPI	ACPI	
Battery	Lithium	Lithium	Lithium	
Operating Temperature	-20°C to +60°C (-4°F to +140°F)	-20°C to +60°C (-4°F to +140°F)	-40°C to +70°C (-40°F to +158°F)	
Relative Humidity	10% to 95%, non-condensing	10% to 95%, non-condensing	10% to 95%, non-condensing	
EMI Compliance	CE	CE	CE	

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Features\Models	PICO318	PICO319	
Form Factor	Pico-ITX	Pico-ITX	
CPU Level	Intel® Pentium® N4200 or Celeron® N3350/J455	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 2242/3042 1 x mSATA (optional)	1 x M.2 Key B 2242/3042 1 x mSATA (optional)	
Digital I/O	4-CH in/out programmable	4-CH in/out programmable	
I/O	SATA	N/A	
	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	2 x 10/100/1000 Mbps	
Audio	HD codec	HD codec	
Hardware Monitoring	Yes	Yes	
SMBus	Yes	Yes	
Expansion Interface	1 x Half-size PCIe Mini Card slot	1 x Half-size PCIe Mini Card slot	
Power Management	ACPI	ACPI	
Battery	Lithium	Lithium	
Operating Temperature	-20°C to +60°C (-4°F to +140°F)	-40°C to +70°C (-40°F to +158°F)	
Relative Humidity	10% to 95%, non-condensing	10% to 95%, non-condensing	
EMI Compliance	CE	CE	

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3.5" Embedded Boards

NEW



Features\Models	CAPA561	CAPA55R	CAPA322	
Form Factor	3.5"	3.5"	3.5"	
CPU Level	12th gen Intel® Core™ i7/i5/i3 or Celeron® processor	11th gen Intel® Core™ i7/i5/i3 or Celeron®	Intel® Celeron® N6210/i6412 or Intel Atom® x6413E	
CPU Socket	LGA1700	Onboard	Onboard	
Core Logic Chipset	SoC integrated	SoC integrated	SoC integrated	
Memory Type	DDR5-4800	DDR4-3200	DDR4-3200	
Max. DRAM Capacity	64GB	64GB	32GB	
Cache RAM Capacity	Integrated in CPU	Integrated in CPU	Integrated in CPU	
BIOS	AMI UEFI BIOS	AMI UEFI BIOS	AMI UEFI BIOS	
Watchdog Timer	256 Levels, 0 to 255 sec.	65536 Levels, 0 to 65535 sec.	65536 Levels, 0 to 65535 sec.	
SSD	1 x M.2 Key M	1 x M.2 Key M (NVMe)	1 x mSATA 1 x M.2 Key B (optional)	
Digital I/O	8-CH in/out programmable	8-CH in/out programmable	8-CH in/out programmable	
I/O	SATA	1 x SATA-600	1 x SATA-600	
	Serial	COM 1	RS-232/422/485	RS-232/422/485
		COM 2	RS-232/422/485	RS-232/422/485
		COM 3	N/A	N/A
		COM 4	N/A	RS-232
USB	4 x US B 3.2 (2 x Type A + 2 x Type C) 2 x USB 2.0	3 x USB 3.2 4 x USB 2.0	2 x USB 3.2 4 x USB 2.0	
Display	2 x HDMI 2 x DisplayPort in USB Type C 1 x eDP	1 x DisplayPort++ 1 x HDMI 1 x LVDS 1 x eDP (optional)	1 x DisplayPort 1 x HDMI 1 x LVDS 1 x eDP (optional)	
Ethernet	2 x 10/100/1000/2500 Mbps 1 x 10/100/1000 Mbps	1 x 10/100/1000 Mbps 1 x 10/100/1000/2500 Mbps	2 x 10/100/1000/2500 Mbps	
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 1 x M.2 Key B	1 x M.2 Key E 1 x M.2 Key B	1 x M.2 Key E 1 x M.2 Key B 1 x PCIe Mini card (optional)	
Power Management	ACPI	ACPI	ACPI	
Battery	Lithium	Lithium	Lithium	
Operating Temperature	-20°C to +60°C (-4°F to +140°F)	-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% to 95%, non-condensing	10% to 95%, non-condensing	10% to 95%, non-condensing	
EMI Compliance	CE	CE	CE	

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



Features\Models	CAPA13R	CAPA13S		
Form Factor	3.5"	3.5"		
CPU Level	AMD® RYZEN™ Embedded V1807B or V1605B APU	AMD® RYZEN™ Embedded V1807B or V1605B APU		
CPU Socket	Onboard	Onboard		
Core Logic Chipset	SoC integrated	SoC integrated		
Memory Type	DDR4-3200/2400	DDR4-3200/2400		
Max. DRAM Capacity	16GB	16GB		
Cache RAM Capacity	Integrated in CPU	Integrated in CPU		
BIOS	AMI UEFI BIOS	AMI UEFI BIOS		
Watchdog Timer	256 Levels, 0 to 255 sec.	256 Levels, 0 to 255 sec		
SSD	1 x M.2 Key B	1 x M.2 Key B		
Digital I/O	8-CH in/out programmable	8-CH in/out programmable		
I/O	SATA	1 x SATA-600	1 x SATA-600	
	Serial	COM 1	RS-232/422/485	RS-232/422/485
		COM 2	RS-232	RS-232
		COM 3	N/A	N/A
		COM 4	N/A	N/A
USB	2 x USB 3.2 2 x USB 2.0	2 x USB 3.2 2 x USB 2.0		
Display	1 x DisplayPort++ 2 x HDMI 1 x LVDS	1 x DisplayPort++ 2 x HDMI 1 x eDP		
Ethernet	2 x 10/100/1000 Mbps 2 x 10/100/1000 Mbps (optional)	2 x 10/100/1000 Mbps 1 x 10/100/1000 Mbps (optional)		
Audio	HD audio link	HD Codec		
Hardware Monitoring	Yes	Yes		
SMBus	Yes	Yes		
Expansion Interface	1 x M.2 Key E	1 x M.2 Key E		
Power Management	ACPI	ACPI		
Battery	Lithium	Lithium		
Operating Temperature	-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		
EMI Compliance	CE	CE		

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

Mini-ITX Motherboards

NEW



Features/Models	MANO566	MANO561	MANO560	
Form Factor	Mini-ITX	Mini-ITX	Mini-ITX	
CPU Level	12th gen Intel® Core™ i7/i5/i3, Pentium® or Celeron®	12th gen Intel® Core™ i9/i7/i5/i3, Pentium® or Celeron®	12th gen Intel® Core™ i9/i7/i5/i3, Pentium® or Celeron®	
CPU Socket	LGA1700	LGA1700	LGA1700	
Core Logic Chipset	Intel® Q670E	Intel® H610	Intel® H610	
Memory Type	DDR4-3200	Integrated in CPU	DDR4-3200/2666/2400	
Max. DRAM Capacity	64GB	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	1 x M.2 Key M in support of NVMe	1 x M.2 Key B	1 x M.2 Key B	
Digital I/O	8-CH in/out	8-CH in/out	8-CH in/out	
SATA	2 x SATA-600	1 x SATA-600	1 x SATA-600	
I/O	Serial	COM 1	RS-232/422/485	RS-232/422/485
		COM 2	RS-232/422/485	RS-232
		COM 3	RS-232/422/485	RS-232
		COM 4	RS-232/422/485	RS-232
		COM 5	N/A	N/A
		COM 6	N/A	N/A
USB	USB	4 x USB 3.2 4 x USB 2.0	2 x USB 3.2 Gen1 5 x USB 2.0	2 x USB 3.2 Gen1 5 x USB 2.0
		Display	1 x DisplayPort+++ 2 x HDMI 1 x eDP	2 x HDMI 1 x LVDS 1 x VGA
Ethernet	2 x 10/100/1000/2500 Mbps	1 x 2500/1000/100/10 Mbps 1 x 1000/100/10 Mbps	1 x 2500/1000/100/10 Mbps 1 x 1000/100/10 Mbps	
Audio	HD codec	HD codec	HD codec	
Hardware Monitoring	Yes	Yes	Yes	
Expansion Interface	1 x PCIe x16 1 x M.2 Key M 2280 1 x M.2 Key E 2230 1 x M.2 Key B 3052/3042	1 x PCIe x16 1 x M.2 Key B 1 x M.2 Key E 2230 1 x PCIe Mini Card slot	1 x PCIe x16 1 x M.2 Key B 1 x M.2 Key E 2230 1 x PCIe 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	



Features/Models	MANO540	MANO526	MANO522	MANO321		
Form Factor	Mini-ITX	Mini-ITX	Mini-ITX	Mini-ITX		
CPU Level	10th gen Intel® Core™ i9/i7/i5/i3, Pentium® or Celeron®	9th/8th gen Intel® Core™ i7/i5/i3, Pentium® or Celeron®	9th/8th gen Intel® Core™ i7/i5/i3	Intel® Celeron® J6412		
CPU Socket	FCLGA1200	LGA1151	LGA1151	Onboard		
Core Logic Chipset	Intel® H410	Intel® Q370	Intel® H310	SoC integrated		
Memory Type	DDR4-2933/2666/2400	DDR4-2400/2666	DDR4-2666/2400	DDR4-3200/2666/2400		
Max. DRAM Capacity	64GB	32GB	64GB	32GB		
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 255sec.	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.		
SSD	1 x M.2 Key B	1 x M.2 Key M	1 x mSATA	1 x mSATA		
Digital I/O	8-CH in/out	8-CH in/out	8-CH in/out	8-CH in/out		
SATA	2 x SATA-600	2 x SATA-600	2 x SATA-600	2 x SATA-600		
I/O	Serial	COM 1	RS-232/422/485	RS-232/422/485	RS-232/422/485	
		COM 2	RS-232/422/485	RS-232	RS-232	RS-232/422/485
		COM 3	RS-232	RS-232	RS-232	RS-232/422/485
		COM 4	RS-232	RS-232	RS-232	RS-232/422/485
		COM 5	RS-232	RS-232	RS-232	N/A
		COM 6	RS-232	RS-232	RS-232	N/A
USB	USB	2 x USB 3.2 Gen1 5 x USB 2.0	4 x USB 3.0 4 x USB 2.0	4 x USB 3.2 2 x USB 2.0	4 x USB 3.2 4 x USB 2.0	
		Display	1 x VGA 1 x HDMI 1 x DisplayPort+++ 1 x eDP	1 x VGA 1 x DisplayPort+++ 1 x eDP	1 x VGA 1 x HDMI 1 x LVDS; 18/24-bit single/dual channel	2 x HDMI 1 x DisplayPort+++ 1 x eDP
Ethernet	2 x 10/100/1000 Mbps	2 x 10/100/1000 Mbps	2 x 10/100/1000 Mbps	2 x 10/100/1000/2500 Mbps		
Audio	HD codec	HD codec	HD codec	HD codec		
Hardware Monitoring	Yes	Yes	Yes	Yes		
Expansion Interface	1 x PCIe x16 1 x M.2 Key B 1 x M.2 Key E 2230 1 x PCIe Mini Card slot	1 x M.2 Key E 1 x PCIe x16	1 x PCIe x16 1 x M.2 Key E 2230	1 x PCIe x4 1 x M.2 Key B 1 x PCIe Mini Card slot		
Power Management	ACPI	ACPI	ACPI	ACPI		
Battery	Lithium	Lithium	Lithium	Lithium		
Operating Temperature	0°C to +60°C (+32°F to +140°F)	0°C to +60°C (+32°F to +140°F)	0°C to +60°C (+32°F to +140°F)	0°C to +60°C (+32°F to +140°F)		
Relative Humidity	10% to 95%, non-condensing	10% to 95%, non-condensing	10% to 95%, non-condensing	10% to 95%, non-condensing		
EMI Compliance	CE	CE	CE	CE		

ATX Motherboards

NEW



Features\Models	IMB541	IMB540	IMB530
Form Factor	ATX	ATX	ATX
CPU Level	12th gen Intel® Core™ i9/i7/i5/i3, Pentium® or Celeron®	12th gen Intel® Core™ i9/i7/i5/i3, Pentium® or Celeron®	10th gen Intel® Core™ i9/i7/i5/i3, Xeon® E, Pentium® or Celeron®
CPU Socket	LGA1700	LGA1700	LGA1200
Core Logic Chipset	Intel® Q670E	Intel® R680E	Intel® W480E
Memory Type	DDR4-3200	DDR4-3200	DDR4-2933
Max. DRAM Capacity	128GB	128GB	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-CH in/out programmable	8-CH in/out programmable	8-CH in/out programmable
SATA	4 x SATA-600	4 x SATA-600	4 x SATA-600
Serial	COM 1	1 x RS-232 (rear I/O)	2 x RS-232 (internal box header)
	COM 2	3 x RS-232 (internal box header)	2 x RS-232 (internal box header)
	COM 3	1 x RS-232/422/485 (internal box header)	2 x RS-232/422/485 (rear I/O)
	COM 4	1 x RS-232/485 (internal box header)	2 x RS-232/422/485 (rear I/O)
I/O	COM 5	N/A	N/A
	COM 6	N/A	N/A
USB	6 x USB 3.2 Gen1x1 (5Gbps, rear I/O) 2 x USB 2.0 (rear I/O) 2 x USB 3.2 Gen1x1 (5Gbps, internal box header) 4 x USB 2.0 (internal pin header) 1 x USB 2.0 (internal 180D Type A)	4 x USB 3.2 Gen2x1 2 x Dual USB3.2 Gen1x1 4 x USB 2.0 1 x USB 2.0 Type A	2 x USB 3.2 Gen2 4 x USB 3.2 Gen1 8 x USB 2.0
SIM Card Slot	N/A	SIM with PCIe Mini Card slot	N/A
Display	1 x VGA 1 x HDMI 1.4b 1 x DVI-D	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	1 x 10/100/1000/2500 Mbps 1 x 10/100/1000 Mbps	1 x 10/100/1000/2500 Mbps 1 x 10/100/1000 Mbps	2 x 10/100/1000 Mbps
Audio	HD codec	HD codec	HD codec
Hardware Monitoring	Yes	Yes	Yes
SMBus	Yes	Yes	Yes
Expansion Interface	1 x PCIe Gen4 x16 4 x Open-ended PCIe x4 1 x M.2 Key B 2230 1 x PCI	2 x PCIe x16 3 x PCIe x4 2 x PCI 1 x PCIe Mini Card slot	2 x PCIe x16 3 x PCIe x4 1 x PCIe x4 with PCIe x1 signal 1 x PCI
Power Management	ACPI	ACPI	ACPI
Battery	Lithium	Lithium	Lithium
Operating Temperature	0°C to +60°C (+32°F to +140°F)	0°C to +60°C (+32°F to +140°F)	0°C to +60°C (+32°F to +140°F)
Relative Humidity	10% to 95% relative humidity, non-condensing	10% to 95%, non-condensing	10% to 95%, non-condensing
EMI Compliance	CE	CE	CE

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



Features\Models	IMB700	IMB520R	IMB523R
Form Factor	ATX	ATX	ATX
CPU Level	3rd gen Intel® Xeon® Scalable processors	9th/8th gen Intel® Core™ i7/i5/i3, Pentium® or Celeron®	9th/8th gen Intel® Core™ i7/i5/i3, Pentium® or Celeron®
CPU Socket	LGA4189	LGA1151	LGA1151
Core Logic Chipset	Intel® C621A	Intel® Q370	Intel® Q370
Memory Type	DDR4-3200	DDR4-2400/2666	DDR4-2666/2400
Max. DRAM Capacity	384GB	128GB	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-CH in/out programmable	8-CH in/out programmable	8-CH in/out programmable
SATA	6 x SATA-600	4 x SATA-600	5 x SATA-600
Serial	COM 1	RS-232/422/485	RS-232/422/485
	COM 2	N/A	RS-232/422/485
	COM 3	N/A	RS-232
	COM 4	N/A	RS-232
I/O	COM 5	N/A	RS-232
	COM 6	N/A	RS-232
USB	4 x USB 3.1 Gen1 (rear I/O) 2 x USB 3.1 Gen1 (internal box header) 6 x USB 2.0 (internal box header) 1 x USB 2.0 (180D Type A)	2 x USB 3.1 Gen2 4 x USB 3.1 Gen1 7 x USB 2.0	2 x USB 3.1 Gen2 4 x USB 3.1 Gen1 7 x USB 2.0
SIM Card Slot	N/A	N/A	Yes
Display	1 x VGA	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	2 x 10/100/1000 Mbps	2 x 10/100/1000 Mbps
Audio	HD codec	HD codec	HD codec
Hardware Monitoring	Yes	Yes	Yes
SMBus	Yes	Yes	Yes
Expansion Interface	3 x PCIe x16 3 x PCIe x8 1 x M.2 key M 2280	1 x PCIe x16 4 x PCIe x4 1 x PCIe x1 1 x PCI	1 x PCIe x16 2 x PCIe x4 4 x PCI 1 x PCIe 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

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ATX Motherboards



Features\Models	IMB524R	IMB525R		
Form Factor	ATX	ATX		
CPU Level	9th/8th gen Intel® Core™ i7/i5/i3, Pentium® or Celeron®	9th/8th gen Intel® Core™ i7/i5/i3, Xeon® E, Pentium® or Celeron®		
CPU Socket	LGA1151	LGA1151		
Core Logic Chipset	Intel® H310	Intel® C246		
Memory Type	DDR4-2666/2400	DDR4-2666/2400		
Max. DRAM Capacity	64GB	128GB		
Cache RAM Capacity	Integrated in CPU	Integrated in CPU		
BIOS	AMI	AMI		
Watchdog Timer	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.		
Digital I/O	8-CH in/out programmable	8-CH in/out programmable		
I/O	SATA	4 x SATA-600	5 x SATA-600	
	Serial	COM 1	RS-232/422/485	RS-232/422/485
		COM 2	RS-232/422/485	RS-232/422/485
		COM 3	RS-232	RS-232
		COM 4	RS-232	RS-232
		COM 5	RS-232	RS-232
		COM 6	RS-232	RS-232
USB	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		
Display	1 x VGA 1 x DVI-D 1 x HDMI	1 x VGA 1 x DVI-D 1 x HDMI		
	1 x DisplayPort++	1 x DisplayPort++		
Ethernet	2 x 10/100/1000 Mbps	2 x 10/100/1000 Mbps		
Audio	HD codec	HD codec		
Hardware Monitoring	Yes	Yes		
SMBus	Yes	Yes		
Expansion Interface	1 x PCIe x16 2 x PCIe x1 w/PCIe x1 signal 4 x PCI	1 x PCIe x16 2 x PCIe x4 4 x PCI		
	1 x PCIe Mini Card slot	1 x PCIe Mini Card slot		
Power Management	ACPI	ACPI		
Battery	Lithium	Lithium		
Operating Temperature	0°C to +60°C (+32°F to +140°F)	0°C to +60°C (+32°F to +140°F)		
Relative Humidity	10% to 95%, non-condensing	10% to 95%, non-condensing		
EMI Compliance	CE	CE		

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EATX Motherboard



Features\Models	IMB760		
Form Factor	EATX		
CPU Level	Dual 3rd gen Intel® Xeon® Scalable processors (Ice Lake SP)		
CPU Socket	LGA4189		
Core Logic Chipset	Intel® C627A		
Memory Type	DDR4-3200		
Max. DRAM Capacity	1TB		
Cache RAM Capacity	Integrated in CPU		
BIOS	AMI		
Watchdog Timer	255 levels, 1 to 255 sec.		
Digital I/O	8-CH in/out programmable		
I/O	SATA	8 x SATA-600	
	Serial	COM 1	RS-232/422/485
		COM 2	N/A
		COM 3	N/A
		COM 4	N/A
		COM 5	N/A
		COM 6	N/A
USB	4 x USB 3.2 Gen1 (rear I/O) 2 x USB 3.2 Gen1 (internal box header) 4 x USB 2.0 (internal box header) 2 x USB 2.0 (180D Type A)		
SIM Card Slot	N/A		
Display	1 x VGA		
Ethernet	1 x IPMI LAN via Intel® I210-AT (shared with BMC AST2500) 2 x 10GbE (Intel® X550-AT2)		
Audio	N/A		
Hardware Monitoring	Yes		
SMBus	Yes		
Expansion Interface	4 x PCIe x16 2 x PCIe x8		
Power Management	ACPI		
Battery	Lithium		
Operating Temperature	10°C to +35°C (+50°F to +95°F)		
Relative Humidity	10% to 95%, non-condensing		
IPMI	ASPEED AST2500 BMC		

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Slot CPU Cards

NEW



Features\Models	SHB160	SHB150R	SHB250R
Form Factor	PICMG 1.3	PICMG 1.3	PICMG 1.3
CPU Level	12th gen Intel® Core™ i7/i5/i3, Pentium® or Celeron®	9th/8th gen Intel® Core™ i7/i5/i3, Xeon® E, Pentium® or Celeron®	9th/8th gen Intel® Core™ i7/i5/i3, Xeon® E, Pentium® or Celeron®
CPU Socket	LGA1700	LGA1151	LGA1151
Core Logic Chipset	Intel® R680E/Q670E	Intel® C246/Q370/H310	Intel® C246/Q370/H310
Memory Type	DR5-4400	DDR4-2666/2400	DDR4-2666/2400
Max. DRAM Capacity	128GB	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	M.2 Key M 2280 with PCIe 4.0 x4 signal	M.2 Key M 2280 with PCIe x4 signal (Intel® C246/Q370)	M.2 Key M 2242
Digital I/O	N/A	N/A	N/A
IDE	N/A	N/A	N/A
SATA	6 x SATA-600 in support of RAID 0/1/5/10	Intel® C246/Q370: 6 x SATA-600 in support of RAID 0/1/5/10 Intel® H310: 2 x SATA-600	Intel® C246/Q370: 2 x SATA-600 in support of RAID 0/1 Intel® H310: 2 x SATA-600
FDD	N/A	N/A	N/A
LPT	1 x LPT	1 x LPT	N/A
I/O	COM 1	RS-232/422/485	RS-232/422/485
	COM 2	RS-232/422/485	RS-232/422/485
	COM 3	RS-232	RS-232
	COM 4	RS-232	N/A
	COM 5	N/A	N/A
	COM 6	N/A	N/A
USB	2 x USB 3.2 Gen2x1 4 x USB 3.2 Gen1x1 7 x USB 2.0	Intel® C246/Q370: 2 x USB 3.1 Gen2 4 x USB 3.1 Gen1 & 6 x USB 2.0 Intel® 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 DisplayPort (internal header)	1 x DVI-I 1 x DisplayPort++	1 x DVI-I 1 x DisplayPort++
Ethernet	2 x 10/100/1000/2500 Mbps	2 x 10/100/1000 Mbps	2 x 10/100/1000 Mbps
Audio	HD codec	HD codec	HD codec
Hardware Monitoring	Yes	Yes	Yes
SMBus	Yes	Yes	Yes
Expansion Interface	1 x PCIe x16, 1 x PCIe x4 or 4 x PCIe x1 4 x PCI	1 x PCIe x16 1 x PCIe x4 or 4 x PCIe x1 4 x PCI	1 x PCIe x16 1 x PCIe x4 or 4 x PCIe x1 4 x PCI
Power Management	ACPI	ACPI	ACPI
Battery	Lithium	Lithium	Lithium
Operating Temperature	0°C to +60°C (+32°F to +140°F)	0°C to +60°C (+32°F to +140°F)	0°C to +60°C (+32°F to +140°F)
Relative Humidity	10% to 95%, non-condensing	10% to 95%, non-condensing	10% to 95%, non-condensing
EMI Compliance	CE	CE	CE

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ARM-based Embedded Boards



Features\Models	Q7M120	SCM120	SCM186
Form Factor	Qseven v2.0	SMARC v1.0	SMARC v2.0
CPU Level	ARM Cortex™-A9 CPU 800 MHz/1 GHz	ARM Cortex™-A9 CPU 800 MHz	Quad ARM Cortex A53 CPU i.MX 8M Plus 800 MHz, NPU up to 2.3 TOPS/1.8GHz
CPU Socket	Onboard	Onboard	Onboard
Core Logic Chipset	SoC integrated	SoC integrated	SoC integrated
Memory Type	DDR3-1600 onboard	DDR3-1600 onboard	LPDDR4 onboard
Max. DRAM Capacity	1GB	1GB	2GB/4GB
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 4GB	eMMC flash 4GB	eMMC flash 8GB/16GB SDIO3.0 interface
Digital I/O	8 x GPIO	8 x GPIO	12 x GPIO
TPM	N/A	N/A	TPM2.0 (optional)
I/O Interface	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 I ² S 2x CAN bus 4 x I ² C 3 x I ² C 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	2 1x PCIe Gen3 x1 2 x USB 2.0 x USB 3.2 Gen1 1x OS flash 2 x I ² S 2x CAN bus 3 x I ² C 2 x COM (TX/RX/RTS/CTS) 1 x COM (TX/RX) for debug console 1 x HDMI 1 x SPI 1 x QSPI 1 x Dual-channel 24-bit LVDS 1 x MIPI-CSI 4-lane 1 x MIPI-CSI 2-lane 1 x SDIO3.0 interface
Ethernet	1 x 10/100/1000 Mbps	1 x 10/100/1000 Mbps	1 x 10/100/1000 Mbps
Power Input	+5V ± 5% DC-in	+5V ± 5% DC-in	+5V ± 5% DC-in
OS	Yocto (Linux Kernel 5.10)	Yocto (Linux Kernel 5.10)	Yocto 3.3 (Linux Kernel 5.10.35)
Operating Temperature	-40°C to +85°C (-40°F to +185°F)	-40°C to +85°C (-40°F to +185°F)	0°C to +70°C (-32°F to +158°F)
Relative Humidity	10% to 95%, non-condensing	10% to 95%, non-condensing	10% to 95%, non-condensing

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ARM-based Embedded Boards



Features/Models	SCM188	SCM187	SCB184
Form Factor	SMARC v2.1	SMARC v2.1	3.5", 146 x 102 mm ready-to-use SMARC baseboard
CPU Level	Quad ARM Cortex A53 CPU i.MX 8M Plus 800 MHz, NPU up to 2.3 TOPS/1.6GHz	Quad ARM Cortex A53 CPU i.MX 8M Mini 400 MHz up to 1.8GHz	Depends on connected SMARC Module
CPU Socket	Onboard	Onboard	Depends on connected SMARC Module
Core Logic Chipset	SoC integrated	SoC integrated	Depends on connected SMARC Module
Memory Type	LPDDR4 on board	LPDDR4 onboard	Depends on connected SMARC Module
Max. DRAM Capacity	2GB	2GB/4GB	Depends on connected SMARC Module
RTC	Battery on the baseboard is required	Battery on the baseboard is required	1 x RTC-Battery (CR2032)
Watchdog Timer	255 levels, 1 to 255 sec./min.	255 levels, 1 to 255 sec./min.	Depends on connected SMARC Module
Storage	eMMC flash 16GB SDIO3.0 interface	eMMC flash 8GB SDIO3.0 interface	1 x Micro SD Card slot
Digital I/O	14 x GPIO	14 x GPIO	10 x GPIO
TPM	TPM2.0 (optional)	TPM2.0 (optional)	TPM2.0 (optional)
I/O Interface	2 2 3 1x PCIe Gen3 x1 2 x USB 2.0 x USB 3.2 Gen1 1x OS Flash 2 x I ² S x CANBus x I ² C 2 x COM (TX/RX/RTS/CTS) 1 x COM (TX/RX) for debug console 1 x HDMI 1 x SPI 1 x QSPI 1 x Dual-channel 24-bit LVDS 1 x MIPI-CSI 4-lane 1 x MIPI-CSI 2-lane 1 x SDIO3.0 interface	1 x PCIe Gen2 x1 3 x USB 2.0 1x OS Flash 1 x I ² S 2x CAN bus 3 x I ² C 1 x Dual-channel 24-bit LVDS 1 x MIPI-CSI 4-lane 1 x SDIO3.0 interface	Internal I/O 1 x PCIe x4 Slot 2 x USB 2.0 1 x Line In/Line Out 2 x CAN bus 2 x I ² C 1 x SPI 1 x QSPI 1 x Dual-channel LVDS 1 x SIM Card slot 1 x M.2 Key B 3052 slot for 5G module 1 x SATA for SATA III 1 x SATA power 1 x Fan control External I/O 1 x Micro SD Card slot 4 x USB 3.2 Gen1 1 x OS flash 1 x DB9 for RS-232/RS-485 1 x DB9 for RS-232 1 x HDMI 1 x DisplayPort 1 x Reset button 1 x Lockable DC Jack
Ethernet	2 x 10/100/1000 Mbps	1 x 10/100/1000 Mbps	2 x 10/100/1000 Mbps
Power Input	+5V ± 5% DC-in	+5V ± 5% DC-in	+12V to +24V DC-in
OS	Yocto 4.0 (Linux Kernel 5.15.52)	Yocto 4.0 (Linux Kernel 5.15.52)	Depends on connected SMARC Module
Operating Temperature	-40°C to +85°C (-40°F to +185°F)	-40°C to +85°C (-40°F to +185°F)	-20°C to +70°C (-4°F to +158°F)
Relative Humidity	10% to 95%, non-condensing	10% to 95%, non-condensing	10% to 95%, non-condensing

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Smart Display Modules



Features/Models	SDM310S	SDM300S	SDM510L	SDM500L
Form Factor	Intel® SDM Small	Intel® SDM Small	Intel® SDM Large	Intel® SDM Large
CPU Level	Intel® Celeron® J6412	Intel® Pentium® N4200 or Celeron® N3350	12th gen Intel® Core™ i7/i5/i3, 15W/28W/45W	8th gen Intel® Core™ i7/i5/i3, 15W
CPU Socket	Onboard	Onboard	Onboard	Onboard
Core Logic Chipset	SoC integrated	SoC integrated	SoC integrated	SoC integrated
Memory Type	LPDDR4	LPDDR4	Dual-channel DDR4-3200 SO-DIMM	Dual-channel DDR4-2400 SO-DIMM
Max. DRAM Capacity	4GB/8GB (optional)	4GB/8GB (optional)	32GB per channel	32GB per channel
Cache RAM Capacity	SoC integrated	SoC integrated	SoC integrated	SoC integrated
BIOS	AMI UEFI BIOS	AMI UEFI BIOS	AMI UEFI BIOS	AMI UEFI BIOS
Watchdog Timer	255 levels, 1 to 255 sec./min.	255 levels, 1 to 255 sec./min.	255 levels, 1 to 255 sec./min.	255 levels, 1 to 255 sec./min.
SSD	64GB eMMC onboard (128G optional)	64GB eMMC onboard (32GB optional)	1 x M.2 Key M	1 x M.2 Key M 1 x M.2 Key B
I/O	Golden Finger Ethernet Others	1 x USB 3.0 1 x HDMI 2.0b 1 x DisplayPort 1.2a 1 x Serial TX/RX 2 x I ² C 1 x 10/100/1000 Mbps with RTL8111H in support of Wake-on-LAN and PXE Boot ROM 1 x USB 3.2 Gen2/ DisplayPort 1.2a (Type C) 1 x USB 3.2 Gen2 (Type C) 1 x DisplayPort 1.2a (Type C) 1 x HDMI 2.0b 1 x DisplayPort 1.2a	PCIe x8 (98-pin) 1 x USB 3.0 1 x HDMI 1.4 1 x DisplayPort 1.2 1 x Serial TX/RX 2 x I ² C 2.5GbE with Intel® I225 in support of Wake-on-LAN (i7/i5/i3) and Intel vPro® (i7/i5)	PCIe x8 (98-pin) 1 x USB 3.0 1 x HDMI 2.0 1 x DisplayPort 1.2 1 x Serial TX/RX 2 x I ² C 1 x 10/100/1000 Mbps with Intel® I219 in support of Wake-on-LAN (i7/i5/i3) and Intel vPro® (i7/i5)
SMBus	Yes	Yes	Yes	Yes
Expansion Interface	1 x PCIe x1 thru SDM edge connector	1 x M.2 Key E 1 x PCIe x1 thru SDM edge connector	1 x M.2 Key E 1 x M.2 Key M	1 x M.2 Key E 1 x M.2 Key M 1 x M.2 Key B
Power Input	Thru SDM edge connector +12V & +3.3VBS	Thru SDM edge connector +12V & +3.3VBS	Thru SDM edge connector +12V & +3.3VBS	Thru SDM edge connector +12V & +3.3VBS
Battery	Lithium 3 V/220 mA	Lithium 3 V/220 mA	Lithium 3 V/220 mA	Lithium 3 V/220 mA
Operating Temperature	0°C to +55°C (+32°F to +131°F)	0°C to +55°C (+32°F to +131°F)	0°C to +60°C (+32°F to +140°F)	0°C to +60°C (+32°F to +140°F) -20°C to +70°C (-20°F to +158°F) (optional)
Relative Humidity	10% to 95% relative humidity, non-condensing	10% to 95%, non-condensing	10% to 95%, non-condensing	10% to 95%, non-condensing
EMI Compliance	CE	CE	CE	CE

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PCI Express Cards

AX92320

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

Features

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

Dimensions 168 x 111 mm

Ordering Information

AX92320-2GbE (P/N: E392320107)	2-port PCI Express GigE frame grabber card
AX92320-4GbE (P/N: E392320106)	4-port PCI Express GigE frame grabber card
PoE Power Cable (P/N: 59492320700E)	4P 3.0/6P 4.2, L=10 cm *It can only be used with IPC962, IPC964, and IPC974.
Power Cable (P/N: 59492320700E)	6-pin ATX to Molex 4-pin power cable, L=150 mm *It can be used for ATX power.



AX92321

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

Features

- 4 or 8 USB 3.0 ports
- 4 independent USB 3.0 host controllers
- Each port has a configurable current from 900 mA to a maximum of 1500 mA 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 and Ubuntu 20.04 LTS
- Supports power on/off for each port via software settings

Dimensions 168 mm x 107 mm

Ordering Information

AX92321-4U (P/N: E392321103)	4-port USB 3.0 PCIe x4 card
AX92321-8U (P/N: E392321102)	8-port USB 3.0 PCIe x4 card
For IPC962/964 Riser Card Power Connector (P/N: 59492320700E)	Power cable 4P3.0/6P4.2, L=100 mm



AX92322

2-port/4-port GigE PCI Express Card

Features

- 2 or 4 independent Intel® Ethernet Controller I210-AT
- Supports 9.5KB Jumbo Frame and IEEE 1588
- Supports 2 or 4 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: E392322103)	2-port GigE PCI Express card
AX92322-4GbE (P/N: E392322102)	4-port GigE PCI Express card



AX92324

2-port 10GbE PoE PCI Express Card

Features

- Intel® Ethernet Controller X550-AT2 for 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 management software and API
- Operating temperature from 0°C to 55°C

Dimensions 168 x 111 mm

Ordering Information

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



AX92325

2-port/4-port PCI Express GigE PoE Card with M12 X-coded Connector

Features

- 4 M12 x-coded connectors with a special design (to avoid occupying 2 slots)
- 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
- PCI Express x4 compliant
- Operating temperature from 0°C to 60°C
- PoE power management software
- Supports LAN port smart on/off

Dimensions 168 x 111 mm

Ordering Information

AX92325-2PoE (P/N: E392325102)	2-port PCIe x4 GbE PoE card with M12
AX92325-4PoE (P/N: E392325100)	4-port PCIe x4 GbE PoE card with M12
AX92325-4GbE (P/N: E392325101)	4-port PCIe x4 GbE card with M12
PoE Power Cable (P/N: 59492320700E)	4P 3.0/6P 4.2, L=10 cm *It can only be used with IPC962, IPC964, and IPC974.
Power Cable (P/N: 59492320730E)	6-pin ATX to Molex 4-pin power cable, L=150 mm *It can be used for ATX power.



PCI Express Cards

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 (P/N: E392351104)	32-CH isolated digital I/O with digital filter
AX92351-64CH (P/N: E392351103)	64-CH isolated digital I/O with digital filter *It includes a 40-pin box-header to 37-pin female cable.

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



Ordering Information

AX92352 (P/N: E392352102)	2-CH encoder card with real-time trigger I/O
AX92353 (P/N: E392353100)	4-CH lighting control module * This optional module cannot operate independently; please use it with AX92352.

AX92353

4-CH Lighting Control Module

Features

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

Dimensions 151 x 80 mm



Ordering Information

AX92353 (P/N: E392353100)	4-CH lighting control module *This optional module cannot operate independently; please use it with AX92352.
LED Power Cable (P/N: 59492350700E)	4P 4.2/6P 4.2, L=10 cm *It can only be used with IPC962 and IPC964.

Embedded Systems

NEW



Features/Models	eBOX570	eBOX625-312-FL	eBOX626A
CPU Level	Intel® Core™ i7-1365UE, Core™ i5-1335UE or Celeron® U300E (TDP up to 15W)	Intel® Celeron® N3350 2.4 GHz Intel® Pentium® N4200 2.5 GHz	Intel® Celeron® J6412 2 GHz
System Memory	1 x 260-pin DDR4-3200 SO-DIMM, up to 32GB	1 x 204-pin DDR3L-1866 SO-DIMM, up to 8GB	1 x 260-pin DDR4-3200 SO-DIMM, up to 32GB
Chipset	SoC integrated	SoC integrated	SoC integrated
Serial	2 x RS-232/422/485	2 x RS-232/422/485 1 x RS-232	1 x RS-232/422/485 2 x RS-232
Display	2 x HDMI 1.4b (lockable)	1 x HDMI (lockable) 1 x VGA	1 x HDMI 1.4b (lockable) 1 x VGA
Audio	N/A	Yes	Yes
Ethernet	2 x 10/100/1000 Mbps	2 x 10/100/1000 Mbps	1 x 10/100/1000 Mbps 1 x 10/100/1000/2500 Mbps
USB	4 x USB 3.2 Gen2 2 x USB 3.2 Gen1 2 x USB 2.0	2 x USB 2.0 4 x USB 3.0	4 x USB 3.1 Gen2 2 x USB 2.0
Expansion Interface	1 x Full-size PCI Express Mini Card with SIM slot 1 x M.2 Key E 2230 (for Wi-Fi)	2 x Full-size PCIe Mini Card slot (USB + PCIe signal) 1 x SIM slot	1 x Full size PCIe Mini Card slot (mSATA/SIM) (USB + PCIe + SATA) 1 x M.2 Key E 2230 (PCIe + USB)
Storage	1 x M.2 Key M 2280	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	TBC	65536 levels, 1 to 65535 sec.	255 levels, 1 to 255 sec.
Power Supply	12 VDC with Smart Ignition	12 VDC	9 to 36 VDC
Operating Temperature	-20°C to +60°C (-4°F to +140°F) (with WT. SSD/DRAM)	-20°C to +60°C (-4°F to +140°F) (with WT. SSD/DRAM)	-20°C to +60°C (-4°F to +140°F) (with WT. SSD/DRAM)
Mounting	Wall mount DIN-rail	Wall mount VESA mount DIN-rail	Wall mount VESA mount DIN-rail
Dimensions (W x D x H)	120 x 178 x 65 mm (4.72" x 7.01" x 2.56")	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)	2 kg (4.41lb)/2.5 kg (5.51lb)	1.1 kg (2.43 lb)/1.8 kg (3.97 lb)	1.2 kg (2.65 lb)/1.6 kg (3.97 lb)
Certifications	CE, FCC Class A, UKCA	CE, FCC Class A, UKCA	CE, FCC Class A, UKCA
EOS Support	TBC	Win 10 IoT, Linux	Win 10 IoT, Win11 IoT, Linux

Embedded Systems

NEW



NEW



Features\Models	eBOX640A	eBOX630A	eBOX640-521-FL
CPU Level	LGA1700 12th gen Intel® Core™ i7/i5/i3 or Pentium® (35W)	Intel® Core™ i7-1185G7E Intel® Core™ i5-1145G7E Intel® Core™ i3-1115G4E Intel® Celeron® 6305E	LGA1151 9th/8th gen Intel® Core™ i7/i5/i3 or Celeron® (35W)
System Memory	2 x 260-pin DDR4-3200/2666/2400 SO-DIMM, up to 64GB	2 x 260-pin DDR4-3200 SO-DIMM, up to 64GB	2 x 260-pin DDR4-2400 SO-DIMM, up to 64GB
Chipset	Intel® H610	SoC integrated	Intel® H310
Serial	1 x RS-232/422/485 3 x RS-232	2 x RS-232/422/485 2 x RS-232	1 x RS-232/422/485 1 x RS-232
Display	2 x HDMI	2 x HDMI 1.4b 1 x DisplayPort++ 1.2a	1 x DisplayPort 1 x HDMI
Audio	Yes	N/A	Yes
Ethernet	1 x 10/100/1000 Mbps 1 x 10/100/1000/2500 Mbps	3 x 10/100/1000/2500 Mbps	2 x 10/100/1000 Mbps
USB	2 x USB 3.2 Gen1 2 x USB 2.0	4 x USB 3.2 Gen1 2 x USB 2.0	4 x USB 2.0 2 x USB 3.0
Expansion Interface	1 x M.2 Key B 2242/3042/3052 (SATA & USB 3.2 Gen1) 1 x M.2 Key E 2230 1 x Full-size PCIe Mini Card slot (PCIe x1 & USB 2.0 signal) 1 x SIM slot for M.2 Key B	1 x Full-size PCIe Mini Card slot (USB + PCIe signal) 1 x M.2 Key E 2230 slot 1 x M.2 Key M 2280 slot (NVMe)	1 x Full-size PCIe Mini Card slot (PCIe + SATA + USB signal) 1 x M.2 Key E 2230 (for Wi-Fi)
Storage	1 x 2.5" HDD drive bay	2 x 2.5" swappable HDD drive bay	2 x 2.5" HDD drive bay
Watchdog Timer	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.
Power Supply	12/24 VDC	9 to 48 VDC	19 VDC, 6.32A (12/24 VDC with optional adapter)
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 0.5 m/s air flow (with W.T. DRAM & SSD)	-10°C to +50°C (+14°F to +122°F) (with W.T. SSD/DRAM)
Mounting	Wall mount DIN-rail	Wall mount VESAs mount DIN-rail	Wall mount DIN-rail
Dimensions (W x D x H)	195 x 210.6 x 80 mm (7.67" x 8.27" x 3.14")	250 x 170 x 60 mm (9.84" x 6.69" x 2.36")	195 x 210.6 x 80 mm (7.67" x 8.27" x 3.14")
Weight (net/gross)	3 kg (6.61 lb)/3.6 kg (7.94 lb)	2.4 kg (5.29 lb)/3.2 kg (7.0 lb)	3 kg (6.61 lb)/3.6 kg (7.94 lb)
Certifications	CE, FCC Class A, UKCA	CE, FCC Class A, UKCA	CE, FCC Class A, Win11 IoT, UKCA
EOS Support	Win 10 IoT, Win 11 IoT, Linux	Win 10 IoT, Win 11 IoT, Linux	Win 10 IoT, Linux

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NEW



Features\Models	eBOX671B	eBOX671A	eBOX671-521-FL
CPU Level	LGA1700 13th/12th gen Intel® Core™ i9/i7/i5/i3 or Celeron® (35W/65W)	LGA1200 10th gen Intel® Xeon®, Core™ i9/i7/i5/i3 or Celeron® (35W/65W)	LGA1151 9th gen Intel® Core™ i7/i5/i3 or Celeron® (35W) LGA1151 8th gen Intel® Core™ i7/i5/i3 or Celeron® (35W/65W)
System Memory	2 x 262 pin DDR5-4800 SODIMM, up to 64GB	2 x 260 pin DDR4-2933 SODIMM, up to 64GB	2 x 260-pin DDR4-2666 SO-DIMM, up to 64GB
Chipset	Intel® R680E	Intel® W480E	Intel® Q370 Intel® C246 (optional)
Serial	2 x RS-232/422/485 2 x RS-232	2 x RS-232 2 x RS-232/422/485	2 x RS-232/422/485
Display	2 x HDMI 1.4b (1 x lockable) 1 x DisplayPort 1.2a 2 x DisplayPort 1.4a via MXM (optional)	2 x HDMI 1.4b (lockable) 1 x DisplayPort 1.2 ++	1 x DisplayPort 1 x DVI-I 1 x HDMI 2 x DisplayPort via MXM (optional)
Audio	N/A	N/A	Optional
Ethernet	1 x 10/100/1000 Mbps 3 x 10/100/1000/2500 Mbps	4 x 10/100/1000 Mbps	2 x 10/100/1000 Mbps 4 x 10/100/1000 Mbps PoE, up to 60W
USB	2 x USB 3.2 Gen1 4 x USB 3.2 Gen2	5 x USB 3.2 Gen2 1 x USB 3.2 Gen1	2 x USB 3.1 Gen2 4 x USB 3.1 Gen1
Expansion Interface	1 x Full-size PCIe Mini Card slot (USB 2.0 + PCIe + SIM + mSATA signal) 1 x M.2 Key M 2280 1 x M.2 Key E 2230 1 x M.2 Key B 3050 1 x MXM3.1 Type A connector	2 x Full-size PCIe Mini Card slot (USB + PCIe + SATA signal) 1 x M.2 Key B 3050 1 x Internal SIM slot	2 x Full-size PCIe Mini Card slot (USB + PCIe signal) 2 x SIM slot 1 x MXM3.1 Type A connector
Storage	2 x 2.5" HDD drive bay 1 x NVMe by M.2 Key M 2280 1 x mSATA (enable in BIOS setting)	2 x 2.5" HDD drive bay 2 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 with ACC ignition	9 to 48 VDC	24 VDC
Operating Temperature	-40°C to +65°C (-40°F to +140°F) (with W.T. DRAM & SSD, CPU TDP 35W) -40°C to +55°C (-40°F to +122°F) (with W.T. DRAM & SSD, CPU TDP 65W)	-40°C to +70°C (-40°F to +158°F) -40°C to +60°C (-40°F to +158°F) (with W.T. DRAM & SSD)	-40°C to +60°C (-40°F to +140°F) (with W.T. SSD/DRAM)
Mounting	Wall mount DIN-rail	Wall mount DIN-rail	Wall mount DIN-rail
Dimensions (W x D x H)	280 x 210 x 80.5 mm (11.02" x 8.26" x 3.16")	280 x 210 x 80.5 mm (11.02" x 8.26" x 3.16")	280 x 210 x 80.5 mm (11.02" x 8.26" x 3.16")
Weight (net/gross)	4.9 kg (10.8 lb)/7 kg (15.43 lb)	4.9 kg (10.8 lb)/7 kg (15.43 lb)	4.8 kg (10.58 lb)/5.6 kg (12.34 lb)
Certifications	CE, FCC Class A, UKCA	CE, FCC Class A, UKCA	CE, FCC Class A, UKCA
EOS Support	Win 10 IoT, Win 11 IoT, Linux	Win 10 IoT, Win 11 IoT, Linux	Win 10 IoT, Win 11 IoT, Linux,

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Embedded Systems



Features\Models	eBOX710A	eBOX710-521-FL	eBOX800-511-FL
CPU Level	LGA1200 11th/10th gen Intel® Core™ i9/i7/i5/i3 or Celeron® (35W/65W)	LGA1151 Intel® Xeon®, 9th/8th gen Intel® Core™ i7/i5/i3 or Celeron® (35W)	Intel® Core™ i5-7300U or Celeron® 3965U
System Memory	2 x 260 pin DDR4-2933, up to 64GB	2 x 260 pin DDR4-2666 SO-DIMM, up to 64GB	1 x 260-pin DDR4-2133 SO-DIMM, up to 16GB
Chipset	Intel® H420E	Intel® C246 PCH	SoC integrated
Serial	2 x RS-232 2 x RS-232/422/485	2 x RS-232/422/485	2 x RS-232/422/485 (M12)
Display	2 x HDMI 1.4b (lockable) 1 x DisplayPort 1.2 ++	1 x HDMI 1 x DisplayPort 1 x DVI-I	1 x VGA (M12)
Audio	N/A	N/A	N/A
Ethernet	4 x 10/100/1000 Mbps	6 x 10/100/1000 Mbps	1 x 10/100/1000 Mbps (M12)
USB	5 x USB 3.2 Gen1 1 x USB 2.0	4 x USB 3.1 Gen2 2 x USB 3.1 Gen1	2 x USB 2.0 (M12)
Expansion Interface	2 x Full-size PCIe Mini Card slot (USB + PCIe + SATA signal) 1 x M.2 Key B 1 x SIM slot 1 x PCIe x4 slot	2 x Full-size PCIe Mini Card slot (USB + PCIe signal) 2 x SIM slot 1 x PCIe x4 slot	1 x Full-size PCIe Mini Card slot 1 x Half-size PCIe Mini Card slot (USB + PCIe signal)
Storage	2 x 2.5" SATA HDD/SSD 2 x mSATA (enabled in BIOS setting)	2 x 2.5" HDD drive bay 1 x mSATA (enabled in BIOS setting)	1 x 2.5" HDD drive bay 1 x mSATA (enabled in BIOS setting)
Watchdog Timer	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.
Power Supply	9 to 48 VDC	24 VDC	9 to 36 VDC (M12)
Operating Temperature	-40°C to +70°C (-40°F to +158°F) -40°C to +60°C (-40°F to +158°F) (with W.T. DRAM & SSD)	-40°C to +70°C (-40°F to +158°F) (with W.T. DRAM/SSD)	-30°C to +60°C (-22°F to +140°F) (with i5-7300U, W.T. SSD/DRAM)
Mounting	Wall mount DIN-rail	Wall mount DIN-rail	Wall mount
Dimensions (W x D x H)	280 x 210 x 80.5 mm (11.02" x 8.26" x 3.16")	280 x 210 x 80.5 mm (11.02" x 8.26" x 3.16")	210 x 366.83 x 83.8 mm (8.27" x 14.44" x 3.27")
Weight (net/gross)	4.9 kg (10.8 lb)/7 kg (15.43 lb)	4.8 kg (10.58 lb)/5.6 kg (12.34 lb)	4.31 kg (9.5 lb)/5.1 kg (11.24 lb)
Certifications	CE, FCC Class A, UKCA	CE, FCC Class A, UKCA	CE, FCC Class A, UKCA
EOS Support	Win 10 IoT, Win 11 IoT, Linux	Win 10 IoT, Win 11 IoT, Linux	Win 10 IoT, Linux

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Edge AI Systems



Features\Models	AIE100-903-FL	AIE100-903-FL-NX	AIE100-T2NX
AI Accelerator	NVIDIA® Jetson Nano™ (472 GFLOPS)	NVIDIA® Jetson Xavier™ NX (21 TOPS)	NVIDIA® Jetson™ TX2 NX (1.33 TFLOPS)
CPU Level	Quad-core ARM® Cortex®-A57 MPCore	6-core NVIDIA Carmel ARM®v8.2 64-bit CPU 6MB L2 + 4MB L3	Dual-core NVIDIA Denver 2 64-Bit CPU or quad-core Arm® Cortex®-A57 MPCore
GPU	128-core NVIDIA Maxwell™ GPU	384-core NVIDIA Volta™ GPU with 48 Tensor Cores	256-core NVIDIA Pascal™ GPU
System Memory	4GB 64-bit LPDDR4 onboard	16 or 8GB 128-bit LPDDR4x onboard	4GB 128-bit LPDDR4 onboard
Serial	N/A	N/A	N/A
Display	1 x HDMI	1 x HDMI	1 x HDMI
Ethernet	1 x 10/100/1000 Mbps 1 x 10/100/1000 Mbps PoE	1 x 10/100/1000 Mbps 1 x 10/100/1000 Mbps PoE	1 x 10/100/1000 Mbps 1 x 10/100/1000 Mbps PoE
USB	1 x USB 3.0 1 x USB 2.0 1 x Micro USB	1 x USB 3.1 Gen2 1 x USB 2.0 1 x Micro USB	1 x USB 3.1 Gen1 1 x USB 2.0 1 x Micro USB
Expansion Interface	1 x Full-size PCIe Mini Card slot for Wi-Fi/LTE 1 x SIM slot	1 x Full-size PCIe Mini Card slot for Wi-Fi/LTE 1 x SIM slot	1 x Full-size PCIe Mini Card slot for Wi-Fi/LTE 1 x SIM slot
Storage	Onboard 16GB eMMC (built-in Nano) 1 x M.2 Key M (NVMe SSD) 1 x Micro SD slot	Onboard 16GB eMMC (built-in Xavier NX) 1 x M.2 Key M (NVMe SSD) 1 x Micro SD slot	Onboard 16GB eMMC (built-in TX2 NX) 1 x M.2 Key M (NVMe SSD) 1 x Micro SD slot
Watchdog Timer	Built-in Nano	Built-in Xavier NX	Built-in TX2 NX
Power Supply	12 VDC	12 VDC	12 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")	148.6 x 129.8 x 34.6 mm (5.85" x 5.11" x 1.36")
Weight (net/gross)	1 kg (2.2 lb)/1.6 kg (3.52 lb)	1 kg (2.20 lb)/1.6 kg (3.52 lb)	1 kg (2.20 lb)/1.6 kg (3.52 lb)
Certifications	CE, FCC Class A, UKCA	CE, FCC Class A, UKCA	CE, FCC Class A, UKCA
EOS Support	Linux Ubuntu 18.04	Linux Ubuntu 18.04 or later versions	Linux Ubuntu 18.04

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Edge AI Systems



Features\Models	AIE100A-ONX	AIE100-ONA
AI Accelerator	NVIDIA® Jetson Orin™ NX	NVIDIA® Jetson Orin™ Nano (up to 40 TOPS)
CPU Level	8/6-core NVIDIA Arm® Cortex A78AE v8.2 64-bit CPU 2MB L2 + 4MB L3 or 1.5MB L2 + 4MB L3	6-core Arm® Cortex®-A78AE v8.2 64-bit CPU 1.5MB L2 + 4MB L3
GPU	1024-core NVIDIA Ampere GPU with 32 Tensor Cores	1024/512-core NVIDIA Ampere architecture GPU with 32/16 Tensor Cores
System Memory	16/8GB 128-bit LPDDR5 onboard	8GB 128-bit/4GB 64-bit LPDDR5 onboard
Serial	N/A	N/A
Display	1 x HDMI	1 x HDMI
Ethernet	1 x 10/100/1000 Mbps 1 x 10/100/1000 Mbps PoE	1 x 10/100/1000 Mbps 1 x 10/100/1000 Mbps PoE
USB	1 x USB 3.2 Gen2 1 x USB 2.0 1 x Micro USB	1 x USB 3.2 Gen2 1 x USB 2.0 1 x Micro USB
Expansion Interface	1 x Full-size PCIe Mini Card slot for Wi-Fi/LTE 1 x SIM slot	1 x Full-size PCIe Mini Card slot for Wi-Fi/LTE 1 x SIM slot
Storage	1 x M.2 Key M (NVMe SSD)	1 x M.2 Key M (NVMe SSD)
Watchdog Timer	Built-in Orin NX	Built-in Orin Nano
Power Supply	12 VDC	12 VDC
Operating Temperature	-25°C to +60°C (-13°F to +140°F)	-25°C to +70°C (-13°F to +158°F)
Mounting	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")
Weight (net/gross)	1 kg (2.20 lb)/1.6 kg (3.52 lb)	1 kg (2.20 lb)/1.6 kg (3.52 lb)
Certifications	CE, FCC Class A, UKCA	CE, FCC Class A, UKCA
EOS Support	Linux Ubuntu 20.04 or later versions	Linux Ubuntu 20.04 or later versions

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



Features\Models	AIE110-ONX	AIE110-ONA	AIE110-XNX
AI Accelerator	NVIDIA® Jetson Orin™ NX (up to 100 TOPS)	NVIDIA® Jetson Orin™ Nano (up to 40 TOPS)	NVIDIA® Jetson Xavier™ NX
CPU Level	8/6-core NVIDIA Arm® Cortex A78AE v8.2 64-bit CPU 2MB L2 + 4MB L3 or 1.5MB L2 + 4MB L3	6-core Arm® Cortex®-A78AE v8.2 64-bit CPU 1.5MB L2 + 4MB L3	6-core NVIDIA Carmel ARM® v8.2 64-bit CPU 6MB L2 + 4MB L3
GPU	1024-core NVIDIA Ampere GPU with 32 Tensor Cores	1024/512-core NVIDIA Ampere architecture GPU with 32/16 Tensor Cores	384-core NVIDIA Volta™ GPU with 48 Tensor Cores
System Memory	16/8GB 128-bit LPDDR5 onboard	8GB 128-bit/4GB 64-bit LPDDR5 onboard	8GB 128-bit LPDDR4x onboard
Serial	N/A	N/A	N/A
Display	1 x HDMI	1 x HDMI	1 x HDMI
Ethernet	1 x 10/100/1000 Mbps 1 x 10/100/1000 Mbps PoE	1 x 10/100/1000 Mbps 1 x 10/100/1000 Mbps PoE	1 x 10/100/1000 Mbps 1 x 10/100/1000 Mbps PoE
USB	1 x USB 3.2 Gen2 1 x USB 2.0 1 x Micro USB	1 x USB 3.2 Gen2 1 x USB 2.0 1 x Micro USB	1 x USB 3.2 Gen2 1 x USB 2.0 1 x Micro USB
Expansion Interface	1 x Full-size PCIe Mini Card slot for Wi-Fi/LTE 1 x SIM slot	1 x Full-size PCIe Mini Card slot for Wi-Fi/LTE 1 x SIM slot	1 x Full-size PCIe Mini Card slot for Wi-Fi/LTE 1 x SIM slot
Storage	1 x M.2 Key M (NVMe SSD)	1 x M.2 Key M (NVMe SSD)	Onboard 16GB eMMC (built-in Xavier NX) 1 x M.2 Key M (NVMe SSD) 1 x Micro SD slot
Watchdog Timer	Built-in Orin NX	Built-in Orin Nano	Built-in Xavier NX
Power Supply	12 VDC	12 VDC	12 VDC
Operating Temperature	-10°C to +60°C (14°F to +122°F)	-10°C to +60°C (14°F to +122°F)	-10°C to +60°C (14°F to +122°F)
Mounting	Wall mount	Wall mount	Wall mount
Dimensions (W x D x H)	165 x 117 x 37.7 mm (6.49" x 4.60" x 1.48")	165 x 117 x 37.7 mm (6.49" x 4.60" x 1.48")	165 x 117 x 37.7 mm (6.49" x 4.60" x 1.48")
Weight (net/gross)	0.3 kg (0.66 lb)/0.9 kg (1.98 lb)	0.3 kg (0.66 lb)/0.9 kg (1.98 lb)	0.3 kg (0.66 lb)/0.9 kg (1.98 lb)
Certifications	CE	CE	CE
EOS Support	Linux Ubuntu 20.04 or later versions	Linux Ubuntu 20.04 or later versions	Linux Ubuntu 18.04 or later versions

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

Edge AI Systems

NEW



Features\Models	AIE510-ONX	AIE500-901-FL
AI Accelerator	NVIDIA® Jetson Orin™ NX (100 TOPS)	NVIDIA® Jetson™ TX2
CPU Level	8-core NVIDIA Arm® Cortex A78AE v8.2 64-bit CPU 2MB L2 + 4MB L3	Dual-Core NVIDIA Denver 2 64-Bit CPU or quad-core Arm® Cortex®-A57 MPCore
GPU	1024-core NVIDIA Ampere GPU with 32 Tensor Cores	256-core NVIDIA Pascal™ GPU
System Memory	16GB 128-bit LPDDR5 onboard	8GB 128-bit LPDDR4 onboard
Serial	1 x DB9 for COM & CAN	2 x RS-232 (default) (or 2 x CAN by jumper settings)
Display	1 x HDMI	1 x HDMI
Ethernet	1 x 10/100/1000 Mbps PoE 1 x 10/100/1000/2500 Mbps PoE	2 x 10/100/1000 Mbps
USB	2 x USB 3.2 Gen2	2 x USB 3.1 Gen1 1 x Micro USB
Expansion Interface	4 x Fakra-Z connector for GMSL1/2 automotive cameras 1 x Full-size PCIe Mini Card slot for Wi-Fi/LTE 1 x M.2 Key B 3042/3052 for 5G/LTE 1 x M.2 Key E 2230 for Wi-Fi 6E 1 x SIM slot	1 x Full-size PCIe Mini Card slot for Wi-Fi/LTE 1 x SIM slot
Storage	1 x M.2 Key M (NVMe SSD)	Onboard 32GB eMMC (built-in TX2) 1 x M.2 Key M (NVMe/SATA SSD) 1 x Micro SD slot
Watchdog Timer	Built-in Orin NX	Built-in TX2
Power Supply	9 to 36 VDC with ignition power control	12/24 VDC
Operating Temperature	25°C to +60°C (-13°F to +140°F) (power mode: 25W)	-30°C to +60°C (-22°F to +140°F)
Mounting	Wall mount DIN-rail VESAs mount	Wall mount DIN-rail VESAs mount
Dimensions (W x D x H)	180 x 106 x 71.7 mm (7.08" x 4.17" x 2.82") with GMSL: 180 x 106 x 80.7 mm (7.08" x 4.17" x 3.17")	171 x 110 x 57 mm (6.73" x 4.33" x 2.24")
Weight (net/gross)	1.3 kg (2.86 lb)/2 kg (4.4 lb) with GMSL: 2 kg (4.4 lb)/2.7 kg (5.95 lb)	1.2 kg (2.64 lb)/1.7 kg (3.75 lb)
Certifications	CE, FCC Class A, UKCA, E-Mark	CE, FCC Class A, UKCA
EOS Support	Linux Ubuntu 20.04 or later versions	Linux Ubuntu 18.04

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NEW



Features\Models	AIE810-ONX	AIE800-904-FL	AIE800-904-FL-DC
AI Accelerator	NVIDIA® Jetson Orin™ NX (100 TOPS)	NVIDIA® Jetson Xavier™ NX (21 TOPS)	NVIDIA® Jetson Xavier™ NX (21 TOPS)
CPU Level	8-core NVIDIA Arm® Cortex A78AE v8.2 64-bit CPU 2MB L2 + 4MB L3	6-core NVIDIA Carmel ARM® v8.2 64-bit CPU 6MB L2 + 4MB L3	6-core NVIDIA Carmel ARM® v8.2 64-bit CPU 6MB L2 + 4MB L3
GPU	1024-core NVIDIA Ampere GPU with 32 Tensor Cores	384-core NVIDIA Volta™ GPU with 48 Tensor Cores	384-core NVIDIA Volta™ GPU with 48 Tensor Cores
System Memory	16GB 128-bit LPDDR5 onboard	8GB 128-bit LPDDR4x onboard	8GB 128-bit LPDDR4x onboard
Serial	1 x DB9 (internal) for COM & CAN	N/A	N/A
Display	1 x HDMI (Internal)	1 x HDMI	1 x HDMI
Ethernet	2 x PoE (M12)	1 x 10/100/1000 Mbps PoE	1 x 10/100/1000 Mbps PoE
USB	1 x USB (M12)	1 x USB 2.0	2 x USB 2.0
Expansion Interface	1 x Full-size PCIe Mini Card slot for Wi-Fi/LTE 1 x M.2 Key B 3042/3052 for 5G/LTE 1 x M.2 Key E 2230 for Wi-Fi 6E 1 x SIM slot	1 x Full-size PCIe Mini Card slot for Wi-Fi/LTE 1 x SIM slot	1 x Full-size PCIe Mini Card slot for Wi-Fi/LTE 1 x SIM slot
Storage	1 x M.2 Key M (NVMe SSD)	Onboard 16GB eMMC (built-in Xavier NX) 1 x M.2 Key B (NVMe SSD)	Onboard 16GB eMMC (built-in Xavier NX) 1 x M.2 Key B (NVMe SSD)
Watchdog Timer	Built-in Orin NX	Built-in Xavier NX	Built-in Xavier NX
Power Supply	9 to 36 VDC	100 to 240 VAC with 10kV SPD	9 to 36 VDC
Operating Temperature	-25°C to +60°C (-13°F to +140°F) (power mode: 25W)	-30°C to +50°C (-22°F to +122°F)	-30°C to +50°C (-22°F to +122°F)
Mounting	Wall mount VESAs mount	Wall mount VESAs mount	Wall mount VESAs mount
Dimensions (W x D x H)	TBC	366.8 x 235 x 83.8 mm (14.44" x 9.25" x 3.3")	366.8 x 235 x 83.8 mm (14.44" x 9.25" x 3.3")
Weight (net/gross)	TBC	4.13 kg (9.11 lb)/5.5 kg (12.13 lb)	4 kg (8.19 lb)/5.37 kg (11.84 lb)
Certifications	TBC	CE, FCC Class A, UKCA	CE, FCC Class A, UKCA
EOS Support	Linux Ubuntu 20.04 or later versions	Linux Ubuntu 18.04 or later versions	Linux Ubuntu 18.04 or later versions

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Edge AI Systems



Features\Models	AIE900A-AO	AIE900-902-FL	AIE900-XNX
AI Accelerator	NVIDIA® Jetson AGX Orin™ (up to 275 TOPS)	NVIDIA® Jetson AGX Xavier™ (32 TOPS)	NVIDIA® Jetson Xavier™ NX (21 TOPS)
CPU Level	12 (by project)/8-core NVIDIA Arm® Cortex A78AE v8.2 64-bit CPU	8-core NVIDIA Carmel Arm® v8.2 64-bit CPU 8MB L2 + 4MB L3	6-core NVIDIA Carmel ARM® v8.2 64-bit CPU 6MB L2 + 4MB L3
GPU	2048 (by project)/1792-core NVIDIA Ampere architecture GPU with 64 or 56 Tensor Cores	512-core NVIDIA Volta™ GPU with 64 Tensor Cores	384-core NVIDIA Volta™ GPU with 48 Tensor Cores
System Memory	64 (by project)/32GB 256-bit LPDDR5 onboard	32GB 256-bit LPDDR4x onboard	8GB 128-bit LPDDR4x onboard
Serial	2 x RS-232/422/485/CAN	2 x RS-232/CAN	2 x RS-232/422/485/CAN
Display	1 x HDMI (lockable)	2 x HDMI (lockable)	1 x HDMI (lockable)
Ethernet	2 x 10/100/1000/2500 Mbps 8 x 10/100 Mbps PoE	2 x 10/100/1000 Mbps 4 x 10/100/1000 Mbps PoE	1 x 10/100/1000 Mbps 4 x 10/100/1000 Mbps PoE
USB	4 x USB 3.2 Gen2 (lockable) 2 x USB 2.0 1 x Micro USB	2 x USB 3.1 Gen2 2 x USB 3.1 Gen1 2 x USB 2.0 1 x Micro USB	2 x USB 3.1 Gen2 1 x Micro USB
Expansion Interface	8 x GMSL1/2 port for automotive camera (optional) 1 x Full-size PCIe Mini Card slot for Wi-Fi/LTE 1 x M.2 Key E for Wi-Fi 6E 1 x M.2 Key B for 5G/LTE 1 x Nano SIM slot	1 x Full-size PCIe Mini Card slot for Wi-Fi/LTE 1 x M.2 Key E 2230 1 x SIM slot	1 x MIPI CSI-2 connector (optional) 1 x Full-size PCIe Mini Card slot for Wi-Fi/LTE 1 x M.2 Key B for 5G 1 x SIM slot
Storage	Onboard 64GB eMMC (built-in AGX Orin) 1 x M.2 Key M (NVMe SSD) 1 x Micro SD slot	Onboard 32GB eMMC (built-in AGX Xavier) 1 x M.2 Key M (NVMe SSD) 1 x Micro SD slot	Onboard 16GB eMMC (built-in Xavier NX) 1 x M.2 Key M (NVMe SSD) 1 x Micro SD slot
Watchdog Timer	Built-in AGX Orin	Built-in AGX Xavier	Dual watchdog timer
Power Supply	9 to 36 VDC with ignition power control	24 VDC	9 to 36 VDC (with ignition power control)
Operating Temperature	-30°C to +50°C (-22°F to +122°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)	239 x 185.3 x 79.4 mm (9.41" x 7.3" x 3.13")	239 x 185.3 x 79.4 mm (9.41" x 7.3" x 3.13")	239 x 185.3 x 79.4 mm (9.41" x 7.3" x 3.13")
Weight (net/gross)	3 kg (6.61 lb)/3.65 kg (8.04 lb)	2.8 kg (6.17 lb)/3.45 kg (7.61 lb)	2.8 kg (6.17 lb)/3.45 kg (7.61 lb)
Certifications	CE, FCC Class A	CE, FCC Class A	CE, FCC Class A
EOS Support	Linux Ubuntu 20.04 or later versions	Linux Ubuntu 18.04 or later versions	Linux Ubuntu 18.04 or later versions

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Features\Models	RSC201	RSC102	RSC101
AI Accelerator	Xilinx Kria K26 SoM	Hailo-8™ SoC (up to 26 TOPS)	Hailo-8™ SoC (up to 26 TOPS)
CPU Level	Quad-core Arm® Cortex®-A53 MPCore™	Intel® Celeron® processor J6412	Intel® Celeron® processor J6413
GPU	Mali™-400 MP2	Intel® UHD Graphics	Intel® UHD Graphics
System Memory	4GB 64-bit DDR4 onboard	8/4GB 64-bit DDR4 onboard	1 x DDR4 SO-DIMM slot, up to 32GB
Serial	1 x COM for RS-232	1 x COM for RS-485	Optional
Display	1 x DisplayPort 1.2	1 x HDMI	1 x HDMI
Ethernet	1 x 10/100/1000 Mbps	1 x 10/100/1000 Mbps	2 x 10/100/1000 Mbps
USB	3 x USB 3.2 Gen1	2 X USB USB3.2 Gen2	1 x USB 3.2 Gen1 1 x USB 2.0
Expansion Interface	1 x MicroSD card slot	N/A	1 x M.2 Key E 2230 for Wi-Fi/ Bluetooth 1 x M.2 Key B 3052 for 5G 1 x SIM slot
Storage	eMMC 16GB 1 x M.2 Key B 2242 (SATA3)	Onboard 64/32GB eMMC	1 x M.2 Key B 2242 (SATA3)
Digital I/O	N/A	1 x 8-CH DI/DO	1 x 8-CH DI/DO
Power Supply	12 to 24 VDC	12 to 24 VDC	12 to 24 VDC
Operating Temperature	-30°C to +70°C (-22°F to +158°F)	-10°C to +60°C (+14°F to +140°F)	-10°C to +70°C (+14°F to +158°F)
Mounting	Wall mount	Wall mount	Wall mount
Dimensions (W x D x H)	150 x 111 x 65.6 mm (5.91" x 4.37" x 2.58")	112.6 x 82.8 x 51.9 mm (4.43" x 3.26" x 2.04")	150 x 111 x 71.7 mm (5.91" x 4.37" x 2.82")
Weight (net/gross)	1.5 kg (3.32 lb)	0.5 kg (1.10 lb)	1.5 kg (3.32 lb)
Certifications	CE, FCC Class A	CE, FCC Class A	CE, FCC Class A
EOS Support	PetaLinux	Linux	Linux

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Transportation Embedded Systems

NEW



Features/Models	tBOX520	tBOX500-510-FL
CPU Level	12th gen Intel® Core™ i7/i5/i3 or Celeron® (15W/28W)	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 DDR5-4800 SO-DIMM (non-ECC: dual channel up to 32GB and single channel up to 16GB)	2 x DDR4-1866/2133 SO-DIMM, up to 32GB
Chipset	SoC integrated	SoC integrated
TPM	TPM 2.0	TPM 2.0
Serial	1 x DB9 serial console or RS-232/422/485	1 x Serial console or RS-232/422/485
CAN bus	N/A	N/A
Display	2 x HDMI 1.4b Type A (4K@60Hz)	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
Ethernet	1 x RJ-45 2.5GbE LAN (Intel® I226-IT)	1 x RJ-45 10/100/1000 Mbps (Intel® I210-IT)
PoE (PSE, Power Sourcing Equipment)	8 x Configurable M12/RJ-45 PoE (optional) PoE (802.3af 15.4W/port) PoE+ (802.3at 30W/port)	N/A
USB	4 x USB 3.0	4 x USB 3.0
DIO	N/A	N/A
Expansion Interface	1 x M.2 Key M 2280 (NVMe) 1 x M.2 Key B 3052/3042 for 5G/Wi-Fi 6/Bluetooth 1 x Full-size Rev.1.2 PCIe Mini Card slot for LTE/Wi-Fi/Bluetooth 1 x M.2 Key A+E for Wi-Fi 6/Bluetooth 2 x Nano SIM slot	3 x Full-size PCIe Mini Card slot 2 x SIM slot 2 x Value-added module slot
Storage	2 x Swappable 2.5" SATA drive (9.5 mm height)	2 x Swappable 2.5" SATA drive 1 x mSATA (occupied mPCIe card slot)
RAID function	Intel® RAID 0/1	Intel® RAID 0/1
Watchdog Timer	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.
Power Supply	1 x M12, 24 to 110 VDC	Railway: 24 to 110 VDC (M12) Vehicle: 12/24 VDC with Smart Ignition (terminal block) Marine: 9 to 36 VDC VDC (terminal block)
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
Mounting	Wall mount	Wall mount
Dimensions (W x D x H) without Mounting	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)	3.9kg (8.6lb)/6.0kg (13.2lb)	3.5 kg (7.72 lb)/5.1 kg (11.24 lb)
Certifications	CE (Class A), LVD, FCC (Class A), EN 50155, EN 45545-2	CE (Class A), LVD, FCC (Class A), EN 50155, EN 45545-2 and IEC 60945 certified; ISO 7637-2 compliant
EOS Support	Win 11 64-bit, Ubuntu 22.04	Win 10 64-bit, Ubuntu 16.04

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Features/Models	tBOX324-894-FL	tBOX810-838-FL	tBOX110
CPU Level	Intel® Core™ i7-7600U 2.8 GHz Intel® Core™ i5-7300U 2.4 GHz Intel® Core™ i3-7100U 2.4 GHz	Intel Atom® E3845 4C @ 1.91 GHz Intel Atom® E3827 2C @ 1.75 GHz	Intel Atom® E3940 4C @ 1.6 GHz
System Memory	2 x DDR4-1866/2133 SO-DIMM, up to 32GB	DDR3L-1333 4GB DRAM	1 x DDR3L-1866 SO-DIMM, up to 8GB
Chipset	SoC integrated	SoC integrated	SoC integrated
TPM	N/A	N/A	TPM 2.0
Serial	3 x Isolated RS-232/422/485	2 x Serial console or RS-232/422/485	Vehicle: 2 x RS-232/422/485 (4-wire) Railway: 4 x Isolated RS-232/422/485 (4-wire)
CAN bus	1 x Isolated CAN 2.0 A/B with support for SocketCAN	N/A	Vehicle: 2 x Isolated CAN 2.0 A/B with support for SocketCAN
Display	1 x DVI-I (1 x VGA and 1 x DVI-D) 1 x VGA	1 x VGA	2 x HDMI 1.4b (with screw lock)
Audio	1 x Mic-in, 1 x Line-out	1 x Mic-in, 1 x Line-out, 1 x Line-in (occupied 1 x PCIe Mini Card slot by option)	1 x Mic-in, 1 x Line-out
Ethernet	4 x 10/100/1000 Mbps (M12 A-coded/RJ-45; optional)	Railway: 2 x M12 A-coded 10/100/1000 Mbps (Intel® I210-IT) Marine/Vehicle: 2 x RJ-45 10/100/1000 Mbps (Intel® I210-IT)	Railway: 2 x M12 A-coded or X-coded 10/100/1000 Mbps (Intel® I210-IT) Vehicle: 2 x RJ-45 10/100/1000 Mbps (Intel® I210-IT)
USB	4 x USB 3.0	2 x USB 2.0	2 x USB 3.0
DIO	1 x Isolated DIO 4-in/4-out	1 x 8-bit programmable DIO	Railway: 1 x Isolated DIO 4-in/4-out Vehicle: 1 x DB9 8-bit programmable DIO
Expansion Interface	3 x Full-size PCIe Mini Card slot 1 x SIM slot	2 x Full-size PCIe Mini Card slot 1 x SIM slot	2 x Full-size Rev.1.2 PCIe Mini Card slot
Storage	2 x Swappable 2.5" SATA HDD/SSD 1 x CFast™	1 x 2.5" SATA HDD/SSD 1 x mSATA (occupied 1 x PCIe Mini Card slot)	1 x Internal 2.5" SATA drive 1 x mSATA (occupied 1 x PCIe Mini Card slot)
RAID Function	Intel® RAID 0/1	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	Railway: 24/110/24 to 110 VDC (M12) Vehicle: 12/24 VDC with Smart Ignition (terminal block) Marine: 9 to 36 VDC (terminal block)	Railway: 24 VDC (M12) Vehicle: 12/24 VDC with Smart Ignition (terminal block) Marine: 9 to 36 VDC (terminal block)	Railway: 24 to 110 VDC (M12) Vehicle: 12/24 VDC with Smart Ignition (terminal block)
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	Wall mount, DIN-rail	Wall mount, DIN-rail
Dimensions (W x D x H) without Mounting	288.5 x 211.3 x 85.75 mm (11.36" x 8.32" x 3.38")	164.1 x 108 x 44 mm (6.46" x 4.25" x 1.73")	164.1 x 128 x 44.1 mm (6.46" x 5.04" x 1.74")
Weight (net/gross)	5 kg (11.02 lb)/6.65 kg (14.66 lb)	0.77 kg (1.70 lb)/2 kg (4.41 lb)	1.02 kg (2.24 lb)/1.44 kg (3.17 lb)
Certifications	CE (Class A), LVD, FCC (Class A), EN 50155, EN 45545-2, E-Mark, IEC 60945 and DNV 2.4 certified	CE (Class A), FCC (Class A), EN 50155, EN 45545-2, E-Mark, IEC 60945 and DNV 2.4 certified	CE , FCC, LVD, EN45545-2 and EN50155 certified; ISO 7637-2 compliant
EOS Support	WES 7, Win 10 64-bit, Ubuntu 16.10 and later versions	Win 10 64-bit, WE8S, WES 7, VxWorks7, Ubuntu 15.10	Win 10 64-bit, Ubuntu 20.04

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Transportation Embedded Systems



Features\Models	UST510-52B-FL	UST500-517-FL
CPU Level	LGA1151 9th/8th gen Core™ i7/i5/i3, Celeron®, Pentium® or Xeon® (CPU TDP up to 65W)	LGA1151 7th/6th gen Intel® Core™ or Pentium® (up to 65W)
System Memory	2 x DDR4-2666 ECC/non-ECC SO-DIMM, up to 64GB	2 x DDR4-1866/2133/2400 SO-DIMM, up to 32GB
Chipset	Intel® C246	Intel® Q170
TPM	TPM 2.0	TPM 2.0
Serial	Up to 2 x terminal block serial console or RS-232/422/485*	2 x Serial console or RS-232/422/485
CAN bus	Expandable with CAN bus module (optional)	Expandable with CAN bus module (optional)
Display	1 x VGA (up to 1920 x 1200 @ 60Hz) 2 x HDMI (up to 4K/2K @ 30Hz)	1 x VGA, 1 x DVI-D, 1 x HDMI
Audio	1 x Mic-in, 1 x Line-out	1 x Mic-in, 1 x Line-out
Ethernet	8 x RJ-45 GbE LAN (with 2 SATA) 8 x M12 A-coded GbE LAN (with 4 SATA) 16 x RJ-45 GbE LAN (with 4 SATA) (Intel® I210-AT)	8 x RJ-45 GbE LAN (with 2 SATA) 16 x RJ-45 GbE LAN (with 4/2 SATA) 8 x RJ-45, 8 x M12 A-coded GbE LAN (with 4 SATA) 8 x M12 A-coded GbE LAN (with 4 SATA) (Intel® I210-AT)
PoE (PSE, Power Sourcing Equipment)	8 x RJ-45 & 8 x M12/16 x RJ-45 PoE output max. 90W with support for PoE (802.3af 15.4W/port) and PoE+ (802.3at 30W/port)	16 x RJ-45/8 x RJ-45 & 8 x M12 PoE output max. 200W with support for PoE & PoE+
USB	4 x USB 3.0	4 x USB 3.0
DIO	1 x Isolated terminal block 6-in/2-out DIO (isolation voltage: 2 kV)	1 x Isolated terminal block 6-in/2-out DIO (isolation voltage: 2 kV)
Expansion Interface	1 x Full-size Rev.1.2 PCIe Mini Card slot 1 x Half-size Rev.1.2 PCIe Mini Card slot 1 x M.2 Key B 3050/3042 1 x M.2 Key A + E 2230 2 x Flexible window	2 x Full-size PCIe Mini Card slot 2 x Half-size PCIe Mini Card slot 2 x External accessible SIM slot
Storage	2 x 2.5" 9.5 mm swappable SATA drive (with 2 SATA) 4 x 2.5" 9.5 mm swappable SATA drive (with 4 SATA) 2 x mSATA (occupied 2 x PCIe Mini Card slot)	2 x 2.5" internal SATA drive (with 2 SATA) 2 x 2.5" swappable SATA drive (with 2 SATA) 4 x 2.5" swappable SATA drive (with 4 SATA) 1 x mSATA (occupied PCIe Mini Card slot)
RAID function	2 SATA : Intel® RAID 0/1, 4 SATA : Intel® RAID 0/1/5/10	Intel® RAID 0/1/5/10
Watchdog Timer	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.
Power Supply	12/24 VDC with Smart Ignition	12/24 VDC with Smart Ignition
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
Mounting	Wall mount	Wall mount
Dimensions (W x D x H) without Mounting	8 RJ + 2 SATA SKU: 240 x 210.5 x 82.2mm (9.45" x 8.29" x 3.24") 8 M12 + 4 SATA SKU: 240 x 210.5 x 104.2mm (9.45" x 8.29" x 4.1") 16 RJ + 4 SATA SKU: 240 x 210.5 x 104.2mm (9.45" x 8.29" x 4.1")	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")
Weight (net/gross)	8 M12 + 4 SATA SKU: 4.16 kg (9.17 lb)/4.82 kg (10.62 lb) 8 M12 + 4 SATA SKU: 4.81 kg (10.60 lb)/6.06 kg (13.36 lb) 16 RJ + 4 SATA SKU: 4.796 kg (10.57 lb)/6.05 kg (13.33 lb)	2-internal SATA SKU: 3.95 kg (8.71 lb)/4.97 kg (10.96 lb) 2-swappable SATA SKU: 4.92 kg (10.85 lb)/5.75 kg (12.68 lb) 4-swappable SATA SKU: 4.92 kg (10.85 lb)/5.74 kg (12.65 lb)
Certifications	CE (Class A), FCC (Class A), E-Mark certified	CE (Class A), FCC (Class A), E-Mark (E13), EN 50155 certified
EOS Support	Win 10/11 64 bit, Linux	Win 10 64-bit, Win 7 64/32-bit

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Features\Models	UST100-504-FL	UST210-83K-FL	UST200-83H-FL
CPU Level	LGA1151 7th/6th gen Intel® Core™ or Pentium® (up to 35W)	Intel Atom® x5-E3940 4C @1.6 GHz, TDP: 9.5W	Intel Atom® x5-E3930 2C @ 1.3 GHz
System Memory	1 x DDR4-1866/2133/2400 SO-DIMM, up to 16GB	1 x DDR3L-1866 SO-DIMM, up to 8GB	1 x DDR3L-1866 SO-DIMM, up to 8GB
Chipset	Intel® H110	SoC integrated	SoC integrated
TPM	TPM 2.0	TPM 2.0	TPM 2.0
Serial	1 x DB9 serial console or RS-232/422/485	Up to 2 x Terminal block Serial console or RS-232/422/485	1 x DB9 Serial console or RS-232/422/485
CAN bus	N/A	1 x Terminal block CAN 2.0 A/B with support for SocketCAN	1 x Isolated CAN 2.0 A/B with support for SocketCAN
Display	1 x HDMI 1.4b	1 x HDMI (up to 1920 x 1080 @ 60Hz)	1 x VGA (HDMI by option)
Audio	1 x Mic-in 1 x Line-out (optional)	N/A	N/A
Ethernet	2 x RJ-45 10/100/1000 Mbps (Intel® I210-AT)	4 x RJ-45 10/100/1000 Mbps (Intel® I210-AT)	2 x RJ-45 10/100/1000 Mbps (Intel® I210-AT)
PoE (PSE, Power Sourcing Equipment)	N/A	4 x Configurable RJ-45 PoE output, up to 30W • PoE (802.3af 15.4W/port) • PoE+ (802.3at 30W/port)	N/A
USB	4 x USB 3.0	2 x USB 3.0	2 x USB 2.0
DIO	1 x DB15 8-bit programmable DIO	1 x DB9 8-bit programmable DIO	1 x 8-bit programmable DIO
Expansion Interface	2 x Full-size Rev.1.2 PCIe Mini Card slot 1 x Half-size Rev.1.2 PCIe Mini Card slot	1 x Full-size PCIe Mini Card slot with SIM slot 1 x Half-size PCIe Mini Card slot	1 x Full-size Rev.1.2 PCIe Mini Card slot 1 x Half-size Rev.1.2 PCIe Mini Card slot 1 x SIM slot
Storage	1 x Internal 2.5" SATA drive 1 x Full-sized mSATA (occupied PCIe Mini Card slot) 1 x Half-sized mSATA (occupied PCIe Mini Card slot)	1 x Internal 2.5" SATA drive (9.5 mm height) 1 x Half-sized mSATA (occupied PCIe Mini Card slot)	1 x mSATA (occupied PCIe Mini Card slot)
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	12/24 VDC with Smart Ignition	12/24 VDC with Smart Ignition	12/24 VDC with Smart Ignition
Operating Temperature	-40°C to +60°C (-40°F to +140°F) with W.T. peripheral	-40°C to +70°C (-40°F to +158°F) with W.T. peripheral	-40°C to +70°C (-40°F to +158°F) with W.T. peripheral
Mounting	Wall mount	Wall mount, DIN-rail	Wall mount, DIN-rail
Dimensions (W x D x H) without Mounting	185 x 150 x 65.15 mm (7.09" x 5.91" x 2.56")	Non-PoE SKU: 48 x 110.4 x 155 mm (1.89" x 4.33" x 6.1") PoE SKU: 67 x 110.4 x 155 mm (2.63" x 4.33" x 6.1")	31 x 100.4 x 125 mm (1.22" x 3.93" x 4.92")
Weight (net/gross)	1.71 kg (3.77 lb)/2.19 kg (4.83 lb)	Non-PoE SKU: 0.51 kg (1.12 lb)/0.79 kg (1.74 lb) PoE SKU: 0.84 kg (1.85 lb)/1.12 kg (2.47 lb)	0.3 kg (0.67 lb)/0.45 kg (0.99 lb)
Certifications	CE, FCC, ISO 7637-2 compliant	CE (Class A), FCC (Class A); E-mark certified	CE (Class A), FCC (Class A); E-mark certified
EOS Support	Win 10/7 64-bit, Ubuntu 18.04	Win 10 64-bit, Ubuntu 18.04	Win 10 64-bit, Ubuntu 18.04

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Certification Guide



Model Name	tBOX110	tBOX324	tBOX500	tBOX520	tBOX810
CE (Class A)	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
E-Mark	-	V	-	-	V
ISO 7637-2 (E-Mark)	Δ	V	Δ	-	V
EN 45545-2*	V	V	V	V	V
IEC 60945	-	V	V	-	V
DNV 2.4	-	V	-	-	V

V: Certified Δ: Compliant



Model Name	UST100	UST200	UST210	UST500	UST510
CE (Class A)	V	V	V	V	V
FCC	V	V	V	V	V
E-Mark	-	V	V	V	V
ISO 7637-2 (E-Mark)	Δ	V	V	V	V

V: Certified Δ: Compliant

X86-based DIN-Rail Embedded Systems



Features\Models	ICO520	ICO500-518	ICO330
CPU Level	Intel® Core™ i7-1265UE (10-core, 1.7 GHz) Intel® Core™ i5-1245UE (10-core, 1.5GHz) Intel® Core™ i3-1215UE (6-core, 1.2 GHz) Intel® Celeron® 7305E (5-core, 1.00 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 Atom® x6212RE (2-core, 1.20 GHz) Intel Atom® x6414RE (4-core, 1.50 GHz)
System Memory	SO-DIMM DDR4-3200, up to 32GB	DDR4-2133 SO-DIMM, up to 16GB	1 x DDR4-3200 SO-DIMM, up to 32GB
Chipset	SoC integrated	SoC integrated	SoC integrated
TPM	TPM 2.0	TPM 2.0	TPM 2.0
Serial	4 x Isolated RS-232/422/485 (4-wire, phoenix type, only for full type) Isolation voltage: 1.5 kV	1 x DB9 RS-232/422/485 (MIO modules with more COM ports)	2 x Isolated terminal block RS-232/422/485 (MIO modules with more COM ports)
CAN bus	N/A	N/A	N/A
Display	2 x HDMI	1 x VGA 1 x HDMI	1 x HDMI
Ethernet	4 x RJ-45 isolated 2.5 Gbps (Intel® I226-IT)	2 x 10/100/1000 Mbps (Intel® I210-IT)	3 x RJ-45 isolated 2.5 Gbps (Intel® I226-IT)
Expansion Interface	1 x M.2 Key B 3050/3052 1 x Full-size Rev.1.2 PCIe Mini Card slot 1 x Half-size Rev.1.2 PCIe Mini Card slot 2 x SIM slot 1 x MIO	2 x Full-size PCIe Mini Card slot 1 x External SIM slot	1 x M.2 Key B 3050/3052 1 x Full-size Rev.1.2 PCIe Mini Card slot 1 x Half-size Rev.1.2 PCIe Mini Card slot 2 x SIM slot 1 x MIO
DIO	1 x Isolated 8-in/8-out DIO (only for full type)	1 x Isolated 4-in/4-out DIO (terminal block)	1 x Isolated 8-in/8-out DIO (only for full type)
USB	4 x USB 3.1	4 x USB 3.0	2 x USB 3.1
Storage	1 x Internal 2.5" SATA drive 1 x mSATA (occupied 1 x PCIe Mini Card slot) 1 x M.2 (PCIe Gen2x4): NVMe (2242/2280, optional) 1 x eMMC (optional)	1 x External CFast™ 1 x 2.5" SATA SSD/HDD	1 x Internal 2.5" SATA drive 1 x mSATA (occupied 1 x PCIe Mini Card slot) 1 x M.2 (PCIe Gen3x2): NVMe (2242/2280, optional) 1 x eMMC (optional)
Watchdog Timer	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.
Power Input	9 to 36 VDC (terminal block) 12 to 24 VDC (typical)	12 to 48 VDC (terminal block)	9 to 36 VDC (terminal block) 12 to 24 VDC (typical)
Operating Temperature	With fan kit: -40°C to +70°C (-40°F to +158°F) Without fan kit: i7-1265UE/i5-1245UE: -40°C to +50°C (-40°F to +122°F) i3-1215UE/7305E: -40°C to +60°C (-40°F to +140°F)	-40°C to +70°C (-40°F to +158°F) w/ 2 PIM (PIM700 excluded) -40°C to +60°C (-40°F to +140°F) w/ 1 PIM700, 1 the other PIM -40°C to +50°C (-40°F to +122°F) W/ 2 PIM700	-40°C to +70°C (-40°F to +158°F)
Dimensions (W x D x H)	83 x 110 x 155 mm (3.27" x 4.33" x 6.1")	145 x 125 x 155 mm (5.70" x 4.92" x 6.10")	51 x 110 x 155 mm (20.08" x 4.33" x 6.1")
Weight (net/gross)	1.0 kg (2.2 lb)/1.50 kg (3.3 lb)	2.2 kg (4.85 lb)/2.7 kg (5.95 lb) (PIM module excluded)	1.0 kg (2.2 lb)/1.50 kg (3.3 lb)
Certifications	CE, FCC	CE, FCC	CE, FCC
Mounting	DIN-rail, wall mount (optional)	DIN-rail, wall mount (optional)	DIN-rail, wall mount (optional)
EOS Support	Win 10 IoT, Linux	Win 10 IoT, Linux	Win 10 IoT, Linux
Software Support	eAPI	eAPI	eAPI

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X86-based DIN-Rail Embedded Systems



Features\Models	ICO300-83B	ICO120-E3350	ICO300-83M (ATEX/C1D2)
CPU Level	Intel® Celeron® N3350 1.1 GHz Intel® Pentium® N4200 1.1 GHz	Intel® Celeron® N3350 1.1 GHz	Intel Atom® x5-E3930
System Memory	1 x DDR3L 1866 SO-DIMM, up to 8GB	1 x DDR3L 1866 SO-DIMM, up to 8GB	1 x DDR3L-1866 SO-DIMM, up to 8GB
Chipset	SoC integrated	SoC integrated	SoC integrated
TPM	TPM 2.0	TPM 2.0	TPM 2.0
Serial	4 x DB9 isolated RS-232/422/485 (ICO300-83B-4COM) 2 x DB9 isolated RS-232/422/485 (ICO300-83B-2COM)	DB9 RS-232/422/485 (up to 2 ports sharing DB9 with CAN)	2 x Isolated RS-232/422/485 (Phoenix type) 4 x Isolated RS-232/422/485 (4-wire, Phoenix type)
CAN bus	N/A	CAN 2.0 A/B (up to 2 ports sharing DB9 with Serial)	N/A
Display	1 x HDMI	1 x HDMI	1 x HDMI
Ethernet	2 x 10/100/1000 Mbps (Intel® I211-AT)	2 x 10/100/1000 Mbps (Intel® I210-IT)	3 x 10/100/1000 Mbps (Intel® I211-AT)
Expansion Interface	2 x Full-size PCIe Mini Card slot	1 x Full-size Rev.1.2 PCIe Mini Card slot 1 x Half-size Rev.1.2 PCIe Mini Card slot	1 x M.2 Key B 3052 1 x Full-size Rev.1.2 PCIe Mini Card slot 1 x Half-size Rev.1.2 PCIe Mini Card slot
DIO	1 x 8-bit programmable DIO	1 x 8-bit programmable DIO sharing DB9 with Serial and CAN on the bottom side	1 x Isolated 8-in/8-out DIO
USB	4 x USB 3.0	2 x USB 2.0	2 x USB 3.0
Storage	1 x mSATA 1 x 2.5" SATA SSD/HDD	1 x mSATA 1 x eMMC on board (optional)	1 x mSATA 1 x Internal 2.5" SATA drive 1 x eMMC on board (optional)
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 (terminal block, typical range: 12 to 24 VDC)	9 to 36 VDC (typical range: 12 to 24 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 +75°C (-40°F to +167°F)
Dimensions (W x D x H)	48 x 110 x 155 mm (1.88" x 4.33" x 6.1")	31 x 100 x 125 mm (1.22" x 3.93" x 4.92")	66 x 110 x 155 mm (2.48" x 4.33" x 6.1")
Weight (net/gross)	1.0 kg (2.2 lb)/1.50 kg (3.3 lb)	0.3 kg (0.67 lb)/0.45 kg (0.99 lb)	1.0 kg (2.2 lb)/1.50 kg (3.3 lb)
Certifications	CE, FCC	CE, FCC, UL	CE, FCC, ATEX, C1D2
Mounting	DIN-rail, wall mount (optional)	DIN-rail, wall mount (optional)	DIN-rail, wall mount (optional)
EOS Support	Win 10 IoT, Linux	Win 10 IoT, Linux	Win 10 IoT, Linux
Software Support	eAPI	eAPI	eAPI

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RISC-based DIN-Rail Embedded Systems



Features\Models	ICO230	rBOX630	Agnet200-FL-DC	IFB122
CPU Level	NXP i.MX 8M Plus Arm® Cortex®-A53/M7 industrial 1.6 GHz	NXP i.MX 6, ARM® Cortex®-A9, 800 MHz	NXP i.MX 6UltraLite, ARM® Cortex®-A7, 528 MHz	NXP i.MX 6UltraLite, ARM® Cortex®-A7, 528 MHz
System Memory	1 x LPDDR4 2GB onboard	1 x DDR3-1600 1GB onboard	1 x DDR3L-1600 256MB onboard	1 x DDR3-1600 256MB onboard
Serial	4 x Isolated RS-232/422/485	4 x RS-232/422/485	1 x RS-232/422/485 (selected by software)	2 x RS-232/422/485 (selected by software)
CAN bus	2 x Isolated CAN FD	2 x CAN 2.0 B	1 x CAN bus	N/A
Console	1 x Console port (Mini USB)	Yes For user setting with debug	Yes For user setting with debug	Yes For user setting with debug
Ethernet	2 x 10/100/1000 Mbps (isolation 1.5 kV)	1 x 10/100/1000 Mbps 1 x 10/100 Mbps (isolation 1.5 kV)	1 x 10/100 Mbps (isolation 1.5 kV)	2 x 10/100 Mbps (isolation 1.5 kV)
Expansion Interface	1 x M.2 Key E 2230 (USB 2.0 + PCIe interface) 1 x Full-size PCIe Mini Card slot (USB2.0 interface) with 1 x SIM slot	1 x PCIe Mini Card slot (USB signal only) 1 x PCIe Mini Card slot (with support for USB & PCIe interfaces)	2 x mPCIe Card slot (USB signal only) 1 x SIM slot	1 x mPCIe Card slot (USB signal only) 1 x SIM slot
DIO	N/A	1 x DIO (8-in/8-out) (isolation 2 kV)	1 x DIO (4-in/4-out)	1 x DIO (2-in/1-out)
USB	2 x USB 2.0	1 x USB 2.0 OTG	1 x USB 2.0	1 x USB 2.0
Display	1 x HDMI	1 x HDMI	N/A	N/A
Storage	1 x eMMC 16GB onboard 1 x Micro SD card slot	1 x eMMC 8GB flash onboard 1 x SDHC Card	1 x eMMC 4GB onboard 1 x Micro SD card slot	1 x eMMC 4GB onboard
Watchdog Timer	0.5 to 128 sec. (time resolution of 0.5 sec.)	1 to 255 sec. (time resolution of 1 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	12 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)	-40°C to +70°C (-40°F to +158°F)
Dimension (W x D x H)	48 x 110 x 155 mm (1.89" x 4.33" x 6.1")	55 x 155 x 110 mm (2.16" x 6.10" x 4.33")	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)	TBC	0.9 kg (2 lb)/ 1.3 kg (2.87 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)
Certification	CE, FCC	Heavy Industrial CE, FCC Part 18, UL60950-1	CE, FCC	CE, FCC
OS Support	Yocto (Linux Kernel: 5.15)	Yocto (Linux Kernel: 5.10)	Yocto (Linux Kernel: 5.10)	Yocto (Linux Kernel: 5.10)
Mounting	DIN-rail, wall mount (optional)	DIN-rail, wall mount (optional)	DIN-rail, wall mount (optional)	DIN-rail, wall mount (optional)

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DIN-Rail Cybersecurity Gateways

NEW



Features \ Models	iNA110	iNA200
Form Factor	DIN-rail, wall mount (optional)	DIN-rail, wall mount (optional)
Processor	Intel Atom® x5-E3930/E3940	Intel Atom® x6212RE/x6414RE
Chipset	SoC integrated	SoC integrated
BIOS	AMI SPI Flash BIOS	AMI SPI Flash BIOS
Memory	Technology	DDR4-1600
	Max Capacity	8GB non-ECC
	Socket	1 x 204-pin SO-DIMM
Network Interface	Ethernet	4 x GbE RJ-45 (Intel® I210-IT) with 1-pair LAN Bypass
		2 x 10/100/1000 Mbps 2 x 2.5 GbE 2 x 1G SFP (Intel® I210-IS)
Storage		1 x mSATA 1 x 2.5" SSD
		1 x eMMC onboard (optional) 1 x 2.5" SSD
I/O	Serial	1 x RS-232/422/485 (terminal block)
	USB	2 x USB 3.0
	Management	1 x RJ-45 for console
	Display	1 x HDMI
Expansion Interface		1 x Half-size PCIe Mini Card slot (SATA/USB signal) 1 x Full-size PCIe Mini Card slot (USB signal)
		1 x M.2 Key B 3042/3052 (PCIe + USB interface) 1 x Full-size PCIe Mini Card slot (USB + SATA interface)
TPM	TPM 2.0	TPM 2.0
Fanless	Yes	Yes
Power Supply	9 to 36 VDC	9 to 36 VDC
Operating Temperature	-40°C to +70°C (-40°F to +158°F)	-40°C to +70°C (-40°F to +158°F)
OS Support	Win 10, Linux	Win 10, Linux
Dimensions (W x D x H)	51 x 110 x 155 mm (2.01" x 4.33" x 6.10")	66 x 127 x 150 mm (2.6" x 5" x 5.9")
Certifications	CE, FCC	CE, FCC

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Industrial Chassis

NEW





Features/Models	ECM570	AX60810	AX61135TM
Height	-	-	1U
Number of Slots	7	7	1
Backplane Selection	IMB540, IMB700, IMB530, IMB523R, IMB524R, IMB525R, IMB520R, IMB521R, IMB524, IMB523, IMB502, IMB501, IMB500, MMB501	N/A	N/A
MB Support	Yes, 12" x 9.6" (ATX), 9.6" x 9.6" (mATX)	Yes, 12" x 9.6" (ATX), 9.6" x 9.6" (mATX)	Yes, 12" x 9.6" (ATX)
Drive Capacity	5.25"	2	1
	3.5"	1	2
Cooling System	Rear 80 x 25mm Front 120 x 25mm	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)	357.9 x 176.5 x 410 mm (14.09" x 6.95" x 16.14")	196±1.0 x 407.4±1.0 x 330±1.0 mm (7.72" x 16.04" x 13")	482±1.0 x 469.50±1.0 x 44±1.0 mm (18.98" x 18.48" x 1.73")
Weight (net/gross)	TBC	9 kg (19.84 lb)/10.3 kg (22.7 lb)	4.2 kg (9.26 lb)/6.7 kg (14.77 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, ATX6022/14L, ATX6022/14G, ATX6022/13L, ATX6022/14GP7	FAB100, FAB101, FAB112, FAB113, FAB114, FAB118, FAB119, ATX6022/14, ATX6022/14GP7, ATX6022/14G, ATX6022/13L
MB Support	Yes, 12" x 9.6" (ATX)	Yes, 12" x 9.6" (ATX), 9.6" x 9.6" (mATX)	Yes, 12" x 9.6" (ATX)
Drive Capacity	5.25"	1	3
	3.5"	3 (2 internal)	2 (1 internal)
Cooling System	1 x 8 cm	1 x 12 cm	1 x 12 cm
Fault Detection	N/A	N/A	N/A
Power Supply	PS/2 type	PS/2 type	PS/2 type (optional HRP)
Dimensions (W x D x H)	481.4±1.0 x 450±1.0 x 89.5±1.0 mm (18.95" x 17.72" x 3.52")	479.3±1.0 x 447.85±1.0 x 177±1.0 mm (18.87" x 18.63" x 6.97")	484.7±1.0 x 537.35±1.0 x 176.7±1.0 mm (19.08" x 21.16" x 6.96")
Weight (net/gross)	12 kg (26.45 lb)/13.5 kg (29.77 lb)	18 kg (39.68 lb)/19.5 kg (43 lb)	18 kg (39.68 lb)/19.5 kg (43 lb)

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Embedded MicroBoxes

Model	Accessory Specifications			Dimensions (W x D x H)	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	MANO500 MANO520
 ECM300	1 x 3.5" or 1 x 2.5"	2 x PCIe x8 or 1 x PCIe x16	ATX 250W Input: AC 115 to 230V Output: +3.3V @ 10A, +5V @ 10A, +12V @ 8.5A, -12V @ 0.4A, +5VSB @ 1A, +5VSB @ 2.5A	335 x 250 x 93.5 mm	MANO500 MANO520
 ECM500	N/A	N/A	N/A	217.2 x 300 x 74 mm	MANO842 MANO300 MANO500 MANO520 MANO540 MANO560
 ECM550	N/A	N/A	N/A	204.6 x 205 x 45 mm	MANO311 MANO521

Industrial Systems



Features\Models	IPC920	IPC960A
CPU Level	13th/12th gen Intel® Xeon® or Core™, up to 65W	13th/12th gen Intel® Core™, up to 65W
System Memory	2 x 262-pin DDR5 4800/4000 ECC or non ECC SO-DIMM, up to 64GB	2 x 262-pin DDR5 4800/4000 SO-DIMM, up to 64GB
Chipset	Intel® H610E/R680E	Intel® H610E/Q670E
Expansion I/O Module	N/A	AX93511/AX93512/AX93516/AX93519/MIO160 (optional)
Display	1 x DisplayPort++ 1 x HDMI 1.4b	1 x DVI-D 1 x DisplayPort++ 1 x HDMI 1.4b
Audio	Mic-in, Line-out (optional)	Mic-in, Line-out
Ethernet	1 x 2.5GbE (Intel® I226-V) 1 x GbE (Intel® I219-LM)	1 x 2.5GbE (Intel® I226-V) 1 x GbE (Intel® I219-LM)
Serial	2 x RS-232/422/485	1 x RS-232/422/485
USB	Intel® H610E: 2 x USB 3.2 Gen2x1 (10G) Type A 2 x USB 3.2 Gen1x1 (5G) Type A 1 x USB 2.0 (Internal, up to 30mm) 180D type A Intel® R680E: 4 x USB 3.2 Gen2x1 (10G) Type A 1 x USB 2.0 (Internal, up to 30mm) 180D Type A	Intel® H610E: 2 x USB 3.2 Gen2x1 (10G) Type A 2 x USB 3.2 Gen1x1 (5G) Type A 2 x USB 2.0 1 x USB 2.0 (internal, up to 30mm) 180D Type A Intel® Q670E: 6 x USB 3.2 Gen2x1 (10G) Type A 1 x USB 2.0 (internal, up to 30mm) 180D Type A
Expansion Interface	1 x PCIe x16 Gen3 (IPC920-H-F1E/IPC920-R-F1E) 1 x PCIe Mini card slot with SIM slot 1 x M.2 Key E	1 x PCIe Mini Card slot with Sim slot 1 x M.2 Key B + 1 M.2 Key E with SIM slot (Q670E, optional)
Storage	2 x 2.5" swappable SSD/HDD 1 x M.2 Key M	2 x 2.5" swappable HDD 1 x M.2 Key M (Q670E)
Watchdog Timer	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.
Power Input	18 to 36 VDC	18 to 36 VDC
Operating Temperature	-10°C to +60°C with W.T. HDD/SSD	-10°C to +60°C with W.T. HDD/SSD
Mounting	Wall mount, Din-rail, bookshelf mount	Wall mount, Din-rail, bookshelf mount
Dimensions (W x D x H)	IPC920-H-F1/IPC920-R-F1: 83.5 x 192 x 230 mm (3.29" x 7.56" x 9.06") IPC920-H-F1E/IPC920-R-F1E: 118.5 x 192 x 230 mm (4.67" x 7.56" x 9.06")	83.5 x 192 x 260 mm (3.29" x 7.60" x 10.24")
Weight (net/gross)	IPC920-H-F1, IPC920-R-F1: 3.2 kg/4.9 kg IPC920-H-F1E, IPC920-R-F1E: 3.7 kg/5.4 kg	4.2 kg/5.2 kg
Certifications	CE (EN61000-6-4/EN61000-6-2), FCC	CE (EN61000-6-4/EN61000-6-2), FCC
EOS Support	Win 10/11, Linux	Win 10/11, Linux

Industrial Systems



Features\Models	IPC962A	IPC964A
CPU Level	13th/12th gen Intel® Core™, up to 65W	13th/12th gen Intel® Core™, up to 65W
System Memory	2 x 262-pin DDR5 4800/4000 SO-DIMM, up to 64GB	2 x 262-pin DDR5 4800/4000 SO-DIMM, up to 64GB
Chipset	Intel® H610E/Q670E	Intel® Q670E
Expansion I/O Module	AX93511/AX93512/AX93516/AX93519/MIO160 (optional)	AX93511/AX93512/AX93516/AX93519/MIO160 (optional)
Display	1 x DVI-D 1 x DisplayPort++ 1 x HDMI 1.4b	1 x DVI-D 1 x DisplayPort++ 1 x HDMI 1.4b
Audio	Mic-in, Line-out	Mic-in, Line-out
Ethernet	1 x 2.5GbE LAN (Intel® I226-V) 1 x GbE LAN (Intel® I219-LM)	1 x 2.5GbE LAN (Intel® I226-V) 1 x GbE LAN (Intel® I219-LM)
Serial	1 x RS-232/422/485	1 x RS-232/422/485
USB	Intel® H610E: 2 x USB 3.2 Gen2x1 (10G) Type A 2 x USB 3.2 Gen1x1 (5G) Type A 2 x USB 2.0 1 x USB 2.0 (internal, up to 30mm) 180D Type A Intel® Q670E: 6 x USB 3.2 Gen2x1 (10G) Type A 1 x USB 2.0 (internal, up to 30mm) 180D Type A	6 x USB 3.2 Gen2x1 (10G) Type A 1 x USB 2.0 (internal, up to 30mm) 180D Type A
Expansion Interface	1 x PCIe Mini Card slot with Sim slot 1 x M.2 Key B + 1 M.2 Key E with SIM slot (Q670E, optional) EIO121: 1 x PCIe x16 + 1 PCIe x8 EIO122: 1 x PCIe x16 + 1 x PCI or 2 x PCI	1 x PCIe Mini Card slot with Sim slot 1 x M.2 Key B + 1 M.2 Key E with SIM slot (optional) EIO141: 1 x PCIe x16 + 1 x PCIe x8 + 2 x PCIe x4 EIO142: 1 x PCIe x16 + 1 x PCI x4 or 2 x PCI
Storage	2 x 2.5" swappable HDD 1 x M.2 Key M (Q670E)	2 x 2.5" swappable HDD 1 x M.2 Key M
Watchdog Timer	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.
Power Input	18 to 36 VDC	18 to 36 VDC
Operating Temperature	-10°C to +60°C with W.T. HDD/SSD	-10°C to +60°C with W.T. HDD/SSD
Mounting	Wall mount	Wall mount
Dimensions (W x D x H)	170 x 192 x 260 mm (6.70" x 7.60" x 10.24")	205 x 192 x 260 mm (8.08" x 7.60" x 10.24")
Weight (net/gross)	5.1 kg/6.2 kg	5.6 kg/6.7 kg
Certifications	CE (EN61000-6-4/EN61000-6-2), FCC	CE (EN61000-6-4/EN61000-6-2), FCC
EOS Support	Win 10/11, Linux	Win 10/11, Linux

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GPU Workstations



Features\Models	iHPC100	iHPC300
CPU Level	LGA1700 12th gen Intel® Core™ i9/i7/i5/i3, Pentium® or Celeron®, up to 125W	LGA4189 3rd gen Intel® Xeon® Scalable processor, up to 270W
System Memory	4 x 288-pin DDR4-3200 R-DIMM unbuffered non-ECC memory, up to 128GB	6 x DDR4-3200 R-DIMM ECC memory, up to 384GB
Chipset	Intel® Q670E	Intel® C621A
BIOS	AMI BIOS	AMI BIOS
Expansion I/O Module	PCIe x16 (Gen4) PCIe x4 (Gen4) PCIe x4 (Gen4) PCIe x4 (Gen4) PCI PCIe x4 (Gen4)	PCIe x8 PCIe x16 (Gen4) M.2 Key M 2280 (signal: x4) PCIe x16 (Gen4) PCIe x8 slot (signal: x0 or x8) PCIe x16 (signal: x16 or x8) PCIe x8
Display	1 x VGA 1 x DVI-D 1 x HDMI	VGA
Audio	HD Codec audio as MIC-in/Line-in/Line-out	HD codec audio as MIC-in/Line-in/Line-out/Speaker-out with audio kit AX93242 (optional)
PS/2	1 x PS/2 keyboard and mouse	1 x PS/2 keyboard and mouse
Ethernet	1 x 10/100/1000Mbps (Intel® I210-AT) 1 x 10/100/1000Mbps (Intel® I219-LM)	2 x 10/100/1000Mbps (Intel® I210-AT)
Serial	1 x RS-232/422/485	1 x RS-232/422/485
USB	6 x USB 3.2 Gen 1x1 (rear I/O) 2 x USB 3.2 Gen 1x1 (internal, box header) 4 x USB 2.0 (internal, pin header) 1 x USB 2.0 (internal, 180D Type A)	4 x USB 3.1 Gen1 (rear I/O) 2 x USB 3.1 Gen1 (internal box header) 6 x USB 2.0 (internal box header) 1 x USB 2.0 (180D Type A)
Storage	4 x SATA3 with RAID 0/1/5/10 1 x NVMe M.2 Key M 2280 (PCIe x4)	6 x SATA3 with RAID 0/1/5/10 1 x NVMe M.2 Key M 2280 (PCIe x4)
Watchdog Timer	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.
Power Input	750W AC input voltage: 100 to 240V	1200W AC input voltage: 100 to 240V 2000W AC input voltage: 200 to 240V
Operating Temperature	0°C to +40°C (+32°F to +104°F)	0°C to +40°C (+32°F to +104°F)
Mounting	N/A	N/A
Dimensions (W x D x H)	462 x 330 x 196 mm (18.2" x 13" x 7.7")	430 x 174.8 x 515 mm (16.9" x 6.9" x 20.3")
Weight (net/gross)	TBC	17.15 kg (37.8 lb)/ 21.78 kg (48 lb)
Certifications	TBC	CE/FCC
EOS Support	Win 11 Linux: Ubuntu 20.04	Windows Server 2019, Linux: Ubuntu 20.04
Others	Supports HDD drive bays for big data storage Door lock design to avoid intrusion	Supports up to 6 accelerator cards

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Machine Vision Systems



Features/Models	MVS100-323-FL	MVS900-511-FL
CPU Level	Intel Atom® x5-E3940 (1.6GHz)	7th/6th gen Intel® Core™ i7/i5/i3 or Celeron®, up to 65W
System Memory	1 x DDR3L SO-DIMM, up to 8GB	2 x DDR4-2133/2400 un-buffered SO-DIMM, up to 32GB
Chipset	SoC integrated	Intel® H110
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
Display	1 x HDMI 1 x VGA	1 x HDMI 1 x VGA
Audio	N/A	YES
PoE	2 x IEEE802.3af GbE LAN	4 x IEEE802.3at GbE LAN
Ethernet	1 x 10/100/1000 Mbps	2 x 10/100/1000 Mbps
USB	2 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
Expansion Interface	N/A	1 x Full-size PCIe Mini Card slot 1 x Internal USB connector
Storage	1 x Full-size PCIe Mini Card slot (mSATA signal)	2 x Swappable 2.5" HDD (9.5mm height)
TPM	TPM 2.0	TPM 2.0
Watchdog Timer	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.
Power Input	24 VDC±10%	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 7/6th 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")
Weight (net/gross)	0.6 kg (1.32 lb) / 0.9 kg (1.98 lb)	5 kg (11.02 lb) / 5.9 kg (13 lb)
Mounting	Wall mount, DIN-rail	Wall mount, DIN-rail
Certifications	CE, FCC	CE, FCC
EOS Support	Win 10 64-bit	Win 10 64-bit

OPS+ & OPS Digital Signage Players



Features/Models	OPS500-520-H	OPS700-520
CPU Level	LGA1200 9th/8th gen Intel® Core™ i7/i5/i3 or Celeron®, 35W TDP	8th gen Intel® Core™ i7/i5/i3 or Celeron®, 35W TDP
Chipset	Intel® H310	Intel® Q370
System Memory	2 x DDR4-2400 SO-DIMM, up to 32GB	2 x DDR4-2400 SO-DIMM, up to 32GB
Pluggable Engine Box	OPS compliant	OPS+ & OPS compliant
Intel® AMT	N/A	AMT 11.0
TPM	TPM 2.0	TPM 2.0
I/O	2 x USB 2.0 2 x USB 3.2 Gen1 Type A 1 x RS-232 1 x 10/100/1000 Mbps (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)	2 x USB 2.0 2 x USB3.2 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)
JAE TX-25A	1 x DisplayPort (4K@60Hz) 1 x HDMI 2.0 (4K@60Hz) 2 x USB 2.0 1 x USB 3.2 Gen1 1 x Audio (Line-out) 1 x UART (TX/RX)	1 x DisplayPort (4K@60Hz) 1 x HDMI 2.0 (4K@60Hz) 2 x USB 2.0 1 x USB 3.0 Gen1 1 x Audio (Line-out) 1 x UART (TX/RX)
HRS FX-18	N/A	1 x DisplayPort (4K@60Hz) 1 x PCIe x4
Storage	1 x M.2 Key M 2280 SATA (NVMe optional)	1 x M.2 Key M 2280 SATA (NVMe optional)
Expansion Interface	1 x M.2 Key E 2230 for Wi-Fi	1 x M.2 Key E 2230 for Wi-Fi
Power Supply	12 to 19 VDC	12 to 19 VDC
Dimensions (W x D x H)	200 x 119 x 30 mm (7.87" x 4.68" x 1.18")	200 x 119 x 30 mm (7.87" x 4.68" x 1.18")
Weight (net/gross)	1 kg (2.21 lb) / 1.5 kg (3.3 lb)	1 kg (2.21 lb) / 1.5 kg (3.3 lb)
Operating Temperature	0°C to +45°C (+32°F to +113°F) (with airflow 1.2m/s)	0°C to +45°C (+32°F to +113°F) (with airflow 1.2m/s)
Certifications	CE, FCC Class A	CE, FCC Class A

Digital Signage Players



Features\Models	DSP521	DSP511	DSP310
CPU Level	Intel® Core™ i5-1335UE Intel® Core™ i3-1215UE Intel® processor U300E	11th gen Intel® Core™ i5/i3 or Celeron®	Intel® processor N100
Chipset	N/A	SoC Integrated	N/A
System Memory	2 x DDR4-3200 SO-DIMM, up to 32GB	2 x DDR4-3200 SO-DIMM, up to 64GB	LPDDR5 8GB memory onboard
TPM	Integrated TPM 2.0	TPM 2.0	Integrated TPM 2.0
I/O	2 x DisplayPort ++ 2 x HDMI 2.0 (lockable) 2 x RS-232 x USB 3.0 x USB 2.0 1 x Power and reset button 1 x Power LED 1 x DC power input (lockable) 1 x GbE (Intel® I219) 1 x 2.5GbE (Intel® I225-V) 1 x Line-out 4 x Antenna opening	3 x USB 3.2 Gen 2 1 x USB 2.0 1 x 2.5G 1 x GbE 1 x Device management 4 x HDMI 2.0 1 x Audio jack (combo) 1 x RS-232 1 x DC power input (lockable) 1 x SIM slot 1 x HDD LED 1 x Power switch 1 x Reset switch 1 x Remote power switch 6 x Antenna opening	1 x USB 3.0 3 x USB 2.0 2 x GbE LAN 1 x HDMI 2.0 1 x DisplayPort 1.4 1 x Audio jack (combo) 1 x TF card slot 1 x Power switch
Storage	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
Expansion Interface	1 x M.2 Key E 2230 for Wi-Fi/Bluetooth with support for Wi-Fi 5, Wi-Fi 6, Wi-Fi 6E (CNV1) 1 x M.2 Key B 3042/3052 for 3G/4G/5G 1 x SIM slot	1 x M.2 Key E 2230 for Wi-Fi/Bluetooth 1 x M.2 Key B 3052 for 5G/LTE 1 x SIM slot	1 x M.2 Key M 2280 1 x TF card slot
Power Supply	+12V DC-in	+12V DC-in	+12V DC-in
Dimensions (W x D x H)	200 x 160 x 29 mm (7.8" x 6.2" x 1.14")	260 x 160 x 25 mm (10.24" x 6.3" x 0.99")	124.5 x 112 x 43 mm (4.9" x 4.4" x 1.7")
Weight (net/gross)	1.3 kg (2.86 lb)/2.3 kg (5.07 lb)	1.3 kg (2.86 lb)/2.07 kg (4.6 lb)	0.5 kg (1.1 lb)/1 kg (2.2 lb)
Operating Temperature	0°C to +45°C (+32°F to +113°F) disabling CPU Turbo boost	0°C to +50°C (+32°F to +122°F)	0.5 kg (1.1 lb)/1 kg (2.2 lb) 0°C to 40°C (32°F to 104°F) with 0.7m/s air flow
Certifications	CE, FCC class A	CE, FCC Class A, BSMI	CE, FCC class A



Features\Models	DSP302	DSP300-318	DSP600-211
CPU Level	Intel® Celeron® processor N6210/J6413	Intel Atom® x5-E3950 Intel® Pentium® N4200 Intel® Celeron® N3350 Intel® Celeron® J3455	AMD Ryzen™ Embedded V1807B/V1605B
Chipset	SoC integrated	SoC integrated	SoC integrated
System Memory	LPDDR4 4GB memory onboard (8GB optional)	2 x DDR3L-1600 SO-DIMM, up to 8GB	2 x 260-pin DDR4-2400 SO-DIMM, up to 32GB
TPM	Integrated TPM 2.0	N/A	TPM 2.0
I/O	4 x USB 3.2 Gen 2 1 x GbE 3 x HDMI 2.0 (CPU: J6413) 2 x HDMI 2.0 (CPU: N6210) 1 x Audio jack (combo) 1 x Power switch 2 x Antenna opening	3 x USB 3.0 1 x USB 2.0 1 x GbE 1 x Device management 1 x HDMI 1.4 1 x DisplayPort 1.2 1 x RS-232 DB9 1 x Line-out 1 x Mic-in 1 x Power switch 1 x Reset switch 1 x Remote switch 1 x Screw type VDC power input connector 4 x Antenna opening	2 x USB 3.0 2 x USB 2.0 2 x GbE 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
Storage	1 x 64GB eMMC onboard (128G optional) 1 x M.2 Key B + M 2242 (SATA/PCIe)	1 x M.2 Key M 2280 (SATA/NVMe)	2 x M.2 Key M 2280 (SATA & NVMe)
Expansion Interface	1 x Full-size PCIe Mini Card slot for Wi-Fi/Bluetooth/3G/4G 1 x M.2 Key B + M 2242 1 x SIM slot	1 x M.2 Key E 2230 for Wi-Fi/Bluetooth 1 x M.2 key B 3042 for 4G/LTE 1 x SIM slot	1 x M.2 Key E for Wi-Fi/Bluetooth 1 x M.2 Key B for 4G/LTE 1 x SIM slot
Power Supply	+12V DC-in	+12V DC-in	+12V DC-in
Dimensions (W x D x H)	106.2 x 133 x 39 mm (4.19" x 5.24" x 1.54")	200 x 137.8 x 20 mm (7.87" x 5.4" x 0.79")	250 x 182.8 x 30 mm (9.84" x 7.19" x 1.18")
Weight (net/gross)	0.90 kg (1.98 lb)/1.57 kg (3.47 lb)	0.90 kg (1.98 lb)/1.57 kg (3.45 lb)	1.9 kg (4.18 lb)/2.9 kg (6.39 lb)
Operating Temperature	0°C to +45°C (+32°F to +113°F)	0°C to +50°C (32°F to 122°F) -40°C to +70°C (-40°F to 158°F) (E22K300115 only)	0°C to +45°C (32°F to +113°F) for V1605B 0°C to +40°C (32°F to +104°F) for V1807B
Certifications	CE, FCC class A	CE, FCC class A	CE, FCC Class A

Intelligent Medical Systems

NEW



Features\Models	mBOX500	mBOX600	mBOX100
CPU Level	12th gen Intel® Core™ i7/i5 (Alder Lake-P)	9th/8th gen Intel® Core™ i7/i5 (Coffee Lake)	8th gen Intel® Core™ i7/i5 (Whisky Lake-U)
System Memory	2 x DDR5-4800 SO-DIMM, up to 64GB	2 x DDR4-2666 SO-DIMM, up to 64GB	2 x DDR4-2400 SO-DIMM, up to 64GB
Chipset	SoC integrated	Intel® QM370	SoC integrated
BIOS	AMI	AMI	AMI
Display	1 x Thunderbolt 4 (7680 x 4320 @60Hz) 1 x DisplayPort 1.2 (7680 x 4320 @60Hz) 1 x VGA (optional)	1 x HDMI 1.4 (4096 x 2160 @30Hz) 2 x DisplayPort 1.2 (4096 x 2304 @60Hz)	1 x HDMI 1.4 (4096 x 2160 @30Hz) 1 x DisplayPort 1.2 (4096 x 2304 @60Hz)
Audio	1 x Mic-in (3.5mm Audio Jack) 1 x Line-out (3.5mm Audio Jack)	1 x Mic-in (3.5mm Audio Jack) 1 x Line-out (3.5mm Audio Jack)	1 x Mic-in (3.5mm Audio Jack) 1 x Line-out (3.5mm Audio Jack)
Others	TPM 2.0	TPM 2.0	TPM 2.0
Ethernet	2 x 100/1000/2500 Mbps	2 x 10/100/1000 Mbps (isolation)	2 x 10/100/1000 Mbps (isolation)
COM	N/A	2 x RS-232/422/485 (isolation)	2 x RS-232/422/485 (isolation)
USB	2 x USB 3.2 Gen2 Type A (front) 2 x USB 3.2 Gen2 Type A (rear)	4 x USB 3.1 Gen2 Type A (rear)	4 x USB 3.1 Gen2 Type A (rear)
Expansion Interface	1 x PCIe x16 slot for PCIe x8 Gen4 1 x PCIe x4 Gen3 slot	1 x PCIe Mini Card slot 1 x PCIe x16 Gen3 slot	1 x PCIe Mini Card slot
Storage	1 x 2.5" SATA3 SSD/HDD 1 x M.2 Key M 2210 (NVMe)	1 x 2.5" SATA3 SSD/HDD 1 x M.2 Key M 2280 (NVMe)	1 x 2.5" SATA3 SSD/HDD 1 x M.2 Key M 2280 (NVMe)
Watchdog Timer	65536 levels, 0 to 65535 sec.	65536 levels, 0 to 65535 sec.	65536 levels, 0 to 65535 sec.
Power Input	100 to 240 VAC	24 VDC	12 to 24 VDC
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	Wall mount
Dimensions (W x D x H)	681.5 x 260 x 627 mm (26.83" x 10.24" x 24.69")	250 x 240 x 90 mm (9.8" x 9.44" x 3.54")	250 x 220 x 60 mm (9.8" x 8.66" x 2.36")
Weight (net/gross)	40 kg	4 kg	3 kg
Certifications	CE, FCC IEC/EN 60601-1 compliant	CE, FCC IEC/EN 60601-1 compliant	CE, FCC IEC/EN 60601-1 compliant
EOS Support	Win 10 IoT, Win 11 IoT, Linux	Win 10 IoT, Linux	Win 10 IoT, Linux

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NEW



NEW



Features\Models	mHPC210	mHPC202	mHPC200
CPU Level	Dual socket LGA6096 for AMD EPYC™ 9004 series processors (scalable processors, up to 320W)	Dual Intel® Xeon® Gold processor	Dual Intel® Xeon® Gold 6226R
System Memory	24 x DDR5-4800 ECC RDIMM, up to 768GB	16 x DDR5-4800 ECC RDIMM, up to 512GB	12 x DDR4-2933 ECC RDIMM, up to 384GB
Chipset	SoC BMC (ASpeed AST2600)	PCH: Intel® Emmitsburg TDP 15W BMC: ASpeed AST2600	PCH: Intel® C621, TDP 15W BMC: ASpeed AST2500A2-GP Embedded Graphics SoC: SiliconMotion SM768
BIOS	AMI	AMI	AMI
Display	1 x VGA	1 x Single DisplayPort 1.2 (4096 x 2304 @60Hz)	1 x HDMI 1.4 (4096 x 2160 @30/24Hz)
Audio	N/A	Line-in/Line-out/Mic-in with 2 x 5 box header	N/A
Others	Supports iKVM and vMedia	N/A	Redundant BIOS/BMC with support for iKVM and vMedia
Ethernet	2 x GbE 1 x OCP NIC 3.0 (PCIe 5.0 x16) 1 x IPMI GbE	2 x 10 GbE (RJ-45) 1 x IPMI 1GbE (BMC)	1 x Network card in support of dual 10G Base-T & dual SFP+
COM	1 x RJ-45	N/A	N/A
USB	2 x USB 3.2 Gen1	4x USB 3.2 Gen1	4 x USB 3.0
Expansion Interface	2 x PCIe riser card inside: Riser Card #0: 2 x PCIe x16 Gen 4.0 slot Riser Card #1: 2 x PCIe x16 Gen 4.0 slot Riser Card #2: 1 x PCIe x8 Gen 5.0 slot 1 x Key M 2280/2260/2242/2230 (PCIe 3.0 x4) 1 x Key M 2280/2242 (PCIe 3.0 x4)	3 x PCIe riser card inside: Riser Card #0: 2 x PCIe x16, Gen 5.0 slot Riser Card #1: 2 x PCIe x16 Gen 5.0 slot Riser Card #2: 1 x PCIe x16 or 2 x PCIe x8 Gen 5.0 slot and 1 x M.2 2280	2 x PCIe riser card inside: Riser Card #0: 2 x PCIe x16 Gen3 slot Riser Card #1: 1 x PCIe x16 slot, 1 x PCIe x8 slot and M.2 Key M 2210
Storage	3 x Hot swappable SATA SSD 2 x Hot swappable U.3 SSD	6 x 2.5" SATA SSD 2 x 2.5" NVMe U.2 SSD	2 x 2.5" SATA SSD 2 x 2.5" NVMe U.2 SSD
Watchdog Timer	N/A	65536 levels, 0 to 65535 sec.	65536 levels, 0 to 65535 sec.
Power Input	1800W redundant ATX power supply	1800W redundant ATX power supply	1200W redundant ATX power supply
Operating Temperature	10°C to +35°C (50°F to +95°F)	0°C to +40°C (+32°F to +104°F)	0°C to +40°C (+32°F to +104°F)
Mounting	Rackmount	Rackmount	Rackmount
Dimensions (W x D x H)	751 x 430 x 88 mm (29.5" x 17" x 3.5")	700 x 430 x 88 mm (27.5" x 17" x 3.5")	600 x 430 x 88 mm (20.5" x 17" x 3.5")
Weight (net/gross)	TBC	TBC	11.9 kg (26 lb)/16.10 kg (35 lb)
Certifications	CE IEC 62368-1, FCC Class A compliant	CE IEC 62368-1, FCC Class A compliant	CE IEC 62368-1, FCC Class A compliant
EOS Support	Win Server 2016/2019/2022, Linux Ubuntu 21.04/20.04.3/18.04.5, CentOS 8.3/8.4	CentOS 7.6, Win 10 IoT	CentOS 7.6, Win 10 IoT

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AMR Controllers

NEW



NEW



Model Name	ROBOX500	ROBOX300
CPU Level	12th gen Intel® Core™ i7 processor (15W/28W)	Intel® Core™ i5-1145G7E
System Memory	2 x 260-pin DDR4-3200 SO-DIMM, up to 64GB	2 x 260-pin DDR4-3200 SO-DIMM, up to 64GB
Storage	1 x M.2 Key M 2280 (NVMe)	1 x 2.5" SATA 1 x M.2 Key M 2280 (NVMe)
DIO	1 x DIO with isolation (16-CH DI, 8-CH DO, 2-CH SSR)	8-CH GPIO with terminal block type
Display	1 x HDMI 1.4b	2 x HDMI 1.4b
Audio	1 x Mic-in 1 x Line-out	1 x Mic-in 1 x Line-out
Ethernet	2 x M12 GbE (Intel® I210) 1 x GbE (RJ-45, Intel® I210)	3 x RJ-45 10/100/1000/2500 Mbps (Intel® I226-IT)
COM	4 x 4-wire RS-232/RS-422/RS-485 2 x CAN 2.0 A/B with isolation	6 x RS-232/422/485 (RS-232 4-wire: TX/RX/RTS/CTS, RS-422/485 with 2kv isolation) (terminal block type) 2 x CAN bus module with 2kv isolation (terminal block type)
USB	4 x USB 3.2 Gen1 & USB 2.0 (M12) 1 x USB 2.0 Type A 1 x USB 3.1 Gen1 Type A	4 x USB 3.2 Gen1 Type A with support for on/off control 2 x USB 2.0 Type A with support for on/off control
Others	4 x GMSL camera interface (FAKRA universal type) 4 x Antenna opening	Lockable USB/LAN ports with screen-printed design Supports smart Ignition management
Expansion Interface	1 x M.2 Key E 2230 for Wi-Fi/Bluetooth 1 x M.2 Key B 3052 for 5G 1 x M.2 Key M 2242 for AI accelerator modules 1 x SIM slot	1 x Full-size PCIe Mini Card slot (USB + PCIe signal) 1 x M.2 Key E 2230 for Wi-Fi
Power Input	9 to 60 VDC (M12 A-code), typical 24V or 48V battery	9 to 36 VDC (terminal block type)
Operating Temperature	-20°C to +65°C (-4°F to +158°F) with 0 m/s air flow	-40°C to +60°C (-40°F to +140°F) with 0.5 m/s air flow
Dimensions (W x D x H)	289 x 106.5 x 161.7 mm (11.38" x 4.19" x 6.37")	264 x 170 x 61.4 mm (10.4" x 6.7" x 2.42")
Vibration Test	5 Grms (5 to 500Hz, X/Y/Z direction; random, operating)	Random 3 Grms with SSD; 5 Grms with M.2; 1 Grms with HDD; X, Y, Z Axis, 1 hour for each Axis
Weight (net/gross)	3.87 kg (8.53lb)	2.5 kg (5.51lb)
Certifications	CE, FCC Class A, IEC 60721-3-5 SM3	CE, FCC Class A
EOS Support	Linux Ubuntu 22.04 LTS	Linux Ubuntu 22.04 LTS
Software Support	Axiomtek AMR Builder Package Intel® OpenVINO™	Axiomtek AMR Builder Package Intel® OpenVINO™

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Fanless Touch Panel Computers



Features/Models	GOT107W-319	GOT110-316	GOT115-319
Display	7" WSVGA TFT LCD, 320 nits	10.4" XGA TFT LCD, 350 nits	15" XGA TFT LCD, 300 nits
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® Pentium® N4200, up to 2.5 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
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 4 x USB 3.0 1 x 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	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 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
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 1 x MicroSD card
Expansion Interface	1 x PCIe Mini Card slot 1 x M.2 Key E	2 x PCIe Mini Card slot	1 x PCIe 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	Win 11/10 (64-bit)	Win 10/11 (64-bit)	Win 10/11 (64-bit)
Power Supply	9 to 24 VDC with adapter cable	DC version: 12/19 to 24 VDC adapter cable AC version: 100 to 240 VAC-DC, 60W power adapter	9 to 24 VDC with adapter cable
Power Consumption	20.4W	24W	28.8W
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")	329.7 x 50 x 306 mm (13" x 2" x 12")
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)	3.2 kg (7.1 lb)/4.8 kg (10.6 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)
Mounting	Desktop stand, panel mount, wall mount, VESA mount	Desktop stand, panel mount, wall mount, VESA mount	Desktop stand, panel mount, wall mount, VESA mount
Certifications	CE, FCC	CE, FCC	CE, FCC

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Heavy-duty Fanless Touch Panel Computers

NEW



Features\Models	GOT317B-ADL-TRD	GOT315A-ELK-WCD	GOT315W-521
Display	17" SXGA LCD, 350 nits	15.6" WXGA TFT LCD, 400 nits	15.6" WXGA TFT LCD, 400 nits
CPU Level	LGA1700 socket 13th/12th gen Intel® Core™ i7/i5/i3 or Pentium® (up to 35W)	Intel® Celeron® J6412 (TDP 12W)	LGA1151 9th/8th gen Intel® Core™ i7/ i5/i3, Pentium® Gold or Celeron® (up to 35W)
Chipset	Intel® H610	SoC integrated	Intel® H310
System Memory	1 x 260-pin DDR4-3200 SO-DIMM, up to 32GB	1 x 260-pin DDR4 SO-DIMM, up to 32GB	1 x 260-pin DDR4-2666/2400 SO-DIMM up, to 32GB
I/O	1 x 9-pin D-sub male RS-232/422/485 1 x RS-232 via cable 1 x Flexible I/O window with support for COM3, COM4, DIO (on board by option) 1 x RJ-45 for 10/100/1000Mbps Ethernet (Intel® I219-V) 1 x RJ-45 for 10/100/1000/2500Mbps Ethernet (Intel® I225-V) 2 x USB 3.2 Gen1 (Type A) 2 x USB 2.0 (Type A) 1 x Phoenix type connector for DC power input 1 x Switch for power on/off (ATX) 1 x Line-out 2 x HDMI out 1.4b 1 x Remote power switch 1 x AT/ATX switch 1 x Grounding hole	1 x Flexible I/O (default 2 x RS-232) 1 x COM for RS-232/422/485 1 x RJ-45 2.5Gb Base-T Ethernet 1 x RJ-45 1Gb Base-T Ethernet 4 x USB 3.2 Gen2 (10 Gbps) 1 x Phoenix type connector for VDC input 1 x Switch for power on/off (ATX) 1 x Line-in/out 1 x HDMI 1.4 1 x VGA 1 x Remote power switch 1 x AT/ATX switch 1 x Grounding hole	1x 9-pin D-sub Male for RS-232 1 x RS-232/422/485 2x 10/100/1000 Mbps Ethernet 2 x USB 3.0 2 x USB 2.0 1 x Phoenix type connector for VDC 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 1 x Grounding hole
Storage	1 x 2.5" SATA HDD/SSD	1 x 2.5" SATA SSD 1 x mSATA	1 x 2.5" SATA HDD/SSD 1 x mSATA
Expansion Interface	1 x M.2 Key E 2230 (USB 2.0 + PCIe x1) 1 x PCIe Mini Card (USB + PCIe + Nano SIM slot)	1 x Full-size PCIe Mini Card slot 1 x M.2 Key E 2230 (for Wi-Fi)	1 x Full-size PCIe Mini Card slot 1 x M.2 Key E 2230 (for Wi-Fi)
Touchscreen	5-wire resistive touch screen	Projected capacitive multi-touch	Projected capacitive multi-touch
Operating System	EOS: Win 10 IoT/11 IoT OS: Win 10/11, Linux	EOS: Win 10 IoT/11 IoT OS: Win 10/11, Linux	EOS: Win 10 IoT OS: Win 10/11
Power Supply	12 to 24 VDC with terminal block	9 to 36 VDC with terminal block	12/19/24 VDC with terminal block
Power Consumption	120W	70.8W	70W
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)	398 x 77.5 x 330.45 mm (15.67" x 3.05" x 13")	409.18 x 59.4 x 265.18 mm (16.1" x 2.3" x 10.4")	396.8 x 77 x 247.1 mm (15.6" x 3.04" x 9.73")
Weight (net/gross)	11 kg (24.25 lb)/7.36 Kg (16.22 lb)	5.07kg(11.17 lb)/11.12kg(24.51lb)	6.5 kg(14.3 lb)/8.5kg(18.7 lb)
Operating Temperature	-10°C to 50°C (+14°F to +122°F)	-10°C to 50°C (+14°F to +122°F)	0°C to +50°C (+32°F to +122°F)
Mounting	Panel mount, wall mount, VESA mount, desktop stand	Panel mount, wall mount, VESA mount	Panel mount, wall mount, VESA mount
Certifications	CE Class A, IEC/EN61000-6-4, IEC/EN61000-6-2, FCC 47 CFR Part 15 Subpart B (Class A), UKCA, RoHS standard	CE, FCC	CE

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NEW



Features\Models	GOT315WL-845-PCT	GOT318A-ELK-WCD	GOT318W-521
Display	15.6" WXGA TFT LCD, 400 nits	18.5" FHD TFT LCD, 350 nits	18.5" FHD TFT LCD, 500 nits
CPU Level	Intel® Pentium® N3710 4C @ 1.6 GHz	Intel® Celeron® J6412 (TDP 12W)	LGA1151 9th/8th gen Intel® Core™ i7/ i5/i3, Pentium® Gold or Celeron® (up to 35W)
Chipset	SoC integrated	SoC integrated	Intel® H310
System Memory	1 x 204-pin DDR3L-1333/1600 SO-DIMM, up to 8GB	1 x 260-pin DDR4 2133/2400/2666/3200 SO-DIMM, up to 32GB	1 x 260-pin DDR4 2133/2400MHz SO-DIMM, up to 32GB
I/O	1 x RS-232 1 x RS-232/422/485 1 x Switch for power on/off (ATX) 1 x Line-out 2 x USB 3.0 2 x USB 2.0 2 x 10/100/1000 Mbps Ethernet	1 x Flexible I/O (default 2 x RS-232) 1 x COM for RS-232/422/485 1 x RJ-45 2.5Gb Base-T Ethernet (Intel® I226-LM with TSN) 1 x RJ-45 1Gb Base-T Ethernet (Intel® I210-AT) 4 x USB 3.2 Gen2 (10 Gbps) 1 x Phoenix type connector for DC power input 1 x Switch for power on/off (ATX) 1 x Line-in/out 1 x HDMI 1.4 1 x VGA 1 x Remote power switch 1 x AT/ATX switch (DC type only) 1 x Grounding hole (DC version)	1x 9-pin D-sub male for RS-232 1 x RS-232/422/485 2x 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
Storage	1 x 2.5" SATA HDD 1 x mSATA	1 x 2.5" SATA SSD (7 mm and 9.5 mm height; removable) 1 x mSATA	1 x 2.5" SATA HDD/SSD
Expansion Interface	2 x Full-size PCIe Mini Card slot	1 x Full-size PCIe Mini Card slot (PCIe + SATA + USB) 1 x M.2 Key E 2230 (for Wi-Fi)	1 x Full-size PCIe Mini Card slot 1 x M.2 Key E slot
Touchscreen	Projected capacitive multi-touch	Projected capacitive multi-touch	Projected capacitive multi-touch
Operating System	EOS: Win 10 IoT OS: Win 10	EOS: Win 10 IoT/11 IoT OS: Win 10/11, Linux	EOS: Win 10 IoT, Win 11 IoT OS: Win 10/11
Power Supply	DC version: 24 VDC	9 to 36 VDC with terminal block	12/19/24 VDC with terminal block
Power Consumption	72W	68.4W	120W
Watchdog Timer	255 levels, 0 to 255 sec.	255 levels, 0 to 255 sec.	255 levels, 0 to 255 sec.
Dimensions (W x D x H)	396.8 x 59 x 247.1 mm (15.6" x 2.3" x 9.73")	475 x 59.4 x 302 mm (18.7" x 2.3" x 11.89")	460.8 x 77 x 285 mm (18.11" x 3.04" x 11.22")
Weight (net/gross)	4.5 kg (9.9 lb)/6.5 kg (14.3 lb)	5.91 kg (13.02 lb)/ 7.95 kg (17.52 lb)	7.8kg (17.2lb)/10.2kg (22.5lb)
Operating Temperature	0°C to +50°C (+32°F to +122°F)	-10°C to 50°C (+14°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 mount, desktop stand	Panel mount, wall mount, VESA mount
Certifications	CE	CE, EN 61000-6-2, EN 61000-6-4, FCC Class A	CE

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Heavy-duty Fanless Touch Panel Computers



NEW



Features\Models	GOT318WL-845	GOT3187WL-834	GOT321A-ELK-WCD
Display	18.5" WXGA TFT LCD, 250 nits	18.5" WXGA TFT LCD, 250 nits 18.5" FHD TFT LCD, 500 nits	21.5" FHD TFT LCD, 400 nits
CPU Level	Intel® Pentium® N3710 4C @ 1.6 GHz	Intel® Celeron® J1900 4C @ 2.0 GHz	Intel® Celeron® J6412 (TDP 12W)
Chipset	SoC integrated	SoC integrated	SoC integrated
System Memory	1 x 204-pin DDR3L-1333/1600 SO-DIMM, up to 8GB	1 x 204-pin DDR3L-1333/1600 SO-DIMM, up to 8GB	1 x 260-pin DDR4 2133/2400/2666/3200 SO-DIMM, up to 32GB
I/O	1 x RS-232 1 x RS-232/422/485 1 x Switch for power on/off (ATX) 1 x Line-out 2 x USB 3.0 2 x USB 2.0 2 x 10/100/1000 Mbps Ethernet	2 x RS-232/422/485 1 x Switch for power on/off (ATX) 1 x Line-out 2 x USB 3.0 2 x USB 2.0 2 x 10/100/1000 Mbps Ethernet	1 x Flexible I/O (default 2 x RS-232) 1 x COM for RS-232/422/485 1 x RJ-45 2.5Gb Base-T Ethernet (Intel® I226-LM with TSN) 1 x RJ-45 1Gb Base-T Ethernet (Intel® I210-AT) 4 x USB 3.2 Gen2 (10 Gbps) 1 x Phoenix type connector for DC power input 1 x Switch for power on/off (ATX) 1 x Line-in/out 1 x HDMI 1.4 1 x VGA 1 x Remote power switch 1 x AT/ATX switch (DC type only) 1 x Grounding hole (DC version)
Storage	1 x 2.5" SATA HDD 1 x mSATA	1 x 2.5" SATA HDD 1 x CFast™ or 1 x mSATA	1 x 2.5" SATA SSD (7 mm and 9.5 mm height; removable) 1 x mSATA
Expansion Interface	2 x Full-size PCIe Mini Card slot	2 x Full-size PCIe Mini Card slot	1 x Full-size PCIe Mini Card slot (PCIe + SATA + USB) 1 x M.2 Key E 2230 (for Wi-Fi)
Touchscreen	Projected capacitive multi-touch or 5-wire Flat resistive touch (optional)	Projected capacitive multi-touch	Projected capacitive multi-touch
Operating System	EOS: Win 10 IoT OS: Win 10	EOS: WE8S, WES 7, Win 10 IoT OS: Win 7/8.1/10	EOS: Win 10 IoT/11 IoT OS: Win 10/11, Linux
Power Supply	DC version: 24 VDC	DC version: 9 to 36 VDC AC version: 12 VDC, 60W adapter	9 to 36 VDC with terminal block
Power Consumption	48W	49W (WXGA) 60W (FHD)	72W
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")	460.8 x 58.5 x 285 mm (18.11" x 2.3" x 11.22")	542 x 59.4 x 338 mm (21.34" x 2.3" x 10.4")
Weight (net/gross)	5.8 kg (12.8 lb)/8.2 kg (18.1 lb)	5.8 kg (12.8 lb)/8.2 kg (18.1 lb)	7.65 kg (16.87 lb)/10.152 kg (22.38 lb)
Operating Temperature	0°C to +50°C (+32°F to +122°F)	0°C to +40°C (+32°F to +104°F)	-10°C to 50°C (+14°F to +122°F)
Mounting	Panel mount, wall mount, VESA mount	Panel mount, wall mount, VESA mount	Panel mount, wall mount, VESA mount, desktop stand
Certifications	CE	CE	CE, EN 61000-6-2, EN 61000-6-4, FCC Class A

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Features\Models	GOT321W-521	GOT3217WL-845-PCT
Display	21.5" FHD TFT LCD, 250 nits	21.5" FHD TFT LCD, 250 nits
CPU Level	LGA1151 9th/8th gen Intel® Core™ i7/ i5/i3, Pentium® Gold or Celeron® (up to 35W)	Intel® Pentium® N3710 4C @ 1.6 GHz
Chipset	Intel® H310	SoC integrated
System Memory	1 x 260-pin DDR4 2133/2400MHz SO-DIMM, up to 32GB	1 x 204-pin DDR3L-1333/1600MHz SO-DIMM, up to 8GB
I/O	1x 9-pin D-sub male for RS-232 1 x RS-232/422/485 2x 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 Line-out 2 x USB 3.0 2 x USB 2.0 2 x 10/100/1000 Mbps Ethernet
Storage	1 x 2.5" SATA HDD/SSD	1 x 2.5" SATA HDD 1 x mSATA
Expansion Interface	1 x Full-size PCIe Mini Card slot 1 x M.2 Key E	2 x Full-size PCIe Mini Card slot
Touchscreen	Projected capacitive multi-touch	Projected capacitive multi-touch
Operating System	EOS: Win 10 IoT, Win 11 IoT OS: Win 10/11	EOS: Win 10 IoT OS: Win 10
Power Supply	12/19/24 VDC with terminal block	DC version: 24 VDC AC version: 12VDC, 60W adapter
Power Consumption	105W	48W
Watchdog Timer	255 levels, 0 to 255 sec.	255 levels, 0 to 255 sec.
Dimensions (W x D x H)	547.59 x 75.6 x 339.05 mm (21.56" x 2.98" x 13.49")	547.6 x 58.5 x 339.0 mm (21.56" x 2.30" x 13.35")
Weight (net/gross)	8.4 kg (18.5 lb)/11.3 kg (24.9 lb)	7.6 kg (16.8 lb)/10.5 kg (23.1 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 mount
Certifications	CE	CE

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Stainless Touch Panel Computers



Features\Models	GOT810-316	GOT810-845	GOT812W-511
Display	10.4" XGA TFT LCD, 450nits	10.4" XGA TFT LCD, 350 nits	12.1" WXGA TFT LCD, 400nits
CPU Level	Intel® Celeron® N3350 2 cores, up to 2.4GHz	Intel® Celeron® N3060 2C @ 1.6 GHz	Intel® Core™ i5-7300U 2.6GHz, up to 3.5 GHz
Chipset	SoC intergrated	SoC intergrated	SoC intergrated
System Memory	1 x 204-pin DDR3L-1600 SO-DIMM, up to 8GB	1 x DDR3L 1333 MHz SO-DIMM, up to 8GB	1 x 260-pin DDR4-2133 SO-DIMM, up to 16GB
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)	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)
Storage	1 x mSATA 1 x 2.5" SATA HDD	1 x mSATA 1 x SATA	1 x 2.5" SSD/SATA HDD
Expansion Interface	1 x Full-size PCIe Mini Card slot with mSATA 1 x Full-size PCIe Mini Card slot with SIM slot	2 x PCIe Mini Card slot	1 x Full-size PCIe Mini Card slot 1 x Half-size PCIe Mini Card slot
Touchscreen	Projected capacitive touch	5-wire resistive type or projected capacitive touch	Projected capacitive touch
Operating System	OS: Win 10	EOS: WES 7, WE8S OS: Win 7/8/8.1/10	EOS: Win 10 IoT OS: Win 10
Power Supply	12 VDC or 19 to 24 VDC	9 to 36 VDC	9 to 36 VDC
Power Consumption	36W	29W	56.5W
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)	283.1 x 55.2 x 239.5 mm (11.15" x 2.17" x 9.43")	284 x 56 x 241 mm (11.2" x 2.2" x 9.49")	332 x 55 x 234 mm (13.07" x 2.2" x 9.21")
Weight (net/gross)	3.47 kg (7.65 lb)/5.18 kg (11.42 lb)	2.8 kg (6.17 lb)/4 kg (8.82 lb)	4.55 kg (10.03 lb)/6 kg (13.22 lb)
Operating Temperature	0°C to +50°C (32°F to +122°F)	-10°C to +50°C (14°F to +122°F)	-20°C to +50°C (-4°F to +122°F)
Mounting	VESA mount	VESA mount	VESA mount
Certifications	CE	CE	CE

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Features\Models	GOT815A-TGL-WCD	GOT815L-511	GOT815W-511
Display	15.6" WXGA TFT LCD, 400nits	15" XGA TFT LCD, 420 nits	15.6" FHD TFT LCD, 400nits
CPU Level	Intel® Core™ i5-1145G7E 2.6 GHz or Celeron® 6305E 1.8 GHz	Intel® Core™ i5-7300U 3.5 GHz	Intel® Core™ i5-7300U 2.6GHz, up to 3.5 GHz
Chipset	SoC integrated	SoC integrated	SoC integrated
System Memory	1 x 260-pin DDR4-3200 SO-DIMM, up to 32GB	1 x 260-pin DDR4-2133 SO-DIMM, up to 16GB	1 x 260-pin DDR4-2133 SO-DIMM, up to 16GB
I/O	2 x RS-232/422/485 (default RS-232, M12 A-coded) 4 x USB 2.0 (M12 A-coded) 1 x 2.5GBASE-T Ethernet with Intel® I225 (TSN and A-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 (A-coded) 1 x 10/100/1000 Mbps Ethernet (M12 X-coded) 1 x DC power connector (M12)
Storage	1 x 2.5" SATA SSD/HDD	1 x 2.5" SSD/SATA HDD	1 x 2.5" SSD/SATA HDD
Expansion Interface	1 x M.2 Key E (PCIe x1 + USB 2.0)	1 x Full-size PCIe Mini Card slot 1 x Half-size PCIe Mini Card slot	1 x Full-size PCIe Mini Card slot 1 x Half-size PCIe Mini Card slot
Touchscreen	Projected capacitive touch	5-wire resistive touch or projected capacitive multi-touch	Projected capacitive touch
Operating System	EOS: Win 10 IoT/11 IoT OS: Win 10/11 and Linux	EOS: Win 10 IoT OS: Win 10	EOS: Win 10 IoT OS: Win 10
Power Supply	12 to 24 VDC	9 to 36 VDC	9 to 36 VDC
Power Consumption	72W	45W	58.5W
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)	414.8 x 55 x 265.1 mm (16.33" x 2.2" x 10.44")	382 x 55 x 305 mm (15.4" x 2.17" x 12.01")	414.8 x 55 x 265.1 mm (16.4" x 2.2" x 10.43")
Weight (net/gross)	5.8 kg (12.78 lb)/8.8 kg (19.40 lb)	5.2 kg (11.46 lb)/8.4 kg (18.5 lb)	6.3 kg (13.88 lb)/7.5 kg (16.53 lb)
Operating Temperature	-20°C to +50°C (-4°F to +122°F)	-20°C to +50°C (-4°F to +122°F)	-20°C to +50°C (-4°F to +122°F)
Mounting	VESA mount	VESA mount	VESA mount
Certifications	CE, FCC	CE	CE

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Stainless Touch Panel Computers



Features\Models	GOT817L-511	GOT818A-TGL-WCD	GOT821A-TGL-WCD
Display	17" SXGA TFT LCD, 350 nits	18.5" FHD TFT LCD, 350 nits	21.5" FHD TFT LCD, 400 nits
CPU Level	Intel® Core™ i5-7300U 3.5 GHz	Intel® Core™ i5-1145G7E 2.6 GHz or Celeron® 6305E 1.8GHz	Intel® Core™ i5-1145G7E 2.6 GHz or Celeron® 6305E 1.8GHz
Chipset	SoC integrated	SoC integrated	SoC integrated
System Memory	1 x 260-pin DDR4-2133 SO-DIMM, up to 16GB	1 x 260-pin DDR4-3200 SO-DIMM, up to 32GB	1 x 260-pin DDR4-3200 SO-DIMM, up to 32GB
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, A-coded) 4 x USB 2.0 (A-coded) 1 x 2.5GBASE-T Ethernet with Intel® I225 (TSN and X-coded) in support of Wake-on-LAN and PXE Boot ROM 1 x DC power connector (M12 A-coded)	2 x RS-232/422/485 (default RS-232, A-coded) 4 x USB 2.0 (A-coded) 1 x 2.5GBASE-T Ethernet with Intel® I225 (TSN and X-Coded) in support of Wake-on-LAN and PXE Boot ROM 1 x DC power connector (M12 A-coded)
Storage	1 x 2.5" SSD/SATA HDD	1 x 2.5" SATA SSD (9.5mm height)	1 x 2.5" SATA SSD (9.5mm height)
Expansion Interface	1 x Full-size PCIe Mini Card slot 1 x Half-size PCIe Mini Card slot	1 x M.2 Key E (PCIe x1 + USB 2.0)	1 x M.2 Key E (PCIe x1 + USB 2.0)
Touchscreen	5-wire resistive touch or projected capacitive multi-touch	Projected capacitive multi-touch	Projected capacitive multi-touch
Operating System	EOS: Win 10 IoT OS: Win 10	EOS: Win 10 IoT/11 IoT OS: Win 10/11	EOS: Win 10 IoT/11 IoT OS: Win 10/11
Power Supply	9 to 36 VDC	12 to 24 VDC	12 to 24 VDC
Power Consumption	67.5W	76.8W	78.7W
Watchdog Timer	255 levels, 1 to 255 sec.	65536 levels, 0 to 65535 sec.	65536 levels, 0 to 65535 sec.
Front Bezel	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")	485.0 x 55 x 302.4 mm (19.1" x 2.2" x 11.91")	552 x 55 x 338.4 mm (21.73" x 2.2" x 13.33")
Weight (net/gross)	6.94 kg (15.3 lb)/10.2 kg (22.5 lb)	7.30 kg (16.09 lb)/10.5 kg (23.15 lb)	9.0 kg (19.84 lb) /12 kg (26.46 lb)
Operating Temperature	-20°C to +50°C (-4°F to +122°F)	-20°C to +50°C (-4°F to +122°F)	-20°C to +50°C (-4°F to +122°F)
Mounting	VESA mount	VESA mount	VESA mount
Certifications	CE	CE, EN 61000-6-2, EN 61000-6-4, FCC Class A, C1D2 (optional)	CE, EN 61000-6-2, EN 61000-6-4, FCC Class A, C1D2 (optional)

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Industrial Touch Panel Computer



Features\Models	P115-ADL-TRA
Display	15" XGA TFT LCD, 300 nits
CPU Level	LGA1700 socket 12th gen Intel® Core™ i7/i5/i3, Celeron® or Pentium® (TDP 35W/65W)
Chipset	Intel® H610
System Memory	2 x 260-pin DDR4-3200/2666/2400MHz SO-DIMM, up to 64GB
I/O	1 x RS-232 1 x RS-232/422/485 1 x HDMI 1 x VGA 1 x DisplayPort 2 x USB 3.2 Gen1 4 x USB 2.0 1 x AC socket 1 x 2500/1000/100/10Mbps Ethernet (Intel® I225-V) 1 x 1000/100/10Mbps Ethernet (Intel® I219-V) 1 x Mic-in/Line-out 1 x Remote power switch 1 x Flexible I/O window (optional)
Storage	1 x 2.5" SATA HDD (WT)/SSD
Expansion Interface	1 x PCIe x16
Touchscreen	5-wire resistive touch
Operating System	EOS: Win 11 IoT OS: Win 11
Power Supply	100 to 240 VAC
Power Consumption	120W
Watchdog Timer	255 levels, 1 to 255 sec.
Dimensions (W x D x H)	378.3 x 88.8 x 310.3 mm (14.89" x 3.5" x 12.22")
Weight (net/gross)	6.3kg (13.89lb) / 8.6kg (18.96lb)
Operating Temperature	0°C to +50°C (+32°F to +122°F)
Mounting	Wall mount, desktop stand
Certifications	CE, EN 61000-6-2, EN 61000-6-4, UKCA, FCC Class A

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Industrial Touch Monitors



Features\Models	P6103W-V3	P6121-V3	P6151-V3
Display Type	10.1" WXGA TFT	12.1" XGA TFT	15" XGA TFT
Front Bezel	Flat, NEMA 4/12 (IP65)-compliant	NEMA 4/12 (IP65)-compliant	NEMA 4/12 (IP65)-compliant
Max. Colors	16.7M	16.2M	16.2M
Active Area (mm)	216.96 x 135.60	245.76 x 184.32	304.128 x 228.096
Max. Resolution	1280 x 800	1024 x 768	1024 x 768
Pixel Pitch (H x V, mm)	0.1695 x 0.1695	0.24 x 0.24	0.297 x 0.297
Backlight	LED	LED	LED
Backlight MTBF (hrs)	25,000	30,000	30,000
Viewing Angle (H/V)	170°/170°	160°/140°	160°/160°
Response Time	25ms	16ms	16ms
Contrast Ratio	800 (TYP)	1000 (TYP)	800 (TYP)
Brightness (cd/m2)	350 nits	500 nits	420 nits
Display Control	OSD	OSD	OSD
I/O Connectors	1 x Screw type connector 1 x USB for touch 1 x VGA 1 x HDMI 1 x DisplayPort 1 x Line-in	1 x Power input with terminal block 1 x USB for touch 1 x VGA 1 x HDMI 1 x DisplayPort 1 x Line-in	1 x Screw type connector 1 x Power input with terminal block (optional) 1 x USB for touch 1 x VGA 1 x HDMI 1 x DisplayPort 1 x Line-in
Touchscreen	Projective capacitive multi-touch	5-wire resistive touch	5-wire resistive touch
Power Consumption	12W	22W	14W
Power Adapter	Screw-type 100 to 240 VAC-DC, 12V3A, 36W power adapter	24VDC with terminal block	AC version: Screw-type 100 to 240 VAC-DC, 12V3A, 36W power adapter DC version: 24VDC with terminal block
Dimensions (W x H x D)	260.8 x 194.1 x 38 mm (10.27" x 7.64" x 1.5")	311.81 x 250.31 x 54.95mm (12.28" x 9.85" x 2.16")	377.9 x 309.3 x 58 mm (19.69" x 12.18" x 2.28")
Weight (net/gross)	1.036 kg (2.28 lb)/1.6 kg (3.53 lb)	2.35 kg (5.18 lb)/2.8 kg (6.17 lb)	3.7 kg (8.15 lb)/5.9 kg (13 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)
Mounting	Panel mount, wall mount, VESA mount	Panel mount, wall mount, VESA mount	Panel mount, wall mount, VESA mount
Certifications	CE	CE	CE

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Industrial Touch Monitors



Features\Models	P6157W-V3	P6171-V3	P6187W-V3
Display Type	15.6" WXGA TFT	17" SXGA TFT	18.5" WXGA TFT
Front Bezel	Flat, NEMA 4/12 (IP65)-compliant	NEMA 4/12 (IP65)-compliant	Flat, NEMA 4/12 (IP65)-compliant
Max. Colors	16.7M	16.2M	16.7M
Active Area (mm)	344.232 x 193.536	337.92 x 270.33	409.8 x 230.4
Max. Resolution	1366 x 768	1280 x 1024	1366 x 768
Pixel Pitch (H x V, mm)	0.252 x 0.252	0.264 x 0.264	0.300 x 0.300
Backlight	LED	LED	LED
Backlight MTBF (hrs)	50,000	30,000	50,000
Viewing Angle (H/V)	170°/160°	170°/160°	170°/160°
Response Time	8ms	5ms	8ms
Contrast Ratio	500 (TYP)	1000 (TYP)	1000 (TYP)
Brightness (cd/m2)	400 nits	250 nits	450 nits
Display Control	OSD	OSD	OSD
I/O Connectors	1 x Screw type connector 1 x Power input with terminal block (optional) 1 x USB for touch 1 x VGA 1 x HDMI 1 x DisplayPort 1 x Line-in	1 x Screw type connector 1 x Power input with terminal block (optional) 1 x USB for touch 1 x VGA 1 x HDMI 1 x DisplayPort 1 x Line-in	1 x Screw type connector 1 x Power input with terminal block (optional) 1 x USB for touch 1 x VGA 1 x HDMI 1 x DisplayPort 1 x Line-in
Touchscreen	Projective capacitive multi-touch	5-wire resistive touch	Projective capacitive multi-touch
Power Consumption	17W	19W	21W
Power Adapter	AC version: Screw-type 100 to 240 VAC-DC, 12V3A, 36W power adapter DC version: 24VDC with terminal block	AC version: Screw-type 100 to 240 VAC-DC, 12V3A, 36W power adapter DC version: 24VDC with terminal block	DC version: 24VDC with terminal block
Dimensions (W x H x D)	397 x 247 x 54 mm (15.63" x 9.72" x 2.13")	410 x 338.3 x 58 mm (16.15" x 13.32" x 2.28")	460 x 285 x 53.2 mm (18.11" x 11.22" x 2.09")
Weight (net/gross)	4.1 kg (9.1 lb)/6.1 kg (13.44 lb)	4.45 kg (9.82 lb)/6.71 kg (14.8 lb)	7.56 kg (16.67 lb)/ 8.92 kg (19.67 lb)
Operating Temperature	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)
Mounting	Panel mount, wall mount, VESA mount	Panel mount, wall mount, VESA mount	Panel mount, wall mount, VESA mount
Certifications	CE	CE	CE

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Industrial Touch Monitors



Features\Models	P6191-V3	P6217W-V3	P624-C
Display Type	19" SXGA TFT	21.5" FHD TFT	23.8" FHD TFT LCD
Front Bezel	NEMA 4/12 (IP65)-compliant	Flat, NEMA 4/12 (IP65)-compliant	NEMA 4/12 (IP65)-compliant
Max. Colors	16.7M	16.7M	16.7M
Active Area (mm)	376.32 x 301.06	476.064 x 267.786	527.04 x 296.46
Max. Resolution	1280 x 800	1920 x 1080	1920 x 1080
Pixel Pitch (H x V, mm)	0.294 x 0.294	0.24795 x 0.24795	0.2745 x 0.2745
Backlight	LED	LED	LED
Backlight MTBF (hrs)	30,000	50,000	50,000
Viewing Angle (H/V)	170°/160°	178°/178°	178°/178°
Response Time	5ms	22ms	15ms
Contrast Ratio	1000 (TYP)	1000 (TYP)	1000 (TYP)
Brightness (cd/m2)	250 nits	250 nits	450 nits
Display Control	OSD	OSD	OSD
I/O Connectors	1 x Screw type connector 1 x Power input with terminal block (optional) 1 x USB for touch 1 x VGA 1 x HDMI 1 x DisplayPort 1 x Line-in	1 x Screw-type connector 1 x Power input with terminal block (optional) 1 x USB for touch 1 x VGA 1 x HDMI 1 x DisplayPort 1 x Line-in	1 x Power input with terminal block (DC version) 1 x USB for touch 1 x VGA 1 x HDMI 1 x DisplayPort 1 x Line-in
Touchscreen	5-Wire resistive touch	Projective capacitive multi-touch	Projective capacitive multi-touch
Power Consumption	17W	21W	36W
Power Adapter	DC version: 24VDC with terminal block	AC version: 100 to 240 VAC-DC, 36W power adapter DC version: 24VDC with terminal block	24VDC
Dimensions (W x H x D)	482 x 55 x 380 mm (18.98" x 2.17" x 14.96")	547.6 x 339.1 x 52.6 mm (21.56" x 13.35 x 2.07")	588 x 53.4 x 369.6 mm (23.15" x 2.2" x 14.55")
Weight (net/gross)	6 kg (13.23 lb)/7.5 kg (16.53 lb)	7.56 kg (16.67 lb)/8.92 kg (19.67 lb)	7.23 kg (15.93 lb)/ 10.82 kg (23.85 lb)
Operating Temperature	0°C to +45°C (+32°F to +113°F)	0°C to +50°C (+32°F to +122°F)	0°C to +50°C (+32°F to +122°F)
Mounting	Panel mount, wall mount, VESA mount	Panel mount, wall mount, VESA mount	Panel mount, wall mount, desktop stand, VESA mount
Certifications	CE	CE	CE, EN 61000-6-2, EN 61000-6-4, FCC Class A

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Medical Panel Computers



Features\Models	MPC103-845	MPC102-845	MPC152-845
Display	10.1" WXGA TFT, 350 nits	10.4" SVGA TFT, 350 nits	15" XGA TFT, 420 nits
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
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 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 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 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
Expansion Interface	2 x PCIe Mini Card slot	2 x PCIe Mini Card slot	2 x PCIe Mini Card slot
Touchscreen	Projected capacitive multi-touch	5-wire flat Resistive Type	5-wire flat Resistive Type
Power Supply	AC version: 100 to 240 VAC-DC, 65W power adapter DC version: 9 to 36 VDC with over current protection fuse	AC version: 100 to 240 VAC-DC, 65W power adapter DC version: 9 to 36 VDC with over current protection fuse	AC version: 100 to 240 VAC-DC, 65W power adapter DC version: 9 to 36 VDC with over current protection fuse
Watchdog Timer	255 levels, 0 to 255 sec.	255 levels, 0 to 255 sec.	255 levels, 0 to 255 sec.
Dimensions (W x D x H)	260.8 x 38 x 194.1 mm (10.27" x 1.5" x 7.65")	292.5 x 45.8 x 235.8 mm (1.52" x 1.8" x 9.28")	387.9 x 54.6 x 307.7 mm (15.27" x 2.14" x 12.11")
Weight (net/gross)	1.08 kg (2.38 lb)/2.18 kg (4.8 lb)	1.8 kg (3.96 lb)/3 kg (6.61 lb)	3.2 kg (7.05 lb)/5.1 kg (11.24 lb)
Operating Temperature	0° to +40°C (+32°F to +104°F)	0° to +40°C (+32°F to +104°F)	0° to +40°C (+32°F to +104°F)
Mounting	Desktop stand, panel mount, wall mount, VESA mount	Desktop stand, panel mount, wall mount, VESA mount	Desktop stand, panel mount, wall mount, VESA mount
Certifications	EN 60601-1 (ESD contact 8KV, air 15KV), CE, FCC	EN 60601-1 (ESD contact 8KV, air 15KV), CE, FCC	EN 60601-1 (ESD contact 8KV, air 15KV), CE, FCC

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Transportation Touch Panel Computers



Features\Models	GOT710S	GOT712S	GOT715S
Display	10.4" SVGA TFT LCD, 1000 nits	12.1" XGA TFT LCD, 800 nits	15" XGA TFT LCD, 800 nits
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
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)	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 PCIe Mini Card)	16GB flash onboard 1 x mSATA (occupied 1 PCIe Mini Card)	16GB flash onboard 1 x mSATA (occupied 1 PCIe Mini Card)
Expansion Interface	2 x Full-size PCIe Mini Card slot (slot2 for mSATA use only)	2 x Full-size PCIe Mini Card slot (slot2 for mSATA use only)	2 x Full-size PCIe Mini Card slot (slot2 for mSATA use only)
Touchscreen	5-wire resistive touchscreen	5-wire resistive touchscreen	5-wire resistive touchscreen
Operating System	Win 7/10, Win 10 IoT	Win 7/10, Win 10 IoT	Win 7/10, Win 10 IoT
Power Supply	Typical 24 to 110 VDC EN 50155 S3 20ms power interruption protection	Typical 24 to 110 VDC EN 50155 S3 20ms power interruption protection	Typical 24 to 110 VDC EN 50155 S3 20ms power interruption protection compliant
Watchdog Timer	255 levels, 1 to 255 sec.	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	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 (12.99" x 2.42" x 9.65")	400 x 61.5 x 300 mm (15.75" x 2.42" x 11.81")
Weight (net/gross)	2.6 kg (5.73 lb)/4.4 kg (9.7 lb)	2.95 kg (6.50 lb)/5.35 kg (11.79 lb)	4.03 kg (8.89 lb) / 6.43 kg (14.18 lb)
Operating Temperature	-40°C to +70°C (-40°F to +158°F)	-40°C to +70°C (-40°F to +158°F)	-25°C to +70°C (-13°F to +158°F)
Mounting	Wall mount, VESA mount	Wall mount, VESA mount	Wall mount, VESA mount
Certifications	CE, FCC Class A, EN 50155, EN 50121-3-2, EN 61373, and EN 45545-2 certified UIC-612-01 Keypad layout compliant	CE, FCC Class A, EN 50155, EN 50121-3-2, EN 61373, and EN 45545-2 certified	CE/FCC Class A, EN 50155 compliant

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Transportation Monitors



Features\Models	P710	P712	P7180
Display Type	10.4" XGA TFT LCD	12.1" XGA TFT LCD	18.5" FHD TFT LCD
Max. Colors	16.2M	16.7M	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
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	50,000	50,000
Viewing Angle (H/V)	176°/176°	178°/178°	178°/178°
Response Time	25ms	25ms	20ms
Contrast Ratio	1000 (TYP)	1000 (TYP)	1000 (TYP)
Brightness (cd/m2)	500 nits	600 nits	500 nits
Display Control	OSD	OSD	OSD
I/O Connectors	1 x M12 A-coded male 5-pin DC-in 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 A-coded male 5-pin DC-in 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 A-coded male 5-pin DC-in 1 x Remote control 1 x VGA 1 x HDMI 1 x DVI-D
Touchscreen	5-wire resistive touchscreen	5-wire resistive touchscreen	N/A
Power Supply	24 to 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")	442.6 x 46.2 x 266.8 mm (17.43" x 1.82" x 10.5")
Weight (net/gross)	1.85 kg (4.08 lb) /3.29 kg (7.26 lb)	2.3 kg (5.07 lb) /4.36 kg (9.62 lb)	3.41 kg (7.5 lb) /4.81 kg (10.6 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	Wall mount, VESA mount	Wall mount, VESA mount	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 certified	CE, FCC, EN 50155 compliant

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Modular Panel PCs



Features\Models	ITC150WM	ITC151	ITC211
Display	15.6" FHD TFT LCD 300 nits 16:9 radio 1920 x 1080 pixels	15.6" HD TFT LCD 220 nits 16:9 radio 1366 x 768 pixels	21.5" FHD TFT LCD 250 nits 16:9 radio 1920 x 1080 pixels
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) SDM510L: Intel® SDM Large (SDM-L, 175 x 100 mm)	SDM300S: Intel® SDM Small (SDM-S, 60 x 100 mm) SDM510L: Intel® SDM Large (SDM-L, 175 x 100 mm)
CPU Level	SDM300S: Intel® Pentium® N4200 SDM500L: Intel® Celeron® 4305UE	SDM300S: Intel® Pentium® N4200 SDM510L: Intel® Core™ i7/i5/i3 or Intel® Celeron®	SDM300S: Intel® Pentium® N4200 SDM510L: Intel® Core™ i7/i5/i3 or Intel® Celeron®
Chipset	SoC Integrated	SoC Integrated	SoC Integrated
System Memory	SDM300S: LPDDR4 2400 MHz 4GB onboard (8GB optional) SDM500L: DDR4 4GB to 64GB	SDM300S: LPDDR4 2400 MHz 4GB onboard (8GB optional) SDM510L: DDR4 4GB to 64GB	SDM300S: LPDDR4 2400 MHz 4GB onboard (8GB optional) SDM510L: DDR4 4GB to 64GB
SDM-S I/O	1 x GbE LAN 2 x USB 3.0 Type A	1 x GbE LAN 2 x USB 3.0 Type A	1 x GbE LAN 2 x USB 3.0 Type A
SDM-L I/O	1 x GbE LAN 4 x USB 3.0 Type A 1 x Audio output 1 x Micphone input	1 x 2.5G LAN 3 x USB 3.2 Gen2 Type A 1 x USB 2.0 Type A 3 x HDMI 2.0	1 x 2.5G LAN 3 x USB 3.2 Gen2 Type A 1 x USB 2.0 Type A 3 x HDMI 2.0
Additional 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)	N/A	N/A
Storage	SDM300-S: 1 x eMMC 64GB onboard SDM500-L: 1 x M.2 Key M 2242 1 x M.2 Key B 2280	SDM300-S: 1 x eMMC 64GB onboard SDM510L: 1 x M.2 Key M 2242	SDM300-S: 1 x eMMC 64GB onboard SDM510L: 1 x M.2 Key M 2242
Expansion Interface	1 x M.2 Key E 2230 (for Wi-Fi)	1 x M.2 Key E 2230 (for Wi-Fi)	1 x M.2 Key E 2230 (for Wi-Fi)
Touchscreen	Projected capacitive multi-touch	Projected capacitive multi-touch	Projected capacitive multi-touch
OS Support	Win 10	Win 10, Win 11	Win 10, Win 11
Power Supply	96W (12V/8A) AC to DC power adapter	60W (24V/2.5A) AC to DC power adapter	120W (24V/5A) AC to DC power adapter
Power Consumption	Average 45W	Average 45W	Average 60W
Watchdog Timer	255 levels, 1 to 255 sec./min.	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")	393.5 x 33.5 x 248.5 mm (15.5" x 1.3" x 9.8")	526.1 x 46.3 x 317.6 mm (20.7" x 1.8" x 12.5")
Weight (net/gross)	3.2 kg (7.04lb)/5.4kg (11.9 lb)	3.1 kg (6.9 lb)/5.6 kg (12.4 lb)	6.9 kg (15.2 lb)/9.9 kg (21.9 lb)
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	Desktop stand, floor stand, and wall mount (optional)	Desktop stand, floor stand, and wall mount (optional)	Desktop stand, floor stand, and wall mount (optional)
Certifications	CE, FCC Class A	CE, FCC Class A	CE, FCC Class A



Features\Models	ITC241	ITC550
Display	23.8" FHD TFT LCD 250 nits 16:9 radio 1920 x 1080 pixels	55" 4K UHD TFT LCD 500 nits 16:9 radio 3840 x 2160 pixels
SDM Module	SDM300S: Intel® SDM Small (SDM-S, 60 x 100 mm) SDM510L: 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 SDM510L: Intel® Core™ i7/i5/i3 or Intel® Celeron®	SDM300S: Intel® Pentium® N4200 SDM500L: Intel® Celeron® 4305UE
Chipset	SoC Integrated	SoC Integrated
System Memory	SDM300S: LPDDR4 2400 MHz 4GB onboard (8GB optional) SDM510L: DDR4 4GB to 64G	SDM300S: LPDDR4 2400 MHz 4GB onboard (8GB optional) SDM500L: DDR4 4GB to 64G
SDM-S I/O	1 x GbE LAN 2 x USB 3.0 Type A	1 x GbE LAN 2 x USB 3.0 Type A
SDM-L I/O	1 x 2.5G LAN 3 x USB 3.2 Gen2 Type A 1 x USB 2.0 Type A 3 x HDMI 2.0	1 x GbE LAN 4 x USB 3.0 Type A 1 x Line-out 1 x Micphone input
Storage	SDM300-S: 1 x eMMC 64GB onboard SDM510L: 1 x M.2 Key M 2242	SDM300-S: 1 x eMMC 64GB onboard SDM500-L: 1 x M.2 Key B 2242 1 x M.2 Key M 2280
Expansion Interface	1 x M.2 Key E 2230 (for Wi-Fi)	1 x M.2 Key E 2230 (for Wi-Fi)
Touch Screen	Projected capacitive 10-point multi-touch	10-point IR multi-touch
Operation System	Win 10, Win 11	Win 10
Power Supply	120W (12V/5A) AC to DC power adapter	100 to 240V AC cord
Power Consumption	Average 65W	Average 250W
Dimensions (W x D x H)	580.3 x 47.5 x 354.7mm (22.8" x 1.9" x 14")	1271.7 x 74.7 x 742.6 mm (50" x 2.9" x 29.2")
Weight (net/gross)	9.8 kg (21.6 lb)/13 kg (28.7 lb)	21 kg (42 lb)/33 kg (73 lb)
Operating Temperature	0°C to +40°C (+32°F to +104°F)	0°C to +40°C (+32°F to +104°F)
Mounting	Desktop stand, floor stand, and wall mount (optional)	Desktop stand, floor stand, and wall mount (optional)
Certifications	CE, FCC Class A	CE, FCC Class A

Self-Service Kiosks



Features\Models	SSK315	SSK515
SDM Module	SDM300S: Intel® SDM Small (SDM-S, 60 x 100 mm) SDM500L: Intel® SDM Large (SDM-L, 175 x 100 mm)	SDM510L: Intel® SDM Large (SDM-L, 175 x 100 mm)
CPU Level	SDM300S: Intel® Pentium® N4200 or SDM500L: Intel® Celeron® 4305UE or Intel® Core™ (optional)	SDM510L: Intel® Core™ i7/i5/i3 or Intel® Celeron®
Chipset	SoC Integrated	SoC Integrated
System Memory	SDM300S: Onboard LPDDR4 2400 MHz 4GB (8GB optional) SDM500L: DDR4-2400 4GB to 64GB	DDR4-3200 4GB to 64GB
Display	15.6" FHD TFT LCD 400 nits 16:9 aspect ratio 1920 x 1080 pixels	15.6" FHD TFT LCD 300 nits 16:9 aspect ratio 1920 x 1080 pixels
SDM-S I/O	1 x GbE LAN 2 x USB 3.0 Type A	N/A
SDM-L I/O	1 x GbE LAN 4 x USB 3.0 Type A 1 x Line-out 1 x Mic-in	1 x 2.5G LAN 3 x USB 3.2 Gen2 Type A 1 x USB 2.0 Type A 3 x HDMI 2.0
Storage	64GB and above	128GB and above
Expansion Interface	1 x M.2 Key E 2230 slot (for Wi-Fi)	1 x M.2 Key E 2230 slot (for Wi-Fi/4G LTE)
Touchscreen	10-point projected capacitive touch with direct bonding	10-point projected capacitive touch with direct bonding
Operating Devices	Thermal printer (2" or 3") Barcode scanner (1D or 2D) RFID reader (13.56MHz)	Thermal printer (2" or 3") Barcode scanner (1D or 2D) RFID reader (13.56MHz)
Power Supply	120W (24V5A)	120W (24V5A)
Power Consumption	Average 90W	Average 90W
Watchdog Timer	255 levels	255 levels
Dimensions (W x D x H)	405 x 288 x 509 mm (15.94" x 11.34" x 20.04")	380 x 85 x 471 mm (14.96" x 3.34" x 18.54")
Weight (net/gross)	20 kg (44.1 lb)/23 kg (50.7 lb)	9.4 kg (20.7 lb)/14.5 kg (31.9 lb)
Operating Temperature	0°C to +40°C (+32°F to +104°F)	0°C to +40°C (+32°F to +104°F)
Operating Humidity	20% to 80%, non-condensing	20% to 80%, non-condensing
Certifications	CE, FCC Class A	CE, FCC Class A

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Network Security and Edge Server Platforms



Features \ Models	NA875	NA870	NA860	
Form Factor	2U, 19" rackmount	2U, 19" rackmount	2U, 19" rackmount	
Platform	Processor	Dual 6th Gen Intel® Xeon® Scalable processors (Granite Rapids-SP)	Dual 3rd Gen Intel® Xeon® Scalable processors (Ice Lake-SP)	Dual 2nd Gen Intel® Xeon® Scalable processors (Cascade Lake/Skylake)
	Chipset	N/A	Intel® C621A/C627A	Intel® C621
	Acceleration Technology	Intel® QAT	Intel® QAT (C627A)	N/A
BIOS	AMI SPI Flash BIOS	AMI SPI Flash BIOS	AMI SPI Flash BIOS	
Memory	Technology	DDR5-6400	DDR4-3200	DDR4-2400
	Max. Capacity	1024GB	1280GB	384GB
	Socket	16 x 288-pin R-DIMM	20 x 288-pin R-DIMM	12 x 288-pin R-DIMM
	ECC Support	Non-ECC/ECC	Non-ECC/ECC	Non-ECC/ECC
Network Interface	Ethernet (default)	1 x 10/100/1000 Mbps	2 x 10/100/1000 Mbps	2 x 10/100/1000 Mbps
	Ethernet (max.)	65 x 10/100/1000 Mbps	66 x 10/100/1000 Mbps	66 x 10/100/1000 Mbps
	LAN Bypass	Upon LAN module	Upon LAN module	Upon LAN module
	Controllers	By NIC module	Intel® I210	Intel® I210
Storage	LAN Module	8 x NIC slot (dual CPUs) 4 x NIC slot (single CPU)	8 x NIC slot (dual CPUs) 4 x NIC slot (single CPU)	8 x NIC slot (dual CPUs) 4 x NIC slot (single CPU)
	HDD/SSD	2 x 2.5" U.3 (hot swappable)	2 x 2.5" HDD (hot swappable)	2 x 2.5" HDD (hot swappable)
	M.2 SSD	4 x M.2 Key M 22110/2280 (PCIe)	1 x M.2 Key M 2242/2280 (PCIe) 1 x M.2 Key M 2242/2280 (SATA)	N/A
	mSATA	N/A	N/A	1 x Full-Size
I/O	Button	Yes	Yes	N/A
	LED Indicator	Power, HDD, GPIO programmable, and Link/Act with transfer rate	Power, HDD, GPIO programmable, and Link/Act with transfer rate	Power, HDD, GPIO programmable, and Link/Act with transfer rate
	USB	2 x USB 3.0	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)
TPM	LCM Module	Yes	Yes	Yes
	Display	1 x VGA	1 x VGA	1 x VGA
IPMI	TPM 2.0 onboard	TPM 2.0 onboard	TPM 2.0 onboard	
Watchdog	IPMI	2.0	Optional	Optional
	Watchdog	Yes	255 stepping for system reset and 8 stepping for LAN Bypass	255 stepping for system reset and 8 stepping for LAN Bypass
Power Supply	Power Type	Redundant	Redundant	Redundant
	Watts	1300W	1300W	800W
	Input	100 to 240 VAC	100 to 240 VAC	100 to 240 VAC
Expansion Interface	Connector	Inlet C14	Inlet C14	Inlet C14
	Expansion Interface	N/A	2 x PCIe x16 (optional, 1 slot for each CPU)	2 x PCIe x8 (optional)
Environment	Operating Temperature	0°C to +40°C (+32°F to +104°F)	0°C to +40°C (+32°F to +104°F)	0°C to +40°C (+32°F to +104°F)
	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% to 95% RH, non-condensing	10% to 95% RH, non-condensing
Mechanical	Construction	Steel	Steel	Steel
	Dimensions (W x H x D)	88 x 430 x 663 mm (3.46" x 16.93" x 26.10")	88 x 430 x 663 mm (3.46" x 16.93" x 26.10")	88 x 430 x 562 mm (3.46" x 16.93" x 22")
	Weight (net/gross)	12 kg (26.4 lb)/20 kg (44 lb)	12 kg (26.4 lb)/20 kg (44 lb)	12 kg (26.4 lb)/20 kg (44 lb)
OS Support	Linux Kernel	Linux Kernel	Linux Kernel	
Certifications	CE, FCC Class A	CE, FCC Class A	CE, FCC Class A	

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Network Security and Edge Server Platforms

NEW



Features \ Models	NA873	NA861	NA721
Form Factor	1U, 19" rackmount	1U, 19" rackmount	1U, 19" rackmount
Processor	5th Gen Intel® Xeon® Scalable processor (Emerald rapids)	2nd Gen Intel® Xeon® Scalable processor (Cascade Lake/Skylake)	Intel® Xeon® D-1700 family (Ice Lake D) (default: Intel® Xeon® D-1712TR)
Chipset	Intel® C741	Intel® C621	SoC Integrated
Acceleration Technology	Intel® QAT	N/A	N/A
BIOS	AMI SPI Flash BIOS	AMI SPI Flash BIOS	AMI SPI Flash BIOS
Technology	DDR5-4800	DDR4-2400	DDR4-2933
Max. Capacity	512GB	192GB	384GB
Socket	8 x 288-pin R-DIMM	6 x 288-pin R-DIMM	6 x 288-pin R-DIMM/U-DIMM
ECC Support	ECC	Non-ECC/ECC	Non-ECC/ECC
Ethernet (default)	1 x 10/100/1000 Mbps	2 x 10/100/1000 Mbps	8 x 10/100/1000 Mbps 4 x 10/100/1000/10000Mbps (by CPU)
Ethernet (max.)	33 x 10/100/1000 Mbps	34 x 10/100/1000 Mbps	N/A
LAN Bypass	N/A	Upon LAN module	2 pairs
Controllers	Intel® I210	Intel® I210	Intel® I350
LAN Module	4 x NIC slot	4 x NIC slot	2 x NIC slot
HDD/SSD	2 x 2.5" HDD	2 x 2.5" HDD	2 x 2.5" HDD
M.2 SSD	2 x M.2 Key M 2280	N/A	1 x M.2 Key M 2280
mSATA	N/A	1 x Full-Size	N/A
Button	N/A	N/A	Yes
LED Indicator	Storage and BMC	Power, HDD, GPIO programmable, and Link/Act with transfer rate	Power, HDD, GPIO programmable, and Link/Act with transfer rate
USB	2 x USB 3.0	2 x USB 2.0	2 x USB 3.0
Console	1 x Console (USB Type C)	1 x Console (RJ-type)	1 x Console (RJ-type or USB Type C)
LCM Module	N/A	Yes	Yes
Display	1 x VGA	1 x VGA	1 x VGA (optional)
TPM	TPM 2.0 onboard	TPM 2.0 onboard	TPM 2.0 onboard
IPMI	2.0	Optional	Optional
Watchdog	N/A	255 stepping for system reset and 8 stepping for LAN Bypass	255 stepping for system reset and 8 stepping for LAN Bypass
Power Type	Redundant	Single/redundant (optional)	Single/redundant (optional)
Watts	800W	400W	300W/400W (optional)
Input	100 to 240 VAC	100 to 240 VAC	100 to 240 VAC
Connector	Inlet C14	Inlet C14	Inlet C14
Expansion Interface	N/A	N/A	N/A
Operating Temperature	0°C to +40°C (+32°F to +104°F)	0°C to +40°C (+32°F to +104°F)	0°C to +45°C (+32°F to +113°F) (300W ATX power supply) 0°C to +40°C (+32°F to +104°F) (400W 1U redundant power supply)
Storage Temperature	-20°C to +70°C (-4°F to +158°F)	-20°C to +70°C (-4°F to +158°F)	-20°C to +70°C (-4°F to +158°F)
Humidity	10% to 95% RH, non-condensing	10% to 95% RH, non-condensing	10% to 95% RH, non-condensing
Construction	Steel	Steel	Steel
Dimensions (W x H x D)	44 x 430 x 600 mm (1.73" x 16.93" x 23.6")	44 x 430 x 561 mm (1.73" x 16.93" x 22")	44 x 430 x 450 mm (1.73" x 16.93" x 17.7")
Weight (net/gross)	8 kg (17.6 lb)/12 kg (26.4 lb)	8 kg (17.6 lb)/12 kg (26.4 lb)	8.5 kg (18.74 lb)/9.8 kg (21.61 lb)
OS Support	Linux Kernel	Linux Kernel	Linux Kernel
Certifications	CE, FCC Class A	CE, FCC Class A	CE, FCC Class A

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NEW



Features \ Models	NA593	NA592	NA590
Form Factor	1U, 19" rackmount	1U, 19" rackmount	1U, 19" rackmount
Processor	14th/13th Gen Intel® Core™ (Raptor Lake)	10th Gen Intel® Core™ or Xeon® W-1200 (Comet Lake)	8th/9th Gen Intel® Core™ or Xeon® (Coffee Lake/Coffee Lake Refresh)
Chipset	Intel® R680E	Intel® W480E	Intel® C246/H310
Acceleration Technology	N/A	N/A	N/A
BIOS	AMI SPI Flash BIOS	AMI SPI Flash BIOS	AMI SPI Flash BIOS
Technology	DDR5-5600	DDR4-2933	DDR4-2666
Max. Capacity	128GB	128GB	64GB (H310) 128G (C246)
Socket	4 x 288-pin U-DIMM	4 x 288-pin U-DIMM	4 x 288-pin U-DIMM (H310) 2 x 288-pin U-DIMM (C246)
ECC Support	Non-ECC/ECC	Non-ECC/ECC	Non-ECC/ECC
Ethernet (default)	10 x 10/100/1000 Mbps	10 x 10/100/1000 Mbps	6 x 10/100/1000 Mbps (H310) 8 x 10/100/1000 Mbps (C246)
Ethernet (max.)	26 x 10/100/1000 Mbps	26 x 10/100/1000 Mbps	14 x 10/100/1000 Mbps (H310) 26 x 10/100/1000 Mbps (C246)
LAN Bypass	2 pairs	2 pairs	LAN Bypass function through latch relay (2 pairs)
Controllers	Intel® I350	Intel® I350	Intel® I210
LAN Module	2 x NIC slot	2 x NIC slot	2 x NIC slot (2 slots for C246 only)
HDD/SSD	2 x 2.5" HDD	2 x 2.5" HDD	2 x 2.5" HDD or 1 x 3.5" HDD (3.5" optional for single PSU)
M.2 SSD	1 x M.2 Key M 2280	1 x M.2 Key B 2242	1 x M.2 Key M 2280 (C246 only)
mSATA	N/A	N/A	1 x Full-Size
Button	Yes	Yes	N/A
LED Indicator	Power, HDD, GPIO programmable, and Link/Act with transfer rate	Power, HDD, GPIO programmable, LAN Bypass, and Link/Act with transfer rate	Power, HDD, GPIO programmable, LAN Bypass, and Link/Act with transfer rate
USB	2 x USB 3.0	2 x USB 3.0	2 x USB 3.0
Console	1 x Console (RJ-type or USB Type C)	1 x Console (RJ-type)	1 x Console (RJ-type)
LCM Module	Yes	Yes	Yes
Display	1 x HDMI 1 x VGA (optional)	1 x VGA (optional)	1 x VGA (optional)
TPM	TPM 2.0 onboard	TPM 2.0 onboard	TPM 2.0 onboard
IPMI	Optional	Optional	Optional
Watchdog	255 stepping for system reset and 8 stepping for LAN Bypass	255 stepping for system reset and 8 stepping for LAN Bypass	55 stepping for system reset and 8 stepping for LAN Bypass
Power Type	Single/redundant (optional)	Single/redundant (optional)	Single/redundant (optional)
Watts	300W/400W (optional)	300W/400W (optional)	300W/400W (optional)
Input	100 to 240 VAC	100 to 240 VAC	100 to 240 VAC
Connector	Inlet C14	Inlet C14	Inlet C14
PCIe x4/x8/x16	1 x PCIe x8 (optional)	1 x PCIe x8 (optional)	1 x PCIe x8 (C246 optional)
M.2	N/A	1 x M.2 Key E 2230 (PCIe x1) 1 x M.2 Key M 2242/2280 (PCIe x4 optional)	N/A
Mini PCIe	N/A	1 x Full-size (default: PCIe x1, SATA optional)	N/A
SIM Socket	N/A	1 x Nano SIM	N/A
Operating Temperature	0°C to +45°C (+32°F to +113°F) (300W ATX power supply) 0°C to +40°C (+32°F to +104°F) (400W 1U redundant power supply)	0°C to +40°C (+32°F to +104°F)	0°C to +45°C (+32°F to +113°F) (300W ATX power supply) 0°C to +40°C (+32°F to +104°F) (400W 1U redundant power supply)
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% to 95% RH, non-condensing	10% to 95% RH, non-condensing
Construction	Steel	Steel	Steel
Dimensions (W x H x D)	44 x 430 x 450 mm (1.73" x 16.93" x 17.7")	44 x 430 x 450 mm (1.73" x 16.93" x 17.7")	44 x 430 x 450 mm (1.73" x 16.93" x 17.7")
Weight (net/gross)	6 kg (13.2 lb)/9.5 kg (21 lb)	6 kg (13.2 lb)/9.5 kg (21 lb)	6 kg (13.2 lb)/10 kg (22 lb)
OS Support	Linux Kernel/Windows	Linux	Linux
Certifications	CE, FCC Class A	CE, FCC Class A	CE, FCC Class A

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SOHO Network Appliances



Models	NA363R	NA362R	NA362
Form Factor	1U, 19" rackmount	1U, 19" rackmount	1U, desktop
Platform	Processor	Intel Atom® C3558/C3758	Intel Atom® C3558/C3758
	Chipset	SoC integrated	SoC integrated
	Acceleration Technology	Intel® QAT	Intel® QAT
BIOS	Technology	AMI SPI Flash BIOS	AMI SPI Flash BIOS
	Max. Capacity	DDR4-2400	DDR4-2400
	Socket	4 x 288-pin R-DIMM/U-DIMM	4 x 288-pin R-DIMM/U-DIMM
Memory	ECC Support	Non-ECC/ECC	Non-ECC/ECC
	Ethernet	6 x 10/100/1000 Mbps	6 x 10/100/1000 Mbps
	LAN Bypass	1 pair (2 pairs optional)	1 pair
Network Interface	Controllers	Intel® I210	Intel® I210
	LAN Module	1 x NIC slot (C3758 optional)	N/A
	HDD/SSD	2 x 2.5" HDD (1 x 3.5" HDD, optional)	2 x 2.5" HDD (1 x 3.5" HDD, optional)
Storage	mSATA	N/A	N/A
	Button	Yes	Yes
	LED Indicator	Power, HDD, GPIO programmable, LAN Bypass, and Link/Act with transfer rate	Power, HDD, GPIO programmable, LAN Bypass, and Link/Act with transfer rate
I/O	USB	2 x USB 2.0	2 x USB 2.0
	Console	1 x Console (RJ-type)	1 x Console (RJ-type)
	Display	Optional VGA module	Optional VGA module
TPM	TPM 1.2 onboard (2.0 optional)	TPM 1.2 onboard (2.0 optional)	TPM 2.0 onboard
IPMI	N/A	N/A	N/A
Watchdog	255 stepping for system reset and 8 stepping for LAN Bypass	255 stepping for system reset and 8 stepping for LAN Bypass	255 stepping for system reset and 8 stepping for LAN Bypass
Power Supply	Power Type	Open frame	Adapter
	Watts	120W	120W
	Input	100 to 240 VAC	100 to 240 VAC
Expansion	Connector	Inlet C14	Inlet C14
	M.2	N/A	N/A
	Mini PCIe	1 x Full-size (USB/Pcie)	1 x Full-size (USB/Pcie)
Environment	SIM Socket	N/A	N/A
	Operating Temperature	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)
Mechanical	Humidity	10% to 95% RH, non-condensing	10% to 95% RH, non-condensing
	Construction	Steel	Steel
	Dimensions (W x H x D)	44 x 430 x 250 mm (1.73" x 16.93" x 9.84")	44 x 430 x 250 mm (1.73" x 16.93" x 9.84")
OS Support	Weight (net/gross)	3.5 kg (7 lb)/4.5 kg (9 lb)	3.5 kg (7 lb)/4.5 kg (9 lb)
	Certifications	Linux	Linux
		CE, FCC Class A	CE, FCC Class B

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Features \ Models	NA366	NA350C	NA348
Form Factor	1U, desktop	1U, desktop	1U, desktop
Platform	Processor	Intel Atom® x7203C/x7405C/x7809C	Intel Atom® x6425E
	Chipset	SoC integrated	SoC integrated
	Acceleration Technology	N/A	N/A
BIOS	Technology	AMI SPI Flash BIOS	AMI SPI Flash BIOS
	Max. Capacity	DDR5-4800	DDR4-3200
	Socket	16GB	32GB
Memory	ECC Support	Non-ECC	Non-ECC
	Ethernet	2 x 10G SFP+ 4 x 10/100/1000 Mbps 4 x GbE RJ-45 or 1G SFP (by SKU)	2 x 1G SFP or 1G RJ-45 (by SKU) 3 x 2.5G RJ-45
	LAN Bypass	1 pair	1 pair
Network Interface	Controllers	Intel® I350	Intel® I350
	LAN Module	Intel® X710	MaxLinear GPY211
	HDD/SSD	N/A	N/A
Storage	M.2 SSD	1 x 2.5" HDD (max. 9.5 mm height only)	1 x 2.5" HDD (max. 9.5 mm height only)
	mSATA	1 x M.2 Key M 2242/2280	1 x M.2 Key M 2242 slot
	Button	N/A	N/A
I/O	LED Indicator	1 x Power switch	1 x Power Switch
	USB	Power, HDD, GPIO programmable, LAN Bypass, and Link/Act with transfer rate	Power, HDD, GPIO programmable, LAN Bypass, and Link/Act with transfer rate
	Console	2 x USB 2.0	2 x USB 2.0
TPM	IPMI	1 x Console (RJ-type) 1 x Console (Type-C)	1 x Console (RJ-type)
	Watchdog	N/A	N/A
	Power Supply	255 stepping for system reset and 8 stepping for LAN Bypass	255 stepping for system reset and 8 stepping for LAN Bypass
Expansion	Power Type	Adapter	Adapter
	Watts	84W	60W
	Input	100 to 240 VAC	100 to 240 VAC
Environment	Connector	DC-Jack	DC-Jack
	M.2	1 x M.2 Key M 2242/2280 (SATA) 1 x M.2 Key B 3052/3042 (USB2/USB3) with SIM slot	1 x M.2 Key M 2242 (SATA) 1 x M.2 Key B 3052/3042 (USB 2.0/USB 3.0) with SIM slot 1 x M.2 Key E 2230 (default: USB, PCIe by option)
	Mini PCIe	1 x Nano SIM	1 x Half-size (PCIe/USB)
Mechanical	SIM Socket	1 x Full-size (PCIe/USB)	1 x Full-size (USB) with SIM slot
	Operating Temperature	0°C to +40°C (+32°F to +104°F)	0°C to +40°C (+32°F to +104°F)
	Storage Temperature	-20°C to +70°C (-4°F to +158°F)	-20°C to +70°C (-4°F to +158°F)
OS Support	Humidity	10% to 95% RH, non-condensing	10% to 95% RH, non-condensing
	Construction	Steel	Steel
	Dimensions (W x H x D)	44 x 257 x 197 mm (1.73" x 10.12" x 7.76")	44 x 257 x 197 mm (1.73" x 10.12" x 7.76")
Certifications	Weight (net/gross)	TBC	1.598 kg (3.52 lb)/ 2.45 kg (5.4 lb)
		Linux	Linux
		CE, FCC Class B	CE, FCC Class B

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SOHO Network Appliances



Models	NA345	NA347	NA346B	
Form Factor	1U, desktop	Ultra-compact, fanless	Ultra-compact, fanless	
Platform	Processor	Intel® Pentium® J3455 Intel® Celeron® N3350	Intel® Celeron® N3350	Intel® Celeron® N3350
	Chipset	SoC integrated	SoC integrated	SoC integrated
	Acceleration Technology	N/A	N/A	N/A
	BIOS	AMI SPI Flash BIOS	AMI SPI Flash BIOS	AMI SPI Flash BIOS
Memory	Technology	DDR3L-1866	DDR3L-1866	DDR3L-1866
	Max. Capacity	8GB	8GB	8GB
	Socket	1 x 204-pin SO-DIMM	1 x 204-pin SO-DIMM	1 x 204-pin SO-DIMM
	ECC Support	Non-ECC	Non-ECC	Non-ECC
Network Interface	Ethernet	4 x 10/100/1000 Mbps (6-port by project)	3 x 10/100/1000 Mbps	4 x 10/100/1000 Mbps
	LAN Bypass	1 pair (optional)	1 pair (optional)	1 pair (optional)
	Controllers	Intel® I210	Intel® I210	Realtek RTL8111H
	LAN Module	N/A	N/A	N/A
Storage	HDD/SSD	1 x 2.5" HDD (max. 9.5 mm height only)	N/A	N/A
	M.2 SSD	N/A	1 x M.2 Key B 2242 slot	N/A
	mSATA	1 x Full-size slot	N/A	1 x Full-size mSATA
	eMMC	N/A	N/A	1 x eMMC onboard 8G
I/O	Button	1 x Power Switch 1 x Reset Button	1 x Power switch with LED	1 x Reset button
	LED Indicator	Power, HDD, GPIO programmable, LAN Bypass, and Link/Act with transfer rate	N/A	N/A
	USB	2 x USB 3.0	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	N/A	N/A	N/A
	Display	1 x HDMI	1 x HDMI	N/A
TPM	TPM 1.2 onboard (optional)	TPM 2.0 onboard (optional)	TPM 2.0 onboard (optional)	
Watchdog	255 stepping for system reset and 8 stepping for LAN Bypass	255 stepping for system reset	255 stepping for system reset	
Power Supply	Power Type	Adapter	Adapter	Adapter
	Watts	60W	36W	36W
	Input	100 to 240 VAC	100 to 240 VAC	100 to 240 VAC
Expansion	Connector	DC-Jack	DC-Jack with screw type	DC-Jack with screw type
	M.2	N/A	N/A	N/A
	Mini PCIe	1 x Half-size (PCIe/USB) 1 x Full-size (USB) with SIM slot	1 x Full-size (PCIe/USB) with SIM slot	1 x Full-size (PCIe/USB) with SIM slot Co-layout with mSATA
Environment	SIM Socket	1 x Standard SIM	2 x Nano SIM	2 x Nano SIM
	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)
	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% to 95% RH, non-condensing	10% to 95% RH, non-condensing
Mechanical	Construction	Steel	Aluminum	Aluminum
	Dimensions (W x H x D)	44 x 231.9 x 152 mm (1.73" x 9.1" x 5.98")	26 x 146 x 118.2 mm (1.24" x 5.75" x 4.65")	31 x 166 x 118.2 mm (1.22" x 6.54" x 4.65")
	Weight (net/gross)	2.35 kg (5.18 lb)/2.61 kg (5.75 lb)	0.284 kg (0.63 lb)/0.786 kg (1.73 lb)	0.62 kg (1.37 lb)/1.3 kg (2.87 lb)
OS Support	Win 10, Linux	Win 10, Linux	Win 10, Linux	
Certifications	CE, FCC Class B	CE, FCC Class B	CE, FCC Class B	

LAN Modules

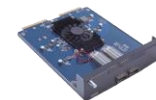
	Module	LAN Chipset	Ports	LAN Bypass (Latch Relay)	Copper/Fiber (SFP)
1G	AX93316-8GIL	Intel® i350	8	4	8/0
	AX93326-8GIL	Intel® i210	8	4	8/0
	AX93316-8GI	Intel® i350	8	0	8/0
	AX93322-8MIL	Intel® i350	8	2	4/4
	AX93322-8FI	Intel® i350	8	0	0/8
	AX93336-4GIL	Intel® i350	8	2	4/0
	AX93336-4FI	Intel® i350	4	0	0/4
10G	AX93327-4FI	Intel® XL710	4	0	0/4
	AX93307-2FI	Intel® 82599ES	2	0	0/2
	AX93327-4FIL	Intel® XL710	4	2	0/4
25G	AX93327-2FIL	Intel® X710	2	1	0/2
	AX93332-25FI	Intel® XXV710	2	0	0/2
40G	AX93331-2QFI	Intel® XL710	2	0	0/2
100G	AX93357	Intel® E810	2	0	0/2
	AX93358	Intel® E810	2	0	0/2

100Gbps Modules



PCIe Card - AX93357

- Intel® Ethernet Controller E810
- 2 x 100GbE QSFP28 cage
- Enhanced DPDK for network functions



NIC Module - AX93358

- Intel® Ethernet Controller E810
- 2 x 100GbE QSFP28 cage
- Enhanced DPDK for network functions

Integra network



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