



2022

CONDENSED
CATALOG



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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.



Mission

iSystems

To make a passionate contribution to the success of our customers b leveraging our intelligent y system innovations



Growth Model

Domain-Focused

To drive a domain-focused business group aimed at supporting our global partners



Focus & Goal

Customer-Focused

To be a trusted intelligent system provider with innovative technology and design-in services



Domain-Focused Systems

To Enable Industry Leading Innovations



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.

Company Resources

Axiomtek has gained extraordinary growth in the past 30 years. This has been possible because of our devoted professionals, our strong commitment to delivering quality products and customer satisfaction, as well as years of experience in serving in the industry which has allowed us to achieve tremendous excellence. To maximize service efficiency, Axiomtek has formed an international service network made up of hundreds of dedicated R&D engineers and experts. In addition, our manufacturing site is equipped with the most advanced SMT assembly lines and optical inspection systems utilizing lead-free technology. We take pride and ownership in what we do to fulfill our customers' needs in every possible way.

Corporate Profile

Established: May 1990

Founder & Chairman: YT Yang

CEO & President: Albert Huang

Capital: USD 32.6 million

Facility Space: 17.095 m² (HQ)

Employees: Over 750+

Global Office: 15 offices

(located in APAC, Europe, and the USA)

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.



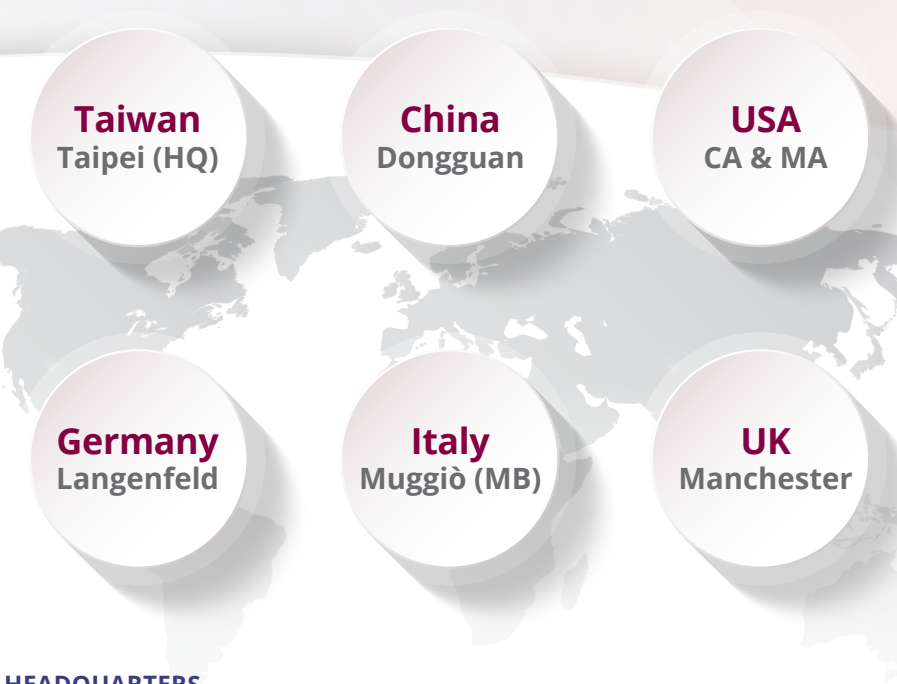
Accelerate Time-to-Market

Utilizes development resources quickly, efficiently, and within budget.

Manufacturing & Logistic Service Center

Global Support

Axiomtek maintains a 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.



Taiwan
Taipei (HQ)

China
Dongguan

USA
CA & MA

Germany
Langenfeld

Italy
Muggiò (MB)

UK
Manchester

HEADQUARTERS

Over 8,000 square meters of factory space along with the latest manufacturing equipment gives us the capacity in fully serving the OEM/ODM businesses while achieving high quality on timely deliveries at lower costs. Utilizing the lead-free technology, our manufacturing facilities, including the most advanced SMT assembly lines and optical inspection systems, are ISO 9001, ISO 14001, and ISO 13485 certified.



System on Modules



NEW



Features/Models		CEM130	CEM310	CEM320	
Form Factor		COM Express Type 6 Compact	COM Express® Type 10 Mini	COM Express Type 10 Mini	
CPU Level		AMD Ryzen™ Embedded V1000	Intel Atom® x5/x7	Intel Atom® x6000E Series or Intel® Celeron® N/J Series	
CPU		Onboard	Onboard	Onboard	
Core Logic Chipset		SoC integrated	SoC integrated	SoC integrated	
Memory Type		DDR4-2400/3200	DDR3L-1866	LPDDR4-4267	
Max. DRAM Capacity		32GB (dual channel)	4GB (default)/8GB (optional)	16GB (8GB)	
Cache RAM Capacity		SoC integrated	SoC integrated	SoC integrated	
BIOS		AMI UEFI BIOS (Legacy Free)	AMI UEFI BIOS (Legacy Free)	AMI UEFI BIOS (Legacy Free)	
Watchdog Timer		65536 levels, 0 to 65535 sec.	65536 levels, 0 to 65535 sec.	65536 levels, 0 to 65535 sec.	
Onboard Storage		N/A	eMMC 5.0 up to 64GB (optional)	eMMC 5.1 up to 64GB	
Onboard GPIO		4-in/4-out	4-in/4-out	4-in/4-out	
I/O	SATA	2 x SATA-600	2 x SATA-600	2 x SATA-600	
	TPM	TPM 2.0	N/A	Yes	
	Serial	COM 1	TX/RX	TX/RX	TX/RX
		COM 2	TX/RX	TX/RX	TX/RX
		COM 3	N/A	N/A	N/A
		COM 4	N/A	N/A	N/A
	USB	3 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 VGA 1 x LVDS (eDP 1.3 optional) 2 x DDI (in support of HDMI 1.4/DVI/DP 1.2*) *Both HDMI 2.0 & DP 1.4 need Redriver chip on a carrier board	1 x DDI 1 x LVDS (eDP optional)	1 x DDI 1 x LVDS (eDP optional)	
Ethernet		1 x 10/100/1000 Mbps Ethernet	1 x 10/100/1000 Mbps Ethernet	1 x 10/100/1000/2500 Mbps Ethernet	
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	4 x PCIe x1	4 x PCIe x1	
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: -20°C to +70°C (-4°F to +158°F)	
Relative Humidity		10% - 95%, non-condensing	10% - 95%, non-condensing	10% - 95%, non-condensing	
EMI Compliance		CE	CE	CE	



Features	Models	CEM521	CEM530	CEM700
Form Factor		COM Express Type 6 Compact	COM Express Type 6 Compact	COM Express® Type 7 Basic
CPU Level		8th gen Intel® Core™ or Celeron® 4305UE	9th/8th gen Intel® Core™ or Celeron®	Intel® Xeon®/Pentium® D Series
CPU		Onboard	Onboard	Onboard
Core Logic Chipset		SoC integrated	SoC integrated	SoC integrated
Memory Type		DDR4-2400	DDR4-2666	DDR4-2400
Max. DRAM Capacity		64GB	64GB (96GB optional)	64GB
Cache RAM Capacity		SoC integrated	SoC integrated	SoC integrated
BIOS		AMI UEFI BIOS (Legacy Free)	AMI UEFI BIOS (Legacy Free)	AMI UEFI BIOS (Legacy Free)
Watchdog Timer		65536 levels, 0 to 65535 sec.	65536 levels, 0 to 65535 sec.	65536 levels, 0 to 65535 sec.
Onboard Storage		eMMC 5.1 up to 64GB (optional)	N/A	N/A
Onboard GPIO		4-in/4-out	4-in/4-out	4-in/4-out
I/O	SATA	3 x SATA-600	4 x SATA-600	2 x SATA-600
	TPM	TPM 2.0	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	4 x USB 3.0 8 x USB 2.0	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) 1 x DDI	1 x LVDS (eDP 1.4 optional) 1 x VGA (default) 1 x DDI	N/A
Ethernet		1 x 10/100/1000 Mbps Ethernet	1 x 10/100/1000 Mbps Ethernet	1 x 10/100/1000 Mbps Ethernet 2 x 10GBase-KR interfaces support NCSI
Audio		Codec on baseboard	Codec on baseboard	Codec on baseboard
Hardware Monitoring		Yes	Yes	Yes
SMBus		Yes	Yes	Yes
Expansion Interface		8 x PCIe x1 Gen3	1 x PCIe x16 Gen3 8 x PCIe x1 Gen3	1 x PCIe x16 Gen3 1 x PCIe x8 Gen3 8 x PCIe x1 Gen2
Power Management		ACPI	ACPI	ACPI
Operating Temperature		-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)	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% - 95%, non-condensing	10% - 95%, non-condensing	10% - 95%, non-condensing
EMI Compliance		CE	CE	CE



1.8" Embedded Board

NEW



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

Pico-ITX SBCs



Features/Models			PICO52R	PICO319	PICO318
Form Factor			Pico-ITX	Pico-ITX	Pico-ITX
CPU Level			8th gen Intel® Core™ i7/i5/i3 or Celeron®	Intel Atom® x5-E3940	Intel® Pentium® N4200 or Celeron® N3350
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			N/A	1 x M.2 Key B 22 x 42 or 30 x 42	1 x M.2 Key B 22 x 42 or 30 x 42
Digital I/O			4-channel in/out programmable	4-channel in/out programmable	4-channel in/out programmable
I/O	SATA		1 x SATA-600	N/A	N/A
	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
	USB		2 x USB 3.0 2 x USB 2.0	2 x USB 3.0 2 x USB 2.0	2 x USB 3.0 2 x USB 2.0
SIM Card Slot			N/A	N/A	N/A
Display			1 x LVDS 1 x DisplayPort++ 1 x HDMI	1 x DisplayPort++ 1 x LVDS	1 x DisplayPort++ 1 x LVDS
Ethernet			2 x 10/100/1000 Mbps Ethernet	2 x 10/100/1000 Mbps Ethernet	2 x 10/100/1000 Mbps Ethernet
Audio			N/A	HD Codec	HD Codec
Hardware Monitoring			Yes	Yes	Yes
SMBus			Yes	Yes	Yes
Expansion Interface			M.2 Key E 22 x 30	1 x Half-size PCI Express Mini Card slot with mSATA supported	1 x Half-size PCI Express Mini Card slot with mSATA supported
Power Management			ACPI	ACPI	ACPI
Battery			Lithium	Lithium	Lithium
Operating Temperature			-20°C to +60°C (-4°F to +140°F)	-40°C to +70°C (-40°F to +158°F)	-20°C to +60°C (-4°F to +140°F)
Relative Humidity			10% - 95%, non-condensing	10% - 95%, non-condensing	10% - 95%, non-condensing
EMI Compliance			CE	CE	CE



3.5" Embedded Boards

NEW



NEW



Features\Models	CAPA55R	CAPA322	CAPA13S
Form Factor	3.5"	3.5"	3.5"
CPU Level	11th gen Intel® Core™ i7/i5/i3 or Celeron®	Intel® Celeron® J6412/N6210 or Atom® x6413E	AMD® RYZEN™ Embedded V1807B or V1605B APU
CPU Socket	Onboard	onboard	Onboard
Core Logic Chipset	SoC integrated	SoC integrated	SoC integrated
Memory Type	DDR4-3200	DDR4-3200	DDR4-3200/2400
Max. DRAM Capacity	64GB	16GB	16GB
Cache RAM Capacity	Integrated in CPU	Integrated in CPU	Integrated in CPU
BIOS	AMI UEFI BIOS	AMI UEFI BIOS	AMI UEFI BIOS
Watchdog Timer	65536 Levels, 0 to 65535 sec.	65536 Levels, 0 to 65535 sec.	256 Levels, 0 to 255 sec.
SSD	1 x M.2 Key M 22 x 80 (NVMe)	1 x mSATA (optional)	1 x M.2 Key B 22 x 42
Digital I/O	8 channels in/out programmable	8-channel in/out programmable	8-channel in/out programmable
I/O	SATA	1 x SATA-600	1 x SATA-600
	COM 1	RS-232/422/485	RS-232/422/485
	COM 2	RS-232/422/485	RS-232
	COM 3	N/A	N/A
	COM 4	N/A	N/A
USB	4 x USB 2.0 3 x USB 3.2 Gen2	4 x USB 2.0 2 x USB 3.2 Gen1	2 x USB 2.0 2 x USB 3.2 Gen2
	SIM Card Slot	N/A	N/A
Display	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)	1 x DisplayPort++ 2 x HDMI 1 x eDP
Ethernet	1x 10/100/1000 Mbps Ethernet 1 x 10/100/1000/2500 Mbps Ethernet	1 x 10/100/1000 Mbps Ethernet 1 x 10/100/1000/2500 Mbps Ethernet	2 x 10/100/1000 Mbps Ethernet 1 x 10/100/1000 Mbps Ethernet (optional)
Audio	HD audio link	HD audio link	HD audio link
Hardware Monitoring	Yes	Yes	Yes
SMBus	Yes	Yes	Yes
Expansion Interface	1 x M.2 Key E 22 x 30 1 x M.2 Key B 30 x 42/30 x 52	1 x M.2 Key E 22 x 30 1 x M.2 Key B 30 x 42/30 x 52 1 x Full-size PCI Express Mini Card slot	1 x M.2 Key E 22 x 30
Power Management	ACPI	ACPI	ACPI
Battery	Lithium	Lithium	Lithium
Operating Temperature	0°C to +60°C (32°F to 140°F)	-20°C to +70°C (-4°F to +158°F)	-20°C to +60°C (-4°F to 140°F)
Relative Humidity	10% to 95%, non-condensing	10% to 95%, non-condensing	10% to 95%, non-condensing
EMI Compliance	CE	CE	CE

Mini-ITX Motherboards

NEW



NEW



NEW



Features/Models		MANO540	MANO526	MANO321	
Form Factor		Mini-ITX	Mini-ITX	Mini-ITX	
CPU Level		10th gen Intel® Core™ i7/i5/i3, Pentium® or Celeron® processor	9th/8th gen Intel® Core™ i7/i5/i3, Pentium® or Celeron® processor	Intel® Celeron® processor J6412	
CPU Socket		LGA1200	LGA1151	onboard	
Core Logic Chipset		Intel® H410	Intel® Q370	SoC integrated	
Memory Type		DDR4-2666/2400	DDR4-2400/2666	DDR4-3200/2666/2400	
Max. DRAM Capacity		32GB	32GB	32GB	
Cache RAM Capacity		Integrated in CPU	Integrated in CPU	Integrated in CPU	
BIOS		AMI	AMI	AMI	
Watchdog Timer		255 levels, 1 to 255sec.	255 levels, 1 to 255sec.	255 levels, 1 to 255sec.	
SSD		1 x M.2 Key B	1 x M.2 Key M	1 x M.2 Key B	
Digital I/O		8-in/out	8-in/out	8-in/out	
I/O	SATA	2 x SATA-600	2 x SATA-600	1 x SATA-600	
	Serial	COM 1	RS-232/422/485	RS-232/422/485	RS-232/422/485
		COM 2	RS-232	RS-232	RS-232/422/485
		COM 3	RS-232	RS-232	RS-232
		COM 4	RS-232	RS-232	RS-232
		COM 5	RS-232	RS-232	RS-232
		COM 6	RS-232	RS-232	RS-232
	USB	2 x USB 3.2 Gen1 5 x USB 2.0	4 x USB 3.0 4 x USB 2.0	4 x USB 3.0 4 x USB 2.0	
Display		1 x VGA 1 x HDMI 1 x DisplayPort++ 1 x eDP	1 x DisplayPort++ 1 x eDP 1 x HDMI	1 x VGA 1 x HDMI 1 x eDP	
Ethernet		2 x 10/100/1000 Mbps Ethernet	2 x 10/100/1000 Mbps Ethernet	2 x 10/100/1000 Mbps Ethernet	
Audio		HD codec	HD codec	HD codec	
Hardware Monitoring		Yes	Yes	Yes	
Expansion Interface		1 x M.2 Key E 1 x M.2 Key B 1 x PCI Express Mini Card slot 1 x PCIe x16	1 x M.2 Key E 1 x PCIe x16	1 x M.2 Key B 1 x PCI Express Mini Card slot 1 x PCIe x2	
Power Management		ACPI	ACPI	ACPI	
Battery		Lithium	Lithium	Lithium	
Operating Temperature		0°C to +60°C (+32°F to +140°F)	0°C to +60°C (+32°F to +140°F)	0°C to +60°C (+32°F to +140°F)	
Relative Humidity		10% - 95%, non-condensing	10% - 95%, non-condensing	10% - 95%, non-condensing	
EMI Compliance		CE	CE	CE	

ATX Motherboards

NEW



Features\Models	IMB700	IMB530	IMB525R
Form Factor	ATX	ATX	ATX
CPU Level	3rd gen Intel® Xeon® Scalable processors	10th gen Intel® Core™ i7/i5/i3, Xeon® W, Pentium® or Celeron®	9th/8th gen Intel® Core™ i7/i5/i3, Xeon® E, Pentium® & Celeron®
CPU Socket	LGA4189	LGA1200	LGA1151
Core Logic Chipset	Intel® C621A	Intel® W480E	Intel® C246
Memory Type	DDR4-3200	DDR4-2933	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-channel programmable	8-channel programmable	8-channel programmable
I/O	SATA	6 x SATA-600	4 x SATA-600
	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
	COM 5	N/A	RS-232
	COM 6	N/A	RS-232
	USB	6 x USB 3.2 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 Ethernet	2 x 10/100/1000 Mbps Ethernet	2 x 10/100/1000 Mbps Ethernet
Audio	HD Codec	HD Codec	HD Codec
Hardware Monitoring	Yes	Yes	Yes
SMBus	Yes	Yes	Yes
Expansion Interface	3 x PCIe x16 3 x PCIe x8	2 x PCIe x16 3 x PCIe x4 1 x PCIe x4 w/PCIe x1 signal 1 x PCI	1 x PCIe x16 2 x PCIe x4 4 x PCI 1 x PCI Express Mini Card slot
Power Management	ACPI	ACPI	ACPI
Battery	Lithium	Lithium	Lithium
Operating Temperature	0°C to +60°C (+32°F to +140°F)	0°C to +60°C (+32°F to +140°F)	0°C to +60°C (+32°F to +140°F)
Relative Humidity	10% to 95%, non-condensing	10% to 95%, non-condensing	10% to 95%, non-condensing
EMI Compliance	CE	CE	CE



Features	Models	IMB524R	IMB523R	IMB520R
Form Factor		ATX	ATX	ATX
CPU Level		9th/8th gen Intel® Core™ 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, Pentium® or Celeron®
CPU Socket		LGA1151	LGA1151	LGA1151
Core Logic Chipset		Intel® H310	Intel® Q370	Intel® Q370
Memory Type		DDR4-2666/2400	DDR4-2666/2400	DDR4-2666/2400
Max. DRAM Capacity		64GB	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-channel programmable	8-channel programmable	8-channel programmable
I/O	SATA	4 x SATA-600	5 x SATA-600	4 x SATA-600
	COM 1	RS-232/422/485	RS-232/422/485	RS-232/422/485
	COM 2	RS-232/422/485	RS-232/422/485	RS-232/422/485
	COM 3	RS-232	RS-232	RS-232
	COM 4	RS-232	RS-232	RS-232
	COM 5	RS-232	RS-232	RS-232
	COM 6	RS-232	RS-232	RS-232
	USB	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	2 x USB 3.1 Gen2, 4 x USB 3.1 Gen1, 7 x USB 2.0
SIM Card Slot		Yes	Yes	N/A
Display		1 x VGA 1 x DVI-D 1 x HDMI 1 x DisplayPort++	1 x VGA 1 x DVI-D 1 x HDMI 1 x DisplayPort++	1 x VGA 1 x DVI-D 1 x HDMI 1 x DisplayPort++
Ethernet		2 x 10/100/1000 Mbps Ethernet	2 x 10/100/1000 Mbps Ethernet	2 x 10/100/1000 Mbps Ethernet
Audio		HD Codec	HD Codec	HD Codec
Hardware Monitoring		Yes	Yes	Yes
SMBus		Yes	Yes	Yes
Expansion Interface		1 x PCIe x16 2 x PCIe x1 w/PCIe x1 signal 4 x PCI 1 x PCIe Mini Card	1 x PCIe x16 2 x PCIe x4 4 x PCI 1 x PCIe Mini Card	1 x PCIe x16 4 x PCIe x4 1 x PCIe x1 1 x PCI
Power Management		ACPI	ACPI	ACPI
Battery		Lithium	Lithium	Lithium
Operating Temperature		0°C to +60°C (+32°F to +140°F)	0°C to +60°C (+32°F to +140°F)	0°C to +60°C (+32°F to +140°F)
Relative Humidity		10% to 95%, non-condensing	10% to 95%, non-condensing	10% to 95%, non-condensing
EMI Compliance		CE	CE	CE



PICMG 1.3 Full-size/Half-size CPU Cards



Features	Models	SHB150R	SHB250R
Form Factor		PICMG1.3	PICMG 1.3
CPU Level		9th/8th gen Intel® Core™ i7/i5/i3, Xeon® E, Pentium® or Celeron®	9th/8th gen Intel® Core™ i7/i5/i3, Xeon® E, Pentium® or Celeron®
CPU Socket		LGA1151	LGA1151
Core Logic Chipset		Intel® C246/Q370/H310	Intel® C246/Q370/H310
Memory Type		DDR4-2666/2400	DDR4-2666/2400
Max. DRAM Capacity		64GB	64GB
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		M.2 Key M 2280 with PCIe x4 signal (Intel® C246/Q370)	M.2 Key M 2242
Digital I/O		N/A	N/A
I/O	IDE	N/A	N/A
	SATA	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
	LPT	1 x LPT	N/A
	Serial	COM 1	RS-232/422/485
		COM 2	RS-232/422/485
		COM 3	RS-232
		COM 4	RS-232
		COM 5	N/A
		COM 6	N/A
	USB	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
	IEEE 1394a	N/A	N/A
	Display	1 x DVI-I 1 x DisplayPort++	1 x DVI-I 1 x DisplayPort++
	Ethernet	2 x 10/100/1000 Mbps Ethernet	2 x 10/100/1000 Mbps Ethernet
	Audio	HD Codec	HD Codec
	Hardware Monitoring	Yes	Yes
	SMBus	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
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

ARM-based Embedded Boards



NEW



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/1 GHz	NXP i.MX 8M Plus 1.8GHz SoC with Quad A53
CPU Socket	Onboard	Onboard	Onboard
Core Logic Chipset	SoC integrated	SoC integrated	SoC integrated
Memory Type	DDR3-1600 onboard	DDR3-800/1066 onboard	LPDDR4-2133 onboard
Max. DRAM Capacity	1GB	1GB	4GB onboard
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 second
Storage	eMMC flash 8GB	eMMC flash 8GB	1 x SDIO3.0 interface 1 x 8GB eMMC
Digital I/O	8 x GPIO	8 x GPIO	12 x GPIO
TPM	N/A	N/A	TPM2.0 (optional)
I/O Interface	1 x PCIe 1 x USB 2.0 1 x OTG Client 1 x I ² S 2 x CANBus 3 x I ² C 4 x COM (TX/RX/RTS/CTS) 1 x Console 1 x HDMI 1 x 24-bit TTL Signal 1 x SPI 2 x Signal channel 24-bit LVDS	1 x PCIe 1x USB 2.0, 1 x OTG Client 1 x I ² S 2 x CANBus 4 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	1 x PCIe Gen2 2 x USB 3.2 Gen 1 2 x USB 2.0 1 x USB 2.0 OTG Client 1 x I ² S 2 x CANBus 3 x I ² C 2 x COM (Tx/Rx) 1 x Console 1 x CSI 4-lane 1 x CSI 2-lane 1 x HDMI 2.0 Dual channel LVDS 1 x SPI
Ethernet	1 x 10/100/1000 Mbps Ethernet	1 x 10/100/1000 Mbps Ethernet	1 x 10/100/1000 Mbps Ethernet
Power Input	+5V ± 5% DC-in	+5V ± 5% DC-in	+5V DC-in
OS	Linux Kernel 3.0.35	Linux Kernel 3.0.35	Linux Kernal 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% - 95%, non-condensing	10% - 95%, non-condensing	10% - 95%, non-condensing



Smart Display Modules



Features\Models		SDM500L	SDM300S
Form Factor		Intel® SDM Large	Intel® SDM Small
CPU Level		8th gen Intel® Core™ i7/i5/i3 or Celeron® processor, 15W	Intel® Pentium® N4200 or Celeron® N3350, 6W
CPU Socket		Onboard	Onboard
Core Logic Chipset		SoC integrated	SoC integrated
Memory Type		Dual-channel DDR4-2400 SO-DIMM	LPDDR4
Max. DRAM Capacity		32GB	4GB/8GB (optional)
Cache RAM Capacity		SoC integrated	SoC integrated
BIOS		AMI UEFI BIOS	AMI UEFI BIOS
Watchdog Timer		255 levels, 1 to 255 sec./min.	255 levels, 1 to 255 sec./min.
Storage		1 x M.2 Key M 1 x M.2 Key B	64GB eMMC onboard/32GB (optional)
Golden Finger		PCIe x8 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	PCIe x8 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
I/O	Ethernet	1 x 10/100/1000 Mbps with Intel® I219-LM in support of Wake-on-LAN, PXE Boot ROM	1 x 10/100/1000 Mbps with Intel® I211-AT in support of Wake-on-LAN, PXE Boot ROM
	Others	4 x USB 3.0 1 x USB type C (optional) 1 x Mic-in 1 x Line-out 1 x HDMI 1.4 (optional)	2 x USB 3.0
Expansion Interface		1 x M.2 Key E 1 x M.2 Key M 1 x M.2 Key B	1 x M.2 Key E
Power Input		Through SDM edge connector +12V & +3.3VBS	Through SDM edge connector +12V & +3.3VBS
Battery		Lithium 3 V/220 mAh	Lithium 3 V/220 mAh
Operating Temperature		0°C to 60°C (+32°F to +140°F)	0°C to +55°C (+32°F to +131°F)
Relative Humidity		10% to 95%, non-condensing	10% to 95%, non-condensing
EMI Compliance		CE	CE

PCI Express Cards

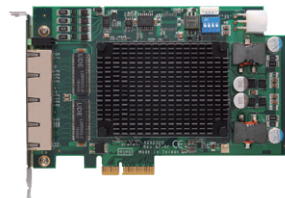
AX92320

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

Features	● PCI Express x4 compliant ● 2 or 4 independent Gigabit PoE ports ● Supports 9.5KB Jumbo Frame and IEEE 1588 ● Compliant with IEEE802.3at to deliver 30W at 54 VDC per port ● Up to 20/120W PoE power from PCIe 6-pin ATX power connector ● 0°C to +60°C operating temperature range ● PoE power management software ● Supports LAN port smart on/off
Dimensions	168 x 111 mm

Ordering Information

AX92320-2GbE (P/N: 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 (only be used with IPC962, IPC964 & IPC974)
Power Cable (P/N: 59492320730E)	6-pin ATX to Molex 4-pin power cable, L=150 mm (used for ATX power)



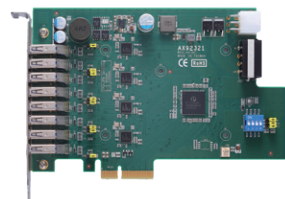
AX92321

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

Features	● 4 or 8 USB 3.0 ports ● 4 independent USB 3.0 host controllers ● 900 mA/1500 mA max. per port configurable via jumper settings ● Compliant with USB 3.0 Rev.1.0 and Intel® xHCI Rev.1.0 ● PCI Express x4 interface ● Operating temperature from 0°C to 70°C ● Supports Windows® 7/10 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



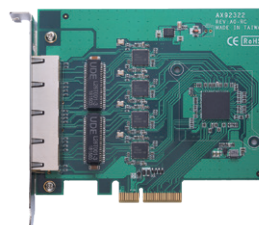
AX92322

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





PCI Express Cards

AX92324

2-port 10GbE PoE PCI Express Card

Features	● Intel® Ethernet Controller X550-AT2, up to 10 Gbps data rate ● Supports 15.5KB Jumbo Frame and IEEE 1588 ● Compliant with IEEE802.3at to deliver 25.5W per port ● PCI Express x4 compliant ● PoE power on/off via Power Manager software and API ● Operating temperature range from 0°C to 55°C
Dimensions	168 x 111 mm

Ordering Information

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



AX92325

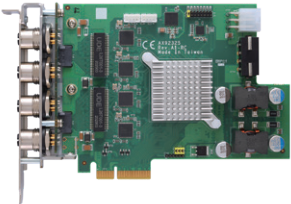
NEW

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

Features	● 4 M12 x-coded connectors with 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 ● 0°C to +60°C operating temperature range ● PoE power management software ● Supports LAN port smart on/off
Dimensions	168 x 111 mm

Ordering Information

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
AX92325-2GbE (P/N: E392325103)	2-port PCIe x4 GbE 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 (only be used with IPC962, IPC964 & IPC974)
Power Cable (P/N: 59492320730E)	6-pin ATX to Molex 4-pin power cable, L=150 mm (used for ATX power)



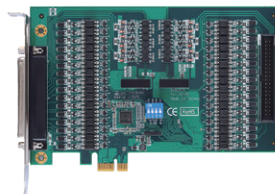
AX92351

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 (includes one 40-pin box-header to 37-pin female cable)



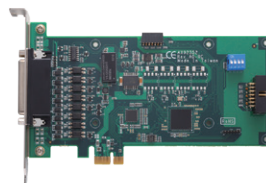
AX92352

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 be operating independently, please apply with AX92352)



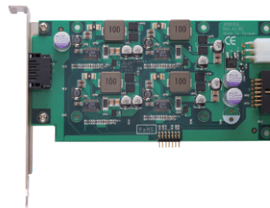
AX92353

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 be operating independently, please apply with AX92352.)
LED Power Cable (P/N: 59492350700E)	4P 4.2/6P 4.2, L=10 cm (only be used with IPC962/IPC964)





Embedded Systems



Features/Models	eBOX100-312-FL	eBOX100-51R-FL	eBOX560-52R-FL
CPU Level	Intel® Celeron® N3350 2.4 GHz Intel® Pentium® N4200 2.5 GHz	Intel® Core™ i5-7300U 2.6 GHz Intel® Celeron® 3965U 2.2 GHz	Intel® Core™ i5-8365UE 1.6 GHz Intel® Celeron® 4305UE 2.0 GHz
System Memory	1 x 204-pin DDR3L-1600 SO-DIMM, up to 8GB	1 x 260-pin DDR4-2133 SO-DIMM, up to 16G	1 x 260-pin DDR4-2400 SO-DIMM, up to 32GB
Chipset	SoC integrated	SoC integrated	SoC integrated
Serial	1 x RS-232	2 x RS-232/422/485	2 x RS-232/422/485
Display	2 x HDMI	1 x DisplayPort++	1 x HDMI 1 x DisplayPort
Audio	N/A	N/A	N/A
PS/2	N/A	N/A	N/A
Ethernet	2 x 10/100/1000 Mbps Ethernet	2 x 10/100/1000 Mbps Ethernet	2 x 10/100/1000 Mbps Ethernet
USB	4 x USB 2.0 2 x USB 3.0	2 x USB 3.0 2 x USB 2.0	2 x USB 3.2 Gen2 2 x USB 2.0
Expansion Interface	2 x Full-size PCI Express Mini Card slot (USB + PCIe) 1 x SIM slot	1 x M.2 Key E 2230 (for Wi-Fi)	1 x M.2 Key E 2230 (for Wi-Fi)
Storage	1 x 2.5" HDD drive bay	1 x M.2 Key B (SATA)	1 x 2.5" HDD drive bay
Watchdog Timer	255 levels, 1 to 255 sec.	65535 levels, 1 to 65536 sec.	65535 levels, 1 to 65536 sec.
Power Supply	12 VDC	12 VDC	12 VDC
Operating Temperature	-5°C to +60°C (+23°F to +140°F) (with W.T. SSD/DRAM)	-10°C to +50°C (+14°C to +122°C) (with W.T. SSD/DRAM)	-10°C to +50°C (+14°C to +122°C) (with W.T. SSD/DRAM)
Mounting	Wall mount VESA mount DIN-rail	Wall mount VESA mount DIN-rail	Wall mount VESA mount DIN-rail
Dimensions (W x D x H)	216 x 137.65 x 38 mm (8.5" x 5.41" x 1.49")	142 x 87 x 58 mm (5.59" x 3.42" x 2.28")	141.6 x 106 x 56 mm (5.57" x 6.29" x 2.28")
Weight (net/gross)	1.15 kg (2.53 lb)/1.5 kg (3.3 lb)	0.6 kg (1.32 lb)/1.5 kg (3.3 lb)	0.6 kg (1.32 lb)/1.5 kg (3.3 lb)
Certifications	CE, FCC Class A	CE, FCC Class A	CE, FCC Class A
EOS Support	Win 10 IoT, Linux	Win 10 IoT, Linux	Win 10 IoT, Linux
Software Support	N/A	AXView	AXView



Features/Models	eBOX560-512-FL	eBOX565-52R-FL	eBOX625-312-FL
CPU Level	Intel® Core™ i5-7300U 2.6 GHz/i3-7100U 2.4 GHz or Celeron® 3965U 2.2 GHz	Intel® Core™ i5 8365UE, 1.6 GHz Intel® Celeron® 4305UE, 2.0 GHz	Intel® Celeron® N3350 2.4 GHz Intel® Pentium® N4200 2.5 GHz
System Memory	1 x 260-pin DDR4-2133 SO-DIMM, up to 16GB	1 x 260-pin DDR4-2400 SO-DIMM, up to 32GB	1 x 204-pin DDR3L-1866 SO-DIMM, up to 8GB
Chipset	SoC integrated	SoC integrated	SoC integrated
Serial	2 x RS-232/422/485	2 x RS-232/422/485	2 x RS-232/422/485 1 x RS-232
Display	2 x HDMI	1 x DisplayPort++ 1 x HDMI (lockable)	1 x HDMI (lockable) 1 x VGA
Audio	N/A	N/A	N/A
PS/2	N/A	N/A	N/A
Ethernet	2 x 10/100/1000 Mbps Ethernet	2 x 10/100/1000 Mbps Ethernet	2 x 10/100/1000 Mbps Ethernet
USB	4 x USB 3.0	2 x USB 2.0 2 x USB 3.1 Gen2	2 x USB 2.0 4 x USB 3.0
Expansion Interface	1 x Full-size PCI Express Mini Card slot (USB + PCIe)	1 x M.2 Key E 2230 (for Wi-Fi)	2 x Full-size PCI Express Mini Card slot (USB + PCIe) 1 x SIM slot
Storage	1 x 2.5" HDD drive bay 1 x mSATA (enabled in BIOS setting)	1 x 2.5" SATA HDD drive bay	1 x 2.5" HDD drive bay 1 x mSATA (enabled in BIOS setting)
Watchdog Timer	255 levels, 1 to 255 sec.	65535 levels, 1 to 65536 sec.	65536 levels, 1 to 65535 sec.
Power Supply	12 VDC	9 to 36 VDC	12 VDC
Operating Temperature	-10°C to +50°C (+14°F to +122°F) (with W.T. SSD/DRAM)	-10°C to +50°C (+14°F to +122°F) (with W.T. SSD/DRAM)	-20°C to +60°C (-4°F to +140°F) (with W.T. SSD/DRAM)
Mounting	Wall mount VESA mount DIN-rail	Wall mount VESA mount DIN-rail	Wall mount VESA mount DIN-rail
Dimensions (W x D x H)	141.6 x 106 x 54.85 mm (5.57" x 4.17" x 2.15")	141.6 x 106 x 73 mm (5.57" x 4.17" x 2.87")	200 x 120 x 46 mm (7.87" x 4.72" x 1.81")
Weight (net/gross)	0.8 kg (1.76 lb)/1.67 kg (3.68 lb)	1.1 kg (2.43 lb)/1.8 kg (3.96 lb)	1.1 kg (2.43 lb)/1.8 kg (3.97 lb)
Certifications	CE, FCC Class A	CE, FCC Class A	CE, FCC Class A
EOS Support	Win 10 IoT, Linux	Win 10 IoT, Linux	Win 10 IoT, Linux
Software Support	N/A	AXView	AXView



Embedded Systems



Features\Models	eBOX626-311-FL	eBOX627-312-FL	eBOX630-528-FL
CPU Level	Intel Atom® x5-E3940 1.8 GHz	Intel® Celeron® N3350 2.4 GHz Intel® Pentium® N4200 2.5 GHz	Intel® Core™ i7-8665UE/i5-8365UE/ i3-8145UE or Celeron® 4305UE
System Memory	1 x 204-pin DDR3L-1866 SO-DIMM, up to 8GB	1 x 204-pin DDR3L-1866 SO-DIMM, up to 8GB	2 x 260-pin DDR4-2400 SO-DIMM, up to 64GB
Chipset	SoC integrated	SoC integrated	SoC integrated
Serial	2 x RS-232/422/485 1 x RS-232	2 x RS-232/422/485 2 x RS-232	2 x RS-232/422/485 2 x RS-232
Display	1 x HDMI (lockable) 1 x VGA	1 x HDMI (lockable)	2 x HDMI (lockable) 1 x VGA
Audio	Yes	N/A	Yes
PS/2	N/A	N/A	N/A
Ethernet	2 x 10/100/1000Mbps Ethernet	2 x 10/100/1000 Mbps Ethernet	3 x 10/100/1000 Mbps Ethernet
USB	2 x USB 2.0 4 x USB 3.0	2 x USB 2.0 4 x USB 3.0	2 x USB 3.1 Gen2 2 x USB 3.0 2 x USB 2.0
Expansion Interface	2 x Full-size PCI Express Mini Card slot (USB + PCIe) 1 x SIM slot	2 x Full-size PCI Express Mini Card slot (USB + PCIe) 1 x SIM slot	2 x Full-size PCI Express Mini Card slot A (USB + PCIe signal) and slot B (USB + PCIe + SATA signal)
Storage	1 x 2.5" HDD drive bay 1 x mSATA (enabled in BIOS setting)	1 x 2.5" HDD drive bay 1 x mSATA (enabled in BIOS setting)	2 x 2.5" HDD drive bay 1 x mSATA (enabled in BIOS setting)
Watchdog Timer	65536 levels, 1 to 65535 sec.	65536 levels, 1 to 65535 sec.	255 levels, 1 to 255 sec.
Power Supply	9 to 36 VDC	9 to 36 VDC	9 to 36 VDC
Operating Temperature	-40°C to +60°C (-40°F to +140°F) (with W.T. SSD/DRAM)	-20°C to +70°C (-4°F to +158°F) (with W.T. SSD/DRAM)	-40°C to +70°C (-40°F to +158°F) with 0.7 m/s air flow -40°C to +65°C (-40°F to +149°F) with 0.5 m/s air flow (with W.T. SSD/DRAM)
Mounting	Wall mount VESA mount DIN-rail	Wall mount VESA mount DIN-rail	Wall mount VESA mount DIN-rail
Dimensions (W x D x H)	200 x 120 x 46 mm (7.87" x 4.72" x 1.81)	200 x 120 x 65 mm (7.87" x 4.72" x 2.55")	250 x 170 x 60 mm (9.84" x 6.69" x 2.36")
Weight (net/gross)	1.2 kg (2.65 lb)/1.6 kg (3.53 lb)	1.38 kg (3.04 lb)/2.08 kg (4.59 lb)	2.4 kg (5.29 lb)/3.2 kg (7.0 lb)
Certifications	CE, FCC Class A	CE, FCC Class A	CE, FCC Class A
EOS Support	Win 10 IoT, Linux	Win 10 IoT, Linux	Win 10 IoT, Linux
Software Support	AXView	AXView	N/A



Features/Models	eBOX638-842-FL	eBOX640-521-FL	eBOX671-517-FL
CPU Level	Intel® Celeron® J1900 2.0 GHz	LGA1151 9th/8th gen Intel® Core™ i7/i5/i3 or Celeron® (35W)	LGA1151 7th/6th gen Intel® Core™ i7/i5/i3 or Celeron® (35W/65W)
System Memory	1 x 204-pin DDR3L-1066/1333 SO-DIMM, up to 8GB	2 x 260-pin DDR4-2666/2400 SO-DIMM, up to 64GB	2 x 260-pin DDR4-2133 SO-DIMM, up to 32GB
Chipset	SoC integrated	Intel® H310/Q370 (optional)	Intel® Q170
Serial	2 x RS-232/422/485 2 x RS-232	1 x RS-232/422/485 1 x RS-232	2 x RS-232/422/485
Display	1 x HDMI 1 x VGA	1 x HDMI 1 x DisplayPort	1 x VGA 1 x DVI-D 1 x HDMI
Audio	Yes	Yes	Yes
PS/2	Yes	N/A	N/A
Ethernet	2 x 10/100/1000 Mbps Ethernet	2 x 10/100/1000 Mbps Ethernet	8 x 10/100/1000 Mbps PoE, up to 120W
USB	5 x USB 2.0 1 x USB 3.0	4 x USB 2.0 2 x USB 3.0	2 x USB 2.0 4 x USB 3.0
Expansion Interface	1 x Full-size PCI Express Mini Card slot (USB + PCIe) 2 x PCI slot or 2 PCIe x1 slot 1 x SIM slot	1 x Full-size PCI Express Mini Card slot (PCIe + SATA + USB) 1 x M.2 Key E 2230 (for Wi-Fi)	2 x Full-size PCI Express Mini Card slot (USB + PCIe) 1 x Half-size PCI Express Mini Card slot (USB only) 1 x Half-size PCI Express Mini Card slot (USB + mSATA + PCIe) 2 x SIM slot
Storage	1 x 2.5" HDD drive bay 1 x mSATA (enabled in BIOS setting)	2 x 2.5" HDD drive bay	2 x 2.5" HDD drive bay 1 x mSATA (enabled in BIOS setting)
Watchdog Timer	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.
Power Supply	9 to 36 VDC	19 VDC, 6.32A (12 and 24 VDC can be used by optional adapter)	24 VDC
Operating Temperature	-10°C to +55°C (+14°F to +131°F) (with W.T. DRAM & SSD)	-10°C to +50°C (14°F to +122°F) (with W.T. SSD/DRAM)	-40°C to +70°C (-40°F to +158°F) (with W.T. SSD/DRAM)
Mounting	Wall mount	Wall mount DIN-rail	Wall mount DIN-rail
Dimensions (W x D x H)	192 x 230 x 115.8 mm (7.56" x 9.05" x 4.56")	195 x 210.6 x 80 mm (7.67" x 8.27" x 3.14")	280 x 210 x 79.6 mm (11.02" x 8.26" x 3.13")
Weight (net/gross)	4.1 kg (9.03 lb)/4.8 kg (10.58 lb)	3 kg (6.61 lb)/3.6 kg (7.94 lb)	4.31 kg (9.5 lb)/5.1 kg (11.24 lb)
Certifications	CE Compliance	CE, FCC Class A	CE, FCC Class A
EOS Support	WES7, Win 10 IoT	Win 10 IoT, Linux	Win 10 IoT, Linux
Software Support	N/A	N/A	AXView



Embedded Systems



NEW



Features\Models	eBOX671-521-FL	eBOX671A	eBOX700-891-FL
CPU Level	LGA1151 9th/8th gen Intel® Core™ i7/i5/i3 or Celeron® (35W/65W)	LGA1200 10th gen Intel® Xeon/Core™ i9/i7/i5/i3 or Celeron® (35W/65W)	LGA1151 7th/6th gen Intel® Core™ i7/i5/i3 or Celeron® (35W)
System Memory	2 x 260-pin DDR4-2666 SO-DIMM, up to 64GB	2 x 260-pin DDR4-2933 ECC*/non-ECC SO-DIMM, up to 64GB *ECC memory is available with Intel®Xeon® processor	7th gen: 2 x 260-pin SO-DIMM DDR4-2133/2400, up to 32GB 6th gen: 2 x 260-pin SO-DIMM DDR4-1866/2133, up to 32GB
Chipset	Intel® Q370 Intel® C246 (optional)	Intel® W480E	Intel® H110
Serial	2 x RS-232/422/485	2 x RS-232/422/485 2 x RS-232	2 x RS-232/422/485
Display	1 x DisplayPort 1 x DVI-I 1 x HDMI 2 x DisplayPort via MXM (optional)	2 x HDMI 1.4b 1 x DisplayPort 1.2 ++	1 x DisplayPort 2 x HDMI
Audio	Optional	Optional	Optional
PS/2	N/A	N/A	N/A
Ethernet	2 x 10/100/1000 Mbps Ethernet 4 x 10/100/1000 Mbps PoE, up to 60W	4 x 10/100/1000 Mbps Ethernet	4 x 10/100/1000 Mbps Ethernet
USB	4 x USB 3.2 Gen1 2 x USB 3.2 Gen2	5 x USB 3.2 Gen2 1 x USB 3.2 Gen1	2 x USB 2.0 4 x USB 3.0
Expansion Interface	2 x Full-size PCI Express Mini Card slot (USB + PCIe) 2 x SIM slot 1 x MXM 3.1 type A connector	2 x Full-size PCI Express Mini card slot (USB + PCIe + SATA) 2 x SIM slot 1 x M.2 Key B (for 5G)	2 x Full-size PCI Express Mini Card slot (USB + PCIe) 1 x PCIe x4 or 1 x PCI 1 x SIM slot
Storage	2 x 2.5" HDD drive bay 1 x mSATA (enabled in BIOS setting)	2 x 2.5" HDD drive Bay 2 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	24 VDC	9 to 48 VDC	9 to 36 VDC
Operating Temperature	-40°C to +60°C (-40°F to +140°F) (with W.T. SSD/DRAM)	-40°C to 70°C (40°F to +158°F) (with W.T. SSD/DRAM)	-40°C to +50°C (-40°F to +122°F) (with W.T. SSD/DRAM)
Mounting	Wall mount DIN-rail	Wall mount DIN-rail	Wall mount DIN-rail
Dimensions (W x D x H)	280 x 210 x 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 190 x 76 mm (11.02" x 7.4" x 2.99")
Weight (net/gross)	4.8 kg (10.58 lb)/5.6 kg (12.34 lb)	4.9 kg (10.8 lb)/7 kg (15.43 lb)	3.8 kg (8.37 lb)/4.6 kg (10.14 lb)
Certifications	CE, FCC Class A	CE, FCC Class A	CE, FCC Class A
EOS Support	Win 10 IoT, Linux	Win 10 IoT, Linux	Win 10 IoT, Linux
Software Support	AXView	N/A	AXView



Features	Models	eBOX710-521-FL	eBOX800-511-FL	eBOX800-841-FL
CPU Level		LGA1151 Intel® Xeon®, 9th/8th gen Intel® Core™ i7/i5/i3 or Celeron® (35W)	Intel® Core™ i5-7300U or Celeron® 3965U	Intel Atom® E3845 1.91 GHz
System Memory		2 x 260-pin DDR4-2666 ECC/ non-ECC SO-DIMM, up to 64GB* *ECC memory is supported by Intel® Xeon® and Intel® Core™ i3 processor only	1 x 260-pin DDR4-2133 SO-DIMM, up to 16GB	1 x 204-pin DDR3L-1066/1333 SO-DIMM, up to 8GB
Chipset		Intel® C246 PCH	SoC integrated	SoC integrated
Serial		2 x RS-232/422/485	2 x RS-232/422/485 (M12)	2 x RS-232/422/485 (M12)
Display		1 x HDMI 1 x DisplayPort 1 x DVI-I	1 x VGA (M12)	1 x VGA
Audio		Optional	N/A	N/A
PS/2		N/A	N/A	N/A
Ethernet		6 x 10/100/1000 Mbps Ethernet	1 x 10/100/1000 Mbps Ethernet (M12)	2 x 10/100/1000 Mbps Ethernet (M12)
USB		4 x USB 3.1 Gen2 2 x USB 3.1 Gen1	2 x USB 2.0 (M12)	2 x USB 2.0 (M12)
Expansion Interface		2 x Full-size PCI Express Mini Card slot (USB + PCIe) 2 x SIM slot 1 x PCIe x4 slot	1 x Full-size PCI Express Mini Card slot 1 x Half-size PCI Express Mini Card slot (USB + PCIe)	1 x Full-size PCI Express Mini Card slot 1 x Half-size PCI Express Mini Card slot (USB + PCIe)
Storage		2 x 2.5" HDD drive bay 1 x mSATA (enabled in BIOS setting)	1 x 2.5" HDD drive bay 1 x mSATA (enabled in BIOS setting)	1 x 2.5" HDD drive bay 1 x CFast™ 1 x mSATA (enabled in BIOS setting) 1 x SIM slot
Watchdog Timer		255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.
Power Supply		24 VDC	9 to 36 VDC (M12)	9 to 36 VDC (M12)
Operating Temperature		-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)	-30°C to +60°C (-22°F to +140°F) (with W.T. SSD/DRAM)
Mounting		Wall mount DIN-rail	Wall mount	Wall mount
Dimensions (W x D x H)		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")	210 x 366.83 x 83.8 mm (8.27" x 14.44" x 3.27")
Weight (net/gross)		4.8 kg (10.58 lb)/5.6 kg (12.34 lb)	4.31 kg (9.5 lb)/5.1 kg (11.24 lb)	4.31 kg (9.5 lb)/5.1 kg (11.24 lb)
Certifications		CE, FCC Class A	CE, FCC Class A	CE
EOS Support		Win 10 IoT, Linux	Win 10 IoT, Linux	Win 10 IoT, WE8S, WE8T, Linux
Software Support		AXView	AXView	N/A



Edge AI Systems



Features	Models	AIE100-903-FL	AIE100-903-FL-NX	AIE100-T2NX
AI Accelerator		NVIDIA® Jetson Nano™ SoM	NVIDIA® Jetson Xavier™ NX SoM	NVIDIA® Jetson™ TX2 NX SoM
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 and 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	8GB 128-bit LPDDR4x onboard	4 GB 128-bit LPDDR4 onboard
Chipset		SoM integrated	SoM integrated	SoM integrated
Serial		N/A	N/A	N/A
Display		1 x HDMI	1 x HDMI	1 x HDMI
Ethernet		1 x 10/100/1000 Mbps Ethernet 1 x 10/100/1000 Mbps PoE	1 x 10/100/1000 Mbps Ethernet 1 x 10/100/1000 Mbps PoE	1 x 10/100/1000 Mbps Ethernet 1 x 10/100/1000 Mbps PoE
CANbus		N/A	N/A	N/A
Serial		N/A	N/A	N/A
USB		1 x USB 3.2 Gen1 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 Gen1 1 x USB 2.0 1 x Micro USB
Expansion Interface		1 x Full-size PCI Express Mini Card slot (USB + PCIe) 1 x SIM slot	1 x Full-size PCI Express Mini Card slot (USB + PCIe) 1 x SIM slot	1 x Full-size PCI Express Mini Card slot (USB + PCIe) 1 x SIM slot
Storage		Onboard 16GB eMMC (built-in Nano) 1 x M.2 Key M 2280 with PCIe x4 NVMe SSD slot 1 x Micro SD slot	Onboard 16GB eMMC (built-in Xavier NX) 1 x M.2 Key M 2280 with PCIe x4 NVMe SSD slot 1 x Micro SD slot	Onboard 16GB eMMC (built-in TX2 NX) 1 x M.2 Key M 2280 with PCIe x4 NVMe SSD slot 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 (2.20 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	CE, FCC Class A	CE, FCC Class A
EOS Support		Linux Ubuntu 18.04	Linux Ubuntu 18.04	Linux Ubuntu 18.04



Features	Models	AIE500-901-FL	AIE800-904-FL	AIE900-902-FL
AI Accelerator		NVIDIA® Jetson™ TX2 SoM	NVIDIA® Jetson Xavier™ NX SoM	NVIDIA® Jetson AGX Xavier™ SoM
CPU Level		HMP Dual Denver 2/2 MB L2 + Quad ARM® A57/2 MB L2	6-core NVIDIA Carmel ARMv8.2 64-bit CPU, 6MB L2 + 4MB L3	8-core Carmel ARM v8.2 64-bit CPU, 8MB L2 + 4MB L3
GPU		256-core NVIDIA Pascal™ GPU	384-core NVIDIA Volta™ GPU with 48 Tensor Cores	512-core NVIDIA Volta™ GPU with 64 Tensor Cores
System Memory		8GB 128-bit LPDDR4 onboard	8GB 128-bit LPDDR4x onboard	32GB 256-bit LPDDR4x onboard
Chipset		SoM integrated	SoM integrated	SoM integrated
Serial		2 x RS-232 default (or 2 x CAN by jumper settings)	N/A	2 x RS-232 default (or 2 x CAN by jumper settings)
Display		1 x HDMI	1 x HDMI	2 x HDMI (lockable)
Ethernet		2 x 10/100/1000 Mbps Ethernet	1 x 10/100/1000 Mbps PoE (M12, 30W)	2 x 10/100/1000 Mbps Ethernet 4 x 10/100/1000 Mbps PoE
CANbus		N/A	N/A	N/A
Serial		N/A	N/A	N/A
USB		2 x USB 3.2 Gen1 1 x Micro USB	1 x USB 2.0	2 x USB 3.2 Gen2 2 x USB 3.2 Gen1 2 x USB 2.0 1 x Micro USB
Expansion Interface		1 x Full-size PCI Express Mini Card slot (USB + PCIe) 1 x SIM slot	1 x Full-size PCI Express Mini Card slot (USB + PCIe) 1 x SIM slot	1 x Full-size PCI Express Mini Card slot (USB + PCIe) 1 x M.2 Key E 2230 slot 1 x SIM slot
Storage		Onboard 32GB eMMC (built-in TX2) 1 x M.2 Key M 2280 with PCIe x1 and SATA SSD slot 1 x Micro SD slot	Onboard 16GB eMMC (built-in Xavier™ NX) 1 x M.2 Key B 2242 with PCIe x2 NVMe SSD slot	Onboard 32GB eMMC (built-in AGX Xavier) 1 x M.2 Key M 2280 with PCIe x4 NVMe SSD slot 1 x Micro SD slot 1 x 2.5" SSD/HDD drive bay
Watchdog Timer		Built-in TX2	Built-in Xavier NX	Built-in AGX Xavier
Power Supply		12 or 24 VDC	100 to 240 VAC with 10kV SPD	24 VDC default (9 to 36 VDC without PoE feature by option)
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 +50°C (-22°F to +122°F)
Mounting		Wall mount DIN-rail VESA mount	Wall mount VESA mount	Wall mount DIN-rail VESA mount
Dimensions (W x D x H)		171 x 110 x 57 mm (6.73" x 4.33" x 2.24")	366.8 x 235 x 83.8 mm (14.44" x 9.25" x 3.3")	239 x 185.3 x 79.4 mm (9.41" x 7.3" x 3.13")
Weight (net/gross)		1.2 kg (2.64 lb)/1.7 kg (3.75 lb)	4.13kg (9.11lb)/5.5kg (12.13lb)	2.8kg (6.17lb)/3.45kg (7.61lb)
Certifications		CE, FCC Class A	CE, FCC Class A	CE, FCC Class A
EOS Support		Linux Ubuntu 18.04	Linux Ubuntu 18.04	Linux Ubuntu 18.04



Edge AI Systems

NEW



NEW



NEW



Features	Models	AIE900-XXN	RSC100	RSC101
AI Accelerator		NVIDIA® Jetson Xavier™ NX SoM	Hailo-8™, up to 26 TOPS	Hailo-8™, up to 26 TOPS
CPU Level		6-core NVIDIA Carmel ARMv8.2 64-bit CPU, 6MB L2 and 4MB L3	NXP® i.MX 8QuadMax processor	Intel® Elkhart Lake processor
GPU		384-core NVIDIA Volta™ GPU with 48 Tensor Cores	SoC integrated	SoC integrated
System Memory		8GB 128-bit LPDDR4x onboard	4GB LPDDR4 onboard	1 x DDR4 SO-DIMM slot, up to 32GB
Chipset		SoM integrated	SoM integrated	SoM integrated
Serial		2 x DB9 for RS-232/422/485/CAN (selected by jumper setting)	2 x RS-232/422/485	1 x Wafer for RS-232/485
Display		1 x HDMI (lockable)	1 x HDMI 2.0 with 4K2K supported	1 x HDMI 2.0 with 4K2K supported
Ethernet		1 x 10/100/1000 Mbps Ethernet 4 x 10/100/1000 Mbps PoE	2 x 10/100/1000 Mbps Ethernet	2 x 10/100/1000 Mbps Ethernet
CANbus		N/A	N/A	2 x CANbus
Serial		N/A	N/A	1 x Console port
USB		2 x USB 3.2 Gen2 1 x Micro USB	2 x USB 2.0	1 x USB 3.2 Gen1 1 x USB 2.0
Expansion Interface		1 x MIPI CSI-2 connector 1 x Full-size PCI Express Mini Card slot (USB + PCI Express signal) 1 x M.2 Key B 3050/3042 slot 1 x SIM slot	2 x Full-size PCI Express Mini Card slot 1 x M.2 Key B 3052 slot 1 x SIM slot	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		Onboard 16GB eMMC (via Jetson Xavier™ NX) 1 x M.2 Key M 2280 with PCIe x4 NVMe SSD slot 1 x Micro SD slot	Onboard 16GB eMMC 1 x M.2 Key M 2280 SATA SSD slot 1 x Micro SD slot	1 x M.2 Key B 2242 SSD slot (SATA3)
Watchdog Timer		Dual watchdog timer	N/A	255 levels, 1 to 255 sec.
Power Supply		9 to 36 VDC (ignition power control by option)	12 VDC	12 to 24 VDC power input
Operating Temperature		-30°C to +60°C (-22°F to +140°F)	-20°C to +70°C (-4°F to +158°F)	-10°C to +60°C (14°F to +140°F)
Mounting		Wall mount DIN-rail VESA mount	Wall mount	Wall mount
Dimensions (W x D x H)		239 x 185.3 x 79.4 mm (9.41" x 7.3" x 3.13")	200 x 150 x 45 mm (7.87" x 5.9" x 1.77")	154.4 x 111.0 x 49.4 mm (6.08" x 4.37" x 1.94")
Weight (net/gross)		2.8kg (6.17lb)/3.45kg (7.61lb)	2.1 kg (4.63 lb)/2.75 kg (6.06 lb)	1.3 kg (2.87 lb)
Certifications		CE, FCC Class A	CE, FCC Class A	CE, FCC Class A
EOS Support		Linux Ubuntu 18.04	Yocto Linux 3.0	Windows 10, Linux

Transportation Embedded Systems



Features/Models	tBOX100-838-FL	tBOX810-838-FL	tBOX324-894-FL
CPU Level	Intel Atom® E3845 4C @ 1.91 GHz	Intel Atom® E3845 4C @ 1.91 GHz Intel Atom® E3827 2C @ 1.75 GHz	Intel® Core™ i7-7600U 2.8 GHz Intel® Core™ i7-6600U 2.6 GHz Intel® Core™ i5-7300U 2.4 GHz Intel® Core™ i5-6300U 2.4 GHz Intel® Core™ i3-7100U 2.4 GHz Intel® Core™ i3-6100U 2.3 GHz Intel® Celeron® 3965U 2.2 GHz Intel® Celeron® 3955U 2.0 GHz
System Memory	DDR3L-1333 4GB DRAM	DDR3L-1333 4GB DRAM	2 x DDR4-1866/2133 SO-DIMM, up to 32GB
Chipset	SoC integrated	SoC integrated	SoC integrated
TPM	N/A	N/A	N/A
Serial	1 x Serial console or RS-232/422/485	2 x Serial console or RS-232/422/485	3 x Isolated RS-232/422/485
CANbus	N/A	N/A	1 x Isolated CANbus 2.0 A/B, supports SocketCAN
Display	1 x VGA	1 x VGA	1 x DVI-I (1 x VGA and 1 x DVI) 1 x VGA
Audio	1 x Mic-in, 1 x Line-out	1 x Mic-in, 1 x Line-out, 1 x Line-in (optional, occupied 1 x PCIe Mini Card slot)	1 x Mic-in, 1 x Line-out
SDI Input	5 x BNC (4 x Video-in & 1 x Audio-in)	N/A	N/A
Ethernet	2 x 10/100/1000 Mbps Ethernet (M12 A-coded/RJ-45 optional)	2 x 10/100/1000 Mbps Ethernet (M12 A-coded/RJ-45 optional)	4 x 10/100/1000 Mbps Ethernet (M12 A-coded/RJ-45 optional)
PoE (PSE, Power Sourcing Equipment)	N/A	N/A	N/A
USB	2 x USB 2.0	2 x USB 2.0	4 x USB 3.0
DIO	N/A	1 x 8-bit programmable DIO	1 x Isolated DIO 4-in/4-out
Expansion Interface	1 x Full-size PCI Express Mini Card slot 1 x SIM card slot	2 x Full-size PCI Express Mini Card slot 1 x SIM card slot	3 x Full-size PCI Express Mini Card slot 1 x SIM card slot
Storage	1 x 2.5" SATA HDD/SSD	1 x 2.5" SATA HDD/SSD 1 x mSATA (occupied 1 PCIe Mini card)	2 x Swappable 2.5" SATA HDD/SSD 1 x Cfast™
RAID Function	N/A	N/A	Intel® RAID 0/1
Watchdog Timer	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.
Power Supply	Railway: 24 VDC (M12) Vehicle: 12/24 VDC (ACC ignition, terminal block)	Railway: 24 VDC (M12) Vehicle: 12/24 VDC (ACC ignition, terminal block) Marine: 24 VDC (terminal block)	Railway: 24/110 VDC (M12) Vehicle: 12/24 VDC (ACC ignition, terminal block) Marine: 24 VDC (terminal block)
Operating Temperature	-40°C to +60°C (-40°F to +140°F) with W.T. peripheral	-40°C to +70°C (-40°F to +158°F) with W.T. peripheral	-40°C to +70°C (-40°F to +158°F) with W.T. peripheral
Mounting	Wall mount DIN-rail	Wall mount DIN-rail	Wall mount
Dimensions (W x D x H) without Mounting	163.8 x 108 x 56.3 mm (6.44" x 4.25" x 2.22")	164.1 x 108 x 44 mm (6.46" x 4.25" x 1.73")	288.5 x 211.3 x 85.75 mm (11.36" x 8.32" x 3.38")
Weight (net/gross)	0.77 kg (1.70 lb)/1.44 kg (3.17 lb)	0.77 kg (1.70 lb)/2 kg (4.41 lb)	5 kg (11.02 lb)/6.65 kg (14.66 lb)
Certifications	CE (Class A), FCC (Class A), EN 50155, EN 45545-2, IEC 60945 and ISO 7637-2 compliant	CE (Class A), FCC (Class A), EN 50155, EN 45545-2, E-Mark, IEC 60945 and DNV 2.4 certified	CE (Class A), LVDT, FCC (Class A), EN 50155, EN 45545-2, E-Mark, IEC 60945 and DNV 2.4 certified
EOS Support	Windows® 10, WEBS, WES 7, VxWorks7, Linux	Windows® 10 64-bit, WEBS, WES 7, VxWorks7, Linux	WES 7, Windows 10 64-bit, Linux
Software Support	AXView	AXView	AXView



Transportation Embedded Systems



Features/Models	tBOX300-510-FL	tBOX400-510-FL	tBOX500-510-FL
CPU Level	Intel® Core™ i7-7600U 2.8 GHz Intel® Core™ i5-7300U 2.6 GHz Intel® Core™ i3-7100U 2.4 GHz Intel® Celeron® 3965U 2.2 GHz	Intel® Core™ i7-7600U 2.8 GHz Intel® Core™ i5-7300U 2.6 GHz Intel® Core™ i3-7100U 2.4 GHz Intel® Celeron® 3965U 2.2 GHz	Intel® Core™ i7-7600U 2C @ 2.8 GHz Intel® Core™ i5-7300U 2C @ 2.6 GHz Intel® Core™ i3-7100U 2C @ 2.4 GHz Intel® Celeron® 3965U 2C @ 2.2 GHz
System Memory	2 x DDR4-1866/2133 SO-DIMM, up to 32GB	2 x DDR4-1866/2133 SO-DIMM, up to 32GB	2 x DDR4-1866/2133 SO-DIMM, up to 32GB
Chipset	SoC integrated	SoC integrated	SoC integrated
TPM	TPM 2.0	TPM 2.0	TPM 2.0
Serial	1 x Serial console or RS-232/422/485	1 x Serial console or RS-232/422/485	1 x Serial console or RS-232/422/485
CANbus	N/A	N/A	N/A
Display	1 x DVI-I (1 x VGA and 1 x DVI)	1 x DVI-I (1 x VGA and 1 x DVI)	1 x DVI-I (1 x VGA and 1 x DVI)
Audio	1 x Mic-in, 1 x Line-out	1 x Mic-in, 1 x Line-out	1 x Mic-in, 1 x Line-out
Ethernet	1 x RJ-45 10/100/1000 Mbps Ethernet	Layer-2 managed 8 x M12 D-coded 10/100 Mbps Ethernet Layer-2 managed 2 x M12 A-coded 10/100/1000 Mbps Ethernet 1 x RJ-45 10/100/1000 Mbps Ethernet	1 x RJ-45 10/100/1000 Mbps Ethernet
PoE (PSE, Power Sourcing Equipment)	N/A	Layer-2 managed 8 x M12 D-coded 10/100Mbps PoE output max. 120W supports PoE & PoE+	N/A
USB	4 x USB 3.0	4 x USB 3.0	4 x USB 3.0
DIO	N/A	N/A	N/A
Expansion Interface	3 x Full-size PCI Express Mini Card slot 2 x SIM card slot 1 x Value-added module slot	3 x Full-size PCI Express Mini Card slot 2 x SIM card slot	3 x Full-size PCI Express Mini Card slot 2 x SIM card slot 2 x Value-added module slot
Storage	4 x Swappable 2.5" SATA drive 1 x mSATA (occupied 1 PCIe Mini card)	2 x Swappable 2.5" SATA drive 1 x mSATA (occupied 1 PCIe Mini card)	2 x Swappable 2.5" SATA drive 1 x mSATA (occupied 1 PCIe Mini card)
RAID function	Marvell HW RAID 0/1/10	Intel® RAID 0/1	Intel® RAID 0/1
Watchdog Timer	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.
Power Supply	Railway: 24 - 110 VDC (M12) Marine: 24 VDC (terminal block)	Railway: 24 - 110 VDC (M12)	Railway: 24 - 110 VDC (M12) Vehicle: 12/24 VDC (ACC ignition, terminal block) Marine: 24 VDC (terminal block)
Operating Temperature	-25°C to +70°C (-13°F to +158°F) with W.T. peripheral -25°C to +60°C (-13°F to +140°F) with PSU120 & W.T. peripheral	-40°C to +70°C (-40°F to +158°F) with W.T. peripheral -40°C to +60°C (-40°F to +140°F) with PSU120 & W.T. peripheral	-40°C to +70°C (-40°F to +158°F) with W.T. peripheral -40°C to +60°C (-40°F to +140°F) with PSU120 & W.T. peripheral
Mounting	Wall mount	Wall mount	Wall mount
Dimensions (W x D x H) without Mounting	321 x 210.2 x 105.33 mm (12.64" x 8.28" x 4.15")	321 x 210.2 x 73.3 mm (12.64" x 8.28" x 2.89")	321 x 210.2 x 73.3 mm (12.64" x 8.28" x 2.89")
Weight (net/gross)	5.5 kg (12.13 lb)/6.7 kg (14.77 lb)	3.5 kg (7.72 lb)/5.17 kg (11.40 lb)	3.5 kg (7.72 lb)/5.1 kg (11.24 lb)
Certifications	CE (Class A), LVD, FCC (Class A) and EN 50155, EN 45545-2 certified; IEC 60945 compliant	CE (Class A), LVD and FCC (Class A), EN 50155 and EN 45545-2 compliant	CE (Class A), LVD, FCC (Class A), EN 50155, EN 45545-2, and IEC 60945 certified; ISO 7637-2 compliant
EOS Support	Windows® 10 64-bit, Linux	Windows® 10 64-bit, Linux	Windows® 10 64-bit, Linux
Software Support	AXView	AXView	AXView



Features\Models	tBOX510-518-FL	UST100-504-FL	UST200-83H-FL
CPU Level	Intel® Core™ i7-7600U 2.8 GHz Intel® Core™ i5-7300U 2.6 GHz Intel® Core™ i3-7100U 2.4 GHz Intel® Celeron® 3965U 2.2 GHz	7th gen Intel® Core™ 35W (socket type) 6th gen Intel® Core™ 35W (socket type)	Intel Atom® x5-E3930 2C @ 1.3 GHz
System Memory	1 x DDR4-2133 SO-DIMM, up to 16GB	1 x DDR4-1866/2133/2400 SO-DIMM, up to 16GB	1 x DDR3L-1866 SO-DIMM, up to 8GB
Chipset	SoC integrated	Intel® H110	SoC integrated
TPM	TPM 2.0	TPM 2.0	TPM 2.0
Serial	1 x Serial console or RS-232/422/485	1 x DB9 Serial console or RS-232/422/485	1 x DB9 Serial console or RS-232/422/485
CANbus	N/A	N/A	1 x CANbus 2.0 A/B, supports SocketCAN
Display	1 x VGA, 1 x HDMI	1 x HDMI 1.4b	1 x VGA
Audio	1 x Mic-in, 1 x Line-out	1 x Mic-in, 1 x Line-out (optional)	N/A
Ethernet	2 x RJ-45 10/100/1000 Mbps Ethernet (Intel® i210-IT)	2 x RJ-45 10/100/1000 Mbps Ethernet (Intel® i211-IT)	2 x RJ-45 10/100/1000 Mbps Ethernet (Intel® i211-AT)
PoE (PSE, Power Sourcing Equipment)	N/A	N/A	N/A
USB	2x USB 2.0 (in 1x M12 A-coded) 4 x USB 3.0	4 x USB 3.0	2 x USB 2.0
DIO	1 x Isolated DIO 4-in/4-out	1 x 4-in/4-out programmable DIO	1 x 8-bit programmable DIO
Expansion Interface	2 x Full-size PCI Express Mini Card slot 1 x Plug-In Module slot 1 x external SIM card slot	2 x Full-size Rev.1.2 PCI Express Mini Card slot 1 x Half-size Rev.1.2 PCI Express Mini Card slot	1 x Full-size Rev.1.2 PCI Express Mini Card slot 1 x Half-size Rev.1.2 PCI Express Mini Card slot 1 x SIM card slot
Storage	1 x Swappable 2.5" SATA drive 1 x CFast™	1 x Internal 2.5" SATA drive 1 x Full-sized mSATA (occupied PCIe Mini card) 1 x Half-sized mSATA (occupied 1 PCIe Mini card)	1 x mSATA (occupied 1 PCIe Mini card)
RAID function	N/A	N/A	N/A
Watchdog Timer	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.
Power Supply	24 - 110 VDC (M12) (S2 optional)	24 VDC (ACC ignition, terminal block)	Vehicle: 12 or 24 VDC typical with Smart Ignition, terminal block supported AT Mode: 9 - 36 VDC
Operating Temperature	-40°C to +70°C (-40°F to +158°F) with W.T. peripheral	-40°C to +60°C (-40°F to +140°F) with W.T. peripheral	-40°C to +70°C (-40°F to +158°F) with W.T. peripheral
Mounting	Wall mount DIN-rail	Wall mount	Wall mount DIN-rail
Dimensions (W x D x H) without Mounting	119.8 x 124.8 x 155 mm (4.72" x 4.91" x 6.1")	185 x 150 x 65.15 mm (7.09" x 5.91" x 2.56")	31 x 100.4 x 125 mm (1.22" x 3.93" x 4.92")
Weight (net/gross)	2.50 kg (5.51 lb) / 2.65 kg (5.84 lb)	1.71 kg (3.77 lb) / 2.19 kg (4.83 lb)	0.3 kg (0.67 lb) / 0.45 kg (0.99 lb)
Certifications	CE (Class A), LVD, FCC (Class A), EN 50155, EN45545-2 certified; EN 50124 compliant	CE, FCC certified; and ISO 7637-2 compliant	CE (Class A), FCC (Class A) certified; ISO 7637-2 compliant
EOS Support	Windows® 10 64-bit, Linux	Windows® 10 64-bit, Windows® 7 64-bit, Linux	Windows® 10 64-bit, Linux
Software Support	AXView	AXView	AXView



Transportation Embedded Systems



NEW



Features/Models	UST210-83K-FL	UST500-517-FL	UST510-52B-FL
CPU Level	Intel Atom® x5-E3940 4C @ 1.6 GHz	7th gen Intel® Core™ 35 - 65W (socket type) 6th gen Intel® Core™ 35 - 65W (socket type)	9th/8th gen Intel® Core™ up to 65W (socket type)
System Memory	1 x DDR3L-1866 SO-DIMM, up to 8GB	2 x DDR4-1866/2133/2400 SO-DIMM, up to 32GB	2 x 260-pin DDR4-2666 ECC/non-ECC SO-DIMM, up to 64GB
Chipset	SoC integrated	Intel® Q170	Intel® C246
TPM	TPM 2.0	TPM 2.0	TPM 2.0
Serial	Up to 2 x DB9 Serial console or RS-232/422/485	2 x Serial console or RS-232/422/485	2 x terminal block RS-232/422/485 (4-wire)
CANbus	1 x CANbus 2.0 A/B, supports SocketCAN	N/A	N/A
Display	1 x HDMI	1 x VGA, 1 x DVI-D, 1 x HDMI	1 x VGA, 2 x HDMI
Audio	N/A	1 x Mic-in, 1 x Line-out	1 x Mic-in, 1 x Line-out
Ethernet	4 x RJ-45 10/100/1000 Mbps Ethernet (Intel® i211-AT)	8 x RJ-45 GbE LAN (with 2 SATA) 16 x RJ-45 GbE LAN (with 4 SATA or 2 SATA) 8 x RJ-45, 8 x M12 A-coded GbE LAN (with 4 SATA) 8 x M12 A-coded GbE LAN (with 4 SATA) (Intel® i211-AT)	Front side: 1 x RJ-45 GbE LAN (Intel® i211-AT) Rear side (flexible LAN selection): 8 x RJ-45 GbE LAN (Intel® i211-AT)
PoE (PSE, Power Sourcing Equipment)	Up to 4 x configurable RJ-45 PoE output max. 30W supports PoE & PoE+	Up to 16 x RJ-45/8 x RJ-45 & 8 x M12 PoE output max. 200W supports PoE & PoE+	Up to 8 x RJ-45 output max. 90W supports PoE & PoE+
USB	2 x USB 3.0	4 x USB 3.0	4 x USB 3.0
DIO	1 x 8-bit programmable DIO	1 x Isolated DIO 6-in/2-out	1 x Isolated DIO 6-in/2-out
Expansion Interface	1 x Full-size Rev.1.2 PCI Express Mini Card slot 1 x Half-size Rev.1.2 PCI Express Mini Card slot 1 x SIM card slot	2 x Full-size PCI Express Mini Card slot 2 x Half-size PCI Express Mini Card slot 2 x External accessible SIM card slot	1 x Full-size PCI Express Mini Card slot 1 x Half-size PCI Express Mini Card slot 1 x M.2 Key B 1 x M.2 Key A & E 2 x External accessible SIM card slot
Storage	1 x Internal 2.5" SATA drive 1 x mSATA (occupied 1 PCIe Mini card)	2 x 2.5" internal SATA drive (with 2 SATA) 2 x 2.5" swappable SATA drive (with 2 SATA) 4 x 2.5" swappable SATA drive (with 4 SATA) 1 x mSATA (occupied 1 PCIe Mini card)	2 x Swappable 2.5" SATA drive 2 x mSATA (occupied 2 PCI Express Mini Card slots)
RAID function	N/A	Intel® RAID 0/1/5/10	Intel® RAID 0/1
Watchdog Timer	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.
Power Supply	Vehicle: 12 or 24 VDC typical (support Smart Ignition, terminal block) AT Mode: 9 - 36 VDC	Vehicle: 24 VDC (ACC ignition, terminal block) AT Mode: 9 - 36 VDC	Vehicle: 12 or 24 VDC typical (support Smart Ignition, terminal block) AT Mode: 9 - 36 VDC
Operating Temperature	-40°C to +70°C (-40°F to +158°F) with W.T. peripheral	-40°C to +70°C (-40°F to +158°F) with W.T. peripheral	-40°C to +70°C (-40°F to +158°F) with W.T. peripheral
Mounting	Wall mount , DIN-rail	Wall mount	Wall mount
Dimensions (W x D x H) without Mounting	Non-PoE SKU: 48 x 110.4 x 155 mm (1.89" x 4.33" x 6.1") Non-PoE SKU: 67 x 110.4 x 155 mm (2.63" x 4.33" x 6.1")	2 internal SATA SKU: 280 x 210.5 x 70 mm (11.02" x 8.27" x 2.76") 2 swappable SATA SKU: 280 x 210.5 x 83.7 mm (11.02" x 8.27" x 3.30") 4 swappable SATA SKU: 280 x 210.5 x 99.2 mm (11.02" x 8.27" x 3.91")	240 x 210.5 x 82.2 mm (9.45" x 8.29" x 3.31")
Weight (net/gross)	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)	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)	4.16 kg (9.17 lb)/4.82 kg (10.62 lb)
Certifications	CE (Class A), FCC (Class A) certified; ISO 7637-2 compliant	CE (Class A), FCC (Class A), E-Mark (E13), EN 50155 certified	CE (Class A), FCC (Class A), E-Mark (E13), certified
EOS Support	Windows® 10 64-bit, Linux	Windows® 10 64-bit, Windows® 7 64/32-bit (for 6th gen Intel® CPU)	Windows® 10 64-bit, Linux
Software Support	AXView	AXView	AXView

Certification Guide



V: Certified △: Compliant

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



V: Certified △: Compliant

Features	Models	tBOX100-838-FL	tBOX810-838-FL	UST100-504-FL	UST200-83H-FL	UST210-83K-FL	UST500-517-FL	UST510-52B-FL
IP Rating		△ (IP30)	V (IP40)	△ (IP30)	△ (IP20)	△ (IP20)	△ (up to IP40)***	△ (up to IP40)***
CE		△	V	V	V	V	V	V
LVD								
FCC		△	V	V	V	V	V	V
	EN 50155	△	V				V	
	EN 50121-3-2	△	V				V	
Railway	IEC 62236-3-2	△	V				V	
	EN 61373	△	V				V	
	EN 45545-2**	△	V					
	DNV 2.4		V					
Marine	IEC 60945	△	V					
	IEC 61000-4	△	V					
	CISPR 16-1	△	V					
	IEC 60068-2	△	V					
Vehicle	E-Mark (ECE-R10)	△ (ISO 7637-2)	V (E13)	△ (ISO 7637-2)	△ (ISO 7637-2)	△ (ISO 7637-2)	V (E13)	V (E13)

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

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

***Please check datasheet for more detail.



x86-based DIN-rail Embedded Systems



Features\Models	ICO100-839	ICO120-83D	ICO300
CPU Level	Intel® Celeron® N3350 1.1 GHz	Intel® Celeron® N3350 1.1 GHz	Intel Atom® E3815 1.46 GHz Intel Atom® E3827 1.75 GHz
System Memory	1 x DDR3L-1866 SODIMM, up to 8GB	1 x DDR3L-1866 SO-DIMM, up to 8GB	1 x DDR3L 1333/1600 SO-DIMM, up to 4GB (E3815) or up to 8GB (E3827)
Chipset	SoC integrated	SoC integrated	SoC integrated
TPM	TPM 2.0	TPM 2.0	TPM 1.2 (optional)
Serial	2 x DB9 RS-232/422/485	1 x DB9 RS-232/422/485 (ICO120-COM)	4 x RS-232/422/485
CANbus	N/A	1 x CANbus 2.0 A/B (ICO120-CAN)	N/A
Display	1 x VGA	1 x VGA	1 x VGA
Ethernet	1 x 10/100/1000 Mbps Ethernet (Intel® I211-AT)	1 x 10/100/1000 Mbps Ethernet (Intel® I211-AT)	2 x 10/100/1000 Mbps Ethernet (Intel® I211-AT)
PoE	N/A	N/A	N/A
Expansion Interface	2 x Full-size PCI Express Mini Card slot	1 x Half-size PCI Express Mini Card slot 1 x Full-size PCI Express Mini Card slot	1 x Full-size PCI Express Mini Card slot
DIO	1 x 8-bit programmable DIO	1 x 8-bit programmable DIO	1 x 8-bit programmable DIO
USB	2 x USB 2.0	2 x USB 2.0	2 x USB 2.0
Storage	1 x half-size mSATA 1 x eMMC flash onboard (optional)	1 x mSATA 1 x eMMC flash onboard (optional)	1 x CompactFlash™ (or mSATA) 1 x 2.5" SATA SSD/HDD
Watchdog Timer	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.
Power Input	12 to 24 VDC (terminal block)	12 to 24 VDC (terminal block)	12 to 24 VDC (terminal block)
Operating Temperature	-20°C to +70°C (-4°F to +158°F) -40°C to +70°C (-40°F to +158°F) (optional)	-20°C to +70°C (-4°F to +158°F) -40°C to +70°C (-40°F to +158°F) (ICO120-WT)	-20°C to +70°C (-4°F to +158°F)
Dimensions (W x D x H)	31 x 100 x 125 mm (1.22" x 3.93" x 4.92")	31 x 100 x 125 mm (1.22" x 3.93" x 4.92")	48 x 110 x 155 mm (1.88" x 4.33" x 6.1")
Weight (net/gross)	0.3 kg (0.67 lb)/0.46 kg (1 lb)	0.3 kg (0.67 lb)/0.46 kg (1 lb)	1.0 kg (2.2 lb)/1.50 kg (3.3 lb)
Certifications	CE, FCC	CE, FCC	CE, FCC, UL
Mounting	DIN-rail/wall mount (optional)	DIN-rail/wall mount (optional)	DIN-rail/wall mount (optional)
EOS Support	Windows® 10 IoT, Linux	Windows® 10 IoT, Linux	Windows® 10 IoT, Linux
Software Support	AXView	AXView	AXView



Features	Models	ICO300-83B	ICO300-83M (ATEX/CID2)	ICO310
CPU Level		Intel® Celeron® N3350 1.1 GHz Intel® Pentium® N4200 1.1 GHz	Intel Atom® x5-E3930 1.3 GHz	Intel® Celeron® N3060 1.6 GHz Intel® Celeron® N3160 1.6 GHz
System Memory		1 x DDR3L 1866 SO-DIMM, up to 8GB	1 x DDR3L-1866 SO-DIMM, up to 8GB	1 x DDR3L-1600 SODIMM, up to 8GB
Chipset		SoC integrated	SoC integrated	SoC integrated
TPM		TPM 2.0	TPM 2.0	N/A
Serial		4 x DB9 Isolated RS-232/422/485 or RS-232/422/485 (ICO300-83B-4COM) (ICO300-83B-4ICOM) 2 x DB9 Isolated RS-232/422/485 or RS-232/422/485 (ICO300-83B-2ICOM) (ICO300-83B-2COM)	2 x Isolated RS-232/422/485 (Phoenix type) 4 x Isolated RS-232/422/485 (4-wire, Phoenix type)	2 x RS-232/422/485
CANbus		N/A	N/A	N/A
Display		1 x HDMI	1 x HDMI	1 x VGA
Ethernet		2 x 10/100/1000 Mbps Ethernet (Intel® I211-AT)	3 x 10/100/1000 Mbps Ethernet (Intel® I210-IT)	2 x 10/100/1000 Mbps Ethernet (Intel® I211-AT)
PoE		N/A	N/A	1 x PD (can also support 10/100/1000 Mbps Ethernet)
Expansion Interface		2 x Full-size PCI Express Mini Card slot	1 x M.2 Key B 3052 1 x Full-size Rev.1.2 PCI Express Mini Card slot 1 x Half-size Rev.1.2 PCI Express Mini Card slot	2 x Full-size PCI Express Mini Card slot
DIO		1 x 8-bit programmable DIO	1 x Isolated 8-in/8-out DIO	1 x 8-bit programmable DIO
USB		4 x USB 3.0	2 x USB 3.0	2 x USB 3.0 2 x USB 2.0
Storage		1 x mSATA 1 x 2.5" SATA SSD/HDD	1 x mSATA 1 x Internal 2.5" SATA drive 1 x eMMC on board	1 x mSATA 1 x 2.5" SATA SSD/HDD
Watchdog Timer		255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.
Power Input		12 to 24 VDC (terminal block)	9 to 36 VDC	12 to 24 VDC (terminal block)
Operating Temperature		-40°C to +70°C (-40°F to +158°F)	-40°C to +75°C (-40°F to +167°F)	-20°C to +60°C (-4°F to +140°F)
Dimensions (W x D x H)		48 x 110 x 155 mm (1.88" x 4.33" x 6.1")	63 x 110 x 155 mm (2.48" x 4.33" x 6.1")	48 x 110 x 155 mm (1.88" x 4.33" x 6.1")
Weight (net/gross)		1.0 kg (2.2 lb)/1.50 kg (3.3 lb)	1.0 kg (2.2 lb)/1.50 kg (3.3 lb)	1.0 kg (2.2 lb)/1.50 kg (3.3 lb)
Certifications		CE, FCC	CE, FCC, ATEX, CID2	CE, FCC
Mounting		DIN-rail/wall mount (optional)	DIN-rail/wall mount (optional)	DIN-rail/wall mount (optional)
EOS Support		Windows® 10 IoT, Linux	Windows® 10 IoT, Linux	Windows® 10 IoT, Linux
Software Support		AXView	AXView	AXView



x86-based DIN-rail Embedded Systems



Features/Models	ICO320-83C	ICO500-518	rBOX510-6COM (ATEX/CID2)
CPU Level	Intel® Celeron® N3350 1.1 GHz	Intel® Core™ i7-7600U 2.8 GHz Intel® Core™ i5-7300U 2.6 GHz Intel® Core™ i3-7100U 2.4 GHz Intel® Celeron® 3965U 2.2 GHz	Intel Atom® E3827 1.75 GHz Intel Atom® E3845 1.91 GHz
System Memory	1 x DDR3L 1866 SO-DIMM, up to 8 GB	DDR4-2133 SO-DIMM, up to 16GB	DDR3L-1333 4GB onboard
Chipset	SoC integrated	SoC integrated	SoC integrated
TPM	TPM 2.0	TPM 2.0 (optional)	N/A
Serial	1 x RS-232/422/485 (can also be serial console)	1 x DB9 RS-232/422/485	2 x RS-232/422/485 4 x Isolated RS-232/422/485
CANbus	1 x CANbus 2.0 A/B (ICO320-COM-CAN)	N/A	N/A
Display	1 x VGA	1 x VGA 1 x HDMI	1 x VGA
Ethernet	4 x 10/100/1000 Mbps Ethernet (Intel® I211-AT)	2 x 10/100/1000 Mbps Ethernet (Intel® I210-IT)	2 x 10/100/1000 Mbps Ethernet (Intel® I210-IT)
PoE	4 x RJ-45 PoE	N/A	N/A
Expansion Interface	1 x Half-size PCI Express Mini Card slot 1 x Full-size PCI Express Mini Card slot	2 x Full-size PCI Express Mini Card slot 1 x External SIM card slot	1 x Full-size PCI Express Mini Card slot 2 x Full-size PCI Express Mini Card slot with SIM socket
DIO	1 x 8-bit programmable DIO (optional)	1 x Isolated 4-in/4-out DIO (terminal block)	1 x Isolated 8-in/8-out DIO (terminal block)
USB	2 x USB 3.0	4 x USB 3.0	1 x USB 3.0 1 x USB 2.0
Storage	1 x mSATA 1 x 2.5" SATA SSD/HDD	1 x External CFast™ 1 x 2.5" SATA SSD/HDD	1 x mSATA 1 x External CF™ 1 x 2.5" SATA SSD/HDD
Watchdog Timer	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.
Power Input	12 to 24 VDC (terminal block)	12 to 48 VDC (terminal block)	12 to 48 VDC (terminal block)
Operating Temperature	-40°C to +70°C (-40°F to +158°F)	-40°C to +70°C (-40°F to +158°F) with 2 PIM (PIM700 excluded) -40°C to +60°C (-40°F to +140°F) with 1 PIM700, 1 the other PIM -40°C to +50°C (-40°F to +122°F) with 2 PIM700	-40°C to +70°C (-40°F to +158°F)
Dimensions (W x D x H)	48 x 110 x 155 mm (1.88" x 4.33" x 6.1") (ICO320-4LAN) 77 x 110 x 155 mm (3.03" x 4.33" x 6.1") (ICO320-4PoE)	145 x 125 x 155 mm (5.70" x 4.92" x 6.10")	100.6 x 110 x 135 mm (3.96" x 4.33" x 5.31")
Weight (net/gross)	1.2 kg (2.2 lb)/1.70 kg (3.3 lb) (ICO320-4PoE) 1.0 kg (2.2 lb)/1.50 kg (3.3 lb) (ICO320-4LAN)	2.2 kg (4.85 lb)/2.7 kg (5.95 lb) (PIM module excluded)	1.5 kg (3.3 lb)/1.88 kg (4.14 lb)
Certifications	CE, FCC	CE, FCC	Heavy Industrial CE, FCC Part 18, UL60950-1 ATEX & CID2 Anti-Explosive Certification
Mounting	DIN-rail/wall mount (optional)	DIN-rail/wall mount (optional)	DIN-rail/wall mount (optional)
EOS Support	Windows® 10 IoT, Linux	Windows® 10 IoT, Linux	Windows® 7 Embedded, Windows® 8 Embedded IoT, Linux support package
Software Support	AXView	AXView	AXView

RISC-based DIN-rail Embedded Systems



Features\Models	IRU151	IRU151-I	IFB122
CPU Level	NXP i.MX 6UltraLite, ARM® Cortex®-A7, 528 MHz	NXP i.MX 6UltraLite, ARM® Cortex®-A7, 528 MHz	NXP i.MX 6UltraLite, ARM® Cortex®-A7, 528 MHz
System Memory	1 x DDR3-1600 512MB onboard	1 x DDR3-1600 512MB onboard	1 x DDR3-1600 256MB onboard
Serial	1 x RS-232/422/485 (selected by software)	1 x RS-232/422/485 (selected by software)	2 x RS-232/422/485 (selected by software)
CANbus	N/A	N/A	N/A
Console Port	Yes For user setting with debug	Yes For user setting with debug	Yes For user setting with debug
Ethernet	1 x 10/100 Mbps (isolation 1.5 kV)	1 x 10/100 Mbps (isolation 1.5 kV)	2 x 10/100 Mbps (isolation 1.5 kV)
Wireless	2 x PCI Express Mini Card slot (USB signal only) 1 x SIM card socket	2 x PCI Express Mini Card slot (USB signal only) 1 x SIM card socket	1 x PCI Express Mini Card slot (USB signal only) 1 x SIM card socket
DIO	1 x DIO (2-in/2-out)	1 x DIO (2-in/2-out)	1 x DIO (2-in/1-out)
USB	1 x USB 2.0	1 x USB 2.0	1 x USB 2.0
Expansion Interface/ Analog Input	4 differential AI channels Resolution: 16-bit Sample Rate: 100 S/s Bipolar : ±5V, ±10V	4 differential AI channels Resolution: 16-bit Sample Rate: 100 S/s Input impedance/range: 249Ω/±20mA	N/A
Storage	1 x eMMC 8GB onboard	1 x eMMC 8GB onboard	1 x eMMC 4GB onboard
Watchdog Timer	0.5 to 128 sec. (time resolution of 0.5 sec.)	0.5 to 128 sec. (time resolution of 0.5 sec.)	0.5 to 128 sec. (time resolution of 0.5 sec.)
Power Input	9 to 48 VDC	9 to 48 VDC	9 to 48 VDC
Operating Temperature	-40°C to +70°C (-40°F to +158°F)	-40°C to +70°C (-40°F to +158°F)	-40°C to +70°C (-40°F to +158°F)
Dimensions (W x D x H)	55 x 82 x 108 mm (2.16" x 3.23" x 4.25")	55 x 82 x 108 mm (2.16" x 3.23" x 4.25")	31 x 100 x 125 mm (1.22" x 3.94" x 4.92")
Weight (net/gross)	0.32 kg (0.71 lb)/0.53 kg (1.17 lb)	0.32 kg (0.71 lb)/0.53 kg (1.17 lb)	0.3 kg (0.66 lb)/0.44 kg (0.97 lb)
Certifications	CE, FCC	CE, FCC	CE, FCC
OS Support	Yocto (Linux Kernel : 3.14.52)	Yocto (Linux Kernel : 3.14.52)	Yocto (Linux Kernel : 3.14.52)



RISC-based DIN-rail Embedded Systems



Features\Models	rBOX630	Agnet200-FL-DC
CPU Level	NXP i.MX 6, ARM® Cortex®-A9, 800 MHz	NXP i.MX 6UltraLite, ARM® Cortex®-A7, 528 MHz
System Memory	1 x DDR3-1600 1GB onboard	1 x DDR3L-1600 256MB onboard
Serial	4 x RS-232/422/485	1 x RS-232/422/485 (selected by software)
CANbus	2 x CAN 2.0 B	1 x CANbus
Console Port	Yes For user setting with debug	Yes For user setting with debug
Ethernet	1 x 10/100/1000 Mbps Ethernet 1 x 10/100 Mbps Ethernet (isolation 1.5 kV)	1 x 10/100 Mbps (isolation 1.5 kV)
Wireless	1 x PCI Express Mini Card slot (USB signal only) with outside 1 x SIM Socket 1 x PCI Express Mini Card slot (supports USB & PCIe interface) with inside 1 x SIM Socket	2 x PCI Express Mini Card slot (USB signal only) 1 x SIM card socket
DIO	1 x DIO (8-in/ 8-out) (isolation 2 kV)	1 x DIO (4-in/4-out)
USB	1 x USB 2.0 OTG	1 x USB 2.0
Expansion Interface	1 x HDMI	N/A
Storage	1 x eMMC 8GB flash onboard 1 x SDHC Card	1 x eMMC 4GB onboard 1 x Micro SD card slot
Watchdog Timer	1 to 255 sec. (time resolution of 1 sec.)	0.5 to 128 sec. (time resolution of 0.5 sec.)
Power Input	12 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)
Dimensions (W x D x H)	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")
Weight (net/gross)	0.9 kg (2.1lb)/1.3kg (2.87 lb)	0.3 kg (0.66 lb)/0.44 kg (0.97 lb)
Certifications	CE, FCC	CE, FCC
OS Support	Yocto (Linux Kernel : 3.0.35)	Yocto Sumo

DIN-rail Cybersecurity Gateways



NEW



Features \ Models		iNA100	iNA200
Form Factor		DIN-rail, wall mount (optional)	DIN-rail, wall/rack mount (optional)
Processor		Intel Atom® x5-E3930/E3940 processor (Apollo Lake)	Intel Atom® x6212RE/x6414RE (Elkhart Lake)
Chipset		SoC integrated	SoC integrated
BIOS		AMI SPI Flash BIOS	AMI SPI Flash BIOS
Memory	Technology	DDR3L-1866	DDR4-3200
	Max Capacity	8GB non-ECC	32GB
	Socket	1 x 204-pin SO-DIMM	1 x 260-pin SO-DIMM
Network Interface	Ethernet	4 x 10/100/1000 Mbps	2 x 10/100/1000 Mbps 2 x 2.5 GbE 2 x SFP
	Storage	1 x mSATA 1 x 2.5" SSD /HDD	1 x 16GB eMMC onboard 1 x 2.5" SSD
I/O	Serial	1 x RS-232 1 x RS-232/422/485	1 x RS-232/422/485 (DB9) 1 x RS-485 (Terminal block)
	USB	2 x USB 3.0	2 x USB 3.0
	Management	N/A	1 x RJ-45 for console
	Display	1 x HDMI	1 x HDMI
Expansion Interface		1 x Half-size PCIe Mini Card slot with SATA/USB signal 1 x Full-size PCIe Mini Card slot with USB signal	1 x M.2 key B 3042/3052 slot with PCIe/USB signal 1 x Full-size PCIe Mini Card slot with USB/SATA signal
TPM		TPM 2.0	TPM 2.0
Fanless		Yes	Yes
Power Supply		12 VDC	9 to 36 VDC
Operating Temperature		-20°C to +60°C (-4°F to +140°F)	-40°C to +70°C (-40°F to +167°F)
OS Support		Win 10, Linux	Win 10, Linux
Dimensions (W x D x H)		54 x 120 x 150 mm (2.13" x 4.72" x 5.9")	88 x 127 x 150 mm (3.47" x 5" x 5.9")
Certifications		CE, FCC	CE, FCC



Embedded MicroBoxes

Model	Accessory Specifications			Dimensions	Mini ITX
	Drive Bay	Expansion Slot	Power Supply		
 ECM100	2 x 2.5"	N/A	ATX 250W Input: AC 115 to 230V Output: +3.3V @ 10A, +5V @ 10A, +12V @ 8.5A, -12V @ 0.4A, +5VSB @ 1A, +5VSB @ 2.5A	265 x 250 x 71.5 mm	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

Industrial Chassis



Features/Models	AX60501	AX60810	AX61135TM
Height	-	-	1U
Number of Slots	6	7	1
Backplane Selection	FAB105, FAB109, FAB110, HAB206, ATX6022/6	N/A	N/A
MB Support	N/A	Yes, 12" x 9.6" (ATX), 9.6" x 9.6" (mATX)	Yes, 12" x 9.6" (ATX)
Drive Capacity	5.25"	1	N/A
	3.5"	2 (1 internal)	2 (internal)
Cooling System	1 x 9 cm	1 x 12 cm (with a removable filter)	2 x 4 cm
Fault Detection	N/A	N/A	N/A
Power Supply	PS/2 type	PS/2 type	1U type
Dimensions (W x D x H)	235±1.0 x 400.5±1.0 x 154.7±1.0 mm (9.25" x 15.77" x 6.09")	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)	9 kg (19.84 lb)/10.3 kg (22.7 lb)	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, FAB119, FAB121, ATX6022/14G, ATX6022/13L, ATX6022/14GP7	FAB100, FAB101, FAB112, FAB113, FAB114, FAB119, ATX6022/14G, ATX6022/13L, ATX6022/14GP7
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)	1
Cooling System	1 x 8 cm	1 x 12 cm	1 x 12 cm
Fault Detection	N/A	N/A	N/A
Power Supply	PS/2 type	PS/2 type	PS/2 type (optional HRP)
Dimensions (W x D x H)	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)



Industrial Systems

NEW



Features/Models	IPC950	IPC960-525-FL	IPC962-525
CPU Level	Intel® Core® i7-1185G7E/i5-1145G7E/i3-1115G4E or Intel® Celeron® 6305E processor	9th/8th gen Intel® Core™ processor, up to 65W	9th/8th gen Intel® Core™ processor, up to 65W
System Memory	2 x DDR4-3200 MT/s un-buffered SO-DIMM, up to 64G	2 x DDR4-2666/2400 MT/s un-buffered SO-DIMM, up to 64GB	2 x DDR4-2133/2400 un-buffered SO-DIMM, up to 64GB
Chipset	N/A	Intel® H310/Q370	Intel® H310/Q370
Vision I/O	N/A	N/A	N/A
Expansion I/O Module	4 x RS-232/422/485 module (default RS-232) 2 x RS-232/422/485 with isolated 1.5kVDC & 4-in/4-out isolated DIO module 4 x RS-232/422/485 isolated 2kVDC module (default RS-232) 1 x 10/100/1000 Mbps Ethernet, 2 x RS-232/422/485 and 2 x USB module	4 x RS-232/422/485 module (default RS-232) 2 x RS-232/422/485 with isolated 1.5kVDC & 4-in/4-out isolated DIO module 4 x RS-232/422/485 isolated 2kVDC module (default RS-232) 1 x 10/100/1000 Mbps Ethernet, 2 x RS-232/422/485 and 2 x USB module (Intel® Q370 sku)	4 x RS-232/422/485 module (default RS-232) 2 x RS-232/422/485 with isolated 1.5kVDC & 4-in/4-out isolated DIO module 4 x RS-232/422/485 isolated 2kVDC module (default RS-232) 1 x 10/100/1000 Mbps Ethernet, 2 x RS-232/422/485 and 2 x USB module (Intel® Q370 sku)
Display	2 x DisplayPort++	1 x HDMI 1 x VGA	1 x HDMI 1 x VGA
Audio	Yes	Yes	Yes
PS/2	N/A	N/A	N/A
Ethernet	1 x 2.5G Ethernet 2 x 10/100/1000 Mbps Ethernet	2 x 10/100/1000 Mbps Ethernet	2 x 10/100/1000 Mbps Ethernet
Serial	1 x RS-232/422/485 (default RS-232, COM1)	1 x RS-232/422/485 (default RS-232, COM1)	1 x RS-232/422/485 (default RS-232, COM1)
USB	4 x USB 3.1 (10G) 1 x USB 2.0 (internal, 180D type A for license key)	4 x USB 3.1 2 x USB 2.0 1 x USB 2.0 (internal, 180D type A for license key)	4 x USB 3.1 2 x USB 2.0 1 x USB 2.0 (internal, 180D type A for license key)
Expansion Interface	1 x PCIe x4 (optional) 1 x PCI Express Mini card slot 1 x M.2 Key socket 1 x SIM slot	Intel® H310: 1 x Full-size PCI Express Mini Card slot (USB interface) Intel® Q370: 1 x Full-size PCI Express Mini Card slot (USB & PCIe interface) or 1 x M.2 Key B 3050 socket 1 x SIM slot	1 x PCIe x16 + 1 PCIe x4 or 1 x PCIe x16 + 1 PCI or 2 PCI 1 x PCI Express Mini Card slot or 1 x M.2 Key B socket (Intel® Q370) 1 x SIM slot
Storage	1 x 2.5" HDD/SSD bay 1 x M.2 Key B+M socket	2 x 2.5" swappable HDD 1 x M.2 Key M slot (Q370)	2 x 2.5" swappable HDD 1 x M.2 Key M slot (Q370)
Watchdog Timer	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.
Power Input	24 VDC (uMin=-19V/uMax=30V)	24 VDC (uMin=-19V/uMax=30V)	24 VDC (uMin=-19V/uMax=30V)
Operating Temperature	-20°C to +50°C (-4°F to +122°F)	-10°C to +60°C (+14°F to +140°F)	-10°C to +60°C (+14°F to +140°F)
Wall Mount	Yes	Yes	Yes
Din Rail Mount	Yes	N/A	N/A
Dimensions (W x D x H)	69.5 x 225 x 230 mm	83.5 x 192 x 230 mm	147.5 x 192 x 230 mm
Weight (net/gross)	4 kg/6 kg	3.82 kg/4.78 kg	4.382 kg/5.346 kg
Certifications	CE/FCC	CE/FCC	CE/FCC
EOS Support	Win 10 64-bit	Win 10 64-bit	Win 10 64-bit



NEW



NEW



Features/Models	IPC964-525	IPC970	IPC972
CPU Level	9th/8th gen Intel® Core™ processor, up to 65W	10th gen Intel® Xeon® and Core™ i7/i5/i3 processor (Cometlake-S), up to 80W	10th gen Intel® Xeon® and Core™ i7/i5/i3 processor (Cometlake-S), up to 80W
System Memory	2 x DDR4-2133 un-buffered SO-DIMM, up to 64GB	4 DDR4-2933 MT/s ECC or non ECC U-DIMM socket, up to 128GB	4 DDR4-2933 MT/s ECC or non ECC U-DIMM socket, up to 128GB
Chipset	Intel® Q370	Intel® W480E	Intel® W480E
Expansion I/O Module	4 x RS-232/422/485 module (default RS-232) 2 x RS-232/422/485 with isolated 1.5kVDC & 4-in/4-out isolated DIO module 4 x RS-232/422/485 isolated 2kVDC module (default RS-232) 1 x 10/100/1000 Mbps Ethernet, 2 x RS-232/422/485 and 2 x USB module (Intel® Q370 sku)	4 x RS-232/422/485 module (default RS-232) 2 x RS-232/422/485 with isolated 1.5kVDC & 4-in/4-out isolated DIO module 4 x RS-232/422/485 isolated 2kVDC module (default RS-232) 1 x 10/100/1000 Mbps Ethernet, 2 x RS-232/422/485 and 2 x USB module	4 x RS-232/422/485 module (default RS-232) 2 x RS-232/422/485 with isolated 1.5kVDC & 4-in/4-out isolated DIO module 4 x RS-232/422/485 isolated 2kVDC module (default RS-232) 1 x 10/100/1000 Mbps Ethernet, 2 x RS-232/422/485 and 2 x USB module
Display	1 x HDMI 1 x VGA	1 x HDMI 1 x VGA	1 x HDMI 1 x VGA
Audio	Yes	Yes	Yes
Ethernet	2 x 10/100/1000 Mbps Ethernet	1 x 2.5G Ethernet 1 x 10/100/1000 Mbps Ethernet	1 x 2.5G Ethernet 1 x 10/100/1000 Mbps Ethernet
Serial	1 x RS-232/422/485 (default RS-232, COM 1)	N/A	N/A
USB	4 x USB 3.1 2 x USB 2.0 1 x USB 2.0 (internal, 180D type A for license key)	6 x USB 3.2 Gen2 (10G) 2 x USB 3.2 Gen1 1 x USB 2.0 (internal, 180D type A for license key)	6 x USB 3.2 Gen2 (10G) 2 x USB 3.2 Gen1 1 x USB 2.0 (internal, 180D type A for license key)
Expansion Interface	1 x PCIe x16 + 3 PCIe x4 or 1 x PCIe x16 + 1 PCIe x4 + 2 PCI 1 x PCI Express Mini Card slot or 1 M.2 Key B socket 1 x SIM slot	2 x PCIe x8 (x4 signal) 1 x PCIe x16 1 x PCI Express Mini card socket with SIM slot 1 x M.2 Key B socket with SIM slot 1 x M.2 Key E socket	1 x PCIe x4 1 x PCIe x8 (x4 signal) 2 x PCIe x16 (x8 signal) 1 x PCI Express Mini card socket with SIM slot 1 x M.2 Key B socket with SIM slot 1 x M.2 Key E socket
Storage	2 x 2.5" Swappable HDD bay 1 x M.2 Key M socket	2 x Swappable HDD bay 1 x HDD bay (internal) 1 x M.2 Key M Socket	2 x Swappable HDD bay 1 x HDD bay (internal) 1 x M.2 Key M Socket
Watchdog Timer	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.
Power Input	24 VDC (uMin=19V/uMax=30V)	24 VDC (uMin=19V/uMax=30V)	24 VDC (uMin=19V/uMax=30V)
Operating Temperature	-10°C to +60°C (+14°F to +140°F)	-10°C to +60°C (+14°F up to +140°F)	-10°C to +60°C (+14°F up to +140°F)
Wall Mount	Yes	Yes	Yes
Dimensions (W x D x H)	188.1 x 192 x 230 mm	190 x 192 x 360 mm	255 x 192 x 360 mm
Weight (net/gross)	4.8 kg/5.9 kg	7.3 kg/9.8 kg	8kg/11.2kg
Certifications	CE/FCC	CE/FCC	CE/FCC
EOS Support	Win 10 64-bit	Win 10 64-bit	Win 10 64-bit



4U Rackmount GPU Workstation

NEW



Features\Models	iHPC300
CPU Level	3rd gen Intel® Xeon® Scalable processors, up to 270W, 40 cores
System Memory	6 x DDR4-3200 R-DIMM unbuffered non-ECC/ECC memory, up to 384GB
Chipset	Intel® C621A
Expansion I/O Module	N/A
Display	1 x VGA
Audio	HD Codec audio as MIC-in/Line-in/Line-out/Speaker-out with audio kit AX93242 (optional)
Ethernet	2 x 10/100/1000Mbps (Intel® i210-AT)
Serial	1 x RS-232/422/485
USB	4 x USB 3.2 Gen1 (rear I/O) 2 x USB 3.2 Gen1 (internal box header) 6 x USB 2.0 (internal box header) 1 x USB 2.0 (180D Type A)
Expansion Interface	Slot1: PCIe x8 Slot2: PCIe x16 (Gen4) Slot3: M.2 key M 2280 (signal: x4) Slot4: PCIe x16 (Gen4) Slot5: PCIe x8 slot (signal: x0 or x8) Slot6: PCIe x16 (signal: x16 or x8) Slot7: PCIe x8
Storage	6 x SATA3 with RAID 0/1/5/10
Watchdog Timer	255 levels, 1 to 255 sec
Power Input	• 1200W AC Input voltage: 100 to 240V • 2000W AC Input voltage: 200 to 240V AC input voltage: 100 to 200V support 1500W
Operating Temperature	0°C to +40°C (+32°F to +104°F)
Wall Mount	N/A
Dimensions (W x D x H)	430 x 174.8 x 515 mm (16.9" x 6.9" x 20.3")
Weight (net/gross)	17.15 kg (37.8 lb)/ 21.78 kg (48 lb)
Certifications	CE/FCC
EOS Support	N/A

Machine Vision Systems

NEW



Features\Models	MVS100-323	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-1866 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 port	4 x IEEE802.3at GbE LAN port
Ethernet	1 x 10/100/1000 Mbps Ethernet	2 x 10/100/1000 Mbps Ethernet
USB	2 x USB 3.2 Gen1	4 x USB 3.2 Gen1
Others	1 x RS-232/422/485	2 x RS-232/422/485 & 8-in/8-out DIO with isolated 1.5 kVDC protection
Expansion Module	N/A	N/A
Expansion Interface	N/A	1 x Full-size PCI Express Mini Card slot with USB interface 1 x Internal USB connector
Storage	1 x Full-size PCI Express Mini Card slot (mSATA signal)	2 x Swappable 2.5" HDD (9.5mm height)
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 7th gen CPU & 6th gen (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	6th gen: Win 7 32/64-bit & Win 10 64-bit 7th gen: Win 10 64-bit
Software Support	AXView	AXView



OPS+ & OPS Digital Signage Players

NEW



Features/Models	OPS700-520	OPS520	OPS500-520-H
CPU Level	9th/8th gen Intel® Core™ i7/i5/i3 or Celeron®, 35W TDP	11th/10th gen Intel® Core™ i7/i5/i3 or Celeron®, 35W TDP	9th/8th gen Intel® Core™ i7/i5/i3 or Celeron®, 35W TDP
Chipset	Intel® Q370	Intel® Q570/H510	Intel® H310
System Memory	2 x 260-pin DDR4-2400 SO-DIMM, up to 32GB	2 x 260-pin DDR4-2933 SO-DIMM, up to 64GB	2 x 260-pin DDR4-2400 SO-DIMM, up to 32GB
Pluggable Engine Box	Yes (OPS+ & OPS compliance)	Yes (OPS compliance)	Yes (OPS compliance)
Intel® AMT	AMT 11.0	AMT 15.0 (Intel® Q570)	N/A
TPM	TPM 2.0	TPM 2.0	TPM 2.0
I/O	2 x USB 2.0 2 x USB 3.2 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)	2 x USB 2.0 1 x USB 3.2 Gen2 Type A (Intel® Q570) or 1 x USB 3.2 Gen1 (Intel® H510) 1 x USB type C 1 x 10/100/1000 Mbps Ethernet (Intel® I219-LM) 1 x HDMI with 4K resolution 1 x DP with 4K resolution 1 x Power on/off button 1 x Reset button	2 x USB 2.0 2 x USB 3.2 Gen1 Type A 1 x RS-232 1 x 10/100/1000 Mbps Ethernet (Intel® I219-LM) 1 x HDMI with 4K resolution 1 x Power on/off button 1 x Reset button 1 x 12 VDC power input (adapter available by option)
JAETX-25A	1 x DisplayPort with 4K 60Hz supported 1 x HDMI 2.0 with 4K 60Hz supported 2 x USB 2.0 1 x USB 3.2 Gen1 1 x Audio (Line-out) 1 x UART (TX/RX)	1 x DisplayPort with 4K 60Hz supported 1 x HDMI 2.0 with 4K 60Hz supported 2 x USB 2.0 1 x USB 3.2 Gen1 1 x Audio (Line-out) 1 x UART (TX/RX)	1 x DisplayPort with 4K 60Hz supported 1 x HDMI 2.0 with 4K 60Hz supported 2 x USB 2.0 1 x USB 3.2 Gen1 1 x Audio (Line-out) 1 x UART (TX/RX)
HRS FX-18	1 x DisplayPort with 4K 60Hz supported 1 x PCI Express x4	N/A	N/A
Storage	1 x M.2 Key M 2280 SATA (NVMe optional)	1 x M.2 Key M 2280 SATA (NVMe only)	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	1 x M.2 Key E 2230 for Wi-Fi
Power Supply	12 to 19 VDC	12 to 19 VDC	12 to 19 VDC
Dimensions (W x D x H)	200 x 119 x 30 mm (7.87" x 4.68" x 1.18")	200 x 119 x 30 mm (7.87" x 4.68" x 1.18")	200 x 119 x 30 mm (7.87" x 4.68" x 1.18")
Weight (net/gross)	1 kg (2.21 lb)/1.5 kg (3.3 lb)	1 kg (2.21 lb)/1.5 kg (3.3 lb)	1 kg (2.21 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)	0°C to +45°C (+32°F to +113°F) (with airflow 1.2m/s)
Certifications	CE, FCC Class A	CE, FCC Class A	CE, FCC Class A

Digital Signage Players

NEW



Features\Models	DSP511	DSP600-211	DSP501-527
CPU Level	11th gen Intel® Core™ i5/i3 or Celeron®	AMD Ryzen™ Embedded V1807B/V1605B	8th gen Intel® Core™ i5/i3 or Celeron®
Chipset	SoC integrated	SoC integrated	SoC integrated
System Memory	2 x 260-pin DDR4-3200 SO-DIMM, up to 64GB	2 x 260-pin DDR4-2400 SO-DIMM, up to 32GB	2 x 260-pin DDR4-2400 SO-DIMM, up to 32GB
Pluggable Engine Box	N/A	N/A	N/A
Intel® AMT	AMT 15	N/A	AMT 11
TPM	TPM 2.0	TPM 2.0	TPM 2.0
I/O	3 x USB 3.2 1 x USB 2.0 1 x GbE LAN 1 x 2.5GbE LAN 1 x Device management 4 x HDMI 2.0 1 x RS-232 DB9 1 x Line-out/Mic-in 1 x Power switch 1 x Reset switch 1 x Remote switch 1 x Screw type VDC power input connector 6 x Antenna opening	2 x USB 3.0 2 x USB 2.0 2 x GbE LAN 1 x Device management 4 x HDMI 2.0 2 x RS-232 DB9 1 x Line-out 1 x SIM card 1 x Power switch 1 x Reset switch 1 x Remote switch 1 x VDC power input connector 4 x Antenna opening	4 x USB 3.0 1 x USB 2.0 1 x GbE LAN 1 x Device management 1 x HDMI 2.0 1 x DisplayPort++ 1 x RS-232 DB9 1 x Line-out 1 x Mic-in 1 x Power switch 1 x Reset switch 1 x Remote switch 1 x Screw type VDC power input connector 4 x Antenna opening
Storage	1 x M.2 Key M 2280 (SATA & NVMe)	1 x M.2 Key M 2280 (SATA) 1 x M.2 Key M 2280 (NVMe)	1 x M.2 Key M 2280 (SATA & NVMe)
Expansion Interface	1 x M.2 Key E 2230 for Wi-Fi/Bluetooth 1 x M.2 Key B 3052 for 5G/LTE 1 x SIM card 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 card 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 card slot
Power Supply	+12V DC-in	+12V DC-in	+12V DC-in
Dimensions (W x D x H)	260 x 160 x 26 mm (10.24" x 6.3" x 1.02")	250 x 182.8 x 30 mm (9.84" x 7.19" x 1.18")	197.6 x 157.6 x 26 mm (7.79" x 6.22" x 1.02")
Weight (net/gross)	1.3 kg (2.86 lb)/2.07 kg (4.6 lb)	1.9 kg (4.18 lb)/2.9 kg (6.39 lb)	1.3 kg (2.86 lb)/2.1 kg (4.62 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)
Certifications	CE, FCC Class A	CE, FCC Class A	CE, FCC Class A



Digital Signage Players



Features\Models	DSP500	DSP300-318
CPU Level	9/8th gen Intel® Core™ i5/i3 or Celeron®	Intel Atom® x5-E3950, Pentium® N4200 or Celeron® N3350/J3455
Chipset	SoC integrated	SoC integrated
System Memory	2 x 260-pin DDR4-2400 SO-DIMM, up to 32GB	2 x DDR3L-1600 SO-DIMM, up to 8GB
Pluggable Engine Box	N/A	N/A
Intel® AMT	AMT 11	N/A
TPM	TPM 2.0	N/A
I/O	4 x USB 3.0 1 x USB 2.0 1 x GbE LAN 1 x Device management 3 x HDMI 2.0 1 x RS-232 DB9 1 x Line-out 1 x Power switch 1 x Reset switch 1 x Remote switch 1 x Screw type VDC power input connector 4 x Antenna opening	3 x USB 3.0 1 x USB 2.0 2 x GbE LAN 1 x HDMI 1.4 1 x DisplayPort++ 1 x RS-232 DB9 1 x Line-out 1 x Mic-in 1 x Power switch 1 x Reset switch 1 x Remote switch 1 x Screw type VDC power input connector 4 x Antenna opening
Storage	1 x M.2 Key M 2280 (SATA & NVMe)	1 x M.2 Key M 2280 (SATA & NVMe)
Expansion Interface	1 x M.2 Key E 2230 for Wi-Fi/Bluetooth 1 x M.2 Key B 3042 for 4G/LTE 1 x SIM card slot	1 x M.2 Key E 2230 for Wi-Fi/Bluetooth 1 x M.2 Key B 3042 for 4G LTE 1 x SIM card slot
Power Supply	+12V DC-in	+12V DC-in
Dimensions (W x D x H)	197.6 x 157.6 x 26 mm (7.79" x 6.22" x 1.02")	200 x 137.8 x 20 mm (7.87" x 5.42" x 0.78")
Weight (net/gross)	1.3 kg (2.86 lb)/2.3 kg (5.07 lb)	0.90 kg (1.98 lb)/1.57 kg (3.45 lb)
Operating Temperature	0°C to +45°C (+32°F to +113°F)	0°C to +50°C (+32°F to +122°F)
Certifications	CE, FCC Class A	CE, FCC class A

Intelligent Medical Systems

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Features\Models	mBOX100	mBOX600	mHPC200
CPU Level	8th gen Intel® Core™ i7/i5/i3 (Whisky Lake-U)	Intel® Xeon® & 8th gen Intel® Core™ i7/i5/i3 (Coffee Lake)	Dual Intel® Xeon® Gold 6226R processors
System Memory	2 x DDR4-2666 SO-DIMM, up to 64GB	2 x DDR4-2666 SO-DIMM, up to 64GB	12 x DDR4-2933 ECC RDIMM, up to 384GB
Chipset	SoC integrated	Intel® CM246/QM370/HM370	PCH: Intel® C621, TDP 15W BMC: ASpeed AST2500A2-GP Embedded Graphics SoC: SiliconMotion SM768
BIOS	AMI	AMI	AMI
Display	1 x HDMI 1.4 (4096 x 2160 @30/24Hz) 1 x DisplayPort 1.2 (4096 x 2304 @60Hz)	1 x HDMI 1.4 (4096 x 2160 @30/24Hz) 2 x DisplayPort 1.2 (4096 x 2304 @60Hz)	1 x HDMI 1.4 (4096 x 2160 @30/24Hz)
Audio	N/A	N/A	N/A
Others	TPM 2.0	TPM 2.0	N/A
Ethernet	2 x 10/100/1000 Mbps Ethernet (isolation)	2 x 10/100/1000 Mbps Ethernet (isolation)	1 x Network card in support of dual 10G Base-1 & dual SFP+
COM	2 x RS-232/422/485 (isolation)	2 x RS-232/422/485 (isolation)	N/A
USB	4 x USB 3.1 (rear)	4 x USB 3.1 (rear)	4 x USB 3.0
Expansion Interface	1 x PCI Express Mini Card slot	1 x PCI Express Mini Card slot 1 x PCIe x16 Gen3 slot	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, M.2 22110-M slot
Storage	1 x 2.5" SATA3.1 SSD 1 x M.2 Key M 2280 NVMe SSD	1 x 2.5" SATA3.1 SSD 1 x M.2 Key M 2280 NVMe SSD	2 x 2.5" SATA SSD 2 x 2.5" NVMe U.2 SSD
Watchdog Timer	65536 levels, 0 to 65535 sec.	65536 levels, 0 to 65535 sec.	65536 levels, 0 to 65535 sec.
Power Input	12 to 24 VDC	12 to 24 VDC	2 x 1200W redundant ATX power supply
Operating Temperature	0°C to +40°C (+32°F to +104°F)	0°C to +40°C (+32°F to +104°F)	0°C to +40°C (+32°F to +104°F)
Wall Mount	Wall mount	Wall mount	Rackmount
Dimensions (W x D x H)	250 x 220 x 60 mm (9.8" x 8.66" x 2.36")	250 x 240 x 90 mm (9.8" x 9.44" x 3.54")	600 x 430 x 88 mm (20.5" x 17" x 3.5")
Weight (net/gross)	3 kg	4 kg	11.9 kg (26 lb)/16.10 kg (35 lb)
Certifications	CE, FCC IEC/EN 60601-1 compliance	CE, FCC IEC/EN 60601-1 compliance	CE IEC 62368-1, FCC Class A compliance
EOS Support	Win 10 IoT, Linux	Win 10 IoT, Linux	CentOS 7.6 & Windows 10 IoT

Fanless Touch Panel Computers



Features\Models	GOT107W-319	GOT110-316	GOT115-319
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
Display	7" WSVGA TFT LCD, 320 nits	10.4" XGA TFT LCD, 350 nits	15" XGA TFT LCD, 300 nits
I/O	1 x RS-232/422/485 1 x RS-232 2 x 10/100/1000 Mbps Ethernet 2 x USB 3.0 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 Audio (Line-out) 1 x HDMI 1 x Screw type connector for power 1 x Power button (ATX) 1 x Remote power switch 1 x ATX/AT selectable switch	1 x RS-232/422/485 1 x RS-232 2 x 10/100/1000 Mbps Ethernet 2 x USB 3.0 2 x USB 2.0 1 x Audio (Line-out) 1 x Screw type connector for power 1 x Power button (ATX) 1 x Remote power switch 1 x ATX/AT selectable switch
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 PCI Express Mini Card slot 1 x M.2 Key E	1 x PCI Express Mini Card slot 1 x M.2 Key E	1 x PCI Express Mini Card slot 1 x M.2 Key E
Touchscreen	Projected capacitive multi-touch	5-wire resistive touch or projected capacitive multi-touch	5-wire resistive touch or projected capacitive multi-touch
Operating System	Windows® 10 (64-bit)	Windows® 10 (64-bit)	Windows® 10 (64-bit)
Power Supply	100 to 240 VAC, 60W power adapter or DC cable for 24 VDC	100 to 240 VAC, 60W power adapter or adapter cable for 24 VDC	100 to 240 VAC, 60W power adapter or DC cable for 24 VDC
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 (WxDxH)	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)
Certifications	CE, FCC	CE, FCC	CE, FCC



Features\Models	GOT5103W-845	GOT5153W-845
CPU Level	Intel® Celeron® N3060, up to 2.48 GHz Intel® Pentium® N3710, up to 2.56 GHz	Intel® Celeron® N3060, up to 2.48 GHz
Chipset	SoC integrated	SoC integrated
System Memory	1 x 204-pin DDR3L-1600 SO-DIMM, up to 8GB	1 x 204-pin DDR3L-1600 SO-DIMM, up to 8GB
Display	10.1" WXGA TFT LCD, 350 nits	15.6" WXGA TFT LCD, 300 nits
I/O	1 x RS-232/422/485 1 x RS-232 2 x 10/100/1000 Mbps Ethernet 2 x USB 2.0 2 x USB 3.0 1 x Audio (Line-out) 1 x HDMI 1 x Switch for power on/off 1 x AT/ATX mode selection switch	1 x RS-232/422/485 1 x RS-232 2 x 10/100/1000 Mbps Ethernet 2 x USB 2.0 2 x USB 3.0 1 x Audio (Line-out) 1 x HDMI 1 x Switch for power on/off 1 x AT/ATX mode selection switch
Storage	1 x Half-slim SATA SSD (optional) 1 x mSATA	1 x 2.5" SATA HDD (AC version only) 1 x mSATA
Expansion Interface	2 x PCI Express Mini Card slot	2 x PCI Express Mini Card slot
Touchscreen	Projected capacitive multi-touch	5-wire resistive touch or projected capacitive multi-touch
Operating System	Windows® 10, Windows® 8.1, WE8S, Windows® 7, WES 7	Windows® 10, Windows® 8.1, WE8S, Windows® 7, WES 7
Power Supply	24 VDC 100 to 240 VAC, 60W power adapter	DC version: 9 to 36 VDC with over-current protection fuse AC version: 100 to 240 VAC-DC, 60W power adapter
Power Consumption	38.4W	46.8W
Watchdog Timer	255 levels, 0 to 255 sec.	255 levels, 0 to 255 sec.
Dimensions (WxDxH)	260.8 x 38 x 194.1 mm (10.27" x 1.50" x 7.65")	394.2 x 57 x 257.2 mm (15.53" x 2.25" x 10.13")
Weight (net/gross)	1.08 kg (2.38 lb)/2.18 kg (4.8 lb)	3.0 kg (6.61 lb)/4.5 kg (9.92 lb)
Operating Temperature	0°C to +50°C (+32°F to +122°F)	0°C to +50°C (+32°F to +122°F)
Certifications	CE, FCC	CE, FCC

Heavy-duty Fanless Touch Panel Computers

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Features\Models	GOT315W-521	GOT315WL-845	GOT318W-521
CPU Level	LGA1151 9th/8th gen Intel® Core™ i7/i5/i3, Intel® Pentium® Gold or Intel® Celeron® processor (up to 35W)	Intel® Pentium® N3710 4C @ 1.6 GHz	LGA1151 9th/8th gen Intel® Core™ i7/i5/i3, Intel® Pentium® Gold or Intel® Celeron® processor (up to 35W)
Chipset	Intel® H310	SoC integrated	Intel® H310
System Memory	1 x 260-pin DDR4-2133/2400MHz SO-DIMM, up to 32GB	1 x 204-pin DDR3L-1333/1600 SO-DIMM, up to 8GB	1 x 260-pin DDR4-2133/2400MHz SO-DIMM, up to 32GB
Display	15.6" WXGA TFT LCD, 400 nits	15.6" WXGA TFT LCD, 400 nits	18.5" FHD TFT LCD, 500 nits
I/O	1 x 9-pin D-sub Male or via cable (optional) for RS-232 1 x RS-232/422/485 2 x 10/100/1000 Mbps Ethernet 2 x USB 3.0 2 x USB 2.0 1 x Phoenix type connector for DC power input 1 x Switch for power on/off (ATX) 1 x Line-out 1 x HDMI 1 x DisplayPort 1 x VGA 1 x Remote power switch 1 x AT/ATX switch (DC type only) 1 x Grounding hole	1 x RS-232 1 x RS-232/422/485 1 x Switch for power on/off (ATX) 2 x USB 3.0 2 x USB 2.0 2 x 10/100/1000 Mbps Ethernet 1 x Audio (Line-out)	1 x 9-pin D-sub Male or via cable (optional) for RS-232 1 x RS-232/422/485 2 x 10/100/1000 Mbps Ethernet 2 x USB 3.0 2 x USB 2.0 1 x Phoenix type connector for DC power input 1 x Switch for power on/off (ATX) 1 x Line-out 1 x HDMI 1 x DisplayPort 1 x VGA 1 x Remote power switch 1 x AT/ATX switch (DC type only) 1 x Grounding hole
Storage	1 x 2.5" SATA HDD/SSD (7/9.5 mm, removable)	1 x 2.5" SATA HDD 1 x mSATA	1 x 2.5" SATA HDD/SSD (7/9.5 mm height, removable)
Expansion Interface	1 x M.2 Key E slot 1 x Full-size PCI Express Mini Card slot	1 x Full-size PCI Express Mini Card slot with mSATA 1 x Full-size PCI Express Mini Card slot with SIM	1 x M.2 Key E slot 1 x Full-size PCI Express Mini Card slot
Touchscreen	Projected capacitive multi-touch	Projected capacitive multi-touch	Projected capacitive multi-touch or flat resistive touch (optional)
Operating System	Windows® 10	Windows® 10	Windows® 10
Power Supply	DC terminal block: 12/19/24 VDC	DC version: 24 VDC	DC terminal block: 12/19/24 VDC
Power Consumption	60W	72W	60W
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 77 x 247.1 mm (15.6" x 3.04" x 9.73")	396.8 x 59.0 x 247.1 mm (15.62" x 2.3" x 9.73")	460.8 x 77 x 285 mm (18.11" x 3.04" x 11.22")
Weight (net/gross)	6.5 kg (14.3 lb)/8.5 kg (18.7 lb)	4.5 kg (9.9 lb)/6.5 kg (14.3 lb)	7.8 kg (17.2 lb)/10.2 kg (22.5 lb)
Operating Temperature	0°C to +50°C (+32°F to +122°F)	0°C to +50°C (+32°F to +122°F)	0°C to +50°C (+32°F to +122°F)
Certifications	CE	CE	CE

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Features\Models	GOT318WL-845	GOT321W-521	GOT3217WL-845
CPU Level	Intel® Pentium® N3710 4C @ 1.6 GHz	LGA1151 9th/8th gen Intel® Core™ i7/i5/i3, Intel® Pentium® Gold or Intel® Celeron® processor (up to 35W)	Intel® Pentium® N3710 4C @ 1.6 GHz
Chipset	SoC integrated	Intel® H310	SoC integrated
System Memory	1 x 204-pin DDR3L-1333/1600 SO-DIMM, up to 8GB	1 x 260-pin DDR4-2133/2400MHz SO-DIMM, up to 32GB	1 x 204-pin DDR3L-1333/1600 SO-DIMM, up to 8GB
Display	18.5" WXGA TFT LCD, 250 nits	21.5" FHD TFT LCD, 250 nits	21.5" FHD TFT LCD, 250 nits
I/O	1 x RS-232 1 x RS-232/422/485 1 x Switch for power on/off (ATX) 2 x USB 3.0 2 x USB 2.0 2 x 10/100/1000 Mbps Ethernet 1 x Audio (Line-out)	1 x 9-pin D-sub Male or via cable (optional) for RS-232 1 x RS-232/422/485 2 x 10/100/1000 Mbps Ethernet 2 x USB 3.0 2 x USB 2.0 1 x Phoenix type connector for DC power input 1 x Switch for power on/off (ATX) 1 x Line-out 1 x HDMI 1 x DisplayPort 1 x VGA 1 x Remote power switch 1 x AT/ATX switch (DC type only) 1 x Grounding hole	1 x RS-232 1 x RS-232/422/485 1 x Switch for power on/off (ATX) 2 x USB 3.0 2 x USB 2.0 2 x 10/100/1000 Mbps Ethernet 1 x Audio (Line-out)
Storage	1 x 2.5" SATA HDD 1 x mSATA	1 x 2.5" SATA HDD/SSD (7/9.5 mm height, removable)	1 x 2.5" SATA HDD 1 x mSATA
Expansion Interface	1 x Full-size PCI Express Mini Card slot with mSATA 1 x Full-size PCI Express Mini Card slot with SIM	1 x M.2 Key E slot 1 x Full-size PCI Express Mini Card slot	1 x Full-size PCI Express Mini Card slot with mSATA 1 x Full-size PCI Express Mini Card slot with SIM
Touchscreen	Projected capacitive multi-touch or flat resistive touch (optional)	Projected capacitive multi-touch or flat resistive touch (optional)	Projected capacitive multi-touch
Operating System	Windows® 10	Windows® 10	Windows® 10
Power Supply	DC version: 24 VDC	DC terminal block: +12V/+19V/+24V	DC version: DC 24V AC version: 12VDC, 5A adapter
Power Consumption	48W	105W	48W
Watchdog Timer	255 levels, 0 to 255 sec.	255 levels, 0 to 255 sec.	255 levels, 0 to 255 sec.
Dimensions (W x D x H)	460.8 x 58.5 x 285 mm (18.11" x 2.3" x 11.22")	547.59 x 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)	5.8 kg (12.8 lb)/8.2 kg (18.1 lb)	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)	0°C to +50°C (+32°F to +122°F)
Certifications	CE	CE	CE

Stainless Touch Panel Computers



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Features\Models	GOT810-845	GOT812W-511	GOT815L-511
CPU Level	Intel® Celeron® N3060 2C @ 1.6 GHz	Intel® Core™ i5-7300U 3.5 GHz	Intel® Core™ i5-7300U 3.5 GHz
Chipset	SoC integrated	SoC integrated	SoC integrated
System Memory	1 x DDR3L 1333 MHz SO-DIMM, up to 8GB	1 x 260-pin DDR4-2133 SO-DIMM, up to 16GB	1 x 260-pin DDR4-2133 SO-DIMM, up to 16GB
Display	10.4" XGA TFT LCD, 350 nits	12.1" WXGA TFT LCD, 400 nits	15" XGA TFT LCD, 420 nits
I/O	1 x RS-232/422/485 (default RS-232, M12 A-coded) 1 x RS-232 (M12 A-coded) 2 x USB 2.0 (M12 A-coded) 1 x 10/100/1000 Mbps Ethernet (M12 X-coded) 1 x DC power connector (M12)	2 x RS-232/422/485 (default RS-232, M12 A-coded) 4 x USB 2.0 (M12 A-coded) 1 x 10/100/1000 Mbps Ethernet (M12 X-coded) 1 x DC power connector (M12)	2 x RS-232/422/485 (default RS-232, M12 A-coded) 4 x USB 2.0 (M12 A-coded) 1 x 10/100/1000 Mbps Ethernet (M12 X-coded) 1 x DC power connector (M12)
Storage	1 x mSATA 1 x SATA	1 x 2.5" SSD HDD or 1 x 2.5" SATA HDD	1 x 2.5" SSD HDD or 1 x 2.5" SATA HDD
Expansion Interface	2 x PCI Express Mini Card slot	1 x Full-size PCI Express Mini Card slot 1 x Half-size PCI Express Mini Card slot	1 x Full-size PCI Express Mini Card slot 1 x Half-size PCI Express Mini Card slot
Touchscreen	5-wire resistive type or projected capacitive touch	Projected capacitive touch	5-wire resistive touch or projected capacitive multi-touch
Operating System	Windows® 8.1, WE8S, Windows® 7, WES 7, Windows® 10	Windows® 10 IoT, Windows® 10	Windows® 10 IoT, Windows® 10
Power Supply	9 to 36 VDC	9 to 36 VDC	9 to 36 VDC
Power Consumption	29W	56.5W	45W
Watchdog Timer	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.
Front Bezel	Stainless steel with IP66/IP69K protection	Stainless steel with IP66/IP69K protection	Stainless steel with IP66/IP69K protection
Dimensions (W x D x H)	284 x 56 x 241 mm (11.2" x 2.2" x 9.49")	332 x 55 x 234 mm (13.06" x 2.2" x 9.21")	382 x 55 x 305 mm (15.4" x 2.17" x 12.01")
Weight (net/gross)	2.8 kg (6.17 lb)/4 kg (8.82 lb)	4.55 kg (10.03 lb)/6 kg (13.22 lb)	5.2 kg (11.46 lb)/8.4 kg (18.5 lb)
Operating Temperature	-10°C to +50°C (14°F to +122°F)	-20°C to +50°C (-4°F to +122°F)	-20°C to +50°C (-4°F to +122°F)
Certifications	CE	CE	CE

NEW

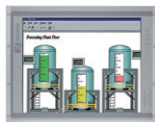


Features\Models	GOT815W-511	GOT817-834	GOT817L-511
CPU Level	Intel® Core™ i5-7300U 3.5 GHz	Intel Atom® E3827 1.75 GHz	Intel® Core™ i5-7300U 3.5 GHz
Chipset	SoC integrated	SoC integrated	SoC integrated
System Memory	1 x 260-pin DDR4-2133 SO-DIMM, up to 16GB	1 x 204-pin DDR3L-1333 SO-DIMM, up to 8GB	1 x 260-pin DDR4-2133 SO-DIMM, up to 16GB
Display	15.6" FHD TFT LCD, 420 nits	17" SXGA TFT, 350 nits	17" SXGA TFT LCD, 350 nits
I/O	2 x RS-232/422/485 (default RS-232, M12 A-coded) 4 x USB 2.0 (M12 A-coded) 1 x 10/100/1000 Mbps Ethernet (M12 X-coded) 1 x DC power connector (M12)	2 x RS-232/422/485 (default RS-232, M12 A-coded) 4 x USB 2.0 (M12 A-coded) 1 x 10/100/1000 Mbps Ethernet (M12 X-coded) 1 x DC power connector (M12)	2 x RS-232/422/485 (default RS-232, M12 A-coded) 4 x USB 2.0 (M12 A-coded) 1 x 10/100/1000 Mbps Ethernet (M12 X-coded) 1 x DC power connector (M12)
Storage	1 x 2.5" SSD HDD or 1 x 2.5" SATA HDD	1 x 2.5" SSD 1 x CFast™	1 x 2.5" SSD HDD or 1 x 2.5" SATA HDD
Expansion Interface	1 x Full-size PCI Express Mini Card slot 1 x Half-size PCI Express Mini Card slot	2 x PCI Express Mini Card slot	1 x Full-size PCI Express Mini Card slot 1 x Half-size PCI Express Mini Card slot
Touchscreen	Projected capacitive multi-touch	5-wire resistive type or projected capacitive touch	5-wire resistive touch or projected capacitive multi-touch
Operating System	Windows® 10 IoT, Windows® 10	Windows® 8.1, WEBS, Windows® 7, WES 7, Windows® 10	Windows® 10 IoT, Windows® 10
Power Supply	9 to 36 VDC	12 to 36 VDC	9 to 36 VDC
Power Consumption	58.5W	50W	67.5W
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 IP66/IP69K protection
Dimensions (W x D x H)	414.8 x 55 x 265.1 mm (16.4" x 2.2" x 10.43")	415.92 x 54.96 x 348.34 mm (16.37" x 2.16" x 13.71")	415.92 x 55 x 348.34 mm (16.37" x 2.16" x 13.71")
Weight (net/gross)	6.3 kg (13.88 lb)/7.5 kg (16.53 lb)	7.04 kg (15.52 lb)/10.3 kg (22.71 lb)	6.94 kg (15.3 lb) / 10.2 kg (22.5 lb)
Operating Temperature	-20°C to +50°C (-4°F to +122°F)	-20°C to +55°C (-4°F to +131°F)	-20°C to +50°C (-4°F to +122°F)
Certifications	CE	CE	CE

Industrial Touch Panel Computers



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



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

Industrial Touch Monitors

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Features\Models	P6103W-V3	P6121-V3	P6151-V3
Front Bezel	Flat, NEMA 4/12 (IP65)-compliant	NEMA 4/12 (IP65)-compliant	NEMA 4/12 (IP65)-compliant
Display Type	10.1" WXGA TFT	12.1" XGA TFT	15" XGA TFT
Max. Colors	16.7M	16.7M	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 pixels	1024 x 768 pixels	1024 x 768 pixels
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)	30,000	30,000	30,000
Viewing Angle (H/V)	170°/170°	178°/178°	160°/160°
Response Time	25ms	25ms	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 external AC/DC power adapter	24VDC with terminal block	AC version: Screw-type external AC/DC power adapter DC version: 24VDC with terminal block
Dimensions (W x D x H)	260.8 x 38 x 194.1 mm (10.27" x 1.5" x 7.64")	311.81 x 54.95 x 250.31 mm (12.28" x 2.16" x 9.85")	377.9 x 58 x 309.3 mm (19.69" x 2.28" x 12.18")
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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Features\Models	P6157W-V3	P171-V3	P187-V3
Front Bezel	Flat, NEMA 4/12 (IP65)-compliant	NEMA 4/12 (IP65)-compliant	Flat, NEMA 4/12 (IP65)-compliant
Display Type	15.6" WXGA TFT	17" SXGA TFT	18.5" WXGA TFT
Max. Colors	16.7M	16.2M	16.7M
Active Area (mm)	344.232 x 193.536	337.92 x 270.33	409.8 x 230.4
Max. Resolution	1366 x 768 pixels	1280 x 1024 pixels	1366 x 768 pixels
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	22ms
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 Power input with terminal block 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 external AC/DC power adapter DC version: 24VDC with terminal block	AC version: Screw-type external AC/DC power adapter DC version: 24VDC with terminal block	24VDC with terminal block
Dimensions (W x D x H)	397 x 54 x 247 mm (15.63" x 2.13" x 9.72")	410 x 58 x 338.3 mm (16.15" x 2.28" x 13.32")	460 x 56.2 x 285 mm (18.11" x 2.21" x 11.22")
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/Rackmount	Panel mount/wall mount/VESA mount
Certifications	CE	CE	CE

Industrial Touch Monitors

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Features\Models	P191-V3	P6217W-V3
Front Bezel	NEMA 4/12 (IP65)-compliant	Flat, NEMA 4/12 (IP65)-compliant
Display Type	19" SXGA TFT	21.5" FHD TFT
Max. Colors	16.7M	16.7M
Active Area (mm)	376.32 x 301.06	476.064 x 267.786
Max. Resolution	1280 x 1024 pixels	1920 x 1080 pixels
Pixel Pitch (H x V, mm)	0.294 x 0.294	0.24795 x 0.24795
Backlight	LED	LED
Backlight MTBF (hrs)	30,000	50,000
Viewing Angle (H/V)	170°/160°	178°/178°
Response Time	5ms	22ms
Contrast Ratio	1000 (TYP)	1000 (TYP)
Brightness (cd/m2)	250 nits	250 nits
Display Control	OSD	OSD
I/O Connectors	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 (option) 1 x USB for touch 1 x VGA 1 x HDMI 1 x DisplayPort 1 x Line-in
Touchscreen	5-wire resistive touch	Capacitive type 10-point projected capacitive multi-touch
Power Consumption	17W	21W
Power Adapter	24VDC with terminal block	AC version: Screw-type external AC/DC power adapter DC version: 24VDC with terminal block
Dimensions (W x D x H)	482 x 55 x 380 mm (18.98" x 2.17" x 14.96")	547.6 x 52.6 x 339.1 mm (21.56" x 2.07" x 13.35")
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)
Operating Temperature	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/rackmount	Panel mount/wall mount/VESA arm
Certifications	CE	CE

Medical Panel Computers



Features\Models	MPC103-845	MPC102-845	MPC152-845
CPU Level	Intel® Celeron® N3060 (up to 2.48 GHz)	Intel® Celeron® N3060 (up to 2.48 GHz)	Intel® Celeron® N3060 (up to 2.48 GHz)
Chipset	SoC integrated	SoC integrated	SoC integrated
System Memory	1 x 204-pin DDR3L-1600 SO-DIMM, up to 8GB	1 x 204-pin DDR3L-1600 SO-DIMM, up to 8GB	1 x 204-pin DDR3L-1600 SO-DIMM, up to 8GB
Display	10.1" WXGA TFT, 350 nits	10.4" SVGA TFT, 350 nits	15" XGA TFT, 420 nits
I/O	1 x RS-232 1 x RS-232/422/485 2 x 10/100/1000 Mbps Ethernet 2 x USB 2.0 2 x USB 3.0 1 x Audio (Line-out) 1 x Switch for power on/off 1 x AT/ATX selectable switch	1 x RS-232 1 x RS-232/422/485 2 x 10/100/1000 Mbps Ethernet 2 x USB 2.0 2 x USB 3.0 1 x Audio (Line-out) 1 x Switch for power on/off 1 x AT/ATX selectable switch	1 x RS-232 1 x RS-232/422/485 2 x 10/100/1000 Mbps Ethernet 2 x USB 2.0 2 x USB 3.0 1 x Audio (Line-out) 1 x Switch for power on/off 1 x AT/ATX selectable switch 1 x 8-bit DIO (programmable, DB9)
Storage	1 x 2.5" half slim SSD (AC type only) 1 x mSATA	1 x 2.5" HDD 1 x mSATA	1 x 2.5" HDD 1 x mSATA
Expansion Interface	2 x PCI Express Mini Card slot	2 x PCI Express Mini Card slot	2 x PCI Express Mini Card slot
Touchscreen	Projected capacitive multi-touch	5-wire flat Resistive Type	5-wire flat Resistive Type
Power Supply	AC version: 100 to 240 VAC-DC, 65W power adapter DC version: 9 to 36 VDC with over current protection fuse	AC version: 100 to 240 VAC-DC, 65W power adapter DC version: 9 to 36 VDC with over current protection fuse	AC version: 100 to 240 VAC-DC, 65W power adapter DC version: 9 to 36 VDC with over current protection fuse
Watchdog Timer	255 levels, 0 to 255 sec.	255 levels, 0 to 255 sec.	255 levels, 0 to 255 sec.
Dimensions (W x D x H)	260.8 x 38 x 194.1 mm (10.27" x 1.5" x 7.65")	292.5 x 45.8 x 235.8 mm (1.52" x 1.8" x 9.28")	387.9 x 54.6 x 307.7 mm (15.27" x 2.14" x 12.11")
Weight (net/gross)	1.08 kg (2.38 lb)/2.18 kg (4.8 lb)	1.8 kg (3.96 lb)/3 kg (6.61 lb)	3.2 kg (7.05 lb)/5.1 kg (11.24 lb)
Operating Temperature	0° to +40°C (+32°F to +104°F)	0° to +40°C (+32°F to +104°F)	0° to +40°C (+32°F to +104°F)
Certifications	EN 60601-1 (ESD contact 8KV, air 15KV), CE, and FCC	EN 60601-1 (ESD contact 8KV, air 15KV), CE, and FCC	EN 60601-1 (ESD contact 8KV, air 15KV), CE, and FCC



Medical Panel Computers



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

Transportation Touch Panel Computers



Features	Models	GOT710S-837	GOT712S-837
CPU Level		Intel Atom® E3845 (1.91 GHz)	Intel Atom® E3845 (1.91 GHz)
Chipset		SoC integrated	SoC integrated
System Memory		DDR3L 4GB onboard	DDR3L 4GB onboard
Display		10.4" SVGA TFT LCD, 1000 nits	12.1" XGA TFT LCD, 800 nits
I/O		2 x Isolated M12 A-coded RS-232/422/485 (isolation level 1.5kV) 2 x Isolated M12 X-coded GbE (isolation level 1.5kV) 1 x M12 A-coded USB 2.0 (2-port signal) 1 x M12 A-coded DC-in 1 x DB15 audio line-in, mic-in, speaker-out or line-out 1 x Isolated terminal block DIO (6-in/2-out, isolation level 1.5kV) 1 x Isolated DB9 CANbus (isolation level 1.5kV)	2 x Isolated M12 A-coded RS-232/422/485 (isolation level 1.5kV) 2 x Isolated M12 X-coded GbE (isolation level 1.5kV) 1 x M12 A-coded USB 2.0 (2-port signal) 1 x M12 A-coded DC-in 1 x DB15 audio line-in, mic-in, speaker-out or line-out 1 x Isolated terminal block DIO (6-in/2-out, isolation level 1.5kV) 1 x Isolated DB9 CANbus (isolation level 1.5kV)
Storage		16GB flash onboard 1 x mSATA (occupied 1 PCI Express Mini Card)	16GB flash onboard 1 x mSATA (occupied 1 PCI Express Mini Card)
Expansion Interface		2 x Full-size PCI Express Mini Card slot	2 x Full-size PCI Express Mini Card slot
Touchscreen		5-wire resistive touchscreen	5-wire resistive touchscreen
Operating System		Windows® 7, Windows® 8/8.1, Windows® 10, Windows® 10 IoT	Windows® 7, Windows® 8/8.1, Windows® 10, Windows® 10 IoT
Power Supply		24 to 110 VDC power input, EN 50155 Class S3 20ms power interruption protection	24 to 110 VDC power input, EN 50155 Class S3 20ms power interruption protection
Power Consumption		24-110V@1.4-0.29A	24-110V@1.7-0.32A
Watchdog Timer		255 levels, 1 to 255 sec.	255 levels, 1 to 255 sec.
Front Bezel		IP65-rated aluminum front bezel and IP40-rated rear protection	IP65-rated aluminum front bezel and IP40-rated rear protection
Dimensions (W x D x H)		310 x 61.5 x 214 mm (12.20" x 2.42" x 8.43")	330 x 61.5 x 245 mm (12.99" x 2.42" x 9.65")
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)
Operating Temperature		-40°C to +70°C (-40°F to +158°F)	-40°C to +70°C (-40°F to +158°F)
Mounting		Suspension, Wall mount, and VESA mount	Suspension, Wall mount, and VESA mount
Certifications		CE, FCC Class A, EN 50155, EN 50121-3-2, EN 61373, and EN 45545-2 certified	CE, FCC Class A, EN 50155, EN 50121-3-2, EN 61373, and EN 45545-2 certified

Transportation Monitors

NEW



NEW



Features\Models	P710	P712
Display Type	10.4" XGA TFT LCD	12.1" XGA TFT LCD
Max. Colors	16.2M	16.7M
Active Area (mm)	210.4 x 157.8	245.76 x 18432
Max. Resolution	1024 x 768 pixels	1024 x 768 pixels
Pixel Pitch (H x V, mm)	0.0685 x 0.2055	0.24 x 0.24
Backlight	LED	LED
Backlight MTBF (hrs)	50,000	50,000
Viewing Angle (H/V)	176°/176°	178°/178°
Response Time	25ms	25ms
Contrast Ratio	1000 (TYP)	1000 (TYP)
Brightness (cd/m2)	500 nits	600 nits
Display Control	OSD	OSD
I/O Connectors	1 x M12 A-coded Male 5-pin DC-in 1 x Multi-function of T/S & 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 Multi-function of T/S & remote control 1 x VGA 1 x HDMI 1 x DVI-D 1 x Line-in
Touchscreen	5-wire resistive touchscreen	5-wire resistive touchscreen
Power Consumption	24 to 110V @ 0.6 to 0.13A	24 to 110V @ 0.99 to 0.19A
Power Supply	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")
Weight (net/gross)	1.85 kg (4.08 lb)/3.29 kg (7.26 lb)	2.30 kg (5.07 lb)/4.36 kg (9.62 lb)
Operating Temperature	-25°C to +55°C (-13°F to +131°F)	-25°C to +55°C (-13°F to +131°F)
Mounting	Suspension, Wall mount, and VESA mount	Suspension, Wall mount, and 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

Interactive Touch Computers



NEW



Features\Models	ITC150WM	ITC210
SDM Module	SDM300S: Intel® SDM Small (SDM-S, 60 x 100 mm) SDM500L: Intel® SDM Large (SDM-L, 175 x 100 mm)	SDM300S: Intel® SDM Small (SDM-S, 60 x 100 mm) SDM500L: Intel® SDM Large (SDM-L, 175 x 100 mm)
CPU Level	SDM300S: Intel® Pentium® N4200 1.1GHz or Intel® Celeron® N3350 1.1GHz SDM500L: Intel® Core™ i5-8365UE 1.6GHz or Intel® Celeron® 4305UE 2.0GHz	SDM300S: Intel® Pentium® N4200 1.1GHz or Intel® Celeron® N3350 1.1GHz SDM500L: Intel® Core™ i5-8365UE 1.6GHz or Intel® Celeron® 4305UE 2.0GHz
Chipset	SoC Integrated	SoC Integrated
System Memory	SDM300S: Onboard LPDDR4 2400 MHz 4GB (8GB optional) SDM500L: 2 x 260-pin DDR4-2400 SO-DIMM slot, up to 32GB	SDM300S: Onboard LPDDR4 2400 MHz 4GB (8GB optional) SDM500L: 2 x 260-pin DDR4-2400 SO-DIMM slot, up to 32GB
Display	15.6" FHD TFT LCD 300 nits 16:9 ratio 1920 x 1080 pixels	21.5" FHD TFT LCD 250 nits 16:9 ratio 1920 x 1080 pixels
SDM-S I/O	1 x GbE LAN 2 x USB 3.0 Type A 2 x SMA antenna reserved hole	1 x GbE LAN 2 x USB 3.0 Type A 2 x SMA antenna reserved hole
SDM-L I/O	1 x Power button with LED 1 x GbE LAN 4 x USB 3.0 Type A 1 x Line out 1 x Microphone input	1 x Power button with LED 1 x GbE LAN 4 x USB 3.0 Type A 1 x Line out 1 x Microphone input
I/O	1 x HDMI 1 x USB 3.0 Type A 2 x USB 2.0 Type A 1 x microSD card slot (push-push type) 2 x 12 VDC-in barrel (screw-lock type) 1 x Power button with LED	1 x HDMI 1 x USB 3.0 Type A 2 x USB 2.0 Type A 1 x microSD card slot (push-push type) 2 x 12 VDC-in barrel (screw-lock type) 1 x Power button with LED
Storage	SDM300-S: 1 x eMMC 64GB onboard SDM500-L: 1 x M.2 Key B 2242 slot 1 x M.2 Key M 2280 slot	SDM300-S: 1 x eMMC 64GB onboard SDM500-L: 1 x M.2 Key B 2242 slot 1 x M.2 Key M 2280 slot
Expansion Interface	1 x M.2 Key E 2230 slot (for Wi-Fi)	1 x M.2 Key E 2230 slot (for Wi-Fi)
Touchscreen	Projected capacitive multi-touch	Projected capacitive multi-touch
Operating System	Windows® 10	Windows® 10
Power Supply	84W (12V/7A) AC to DC power adapter	84W (12V/7A) AC to DC power adapter
Power Consumption	Average 45W	Average 60W
Watchdog Timer	255 levels, 1 to 255 sec./min.	255 levels, 1 to 255 sec./min.
Dimensions (W x D x H)	386 x 40 x 241 mm (15.1" x 1.6" x 9.5")	519.5 x 49.8 x 311 mm (20.4" x 1.9" x 12.2")
Weight (net/gross)	3.1 kg (6.9lb)/5.6 kg (12.4 lb)	7.1 kg (15.7 lb)/10.2 kg (22.5 lb)
Operating Temperature	0°C to +40°C (+32°F to +104°F)	0°C to +40°C (+32°F to +104°F)
Certifications	CE, FCC Class A	CE, FCC Class A



Self-Service Kiosks



NEW



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)	SDM500L: Intel® SDM Large (SDM-L, 175 x 100 mm)
CPU Level	SDM300S: Intel® Pentium® N4200 1.1GHz processor or Intel® Celeron® N3350 1.1GHz processor SDM500L: Intel® Celeron® 4305UE 2.0GHz processor or Intel® Core™ processor (optional)	SDM500L: Intel® Core™ i5-8365UE processor, 1.6GHz Intel® Core™ i3-8145UE processor, 1.6GHz Intel® Celeron® 4305UE processor, 2.0GHz
Chipset	SoC Integrated	SoC Integrated
System Memory	SDM300S: Onboard LPDDR4 2400 MHz 4GB (8GB optional) SDM500L: 2 x 260-pin DDR4-2400 SO-DIMM slot, up to 64GB	SDM500L: 2 x 260-pin DDR4-2400 SO-DIMM slot, up 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 2 x SMA antenna reserved hole	N/A
SDM-L I/O	1 x Power button with LED 1 x GbE LAN 4 x USB 3.0 Type A 1 x Audio output 1 x Microphone input	1 x Power button with LED 1 x GbE LAN 4 x USB 3.0 Type A 1 x Audio output 1 x Microphone input
I/O	1 x Power button with LED 1 x USB 3.0 Type A 2 x USB 2.0 Type A 1 x 24 VDC-in (screw-lock type)	1 x Power button with LED 1 x USB 3.0 Type A (internal) 3 x USB 2.0 Type A (internal) 1 x RS-232 (internal) 1 x 24 VDC-in (screw-lock type)
Storage	SDM300-S: 1 x eMMC 64GB onboard SDM500-L: 1 x M.2 Key M 2242 slot 1 x M.2 Key B 2280 slot	SDM500-L: 1 x M.2 Key B 2280 slot
Expansion Interface	SDM300S: 1 x M.2 Key E 2230 slot (for Wi-Fi) SDM500L: 1 x M.2 Key E 2230 slot (for Wi-Fi)	SDM500L: 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	150W (24V@A) AC to DC open-frame	150W (24V@A) AC to DC open-frame
Power Consumption	Average 90W	Average 90W
Watchdog Timer	255 levels, 0 to 255 sec.	255 levels, 0 to 255 sec.
Dimensions (W x D x H)	405 x 288 x 509 mm (15.94" x 11.34" x 20.04")	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% - 80%, non-condensing	20% - 80%, non-condensing
Certifications	CE, FCC Class A	CE, FCC Class A

SMB Network Appliances

NEW



Features \ Models		NA870	NA860	NA861
Form Factor		2U, 19" rackmount	2U, 19" rackmount	1U, 19" rackmount
Platform	Processor	Dual LGA4189 3rd gen Intel® Xeon® Scalable processors	Dual LGA3647 Intel® Xeon® Scalable processors	LGA3647 Intel® Xeon® Scalable processor
	Chipset	Intel® C621A/C627A	Intel® C621	Intel® C621
	Acceleration Technology	Intel® QAT (Intel® C627A)	N/A	N/A
	BIOS	AMI SPI Flash BIOS	AMI SPI Flash BIOS	AMI SPI Flash BIOS
Memory	Technology	DDR4-3200	DDR4-2400	DDR4-2400
	Max. Capacity	1280GB	384GB	192GB
	Socket	20 x 288-pin R-DIMM	12 x 288-pin R-DIMM	6 x 288-pin R-DIMM
	ECC Support	Non-ECC/ECC	Non-ECC/ECC	Non-ECC/ECC
Network Interface	Ethernet (default)	2 x 10/100/1000 Mbps	2 x 10/100/1000 Mbps	2 x 10/100/1000 Mbps
	Ethernet (max.)	66 x 10/100/1000 Mbps	66 x 10/100/1000 Mbps	34 x 10/100/1000 Mbps
	LAN Bypass	Upon LAN module	Upon LAN module	Upon LAN module
	Controllers	Intel® I210	Intel® I210	Intel® I210
	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)	4 x NIC slot
Storage	HDD/SSD	2 x 2.5" HDD (Hot swappable)	2 x 2.5" HDD (Hot swappable)	2 x 2.5" HDD
	M.2 SSD	1 x M.2 2242/2280 Key M (PCIe) 1 x M.2 2242/2280 Key M (SATA)	N/A	N/A
	mSATA/CF/CFast	N/A	1 x Full-Size mSATA	1 x Full-Size mSATA
	Button	Yes	N/A	N/A
I/O	LED Indicator	Power, HDD, GPIO programmable, Link/Act with transfer rate	Power, HDD, GPIO programmable, Link/Act with transfer rate	Power, HDD, GPIO programmable, Link/Act with transfer rate
	USB	2 x USB 3.0	2 x USB 3.0	2 x USB 2.0
	Console	1 x Console (RJ-type)	1 x Console (RJ-type)	1 x Console (RJ-type)
	LCM Module	Yes	Yes	Yes
	Display	1 x VGA	1 x VGA	1 x VGA
TPM		2.0	1.2	1.2
IPMI		Optional	Optional	Optional
Watchdog		255 stepping for system reset 8 stepping for LAN Bypass	255 stepping for system reset 8 stepping for LAN Bypass	255 stepping for system reset 8 stepping for LAN Bypass
Power Supply	Power Type	Redundant	Redundant	Single/Redundant (optional)
	Watts	1300W	800W	400W
	Input	100 to 240 VAC	100 to 240 VAC	100 to 240 VAC
	Connector	Inlet C14	Inlet C14	Inlet C14
Expansion Interface		2 x PCIe x16 (optional, 1 slot for each CPU)	1 x PCIe x16 (optional) 2 x PCIe x8 (optional from CPU#1)	1 x PCIe x16 2 x PCIe x8 (optional from CPU#1)
Environment	Operating Temperature	0°C to +40°C (+32°F to +104°F)	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
	Construction	Steel	Steel	Steel
Mechanical	Dimensions (W x H x D)	88 x 430 x 663 mm (3.46" x 16.93" x 26.10")	88 x 430 x 562 mm (3.46" x 16.93" x 22")	44 x 430 x 561 mm (1.73" x 16.93" x 22")
	Weight (net/gross)	12 kg (26.4 lb)/20 kg (44 lb)	12 kg (26.4 lb)/20 kg (44 lb)	8 kg (17.6 lb)/12 kg (26.4 lb)
OS Support		Linux Kernel	Linux Kernel	Linux Kernel
Certifications		CE/FCC Class A	CE/FCC Class A	CE/FCC Class A



SMB Network Appliances

NEW



Features \ Models		NA720	NA592	NA591
Form Factor		1U, 19" rackmount	1U, 19" rackmount	1U, 19" rackmount
Platform	Processor	Intel® Xeon® D-1527 or Intel® Pentium® D1508	LGA1200 Intel® Xeon® W-1200 or Intel® Core™	LGA1151 Intel® Xeon® E-2200 or Intel® Core™
	Chipset	SoC Integrated	Intel® W480E	Intel® C246
	Acceleration Technology	N/A	N/A	N/A
	BIOS	AMI SPI Flash BIOS	AMI SPI Flash BIOS	AMI SPI Flash BIOS
Memory	Technology	DDR4-2400	DDR4-2933	DDR4-2666
	Max. Capacity	128GB	128GB	128GB
	Socket	4 x 288-pin R-DIMM/U-DIMM	4 x 288-pin U-DIMM	4 x 288-pin U-DIMM
	ECC Support	Non-ECC/ECC	Non-ECC/ECC	Non-ECC/ECC
Network Interface	Ethernet (default)	8 x 10/100/1000 Mbps (Intel® I210) 2 x 10 GbE SFP+	10 x 10/100/1000 Mbps (8RJ+2SFP)	2 x 10/100/1000 Mbps
	Ethernet (max.)	24 x 10/100/1000 Mbps	26 x 10/100/1000 Mbps	34 x 10/100/1000 Mbps
	LAN Bypass	On board 2 pairs Upon LAN module	2 pairs	Upon LAN module
	Controllers	Intel® I210	Intel® I350	Intel® I210
	LAN Module	2 x NIC slot	2 x NIC slot	4 x NIC slot
Storage	HDD/SSD	2 x 2.5" HDD	2 x 2.5" HDD	2 x 2.5" HDD
	M.2 SSD	N/A	1 x M.2 B-Key 2242	N/A
	mSATA/CF/CFast	1 x Full-Size mSATA	N/A	1 x Full-size mSATA
	Button	N/A	Yes	N/A
I/O	LED Indicator	Power, HDD, GPIO programmable, LAN Bypass, Link/Act with transfer rate	Power, HDD, GPIO programmable, LAN Bypass, Link/Act with transfer rate	Power, HDD, GPIO programmable, Link/Act with transfer rate
	USB	2 x USB 3.0	2 x USB 3.0	2 x USB 2.0
	Console	1 x Con sole (RJ-type)	1 x Console (RJ-type)	1 x Console (RJ-type)
	LCM Module	Yes	Yes	Yes
	Display	1 x VGA (optional)	1 x VGA (optional)	1 x VGA (optional)
TPM		1.2	2.0	1.2
IPMI		Optional	Optional	Optional
Watchdog		255 stepping for system reset 8 stepping for LAN Bypass	255 stepping for system reset 8 stepping for LAN Bypass	255 stepping for system reset 8 stepping for LAN Bypass
Power Supply	Power Type	Single/Redundant (optional)	Single/Redundant (optional)	Single/Redundant (optional)
	Watts	300W 400W (optional)	300W/400W (optional)	400W
	Input	100 to 240 VAC	100 to 240 VAC	100 to 240 VAC
	Connector	Inlet C14	Inlet C14	Inlet C14
Expansion Interface		1 x PCIe x8 (optional)	1 x PCIe x8 (optional) 1 x M.2 Key E 2230 1 x M.2 Key M 2242/2280 (optional) 1 x PCIe Mini Card slot 1 x Nano SIM socket	1 x PCIe x4 (optional)
Environment	Operating Temperature	0°C to +45°C (+32°F to +113°F)	0°C to +40°C (+32°F to +104°F)	0°C to +45°C (+32°F to +113°F)
	Storage Temperature	-20°C to +70°C (-4°F to +158°F)	-20°C to +70°C (-4°F to +158°F)	-20°C to +70°C (-4°F to +158°F)
	Humidity	10% to 95% RH, non-condensing	10% - 95% RH, non-condensing	10% - 95% RH, non-condensing
Mechanical	Construction	Steel	Steel	Steel
	Dimensions (W x H x D)	44 x 430 x 390 mm (1.73" x 16.93" x 15.34")	44 x 430 x 450 mm (1.73" x 16.93" x 17.7")	44 x 430 x 500 mm (1.73" x 16.92" x 19.69")
	Weight (net/gross)	5.5 kg (12.13 lb)/7.5 kg (16.53 lb)	6 kg (13.2 lb)/10 kg (22 lb)	8.32 kg (18.34 lb)/12.76 kg (28.13 lb)
	OS Support	Linux Kernel	Linux Kernel	Linux
Certifications		CE/FCC Class A	CE/FCC Class A	CE/FCC Class A



Features \ Models		NA590	NA580	NA362R
Form Factor		1U, 19" rackmount	1U, 19" rackmount	1U, 19" rackmount
Platform	Processor	LGA1151 8th/9th gen Intel® Core™ or Intel® Xeon® E-2200	LGA1151 Intel® Xeon® E3 or Intel® Core™	Intel Atom® C3558/C3758
	Chipset	Intel® C246/H310	Intel® C236/H110	SoC integrated
	Acceleration Technology	N/A	N/A	Intel® QAT
BIOS		AMI SPI Flash BIOS	AMI SPI Flash BIOS	AMI SPI Flash BIOS
Memory	Technology	DDR4-2666	DDR4-2400	DDR4-2133 (C3558) DDR4-2400 (C3758)
	Max. Capacity	64GB (Intel® H310) 128GB (Intel® C246)	64GB	128GB
	Socket	4 x 288-pin U-DIMM (Intel® H310) 2 x 288-pin U-DIMM (Intel® C246)	2 x 288-pin U-DIMM (Intel® H110) 4 x 288-pin U-DIMM (Intel® C236)	4 x 288-pin R-DIMM/U-DIMM
Network Interface	ECC Support	Non-ECC	Non-ECC/ECC	Non-ECC/ECC
	Ethernet (default)	6 x 10/100/1000 Mbps (Intel® H310) 8 x 10/100/1000 Mbps (Intel® C246)	6 x 10/100/1000 Mbps (Intel® H110) 8 x 10/100/1000 Mbps (Intel® C236)	6 x 10/100/1000 Mbps 2 x 10G SFP+ or 4 x 10G SFP+
	Ethernet (max.)	14 x 10/100/1000 Mbps (Intel® H310) 26 x 10/100/1000 Mbps (Intel® C246)	18 x 10/100/1000 Mbps	6 x 10/100/1000 Mbps 4 x 10G SFP+
	LAN Bypass	LAN Bypass function through latch relay (2 pairs)	2 pairs	1 pair
	Controllers	Intel® I210	Intel® I210	Intel® I210
	LAN Module	2 x NIC slot (2 slot for C246 only)	1 x NIC slot	N/A
	Storage	2 x 2.5" HDD or 1 x 3.5" HDD (3.5" is optional for single PSU) 1 x M.2 2280 (C246 only)	2 x 2.5" HDD or 1 x 3.5" HDD (3.5" is optional for single PSU) N/A	2 x 2.5" HDD 1 x 3.5" HDD (optional) N/A
I/O	mSATA/CF/ CFAST	1 x Full-size mSATA	1 x CFAST™ 1 x Full-size mSATA	1 x Full-size mSATA
	Button	N/A	N/A	Yes
	LED Indicator	Power, HDD, GPIO programmable, LAN Bypass, Link/Act with transfer rate	Power, HDD, GPIO programmable, LAN Bypass, Link/Act with transfer rate	Power, HDD, GPIO programmable, LAN Bypass, Link/Act with transfer rate
	USB	2 x USB 3.0	2 x USB 3.0	2 x USB 2.0
	Console	1 x Console (RJ-type)	1 x Console (RJ-type)	1 x Console (RJ-type)
	LCM Module	Yes	Yes	Yes
	Display	1 x VGA (optional)	1 x VGA (optional)	1 x VGA (optional)
TPM		1.2	1.2	Yes
IPMI		Optional	Optional	N/A
Watchdog		255 stepping for system reset 8 stepping for LAN Bypass	255 stepping for system reset 8 stepping for LAN Bypass	255 stepping for system reset 8 stepping for LAN Bypass
Power Supply	Power Type	Single/Redundant (optional)	Single/Redundant (optional)	Open frame
	Watts	300W/400W (optional)	300W/400W (optional)	120W
	Input	100 to 240 VAC	100 to 240 VAC	100 to 240 VAC
		Connector	Inlet C14	Inlet C14
Expansion Interface		1 x M.2 Key M 2280 (Intel® C246 optional) 1 x PCIe x8 (Intel® C246 optional)	N/A	1 x Full-size PCIe Mini Card slot (SATA/USB) 1 x Full-size PCIe Mini Card slot (PCIe/USB) with SIM slot
Environment	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 +45°C (+32°F to +113°F) (300W ATX power supply) 0°C to +40°C (+32°F to +104°F) (400W 1U redundant power supply)	0°C to +45°C (+32°F to +113°F)
	Storage Temperature	-20°C to +70°C (-4°F to +158°F)	-20°C to +70°C (-4°F to +158°F)	-20°C to +70°C (-4°F to +158°F)
	Humidity	10% to 95% RH, non-condensing	10% - 95% RH, non-condensing	10% - 95% RH, non-condensing
Mechanical	Construction	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 250 mm (1.73" x 16.93" x 9.84")
	Weight (net/gross)	6 kg (13.2 lb)/10 kg (22 lb)	6 kg (13.2 lb)/10 kg (22 lb)	3.5 kg (7 lb)/4.5 kg (9 lb)
	OS Support	Linux	Linux	Yocto, Linux
Certifications		CE/FCC Class A	CE/FCC Class A	CE/FCC Class B



SMB Network Appliances



Features \ Models		NA363R	NA345R
Form Factor		1U, 19" rackmount	1U, 19" Rackmount
Platform	Processor	Intel Atom® processor C3558/C3758	Intel® Celeron® N3350/J3455
	Chipset	SoC integrated	SoC integrated
	Acceleration Technology	Intel® QAT	N/A
BIOS		AMI SPI Flash BIOS	AMI SPI Flash BIOS
Memory	Technology	DDR4-2133 (C3558) DDR4-2400 (C3758)	DDR3L-1866
	Max. Capacity	128GB	8GB
	Socket	4 x 288-pin R-DIMM/U-DIMM	1 x 204-pin SO-DIMM
	ECC Support	Non-ECC/ECC	Non-ECC/ECC
Network Interface	Ethernet (default)	6 x 10/100/1000 Mbps	6 x 10/100/1000 Mbps
	Ethernet (max.)	6 x 10/100/1000 Mbps	6 x 10/100/1000 Mbps
	LAN Bypass	1 pair 2 pairs (optional)	1 pair (optional)
	Controllers	Intel® I210	Intel® I211
	LAN Module	1 x NIC Slot (C3758 optional)	N/A
	Storage	2 x 2.5" HDD 1 x 3.5" HDD (optional)	1 x 2.5" HDD 1 x 3.5" HDD (optional)
I/O	M.2 SSD	N/A	N/A
	mSATA/CF/Cfast	1 x Full-size mSATA	1 x Full-size mSATA
	Button	Yes	Yes
	LED Indicator	Power, HDD, GPIO programmable, LAN Bypass, Link/Act with transfer rate	Power, HDD, GPIO programmable, LAN Bypass, Link/Act with transfer rate
TPM	USB	2 x USB 3.0	2 x USB 3.0
	Console	1 x Console (RJ-type)	1 x Console (RJ-type)
	LCM Module	Yes	N/A
	Display	1 x VGA (optional)	1 x HDMI 1 x VGA (optional)
IPMI		Yes	Yes
Watchdog		N/A	N/A
Power Supply		255 stepping for system reset 8 stepping for LAN Bypass	255 stepping for system reset 8 stepping for LAN Bypass
	Power Type	Open frame	Open frame
	Watts	120W	65W
	Input	100 to 240 VAC	100 to 240 VAC
Expansion Interface	Connector	Inlet C14	Inlet C14
		1 x Full-size PCIe Mini Card slot (PCIe or mSATA/USB)	
		1 x Full-size PCIe Mini Card slot (PCIe or mSATA/USB)	N/A
Environment	Operating Temperature	0°C to +45°C (+32°F to +113°F)	0°C to +45°C (+32°F to +113°F)
	Storage Temperature	-20°C to +70°C (-4°F to +158°F)	-20°C to +70°C (-4°F to +158°F)
	Humidity	10% - 95% RH, non-condensing	10% - 95% RH, non-condensing
	Construction	Steel	Steel
Mechanical	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")
	Weight (net/gross)	3.5 kg (7 lb)/4.5 kg (9 lb)	7 kg (15.43 lb)/8 kg (17.64 lb)
	OS Support	Yocto, Linux	Win 10, Yocto, Linux
Certifications		CE/FCC Class A	CE/FCC Class B

SOHO Network Appliances

NEW



Models		NA347	NA346	NA345
Form Factor		Ultra-Compact, Fanless	Ultra-Compact, Fanless	1U Desktop
Platform	Processor	Intel® Celeron® N3350 (Apollo Lake)	Intel® Celeron® N3350 (Apollo Lake)	Intel® Pentium® N4200 Intel® Celeron® N3350 (Apollo Lake)
	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	AMI SPI Flash BIOS
	Technology	DDR3L-1866	DDR3L-1866MHz	DDR3L-1866
	Max. Capacity	8GB	8GB	8GB
Memory	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
	Ethernet (default)	3 x 10/100/1000 Mbps	4 x 10/100/1000 Mbps	4 x 10/100/1000 Mbps
Network Interface	Ethernet (max.)	3 x 10/100/1000 Mbps	4 x 10/100/1000 Mbps	6 x 10/100/1000 Mbps
	LAN Bypass	1 pair (optional)	1 pair (optional)	1 pair (optional)
	Controllers	Intel® I211	Intel® I211	Intel® I211
	LAN Module	N/A	N/A	N/A
Storage	HDD/SSD	N/A	N/A	1 x 2.5" HDD (Max 9.5mm height only)
	M.2 SSD	1 x M.2 Key B 2242 slot	N/A	N/A
	mSATA/CF/CFast	N/A	1 x Half-size mSATA 1 x Full-size mSATA	1 x Full-size mSATA
	Button	Power button with LED	1 x Power switch	1 x Power switch
I/O	LED Indicator	N/A	Power, HDD, GPIO programmable, LAN Bypass, Link/Act with transfer rate	Power, HDD, GPIO programmable, LAN Bypass, Link/Act with transfer rate
	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
TPM	Display	1 x HDMI (optional)	1 x HDMI (optional)	1 x HDMI (optional)
		N/A	Yes	Yes
IPMI		N/A	N/A	N/A
Watchdog		255 stepping for system reset	255 stepping for system reset 8 stepping for LAN Bypass	255 stepping for system reset 8 stepping for LAN Bypass
Power Supply	Power Type	Adapter	Adapter	Adapter
	Watts	36W	36W	60W
	Input	100 to 240 VAC	100 to 240 VAC	100 to 240 VAC
Expansion Interface	Connector	DC-Jack (screw type)	DC-Jack (screw type)	DC-Jack
		1 x M.2 Key B 2242 1 x Full-size PCIe Mini Card slot (PCIe/USB)	1 x Half-size PCIe Mini Card slot (SATA/USB) 1 x Half-size PCIe Mini Card slot (SATA/USB) (PCIe optional, co-layout with Eth4) 1 x Nano SIM slot	1 x PCIe Mini Card slot with USB interface
Environment	Operating Temperature	0°C to +40°C (+32°F to +104°F)	0°C to +40°C (+32°F to +104°F)	0°C to +40°C (+32°F to +104°F)
	Storage Temperature	-20°C to +70°C (-4°F to +158°F)	-20°C to +70°C (-4°F to +158°F)	-20°C to +70°C (-4°F to +158°F)
	Humidity	10% - 95% RH, non-condensing	10% - 95% RH, non-condensing	10% - 95% RH, non-condensing
Mechanical	Construction	Aluminum	Aluminum	Steel
	Dimensions (W x H x D)	26 x 146 x 118.2 mm (1.24" x 5.57" x 4.65")	33.5 x 146 x 118.2 mm (1.32" x 5.75" x 4.65")	44 x 231.9 x 152 mm (1.73" x 9" x 5.98")
	Weight (net/gross)	0.284 kg (0.63 lb) / 0.786 kg (1.73 lb)	0.62 kg (1.37 lb) / 1.3 kg (2.87 lb)	2.35 kg (5.18 lb) / 2.61 kg (5.75 lb)
OS Support		Win 10, Yocto, Linux	Win 10, Yocto, Linux	Win 10, Linux
Certifications		CE/FCC Class B	CE/FCC Class B	CE/FCC Class B



SOHO Network Appliances



Models		NA342	NA362
Form Factor		1U Desktop	1U Desktop
Platform	Processor	Intel® Celeron® J1900 (Bay Trail)	Intel Atom® C3338/C3558/C3758 (Denverton)
	Chipset	SoC integrated	SoC integrated
	Acceleration Technology	N/A	Intel® QAT
BIOS		AMI SPI Flash BIOS	AMI SPI Flash BIOS
Memory	Technology	DDR4-1333	DDR4-1866 (C3338) DDR4-2133 (C3558) DDR4-2400 (C3758)
	Max. Capacity	8GB	64GB (U-DIMM) 128GB (R-DIMM)
	Socket	1 x 204-pin SO-DIMM	2 x 288-pin R-DIMM/U-DIMM (C3338) 4 x 288-pin R-DIMM/U-DIMM (C3558/C3758)
	ECC Support	Non-ECC	Non-ECC/ECC
Network Interface	Ethernet (default)	4 x 10/100/1000 Mbps	6 x 10/100/1000 Mbps 2 x 10GbE SFP+ (C3558) 4 x 10GbE SFP+ (C3758)
	Ethernet (max.)	6 x 10/100/1000 Mbps	6 x 10/100/1000 Mbps 4 x 10GbE SFP+
	LAN Bypass	1 pair (optional)	1 pair (optional)
	Controllers	Intel® I211	Intel® I210
	LAN Module	N/A	N/A
Storage	HDD/SSD	1 x 2.5" HDD (Max 9.5mm height only)	1 x 2.5" HDD
	M.2 SSD	N/A	N/A
	mSATA/CF/CFast	1 x CompactFlash™	1 x Full-Size mSATA
I/O	Button	1 x Power switch	1 x Power switch 1 x Reset button
	LED Indicator	Power, HDD, GPIO programmable, LAN Bypass, Link/Act with transfer rate	Power, HDD, GPIO programmable, LAN Bypass, Link/Act with transfer rate
	USB	1 x USB 2.0 1 x USB 3.0	2 x USB 2.0
	Console	1 x Console (RJ-type)	1 x Console (RJ-type)
	LCM Module Display	N/A 1 x VGA (pin header)	N/A N/A
TPM		Yes	Yes
IPMI		N/A	N/A
Watchdog		255 stepping for system reset 8 stepping for LAN Bypass	255 stepping for system reset 8 stepping for LAN Bypass
Power Supply	Power Type	Adapter	Adapter
	Watts	60W	60W/84W
	Input	100 to 240 VAC	100 to 240 VAC
		Connector	DC-Jack
Expansion Interface		1 x PCIe Mini Card slot (USB interface)	1 x Full-size PCIe Mini Card slot (USB+SATA) 1 x Full-size PCIe Mini Card slot (PCIe/USB) with SIM slot
Environment	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)
	Humidity	10% - 95% RH, non-condensing	10% - 95% RH, non-condensing
Mechanical	Construction	Steel	Steel
	Dimensions (W x H x D)	44 x 231.9 x 152 mm (1.73" x 9" x 5.98")	44 x 231 x 197 mm (1.73" x 9.09" x 7.76")
	Weight (net/gross)	2.5 kg (5.51 lb)/2.9 kg (6.39 lb)	1.64 kg (3.62 lb)/2.54 kg (5.60 lb) (C3338/C3558) 1.64 kg (3.62 lb)/2.69 kg (5.93 lb) (C3758)
OS Support		Win7, WES7, Win8, WEBS, Linux	Yocto, Linux
Certifications		CE/FCC Class B	CE/FCC Class B

Add-on Card

	Module	LAN Chipset	Ports	Copper/Fiber (SFP)	LAN Bypass
1G	AX93316-8GIL	Intel® I350AM4	8	8/0	4
	AX93326-8GIL	Intel® I210AT	8	8/0	4
	AX93316-8GI	Intel® I350AM4	8	8/0	0
	AX93322-8MIL	Intel® I350AM4	8	4/4	2
	AX93322-8FI	Intel® I350AM4	8	0/8	0
	AX93336-4GIL	Intel® I350AM4	4	4/0	2
10G	AX93336-4FI	Intel® I350AM4	4	0/4	0
	AX93327-4FI	Intel® XL710	4	0/4	0
	AX93307-2FI	Intel® 82599ES	2	0/2	0
25G	Module	LAN Chipset	Ports	Copper/Fiber (SFP)	LAN Bypass
	AX93332-25FI	Intel® XXV710	2	0/2	0
40G	Module	LAN Chipset	Ports	Copper/Fiber (SFP)	LAN Bypass
	AX93331-20FI	Intel® XL710	2	0/2	0
100G	Module	LAN Chipset	Ports	Copper/Fiber (SFP)	LAN Bypass
	AX93357	Intel® E810	2	0/2	0
	AX93358	Intel® E810	2	0/2	0

100Gbps Modules



AX93357 PCIe Card - PCIe x16 Gen 4.0

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



AX93358 NIC Module

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

PoE Modules



AX93367 4-port PoE Module

- Intel® Ethernet Controller I350
- IEEE 802.3af/at
- 4 x PoE RJ-45 port
- Supports up to 120W



AX93368 8-port PoE Module

- Intel® Ethernet Controller I350
- IEEE 802.3af/at
- 8 x PoE RJ-45 port
- Supports 30W up to 240W per port

RAID Module



AX98626

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



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