



7

Industrial Server & Cloud Solutions

- ☞ 7-3 SKY Servers
- ☞ 7-11 Edge Accelerator Servers
- ☞ 7-13 Industrial Server Motherboards
- ☞ 7-17 Industrial Server Chassis
- ☞ 7-21 PCI Express Adapters

intel
partner Titanium
IoT
Solutions



Industrial Server & Cloud Solution

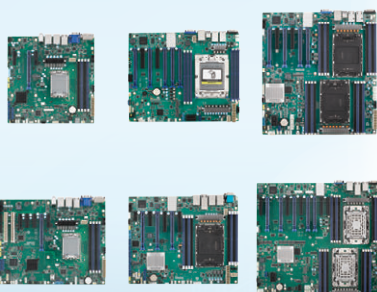
Extending the Cloud to the IoT Edge

Advantech offers an extensive array of server solutions, including server boards, chassis building blocks, and comprehensive barebone systems, tailored to suit the varied demands of the industry. Additionally, we provide customization services, ensuring that our solutions align precisely with your unique requirements. Engineered for exceptional performance and unwavering reliability, our servers are adept at handling a multitude of applications across key sectors including telecommunications, industrial automation, artificial intelligence, network edge computing, and hybrid cloud infrastructures. Our commitment to industrial-grade design, coupled with a promise of up to 10 years of product longevity, positions Advantech as the premier choice for sophisticated and durable server solutions.

■ Up to 10 years Longevity

Building Blocks

Computing Capacity, Expansion Slots, Core Count



Micro-ATX
Server Boards

ATX Server
Boards

EATX/Proprietary
Server Boards

■ Industrial-Grade Design

Barebone System

Edge Servers

Expandable
Accelerator Cards



GPU Servers

GPU Cards
Intensive



HCI Servers

Integrate Computing
& Storage



Telecom Servers

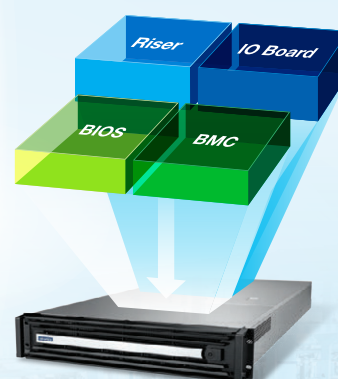
Optimized with 5G
vRAN Hardware
Accelerator



■ Complete Portfolio

Customization

The in-house solution enables quick, flexible
customization and responsive service



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Advantech Server Solutions



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SKY Servers



Model		SKY-602E3	SKY-6100	SKY-620V3
Form Factor		Tower	1U - Rackmount	2U - Rackmount
Processor System	Processor	AMD® EPYC™ Embedded 8004 series server processors	Dual 2nd Gen Intel® Xeon® Scalable processors, TDP up to 140W	Dual 5th/4th Gen Intel® Xeon® Scalable processors
	Chipset	–	Intel® C622	Intel® C741
Memory	Memory Type	6 x DDR5 4800 MHz ECC RDIMM Up to 576GB	8 x DDR4 2933 MHz ECC/RDIMM/LRDIMM Up to 1TB	16 x DDR5 5600 MHz RDIMM Up to 2TB
	Controller	Intel® X710-AT2 (dual 10GbE port)	Intel® X557 10G Base-T + 1 x Intel® I210 Gigabit Ethernet	Intel® X710 10G Base-T + 2 x Intel® I226 2.5Gigabit Ethernet + 1 x Realtek 8211F (dedicated IPMI)
Networking	Port	2 x 10GbE RJ-45 1 x Management port	2 x 10GbE RJ-45 1 x 1GbE RJ-45	2 x 10GbE RJ-45 2 x 2.5GbE RJ-45 1 x RJ-45 for dedicated IPMI
Expansion	Expansion Slots	4 x PCIe 5.0 x16 (FH/10.5" dual slots) 2 x PCIe 5.0 x16 (FH/10.5" dual slots) + 4 x PCIe 5.0 x8 (FH/10.5" single slot)	5 x PCIe 3.0 x16 (FHHL) 1 x PCIe 3.0 x16 (FH, 10.5", dual slots) + 1 x PCIe 3.0 x16 (FHHL)	4 x PCIe 5.0 x16 (FH, 10.5", dual slots) 2 x PCIe 5.0 x16 (FH, 10.5", dual slots) or 4 x PCIe 5.0 x8 (FH, 10.5") 2 x PCIe 5.0 x8 (FHHL)
Storage	2.5" HDD/SSD	2 x 2.5" internal SATA drive bays	2 x 2.5" hot-swappable drives, 2 x SAS/SATA drive bays	8 x hot-swappable 2.5" SAS/SATA/NVMe drive bays
	3.5" HDD	–	–	–
	M.2 SSD	2 x M.2 2280 slot (PCIe/SATA)	1 x M.2 2242 slot (SATA)	2 x M.2 2280/22110 slots (PCIe/SATA)
I/O Connectivity	Front	–	2 x USB 2.0	2 x USB 2.0
	Rear	2 x USB 3.2 Gen 1 1 x VGA	2 x USB 3.2 Gen 1 1 x VGA	2 x USB 3.2 Gen 1 1 x Serial port 1 x VGA
	LED Indicator	Power, LAN, SYS_LED	Power, LAN, SYS_LED	Power, LAN, SYS_LED
	Button	Power, Reset	Power, Reset	Power, Reset
Power Supply		800W 1+0 single power supply or 800W 1+1 redundant power supply	1200W 1+1 platinum level redundant power supply	2700W 1+1 platinum level redundant power supply
Environment	Operating	0 ~ 40°C (32 ~ 104°F)	0 ~ 35°C (32 ~ 95°F)	0 ~ 35°C (32 ~ 95°F)
	Non-Operating	-40 ~ 60°C (-40 ~ 140°F)	-40 ~ 60°C (-40 ~ 140°F)	-20 ~ 60°C (-4 ~ 140°F)
Cooling		1 x 12025 fan or 4 x 8038 fan	6 x 4056 fan + 1 x 4028 fan + 1 x 4028 external fan (optional)	2 x 8038 fan + 4 x 6038 fan
Physical Characteristics	Dimension (W x H x D)	380 x 340 x 570 mm (14.96" x 13.4" x 22.4")	438 x 44 x 650 mm (17.2" x 1.7" x 25.6")	438 x 88 x 760 mm (17.24" x 3.46" x 29.92")
	Weight (N.W.)	16 kg	16 kg	24 kg
OS Support		Windows Server, Linux (CentOS, RedHat, Canonical® Ubuntu)	Windows Server, Linux (CentOS, RedHat, Canonical® Ubuntu)	Windows Server, Linux (CentOS, RedHat, Canonical® Ubuntu)
Platform Management		- ASPEED AST2600 BMC - IPMI 2.0, KVM with shared NIC	- ASPEED AST2500 BMC - IPMI 2.0, KVM with shared NIC	- ASPEED AST2600 BMC - IPMI 2.0, KVM with dedicated NIC
Security		TPM 2.0	TPM 2.0, chassis intrusion, bezel Lock, HDD tray lock	TPM 2.0, chassis intrusion, bezel lock

✓: supported, –: not supported, △: optional

1

Edge Software & Industry Solutions

2

Intelligent HMI & Monitors

3

Automation Computers

4

Intelligent Systems

5

Mission Critical CompactPCI Platforms

6

Intelligent Transportation & Substation Certified Systems

7

Industrial Server & Cloud Solutions

8

AI & Advanced Computer Vision

9

Video Infrastructure Solutions

10

Network & Security Solutions

11

Industrial Communication

12

Industrial Gateways

13

EtherCAT Solutions & Automation Controllers

14

Intelligent Motion Control Solutions

15

Data Acquisition (DAQ) Solutions

16

Remote I/O, Wireless I/O & Sensors

17

Serial/USB Communications

SKY Servers



Model		SKY-6200	SKY-6400	SKY-640V2
Form Factor		2U - Rackmount	4U - Rackmount	4U - Rackmount
Processor System	Processor	Dual 2nd Gen Intel® Xeon® Scalable processors, TDP up to 140W	Dual 2nd Gen Intel® Xeon® Scalable processors, TDP up to 205W	Dual 3rd Gen Intel® Xeon® Scalable processors, TDP up to 205W
	Chipset	Intel® C622	Intel® C621	Intel® C621A
Memory	Memory Type	24 x DDR4 2933 MHz ECC/RDIMM/LRDIMM Up to 3TB	12 x DDR4 2933 MHz ECC/RDIMM/LRDIMM Up to 1.5TB	16 x DDR4 3200 MHz ECC/RDIMM/LRDIMM up to 2TB
Networking	Controller	Intel® X557 10G Base-T + 2 x Intel® I210 Gigabit Ethernet	2 x Intel® I210 Gigabit Ethernet	Intel® X550 10G Base-T + 2 x Intel® I210 Gigabit Ethernet + 1 x Realtek 8201F (dedicated IPMI)
	Port	2 x 10GbE RJ-45 2 x 1GbE RJ-45	2 x 1GbE RJ-45	2 x 10GbE RJ-45 2 x 1GbE RJ-45 1 x RJ-45 for dedicated IPMI
Expansion	Expansion Slots	4 x PCIe 3.0 x16 (FH, 10.5", dual slots) or 8 x PCIe 3.0 x8 (FH, 10.5") 1 x PCIe 3.0 x8 (FHHL)	4 x PCIe 3.0 x16 (FH, 10.5", dual slots) 1 x PCIe 3.0 x8 (FHHL) 1 x PCIe 3.0 x4 (FH, 10.5")	4 x PCIe 4.0 x16 (FH, 10.5", dual slots) 3 x PCIe 4.0 x8 (FHHL)
Storage	2.5" HDD/SSD	8 x hot-swappable 2.5" SAS/SATA drive bays	2 x 2.5" drives (internal)	2 x 2.5" drives (internal)
	3.5" HDD	–	8 x 2.5/3.5" hot-swappable SAS/ SATA drive bays	8 x 2.5/3.5" hot-swappable SAS/SATA drive bays
	M.2 SSD	1 x M.2 2280 slot (PCIe/SATA)	2 x M.2 2242 slots (SATA)	2 x M.2 2280 (PCIe/SATA) on board
I/O Connectivity	Front	Optional ODD 2 x USB 2.0	2 x USB 3.2 Gen1	Optional ODD 2 x USB 3.2 Gen1
	Rear	4 x USB 3.2 Gen 1 1 x VGA	4 x USB 3.2 Gen 1 1 x Serial port 1 x VGA	2 x USB 3.2 Gen1 1 x Serial port 1 x VGA
	LED Indicator	Power, LAN, SYS_LED	Power, LAN, HDD, SYS_LED	Power, LAN, HDD, SYS_LED
	Button	Power, Reset	Power, Reset	Power, Reset, Alarm Reset
Power Supply		2000W 1+1 platinum level redundant power supply	2000W 1+1 platinum level redundant power supply	2000W 1+1 platinum level redundant power supply
Environment	Operating	0 ~ 35°C (32 ~ 95°F)	0 ~ 35°C (32 ~ 85°F) 0 ~ 30°C (32 ~ 85.9°F) with NVIDIA Tesla P100/V100)	0 ~ 35°C (32 ~ 85°F) with NVIDIA A100/A30
	Non-Operating	-20 ~ 60°C (-4 ~ 140°F)	-20 ~ 60°C (-4 ~ 140°F)	-20 ~ 60°C (-4 ~ 140°F)
Cooling		6 x 8038 fan	1 x 3000 fan + 1 x 4028 fan +	2 x CPU fans + 3 x 12038 fans + 2 x 8038 external fans (optional)
Physical Characteristics	Dimension (W x H x D)	438 x 88 x 760 mm (17.24" x 3.46" x 29.92")	435 x 177 x 673 mm (17.12" x 6.96" x 26.49")	435 x 176 x 660 mm (17.12" x 6.9" x 25.9")
	Weight (N.W.)	24 kg	38 kg	34 kg
OS Support		Windows Server, Linux (CentOS, RedHat, Canonical® Ubuntu)	Windows Server, Linux (CentOS, RedHat, Canonical® Ubuntu)	Windows Server, Linux (CentOS, RedHat, Canonical® Ubuntu)
Platform Management		- ASPEED AST2500 BMC - IPMI 2.0, KVM with shared NIC	- ASPEED AST2500 BMC - PMI 2.0, KVM with shared NIC LAN - SUSI API, WISE-PaaS/RMM	- ASPEED AST2500 BMC - IPMI 2.0, KVM with dedicated LAN - SUSI API, WISE-PaaS/RMM
Security		TPM 2.0, chassis intrusion, bezel lock, HDD tray lock	TPM 2.0, chassis intrusion, bezel lock, HDD tray lock	TPM 2.0, chassis intrusion, bezel Lock, HDD tray lock

✓: supported, –: not supported, △: optional

SKY Servers



Model		SKY-7120S	SKY-721E3	SKY-7221	SKY-7232DV2
Form Factor		1U - Rackmount	2U - Rackmount	2U - Rackmount	2U - Rackmount
Processor System	Processor	Intel® Xeon® D-2100 processors, TDP up to 110W	Dual AMD® EPYC™ Embedded 9004 series server processors, TDP up to 400W	Dual 2nd Gen Intel® Xeon® Scalable processors, TDP up to 205W	Dual 3rd Gen Intel® Xeon® Scalable processors, TDP up to 250W
	Chipset	—	—	Intel® C621/C622/C624	Intel® C621A
Memory	Memory Type	4 x DDR4 2666MHz ECC RDIMM/LRDIMM, Up to 512GB (4 x 128GB)	24 x DDR5 4800MHz, ECC/ RDIMM/ LRDIMM, Up to 3TB (24 x 128GB)	24 x DDR4 2933MHz ECC RDIMM/LRDIMM Up to 3TB (24 x 128GB)	32 x DDR4 3200MHz ECC RDIMM/LRDIMM Up to 4TB (32 x 128GB)
	Controller	Intel® XL722 (integrated into D-2100 CPU) 10GbE SFP+ 1 x Intel® i350 Gigabit Ethernet	Intel® XL710 10G Base-T + 2 x Intel® i210 Gigabit Ethernet	Intel® C622/C624 10GbE SFP+ (optional) + 3 x Intel® i210 Gigabit Ethernet	2 x Intel® i210 Gigabit Ethernet
Networking	Port	4 x 10GbE SFP+ 4 x 1GbE RJ-45	2 x 10GbE RJ-45 2 x 1GbE RJ-45	2 x 10GbE SFP+ (optional) 2 x 1GbE RJ-45	2 x 1GbE RJ-45
Expansion	Expansion Slots	2 x PCIe 3.0 x16 (FHFL, 10.5")	2 x PCIe 5.0 x16 (FHFL) 2 x PCIe 5.0 x8 (FHFL) 2 x PCIe 5.0 x8 (FHHL) 2 x PCIe 5.0 x8 (LP) 2 x PCIe 4.0 x8 (LP optional) 1 x PCIe 5.0 x16 OCP 3.0	1 x PCIe 3.0 x16 (FHFL) 4 x PCIe 3.0 x8 (LP) or 2 x PCIe 3.0 x16 (FHFL), 2 x PCIe 3.0 x8 (LP) 1 x PCIe 3.0 x16 - OCP 2.0 NIC	2 x PCIe 4.0 x16 (FHFL) 2 x PCIe 4.0 x8 (FHFL) 2 x PCIe 4.0 x8 (FHHL) 2 x PCIe 4.0 x8 (LP) 2 x PCIe 4.0 x8 (LP optional) 1 x PCIe 4.0 x16 OCP 3.0
Storage	2.5" HDD/SSD	—	—	24 x 2.5" hot-swappable SAS/SATA drive bays	[SKY-7232D2] 24 x 2.5" hot-swappable SAS/SATA drive bays 2 x 2.5" SAS/SATA drive bays (optional)
	3.5" HDD	—	[SKY-721E3-S12] 12 x 2.5"/3.5" hot-swappable SAS/SATA drive bays 2 x 2.5" NVMe drive bays (optional)	12 x 2.5"/3.5" hot-swappable SAS/SATA drive bays	[SKY-7232D3] 12 x 2.5"/3.5" hot-swappable SAS/SATA drive bays 2 x 2.5" NVMe drive bays (optional)
	M.2 SSD	2 x M.2 2280 slots (SATA/PCIe)	2 x M.2 2280 slots (PCIe)	2 x M.2 2280 slots (SATA)	2 x M.2 2280 slots (SATA)
I/O Connectivity	Front	USB 3.2 Gen1, 1 x VGA, 1 x GbE management port, 1 x console port	1 x USB 3.2 Gen1 (upper), 1 x USB 2.0 (lower), 1 x VGA,	2 x USB 2.0	1 x USB 3.2 Gen1 (upper) 1 x USB 2.0 (lower), 1 x VGA
	Rear	—	2 x USB 3.2 Gen1, 1 x VGA, 1 x console, 1 x GbE management port	2 x USB 3.2 Gen1 1 x VGA, 1 x console 1 x GbE management port	2 x USB 3.2 Gen1 1 x VGA, 1 x console 1 x GbE management port
	LED Indicator	Power, Status, UID	Power, ID, Status, HDD activity, Network activity	Power, ID, Info, HDD, 2 x LAN	Power, ID, Status, HDD activity, Network activity
	Button	Power, ID	Power, ID	Power, ID, Reset	Power, ID
Power Supply		AC 550w 1+1 redundant PSU/ DC 800w 1+1 redundant PSU	1200W/2000W 1+1 platinum redundant power supply with PMBus	850W/1200W 1+1 platinum redundant power supply with PMBus	800W/1200W 1+1 platinum redundant power supply with PMBus
Environment	Operating	-5 ~ 55°C (23 ~ 131°F) 95% @ 60°C (non-condensing)	0 ~ 40°C (32 ~ 104°F) 50% @25°C to 95%@40°C (non-condensing)	0 ~ 40°C (32 ~ 104°F) 50% @25°C to 95%@40°C (non-condensing)	0 ~ 40°C (32 ~ 104°F) 50% @25°C to 95%@40°C (non-condensing)
	Non-Operating	-40 ~ 70°C (-40 ~ 158°F) 95% @ 60°C (non-condensing)	-40 ~ 70°C (-40 ~ 158°F) 95% @ 60°C (non-condensing)	-40 ~ 70°C (-40 ~ 158°F) 95% @ 60°C (non-condensing)	-40 ~ 70°C (-40 ~ 158°F) 95% @ 60°C (non-condensing)
Cooling		4 x 4056 fan	4 x 8038 fan with smart fan control	4 x 8038 fan with smart fan control	4 x 8038 fan with smart fan control
Physical Characteristics	Dimension (W x H x D)	438 x 44 x 420 mm (17.2" x 1.73" x 16.5")	438 x 87 x 770 mm (17.2" x 3.46" x 30.3")	448 x 88.4 x 760 mm (17.6" x 3.48" x 30")	438 x 87 x 770 mm (17.2" x 3.46" x 30.3")
	Weight (N.W.)	13 kg	25 kg	25 kg	25 kg
OS Support		Linux (CentOS, Red Hat, Ubuntu), Windows Server	Linux (CentOS, Red Hat, Ubuntu), Windows Server	Linux (CentOS, Red Hat, Ubuntu)	Linux (CentOS, Red Hat, Ubuntu), Windows Server
Platform Management		ASPEED AST2500 BMC/ IPMI 2.0, KVM with shared NIC LAN	ASPEED AST2600 BMC IPMI 2.0, KVM with shared NIC LAN Redfish	ASPEED AST2500 BMC IPMI 2.0, KVM with shared NIC LAN	ASPEED AST2500 BMC IPMI 2.0, KVM with shared NIC LAN Redfish
Security		TPM2.0, Chassis intrusion	TPM 2.0, Chassis intrusion	TPM 2.0	TPM 2.0

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1

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2

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3

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4

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5

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6

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7

Industrial Server & Cloud Solutions

8

AI & Advanced Computer Vision

9

Video Infrastructure Solutions

10

Network & Security Solutions

11

Industrial Communication

12

Industrial Gateways

13

EtherCAT Solutions & Automation Controllers

14

Intelligent Motion Control Solutions

15

Data Acquisition (DAQ) Solutions

16

Remote I/O, Wireless I/O & Sensors

17

Serial/USB Communications

SKY Servers



Model		SKY-7232D3E	SKY-7223D	SKY-7632D
Form Factor		2U - Rackmount	2U - Rackmount	2U - Rackmount
Processor System	Processor	Dual 3rd Gen Intel® Xeon® Scalable processors, TDP up to 205W	Dual 2nd Gen Intel® Xeon® Scalable processors, TDP up to 205W	Dual 3rd Gen Intel® Xeon® Scalable processors, TDP up to 205W
	Chipset	Intel® C621A	Intel® C622 / C626	Intel® C621A
Memory	Memory Type	16 x DDR4 3200Mhz ECC RDIMM/ LRDIMM Up to 2TB (16 x 128GB)	16 x DDR4 2933Mhz, ECC RDIMM/ LRDIMM, Up to 2TB (16 x 128GB)	16 x DDR4 2933Mhz ECC RDIMM/ LRDIMM Up to 2TB (16 x 128GB)
	Controller	2 x Intel® i210 Gigabit Ethernet	Intel® C622 / XL710 10G SFP+ 2 x Intel® i210 Gigabit Ethernet	2 x Intel® i210 Gigabit Ethernet
Networking	Port	2 x 1GbE RJ-45	6 x 10GbE SFP+ 2 x 1GbE RJ-45	2 x 1GbE RJ-45
Expansion	Expansion Slots	3 x PCIe 4.0 x16 (LP) 2 x PCIe 4.0 x8 (LP)	[SKU1] 4 x PCIe 3.0 x16 (FHFL) [SKU2] 2 x PCIe 3.0 x16 (FHFL) + 4 x PCIe 3.0 x8 (FHHL) [SKU3] 2 x PCIe 3.0 x16 (FH, 10.5", dual slots) + 2 x PCIe 3.0 x8 (FHHL)	[SKU1] 3 x PCIe 4.0 x16 (LP) 2 x PCIe 4.0 x8 (LP) [SKU2] 2 x PCIe 4.0 x16 (FHFL, dual slots)
Storage	2.5" HDD/SSD	2 x 2.5" hot-swappable SAS/ SATA/NVMe drive bays (rear, optional)	6 x 2.5" hot-swappable SAS/ SATA drive bays	6 x 2.5" hot-swappable SAS/ SATA drive bays
	3.5" HDD	12 x 2.5"/3.5" hot-swappable SAS/SATA drive bays	–	–
	M.2 SSD	2 x M.2 2280 slots (NVMe)	2 x M.2 2280 slots (SATA/NVMe)	2 x M.2 2280 slots (NVMe)
I/O Connectivity	Front	2 x USB 3.2 Gen1	2 x USB 3.2 Gen1, 1 x VGA, 1 x console, 1 x GbE management port	5 x USB 3.2 Gen1, 1 x VGA, 1 x console, 1 x GbE management port
	Rear	4 x USB 3.2 Gen1 1 x VGA, 1 x console 1 x GbE management port	–	–
	LED Indicator	Power, ID, Status, HDD activity, LAN1/LAN2 activity	Power, ID, Status	Power, ID, Status, HDD activity, LAN1/LAN2 activity
	Button	Power, ID, Reset	Power, ID	Power, ID, Reset
Power Supply		800W 1+1 platinum redundant power supply with PMBus	800W/1200W 1+1 platinum redundant power supply with PMBus	800W/1200W 1+1 platinum redundant power supply with PMBus
Environment	Operating	0 ~ 40°C (32 ~ 104°F) 50% @25°C to 95% @40°C (non-condensing)	-5 ~ 45°C (23 ~ 113°F) 50% @25°C to 95% @40°C (non-condensing)	-5 ~ 45°C (23 ~ 113°F) 50% @25°C to 95% @40°C (non-condensing)
	Non-Operating	-40 ~ 70°C (-40 ~ 158°F) 95% @ 60°C (non-condensing)	-40 ~ 70°C (-40 ~ 158°F) 95% @ 60°C (non-condensing)	-40 ~ 70°C (-40 ~ 158°F) 95% @ 60°C (non-condensing)
Cooling		3 x 8038 fan with smart fan control	4 x 8038 fan with smart fan control	4 x 8038 fan with smart fan control
Physical Characteristics	Dimension (W x H x D)	438 x 87 x 658 mm (17.2" x 3.46" x 25.9")	438 x 88 x 440 mm (17.26" x 3.46" x 17.3")	438 x 87 x 450 mm (17.2" x 3.42" x 17.7")
	Weight (N.W.)	25 kg	15 kg	15 kg
OS Support		Linux (CentOS, Red Hat, Ubuntu), Windows Server	Linux (CentOS, Red Hat, Ubuntu), Windows Server	Linux (CentOS, Red Hat, Ubuntu), Windows Server
Platform Management		- ASPEED AST2600 BMC - IPMI 2.0, KVM with shared NIC LAN - Redfish	- ASPEED AST2500 BMC - IPMI 2.0, KVM with shared NIC LAN - Redfish	- ASPEED AST2600 BMC - IPMI 2.0, KVM with shared NIC LAN - Redfish
Security		TPM 2.0, Chassis intrusion	TPM 2.0	TPM 2.0, chassis intrusion

✓: supported, –: not supported, △: optional

SKY Servers



Model		SKY-820V3	SKY-8201L	SKY-8201
Form Factor		2U - Rackmount	2U - Rackmount	2U - Rackmount
Processor System	Processor	Dual 5th/4th Gen Intel® Xeon® Scalable processors, TDP up to 250W	Dual 2nd Gen Intel® Xeon® Scalable processors, TDP up to 205W	Dual 2nd Gen Intel® Xeon® Scalable processors, TDP up to 205W
	Chipset	Intel® C741	Intel® C621/C622	Intel® C621/C622
Memory	Memory Type	16 x DDR5 5600 Mhz ECC/RDIMM/LRDIMM Up to 2TB	16 x DDR4 2933 Mhz ECC/RDIMM/LRDIMM Up to 2TB	16 x DDR4 2933 Mhz ECC/RDIMM/LRDIMM Up to 2TB
	Controller	Intel® X710 10G SFP+ 2 x Intel® I210 Gigabit Ethernet	Intel® C622 10G SFP+ 2 x Intel® i210 Gigabit Ethernet	Intel® C622 10G SFP+ 2 x Intel® i210 Gigabit Ethernet
Networking	Port	2 x 10GbE SFP+ 2 x 1GbE RJ-45	2 x 10GbE SFP+ 2 x 1GbE RJ-45	2 x 10GbE SFP+ 2 x 1GbE RJ-45
Expansion	Expansion Slots	2 x PCIe 5.0 x16 (FHFL) 2 x PCIe 5.0 x8 (FHHL)	[SKU1] 4 x PCIe 3.0 x8 (FHFL) 2 x PCIe 3.0 x8 (LP) [SKU2] 2 x PCIe 3.0 x16 (FHFL) 2 x PCIe 3.0 x8 (FHHL) 2 x PCIe 3.0 x8 (LP)	[SKU1] 4 x PCIe 3.0 x8 (FHFL) 2 x PCIe 3.0 x8 (FHHL) 2 x PCIe 3.0 x8 (LP) [SKU2] 2 x PCIe 3.0 x16 (FHFL) 2 x PCIe 3.0 x8 (LP)
Storage	2.5" HDD/SSD	6 x 2.5" hot-swappable SAS/SATA drive bays 4 x NVMe (optional)	[SKY-8201L2] 24 x 2.5" hot-swappable SAS/SATA drive bays 4 x 2.5" hot-swappable NVMe SSD trays (optional)	4 x 2.5" SAS/SATA drive bays
	3.5" HDD	–	[SKY-8201L1] 12 x 2.5"/3.5" hot-swappable SAS/SATA drive bays 4 x 2.5" hot-swappable NVMe SSD trays (optional)	–
	M.2 SSD	2 x M.2 2280 slots (SATA/NVMe)	1 x M.2 2280 slot (SATA/PCIe)	1 x M.2 2280 slot (SATA/PCIe)
I/O Connectivity	Front	3 x USB 3.2 Gen1, 1 x VGA, 1 x console, 1 x GbE management port	2 x USB 2.0	2 x USB 2.0
	Rear	–	1 x DisplayPort, 1 x VGA, 2 x USB 3.2 Gen1, 1 x GbE management port	1 x VGA, 1 x DisplayPort, 2 x USB 3.2 Gen1
	LED Indicator	Power, ID, Status, HDD activity, LAN1/LAN2 activity	Power, Status	Power, ID, Status
	Button	Power, ID, Reset	Power	Power, ID
Power Supply		800W/1200W 1+1 platinum redundant power supply with PMBus	AC 1200W 1+1 platinum redundant power supply with PMBus	AC 1200W / DC 800W 1+1 redundant power supply with PMBus
Environment	Operating	-5 ~ 45°C (23 ~ 113°F) 50% @25°C to 95% @40°C (non-condensing)	0 ~ 40°C (32 ~ 104°F) 0% @25°C to 95% @40°C (non-condensing)	-5 ~ 55°C (23 ~ 131°F) 50% @25°C to 95% @40°C (non-condensing)
	Non-Operating	-40 ~ 70°C (-40 ~ 158°F) 95% @ 60°C (non-condensing)	-40 ~ 70°C (-40 ~ 158°F) 95% @ 60°C (non-condensing)	-40 ~ 70°C (-40 ~ 158°F) 95% @ 60°C (non-condensing)
Cooling		4 x 8038 fan with smart fan control	4 x 8038 fan with smart fan control	6 x 8038 fan with smart fan control
Physical Characteristics	Dimension (W x H x D)	438 x 87 x 450 mm (17.2" x 3.42" x 17.7")	438.4 x 88.1 x 699.8 mm (17.26" x 3.46" x 27.5")	430 x 88.6 x 508 mm (16.9" x 3.48" x 20")
	Weight (N.W.)	15 kg	25 kg	18 kg
OS Support		Linux (CentOS, Red Hat, Ubuntu), Windows Server	Linux (CentOS, Red Hat, Ubuntu), Windows Server	Linux (CentOS, Red Hat, Ubuntu), Windows Server
Platform Management		- ASPEED AST2600 BMC - IPMI 2.0, KVM with shared NIC LAN - Redfish	- ASPEED AST2500 BMC - IPMI 2.0, KVM with shared NIC LAN - Redfish	- ASPEED AST2500 BMC - IPMI 2.0, KVM with shared NIC LAN
Security		TPM 2.0, chassis intrusion	TPM 1.2/2.0	TPM 1.2 / 2.0

✓: supported, –: not supported, △: optional

1

Edge Software & Industry Solutions

2

Intelligent HMI & Monitors

3

Automation Computers

4

Intelligent Systems

5

Mission Critical CompactPCI Platforms

6

Intelligent Transportation & Substation Certified Systems

7

Industrial Server & Cloud Solutions

8

AI & Advanced Computer Vision

9

Video Infrastructure Solutions

10

Network & Security Solutions

11

Industrial Communication

12

Industrial Gateways

13

EtherCAT Solutions & Automation Controllers

14

Intelligent Motion Control Solutions

15

Data Acquisition (DAQ) Solutions

16

Remote I/O, Wireless I/O & Sensors

17

Serial/USB Communications

SKY Servers



Model		SKY-821E3	SKY-8232DV2	SKY-8260SV2
Form Factor		2U - Rackmount	2U - Rackmount	2U - Rackmount
Processor System	Processor	Dual AMD® EPYC™ Embedded 9004 series server processors, TDP up to 400W	Dual 3rd Gen Intel® Xeon® Scalable processors, TDP up to 250W	AMD® EPYC™ Embedded 7003/7002 series server processors, TDP up to 180W
	Chipset	–	Intel® C621A	–
Memory	Memory Type	24 x DDR5 4800MHz RDIMM/3DS RDIMM	32 x DDR4 3200Mhz ECC/RDIMM/LRDIMM Up to 4TB	16 x DDR4 3200MHz ECC/RDIMM/LRDIMM Up to 2TB
	Controller	–	2 x Intel® i210 Gigabit Ethernet	2 x Intel® i210 Gigabit Ethernet
Networking	Port	2 x 10GbE RJ-45 (1GbE RJ-45 Mgmt Share NIC)	2 x 1GbE RJ-45	2 x 1GbE RJ-45
Expansion	Expansion Slots	4 x PCIe 5.0 x16 (FHFL) 2 x PCIe 5.0 x8 2 x PCIe 5.0 x8 2 x PCIe 5.0 x8 (LP)	4 x PCIe 4.0 x16 (FHFL) 2 x PCIe 4.0 x8 (LP) 1 x OCP 3.0 PCIe 4.0 x16	4 x PCIe 4.0 x16 (FHFL) 2 x PCIe 4.0 x8 (LP) 1 x OCP 3.0 PCIe 4.0 x16
Storage	2.5" HDD/SSD	2 x 2.5" SAS/SATA drive bays	2 x 2.5" SAS/SATA drive bays	2 x 2.5" SATA SSD (Internal)
	3.5" HDD	–	–	–
	M.2 SSD	2 x M.2 2280 slots (NVMe)	2 x M.2 2280 slots (SATA/SSD)	2 x 2280 M.2 slots (SATA3/PCIe)
I/O Connectivity	Front	1 x USB 3.0 (upper port) 1 x USB 2.0 (lower port)	1 x USB 3.2 Gen1 (upper), 1 x USB 2.0 (lower), 1 x VGA	1 x USB 3.2 Gen1 (upper), 1 x USB 2.0 (lower), 1 x VGA
	Rear	2 x USB 3.0	2 x USB 3.2 Gen1, 1 x VGA, 1 x console, 1 x GbE management port	2 x USB 3.2 Gen1, 1 x VGA, 1 x console, 1 x GbE management port
	LED Indicator	Power, ID, Status, HDD activity, Network activity	Power, ID, Status, HDD activity, Network activity	Power, ID, Status, HDD activity, Network activity
	Button	Power, ID	Power, ID	Power, ID
Power Supply		AC 1200W platinum redundant power supply with PMBus	AC 1200W / DC 800W 1+1 platinum redundant power supply with PMBus	AC 1200W / DC 800W 1+1 platinum redundant power supply with PMBus
Environment	Operating	0 ~ 35°C (32 ~ 104°F) 0% @25°C to 95% @40°C 95% @ 40°C (non condensing)	-5 ~ 55°C (23 ~ 131°F) 0% @25°C to 95% @40°C (non-condensing)	-5 ~ 40°C (23 ~ 104°F) 50% @ 25°C to 95% @ 40°C (non condensing)
	Non-Operating	-40 ~ 70°C (-40 ~ 158°F) 95% @ 60°C (non-condensing)	-40 ~ 70°C (-40 ~ 158°F) 95% @ 60°C (non-condensing)	-40 ~ 70°C (-40 ~ 158°F) 95% @ 60°C (non-condensing)
Cooling		4 x system FAN with smart FAN control	6 x high speed fans (N+1 redundant)	6 x high speed fans (N+1 redundant)
Physical Characteristics	Dimension (W x H x D)	438 x 88 x 597 mm (17.2" x 3.46" x 23.5")	436.6 x 87 x 533 mm (17.19" x 3.48" x 20.9")	436.6 x 87 x 533 mm (17.19" x 3.48" x 20.9")
	Weight (N.W.)	18 kg	18 kg	18 kg
OS Support		Linux (CentOS, Red Hat, Ubuntu)	Linux (CentOS, Red Hat, Ubuntu)	Linux (CentOS, Red Hat, Ubuntu)
Platform Management		- ASPEED AST2600 BMC - IPMI 2.0, KVM with shared NIC LAN - Redfish	- ASPEED AST2500 BMC - IPMI 2.0, KVM with shared NIC LAN - Redfish	- ASPEED AST2500 BMC - IPMI 2.0, KVM with shared NIC LAN - Redfish
Security		TPM 2.0	TPM 2.0	TPM 2.0

✓: supported, –: not supported, △: optional

SKY Servers



Model		SKY-8132S	SKY-8132S-11	SKY-8134S-11	SKY-8134DU
Form Factor		1U - Rackmount	1U - Rackmount	1U - Rackmount	1U - Rackmount
Processor System	Processor	3rd Gen Intel® Xeon® Scalable processors	3rd Gen Intel® Xeon® Scalable processors, TDP up to 225W	5th/4th Gen Intel® Xeon® Scalable processors, TDP up to 225W	Dual 5th/4th Gen Intel® Xeon® Scalable processors, TDP up to 185W
	Chipset	Intel® C62xA series	Intel® C62xA series	Intel® C741	Intel® C741
Memory	Memory Type	8 x DDR4 3200MHz ECC/RDIMM/LRDIMM Up to 512G	8 x DDR4 3200MHz ECC/RDIMM/LRDIMM Up to 512G	8 x DDR5 5600MHz RDIMM Up to 512G	32 x DDR5 5200MHz RDIMM Up to 2TB
	Controller	1 x Intel® i210 Gigabit Ethernet	2 x Intel® i210 Gigabit Ethernet	2 x Intel® i210 Gigabit Ethernet	2 x Intel® i210 Gigabit Ethernet
Networking	Port	1 x GbE LAN RJ-45	2 x 1GbE SFP	Up to 16 x SFP28 ports w/ timing sync support	2 x 1GbE RJ-45
	Expansion Slots	2 x PCIe 4.0 x16 (FHFL) and 2 x PCIe 4.0 x16 slots (FHHL)	2 x PCIe 4.0 x16 (FHHL) 1 x PCIe 4.0 x16 (LP)	1 x PCIe 5.0 x16 (FHHL)	2 x PCIe 5.0 x16 (FH, 10.5"L) 1 x OCP3.0
Storage	2.5" HDD/SSD	4 x 2.5" SATA3/NVMe U.2 (Optional)	1 x 2.5" SATA3/NVMe U.2 SSD (depends on SKU)	–	12 x 2.5" hot-swappable SATA/NVMe drive bays
	3.5" HDD	–	–	–	–
	M.2 SSD	2 x M.2 2280 slots (SATA/PCIe)	2 x M.2 2280 slots (SATA/PCIe)	2 x M.2 2280 slots (SATA/PCIe)	2 x M.2 2280 slots (SATA/NVMe)
I/O Connectivity	Front	2 x USB 3.2 Gen1	2 x USB 3.2 Gen1, 1 x console	2 x USB 3.2 Gen1, 1 x console	1 x USB 3.2 Gen1
	Rear	1 x USB 3.2 Gen1	–	–	2 x USB 3.2 Gen1
	LED Indicator	Power, ID, Critical, Major, Minor, status LEDs	Power, Status, Alarm	Power, Status, Alarm	Power, ID
	Button	Power, ID	–	–	Power, ID
Power Supply		700W AC/DC	800W D/D power brick	800W D/D power brick	1200W 1+1 platinum redundant power supply with PMBus
Environment	Operating	-5 ~ 55°C (23 ~ 131°F)	-40 ~ 65°C (-40 ~ 149°F) Depends on CPU model and configuration 50% @ 25°C to 95% @ 40°C (non-condensing)	-40 ~ 65°C (-40 ~ 149°F) Depends on CPU model and configuration 50% @ 25°C to 95% @ 40°C (non-condensing)	0 ~ 40°C (32 ~ 104°F) 50% @ 25°C to 95% @ 40°C (non-condensing)
	Non-Operating	-40 ~ 70°C (-40 ~ 158°F)	-40 ~ 70°C (-40 ~ 158°F) 95% @ 60°C (non-condensing)	-40 ~ 70°C (-40 ~ 158°F) 95% @ 60°C (non-condensing)	-40 ~ 70°C (-40 ~ 158°F) 95% @ 60°C (non-condensing)
Cooling		5 x high speed fans with smart fan control	9 x high speed fans with smart fan control (N+1 redundant)	9 x high speed fans with smart fan control (N+1 redundant)	8 x 4056 fan with Smart FAN control
Physical Characteristics	Dimension (W x H x D)	438 x 517.2 x 43.5 mm (17.2" x 20.4" x 1.74")	445 x 43.8 x 292 mm (17.5" x 1.73" x 11.5")	443 x 44 x 290 mm (17.4" x 1.73" x 11.4")	438 x 44 x 788 mm (17.26" x 1.74" x 31.02")
	Weight (N.W.)	15 kg	8 kg	8 kg	20 kg
OS Support		Linux (CentOS, Red Hat), Windows Server	Linux (CentOS, Red Hat), Windows Server	Linux (CentOS, Red Hat), Windows Server	Linux (CentOS, Red Hat), Windows Server
Platform Management		ASPEED AST2500 BMCIPMI 2.0, KVM with shared NIC LAN	ASPEED AST2500 BMC IPMI 2.0, KVM with shared NIC LAN	ASPEED AST2600 BMC IPMI 2.0, KVM with shared NIC LAN	ASPEED AST2600 BMC IPMI 2.0, KVM with shared NIC LAN
Security		TPM 2.0	TPM 2.0	TPM 2.0	TPM 2.0, chassis intrusion, bezel Lock

✓: supported, –: not supported, △: optional

1

Edge Software & Industry Solutions

2

Intelligent HMI & Monitors

3

Automation Computers

4

Intelligent Systems

5

Mission Critical CompactPCI Platforms

6

Intelligent Transportation & Substation Certified Systems

7

Industrial Server & Cloud Solutions

8

AI & Advanced Computer Vision

9

Video Infrastructure Solutions

10

Network & Security Solutions

11

Industrial Communication

12

Industrial Gateways

13

EtherCAT Solutions & Automation Controllers

14

Intelligent Motion Control Solutions

15

Data Acquisition (DAQ) Solutions

16

Remote I/O, Wireless I/O & Sensors

17

Serial/USB Communications

SKY Servers



Model		SKY-8234D	SKY-9232D3	SKY-9234S3
Form Factor		2U - Rackmount	2U - Rackmount	2U - Rackmount
Processor System	Processor	Dual 5th/4th Gen Intel® Xeon® Scalable processors, TDP up to 225W	Single/Dual 3rd Gen Intel® Xeon® Scalable processors (per node)	5th/4th Gen Intel® Xeon® Scalable processors (per node), TDP up to 250W
	Chipset	Intel® C741	Intel® C621A	Intel® C741
Memory	Memory Type	32 x DDR5 ECC/RDIMM/Intel® Optane	8 x DDR4 DIMM per CPU	8 x DDR5 5600MHz ECC/RDIMM/LRDIMM up to 2TB
	Controller	2 x Intel® i210- Gigabit Ethernet	–	–
Networking	Port	2 x 1GbE management ports, 1 x RJ-45 console	1 x GbE management port per node	1 x GbE management port per node
Expansion	Expansion Slots	4 x PCIe x16 5.0 (FHFL) and 2 x PCIe 5.0 x8 (LP) Or 2 x PCIe 5.0 x16 (FHHL) and 2 x PCIe 5.0 x8 (FHFL) and 2 x PCIe 5.0 x8 (FHHL) and 2 x PCIe 5.0 x8 (LP)	1 x PCIe 4.0 x16 (HHHL) (per node) 1 x PCIe 3.0 OCP 2.0 x8 (per node)	1 x PCIe 5.0 x16 (HHHL) (per node) 1 x PCIe 5.0 x16 OCP 3.0 (per node)
Storage	2.5" HDD/SSD	4 x 2.5" SATA3	1 x 2.5" NVMe SSD (per node)	1 x 2.5" NVMe SSD (per node)
	3.5" HDD	–	12 x Hot-Swappable 3.5" HDD trays (3 x HDD trays per Node)	12 x Hot-Swappable 3.5" SATA/HDD trays (3 x HDD trays per Node)
	M.2 SSD	2 x M.2 2280 (NVMe/SATA)	2 x M.2 2280 (NVMe/SATA)	2 x M.2 2280 (NVMe/SATA)
I/O Connectivity	Front	2 x USB 3.2 Gen1 1 x VGA	–	–
	Rear	2 x USB 3.2 Gen1 Rear 1 x OCP3.0	1 x USB 3.2 Gen1 Type-A + 1 x VGA + 1 x Console (per node)	1 x USB 3.2 Gen1 Type-A + 1 x MiniDP + 1 x Console (per node)
	LED Indicator	Power, ID, Critical, Major, Minor, status LEDs	Power status LED (integrated in Power button) HDD activity/status LED Network activity LEDs UID LED (integrated in UID button) Information LED	Power status LED (integrated in Power button) HDD activity/status LED Network activity LEDs UID LED (integrated in UID button) Information LED
	Button	Power, ID	Power, UID	Power, UID
Power Supply		1200W AC / 800W DC PSU	Redundant AC 2000W (Redundant power limitation for 100-127V _{AC} is up to 1000W)	Redundant AC 2000W (Redundant power limitation for 100-127V _{AC} is up to 1000W)
Environment	Operating	-5 ~ 55°C (23 ~ 131°F)	5 ~ 35°C (41 ~ 95°F) / 5% to 95% @ 35°C	5 ~ 35°C (41 ~ 95°F) / 5% to 95% @ 35°C
	Non-Operating	-40 ~ 70°C (-40 ~ 158°F)	-40 ~ 60°C / 5% to 95% @ 60°C	-40 ~ 60°C / 5% to 95% @ 60°C
Cooling		6 x 6056 N+1 redundant fan with smart fan control	4 x 8 cm (8076) hot-swappable dual-rotor PWM fans with fan speed control	4 x 8 cm (8076) hot-swappable dual-rotor PWM fans with fan speed control
Physical Characteristics	Dimension (W x H x D)	436.6 x 87 x 533 mm (17.19" x 3.48" x 20.9")	438 x 87.5 x 810 mm (172.4" x 34.4" x 318.9")	438 x 87.5 x 810 mm (172.4" x 34.4" x 318.9")
	Weight (N.W.)	18 kg	50 kg	30 kg (w/o peripherals)
OS Support		Linux (CentOS, Red Hat), Windows Server	–	–
Platform Management		▪ ASPEED AST2600 BMCIPMI 2.0, KVM with shared NIC LAN	▪ Aspeed AST2500 Carrier Grade BMC (IPMI v2.0 compliant) with fail-safe updates, web Interface, KVM, Redfish (Advantech IPMI Core)	▪ Aspeed AST2600 Carrier Grade BMC (IPMI v2.0 compliant) with fail-safe updates, web Interface, KVM, Redfish (Advantech IPMI Core)
Security		TPM 2.0	TPM 2.0	TPM 2.0 on board

✓: supported, –: not supported, △: optional

Edge Accelerator Servers



Model		HPC-6120+ ASMB-610V3	HPC-6240+ ASMB-622V3	HPC-7420+ ASMB-977
Form Factor		1U - Rackmount	2U - Rackmount	4U - Rackmount
Processor System	Processor	Intel® Core™ processors (14th/13th/12th Gen)	5th/4th Gen Intel® Xeon® Scalable processors	Dual 5th/4th Gen Intel® Xeon® Scalable processors
	Chipset	Intel® W680	Intel® C741	Intel® C741
Memory	Memory Type	4 x DDR5 up to 4400 MHz ECC/non-ECC UDIMM, up to 128GB	16 x DDR5 up to 5600 MHz RDIMM, up to 1TB, Intel® Optane DCPMM	16 x DDR5 up to 5600 MHz RDIMM, up to 2TB, Intel® Optane DCPMM
Networking	Controller	1 x Intel® I350AM4	1 x Intel® I350AM4	2 x Intel® I210AT 1 x Intel® X710
	Port	4 x GbE RJ-45	4 x GbE RJ-45	4 x 10GbE RJ-45
Expansion	Expansion Slots	1 x PCIe 5.0 x16 or 2 x PCIe 5.0 x8 (FH, 10.5" L) 2 x PCIe 4.0 x4 (LP)	4 x PCIe 5.0 x8 or 2 x PCIe 5.0 x16 (FH, 10.5" L) 4 x PCIe 5.0 x8 (FHHL)	5 x PCIe 5.0 x16 (FHFL) 5 x PCIe 4.0 x8 (FHFL)
Storage	2.5" HDD/SSD	2 x 2.5" hot-swappable SAS/SATA/SSD drive bays	4 x 2.5" hot-swappable SAS/SATA/SSD drive bays	2 x 2.5" SAS/SATA/SSD hot-swappable drive bays (optional)
	3.5" HDD	–	–	2 x 3.5" SATA drive
	M.2 SSD	1 x M.2 2280/22110 slot (SATA/NVMe)	2 x M.2 2280/22110 slots (SATA/NVMe)	1 x M.2 2280 slot (SATA/NVMe) 1 x M.2 2280 slot (NVMe)
I/O Connectivity	Front	2 x USB 3.2 Gen1	2 x USB 3.2 Gen1	4 x 10GbE RJ-45 2 x USB 3.2 Gen1 1 x RS-232
	Rear	4 x GbE RJ-45 2 x USB 3.2 Gen2 1 x RS-232 1 x VGA 1 x IPMI RJ-45	4 x GbE RJ-45 2 x USB 3.2 Gen2 1 x RS-232 1 x VGA 1 x IPMI RJ-45	–
	LED Indicator	System Power System Information LAN1~LAN4 HDD power HDD activity LED	System Power System Information LAN1~LAN4 HDD power HDD activity LED	System Power LAN1, LAN2, System temperature System fan. HDD Power HDD Activity LED
	Button	Power	Power	–
Power Supply		500W Single PSU 650W 1+0 non-redundant PSU	1200W 1+1 redundant or 1200W 1+0 non-redundant PSU	850W single PSU or 1200W 1+0 non-redundant PSU
Environment	Operating	0 ~ 40°C (32 ~ 104°F)	0 ~ 40°C (32 ~ 104°F)	0 ~ 50°C (32 ~ 122°F)
	Non-Operating	-40 ~ 70°C (-40 ~ 158°F)	-40 ~ 70°C (-40 ~ 158°F)	-40 ~ 70°C (-40 ~ 158°F)
Cooling		3 x 4056 and 2 x 4028 Fan with Smart Fan Control	3 x 8038 and 1 x 6038 Fan with Smart Fan Control	3 x 12038 or 3 x 8025 Fan with Smart Fan Control
Physical Characteristics	Dimension (W x H x D)	438 x 44 x 480 mm (17.24" x 1.73" x 18.9")	438 x 88 x 523 mm (17.24" x 3.46" x 20.59")	438 x 177 x 450 mm (17.24" x 6.97" x 17.7")
	Weight (N.W.)	8.5 kg	12.4 kg	16 kg
OS Support		10 ~ 95%, non-condensing	10 ~ 95%, non-condensing	10 ~ 95%, non-condensing
Platform Management		- ASPEED AST2600 BMC - IPMI 2.0, KVM with shared NIC LAN	- ASPEED AST2500 BMC - IPMI 2.0, KVM with shared NIC LAN	- ASPEED AST2600 BMC - IPMI 2.0, KVM with shared NIC LAN
Security		TPM 2.0	TPM 2.0	TPM 2.0

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1

Edge Software & Industry Solutions

2

Intelligent HMI & Monitors

3

Automation Computers

4

Intelligent Systems

5

Mission Critical CompactPCI Platforms

6

Intelligent Transportation & Substation Certified Systems

7

Industrial Server & Cloud Solutions

8

AI & Advanced Computer Vision

9

Video Infrastructure Solutions

10

Network & Security Solutions

11

Industrial Communication

12

Industrial Gateways

13

EtherCAT Solutions & Automation Controllers

14

Intelligent Motion Control Solutions

15

Data Acquisition (DAQ) Solutions

16

Remote I/O, Wireless I/O & Sensors

17

Serial/USB Communications

Edge Accelerator Servers



Model		☞ HPC-6120+ ASMB-610	☞ HPC-6240+ ASMB-622	☞ HPC-7420+ ASMB-976
Form Factor		1U - Rackmount	2U - Rackmount	4U - Rackmount
Processor System	Processor	Intel® Xeon® W processors	Dual 3rd Gen Intel® Xeon® Scalable processors	Dual 3rd Gen Intel® Xeon® Scalable processors
	Chipset	Intel® W480E	Intel® C621	Intel® C621
Memory	Memory Type	4 x DDR4 up to 2933 MHz ECC/non-ECC UDIMM, up to 128GB	16 x DDR4 up to 3200 MHz RDIMM, up to 1TB, Intel® Optane DCPMM	16 x DDR4 up to 3200 MHz RDIMM, up to 2TB, Intel® Optane DCPMM
	Controller	1 x Intel® I350AM4	1 x Intel® I350AM4	2 x Intel® I210AT 1 x Intel® X550-AT2
Networking	Port	4 x GbE RJ-45	4 x GbE RJ-45	4 x 10GbE RJ-45
	Expansion Slots	1 x PCIe 3.0 x16 or 2 x PCIe 3.0 x8 (FH, 10.5" L) 2 x PCIe 3.0 x4 (LP)	4 x PCIe 4.0 x16 (FH, 10.5" L) 4 x PCIe 4.0 x8 (FHH)	4 x PCIe 4.0 x16 (FHFL) 7 x PCIe 4.0 x8 (FHFL)
Storage	2.5" HDD/SSD	2 x 2.5" hot-swappable SAS/SATA/SSD drive bays	4 x 2.5" hot-swappable SAS/SATA/SSD drive bays	2 x 2.5" SAS/SATA/SSD hot-swappable drive bays (optional)
	3.5" HDD	–	–	2 x 3.5" SATA drive
	M.2 SSD	1 x M.2 2280 slot (SATA/NVMe)	1 x M.2 2280 slot (SATA/NVMe)	1 x M.2 2280 slot (SATA/NVMe) 1 x M.2 2280 slot (NVMe)
I/O Connectivity	Front	2 x USB 3.2 Gen1	2 x USB 3.2 Gen1	4 x 10GbE RJ-45 2 x USB 3.2 Gen1 1 x RS-232
	Rear	4 x GbE RJ-45 2 x USB 3.2 Gen2 1 x RS-232 1 x VGA 1 x IPMI RJ-45	4 x GbE RJ-45 2 x USB 3.2 Gen2 1 x RS-232 1 x VGA 1 x IPMI RJ-45	–
	LED Indicator	System Power System Information LAN1~LAN4 HDD power HDD activity LED	System Power System Information LAN1~LAN4 HDD power HDD activity LED	System Power LAN1, LAN2, System temperature System fan. HDD Power HDD Activity LED
	Button	Power	Power	–
Power Supply		500W Single PSU 650W 1+0 non-redundant PSU	1200W 1+1 redundant or 1200W 1+0 non-redundant PSU	850W single PSU or 1200W 1+0 non-redundant PSU
Environment	Operating	0 ~ 40°C (32 ~ 104°F)	0 ~ 40°C (32 ~ 104°F)	0 ~ 50°C (32 ~ 122°F)
	Non-Operating	-40 ~ 70°C (-40 ~ 158°F)	-40 ~ 70°C (-40 ~ 158°F)	-40 ~ 70°C (-40 ~ 158°F)
Cooling		3 x 4056 and 2 x 4028 Fan with Smart Fan Control	3 x 8038 and 1 x 6038 Fan with Smart Fan Control	3 x 12038 or 3 x 8025 Fan with Smart Fan Control
Physical Characteristics	Dimension (W x H x D)	438 x 44 x 480 mm (17.24" x 1.73" x 18.9")	438 x 88 x 523 mm (17.24" x 3.46" x 20.59")	438 x 177 x 450 mm (17.24" x 6.97" x 17.7")
	Weight (N.W.)	8.5 kg	12.4 kg	16 kg
OS Support		10 ~ 95%, non-condensing	10 ~ 95%, non-condensing	10 ~ 95%, non-condensing
Platform Management		- ASPEED AST2600 BMC - IPMI 2.0, KVM with shared NIC LAN	- ASPEED AST2500 BMC - IPMI 2.0, KVM with shared NIC LAN	- ASPEED AST2500 BMC - IPMI 2.0, KVM with shared NIC LAN
Security		TPM 2.0	TPM 2.0	TPM 2.0

✓ : supported, – : not supported, △ : optional

Industrial Server Motherboards



Model		ASMB-561	ASMB-586	ASMB-786	ASMB-587
Form Factor		MicroATX	MicroATX	ATX	MicroATX
Processor System	CPU	AMD® EPYC™ Embedded 8004 series server processors	Intel® Xeon® E processor & Intel® Core™ processors (9th/8th Gen)	Intel® Xeon® E processor & Intel® Core™ processors (9th/8th Gen)	Intel® Xeon® W processor & Intel® Core™ processors (10th Gen)
	Socket	1 x LGA 4844	1 x LGA 1151	1 x LGA 1151	1 x LGA 1200
	Max. Speed	3.1GHz	3.7 GHz	3.7 GHz	3.7 GHz
	UPI	–	–	–	–
	Chipset	–	Intel® C246	Intel® C246	Intel® W480E
	BIOS	AMI 512Mbit	AMI 256Mbit	AMI 256Mbit	AMI 256Mbit
Expansion Slots	PCI	–	–	–	–
	PCIe x16	4 (Gen5)	1	1 Switchable to two x8	1 (Gen4)
	PCIe x8	–	–	2 Switchable to one x16	–
	PCIe x4	–	2	2	2 (Gen4)
	PCIe x1	–	1	3	–
Memory	Technology	DDR5 RDIMM up to 4800 MHz	DDR4 ECC/non-ECC UDIMM up to 2666 MHz	DDR4 ECC/non-ECC UDIMM up to 2666 MHz	DDR4 ECC/non-ECC UDIMM up to 2933 MHz
	Max. Capacity	1.5TB	64 GB	64 GB	128 GB
	Socket	6 x 288-pin DIMM	4 x 288-pin DIMM	4 x 288-pin DIMM	4 x 288-pin DIMM
Graphics	Controller	AST2600	Intel® GT2-HD Graphics	Intel® GT2-HD Graphics	Intel® GT2-HD Graphics
Ethernet	Controller	2 x Intel® I226LM 1 x Intel® X710 (T2 SKU) 1 x Realtek 8211F	1 x Intel® I219LM 3 x Intel® I210AT (G4 SKU)	1 x Intel® I219LM 3 x Intel® I210AT (G4 SKU)	1 x Intel® I219LM 3 x Intel® I210AT (G4 SKU)
TPM 2.0		Onboard	Optional	Optional	Optional
Storage	SATA 3	16	8	8	5
	M.2	2 2280 (PCIe)	–	–	1 2280/22110 (PCIe/SATA)
Rear I/O	VGA/DVI/HDMI/ DP	1 / – / – / –	1 / 1 / 1 / –	1 / 1 / 1 / –	1 / 1 / 1 / –
	Ethernet	2 x GbE RJ-45 2 x 10GbE RJ-45 (T2 SKU)	4 x GbE RJ-45 (G4 SKU)	4 x GbE RJ-45 (G4 SKU)	4 x GbE RJ-45 (G4 SKU)
	USB	5 x USB 3.2 Gen1	4 x USB 3.2 Gen2	4 x USB 3.2 Gen2	4 x USB 3.2 Gen2
	Audio	–	Mic-in, Line-out	Mic-in, Line-out	Mic-in, Line-out
	Serial	1 (RS-232)	1 (RS-232 via cable)	1 (RS-232 via cable)	1 (RS-232 via cable)

✓: supported, –: not supported, △: optional

1

Edge Software & Industry Solutions

2

Intelligent HMI & Monitors

3

Automation Computers

4

Intelligent Systems

5

Mission Critical CompactPCI Platforms

6

Intelligent Transportation & Substation Certified Systems

7

Industrial Server & Cloud Solutions

8

AI & Advanced Computer Vision

9

Video Infrastructure Solutions

10

Network & Security Solutions

11

Industrial Communication

12

Industrial Gateways

13

EtherCAT Solutions & Automation Controllers

14

Intelligent Motion Control Solutions

15

Data Acquisition (DAQ) Solutions

16

Remote I/O, Wireless I/O & Sensors

17

Serial/USB Communications

Industrial Server Motherboards



Model		ASMB-588	ASMB-788	ASMB-815	ASMB-825	ASMB-816
Form Factor		MicroATX	ATX	ATX	ATX	ATX
Processor System	CPU	Intel® Core™ processors (14th/13th/12th Gen)	Intel® Core™ processors (14th/13th/12th Gen)	2nd Gen Intel® Xeon® Scalable processors	2nd Gen Intel® Xeon® Scalable processors	3rd Gen Intel® Xeon® Scalable processors
	Socket	1 x LGA 1700	1 x LGA 1700	1 x LGA 3647-P0	2 x LGA 3647-P0	1 x LGA 4189-P+
	Max. Speed	3.9 GHz	3.9 GHz	3.6 GHz	3.6 GHz	3.6 GHz
	UPI	–	–	–	–	–
	Chipset	Intel® W680	Intel® W680	Intel® C620	Intel® C620	Intel® C621A
	BIOS	AMI 256Mbit	AMI 256Mbit	AMI 256Mbit	AMI 256Mbit	AMI 256Mbit
Expansion Slots	PCI	–	2	–	–	–
	PCIe x16	1 (Gen5)	1 (Gen5)	2 Switchable to four x8	4	3 (Gen4)
	PCIe x8	–	–	1	2	1
	PCIe x4	2 (Gen4)	4 (3 x Gen4, 1 x Gen3)	1	–	2
	PCIe x1	–	–	1	–	1
Memory	Technology	DDR5 ECC/non-ECC UDIMM up to 4400 MHz	DDR5 ECC/non-ECC UDIMM up to 4400 MHz	DDR4 RDIMM up to 2933 MHz, Intel® Optane DCPMM	DDR4 RDIMM up to 2933 MHz, Intel® Optane DCPMM	DDR4 RDIMM up to 3200 MHz, Intel® Optane DCPMM
	Max. Capacity	128 GB	128 GB	768 GB	768 GB	1 TB
	Socket	4 x 288-pin DIMM	4 x 288-pin DIMM	6 x 288-pin DIMM	6 x 288-pin DIMM	8 x 288-pin DIMM
Graphics	Controller	Intel® GT2-HD Graphics	Intel® GT2-HD Graphics	AST2510/AST2500	AST2510/AST2500	AST2510/AST2500
Ethernet	Controller	1 x Intel® I219LM 3 x Intel® I210AT (G4 SKU)	1 x Intel® I219LM 3 x Intel® I210AT (G4 SKU)	2 x Intel® I210AT 1 x Intel® X557- AT2 1 x Realtek 8201EL	2 x Intel® I210AT 1 x Intel® X557- AT2	2 x Intel® I210AT 1 x Intel® X550- AT2 1 x Realtek 8201F
TPM 2.0		Optional by SPI	Optional by SPI	Optional	Optional	Optional
Storage	SATA 3	5	4	9	9	8
	M.2	1 2280 (PCIe)	1 2280 (PCIe)	1 2280 (PCIe/SATA)	1 2280 (PCIe/SATA)	1 2280/22110 (PCIe/ SATA)
Rear I/O	VGA/DVI/ HDMI/ DP	1 / 1 / 1 / –	1 / 1 / 1 / –	1 / – / – / –	1 / – / – / –	1 / – / – / –
	Ethernet	4 x GbE RJ-45 (G4 SKU)	4 x GbE RJ-45 (G4 SKU)	2 x GbE RJ-45 2 x 10GbE RJ-45 (T2 SKU)	2 x GbE RJ-45 2 x 10GbE RJ-45 (T2 SKU)	2 x GbE RJ-45 2 x 10GbE RJ-45 (T2 SKU)
	USB	4 x USB 3.2 Gen2	4 x USB 3.2 Gen2	4 x USB 3.2 Gen1 2 x USB 2.0	2 x USB 3.2 Gen1	4 x USB 3.2 Gen1 2 x USB 2.0
	Audio	Mic-in, Line-out	Mic-in, Line-out	–	–	–
	Serial	1 (RS-232 via cable)	1 (RS-232 via cable)	1 (RS-232)	1 (RS-232)	1 (RS-232)

✓: supported, –: not supported, △: optional

Industrial Server Motherboards



Model		ASMB-807	ASMB-817	ASMB-830	ASMB-831
Form Factor		ATX	ATX	ATX	ATX
Processor System	CPU	Intel® Xeon® W processors	5th/4th Gen Intel® Xeon® Scalable processors	AMD® EPYC™ Embedded 7003/7002 series server processors	AMD® EPYC™ Embedded 9004 series server processors
	Socket	1 x LGA 4677	1 x LGA 4677	1 x LGA 4094	1 x LGA 6096
	Max. Speed	4.8 GHz	3.7 GHz	3.7 GHz	3.0 GHz
	UPI	–	–	–	–
	Chipset	Intel® W790	Intel® C741	–	–
	BIOS	AMI 512Mbit	AMI 512Mbit	AMI 256Mbit	AMI 512Mbit
Expansion Slots	PCI	–	–	–	–
	PCIe x16	3 (Gen5)	3 (Gen5)	5 (Gen4)	5 (Gen5)
	PCIe x8	1 (Gen5)	2 (Gen5)	2 (Gen4)	2 (Gen5)
	PCIe x4	2 (Gen4)	1 (Gen5)	–	–
	PCIe x1	–	1	–	–
Memory	Technology	DDR5 RDIMM up to 4800 MHz, Intel® Optane DCPMM	DDR5 RDIMM up to 4800 MHz, Intel® Optane DCPMM	DDR4 RDIMM up to 3200 MHz	DDR5 RDIMM up to 4800 MHz
	Max. Capacity	2 TB	2 TB	1 TB	1.5TB
	Socket	8 x 288-pin DIMM	8 x 288-pin DIMM	8 x 288-pin DIMM	6 x 288-pin DIMM
Graphics	Controller	AST2510/AST2500	AST2600	AST2500	AST2600
Ethernet	Controller	2 x Intel® I226LM 1 x Intel® X710 (T2 SKU) 1 x Realtek 8211F	2 x Intel® I210AT 1 x Intel® X710 (T2 SKU) 1 x Realtek 8211F	2 x Intel® I210AT 1 x Intel® X550-AT2 (T2 SKU) 1 x Realtek 8201F	1 x Intel® X710- AT2 1 x Realtek 8211F
TPM 2.0		Optional by SPI	Optional by SPI	Optional	Onboard
Storage	SATA 3	8	8	9	9
	M.2	2 2280/22110 (PCIe)	1 2280/22110 (PCIe/ SATA)	2 2280/22110 1 x (PCIe/SATA) 1 x (PCIe only)	2 2280/22110 1 x (PCIe/SATA) 1 x (PCIe only)
Rear I/O	VGA/DVI/ HDMI/ DP	1 / – / – / –	1 / – / – / –	1 / – / – / –	1 / – / – / –
	Ethernet	2 x GbE RJ-45 2 x 10GbE RJ-45 (T2 SKU)	2 x GbE RJ-45 2 x 10GbE RJ-45 (T2 SKU)	2 x GbE RJ-45 2 x 10GbE RJ-45 (T2 SKU)	2 x 10GbE RJ-45
	USB	6 x USB 3.2 Gen2	2 x USB 3.2 Gen1 4 x USB 2.0	2 x USB 3.2 Gen1	4 x USB 3.2 Gen1
	Audio	–	–	–	–
	Serial	1 (RS-232)	1 (RS-232)	1 (RS-232)	1 (RS-232)

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1

Edge Software & Industry Solutions

2

Intelligent HMI & Monitors

3

Automation Computers

4

Intelligent Systems

5

Mission Critical CompactPCI Platforms

6

Intelligent Transportation & Substation Certified Systems

7

Industrial Server & Cloud Solutions

8

AI & Advanced Computer Vision

9

Video Infrastructure Solutions

10

Network & Security Solutions

11

Industrial Communication

12

Industrial Gateways

13

EtherCAT Solutions & Automation Controllers

14

Intelligent Motion Control Solutions

15

Data Acquisition (DAQ) Solutions

16

Remote I/O, Wireless I/O & Sensors

17

Serial/USB Communications

Industrial Server Motherboards



Model		ASMB-925	ASMB-927	ASMB-935	ASMB-975	ASMB-976	ASMB-977
Form Factor		EATX	EATX	EATX	Proprietary	Proprietary	Proprietary
Processor System	CPU	2nd Gen Intel® Xeon® Scalable processors	Dual 5th/4th Gen Intel® Xeon® Scalable processors	2nd Gen Intel® Xeon® Scalable processors	2nd Gen Intel® Xeon® Scalable processors	3rd Gen Intel® Xeon® Scalable processors	Dual 5th/4th Gen Intel® Xeon® Scalable processors
	Socket	2 x LGA 3647-P0	2 x LGA 4677	2 x LGA 3647-P0	2 x LGA 3647-P0	2 x LGA 4189-P+	2 x LGA 4677
	Max. Speed	3.6 GHz	3.7 GHz	3.6 GHz	3.6 GHz	3.7 GHz	3.7 GHz
	UPI	UPI 10.4 GT/s	UPI 16 GT/s	UPI 10.4 GT/s	UPI 10.4 GT/s	UPI 11.2 GT/s	UPI 16 GT/s
	Chipset	Intel® C620	Intel® C741	Intel® C620	Intel® C620	Intel® C621A	Intel® C741
	BIOS	AMI 256Mbit	AMI 512Mbit	AMI 256Mbit	AMI 256Mbit	AMI 256Mbit	AMI 512Mbit
Expansion Slots	PCI	1	–	–	–	–	–
	PCIe x16	5	4 (Gen5)	5	4	4 (Gen4)	5 (Gen5)
	PCIe x8	1	2 (Gen5)	1	1	7 (Gen4)	5 (Gen5)
	PCIe x4	–	–	–	4	–	–
	PCIe x1	–	–	–	–	–	–
Memory	Technology	DDR4 RDIMM up to 2933 MHz, Intel® Optane DCPMM	DDR4 RDIMM up to 4800 MHz, Intel® Optane DCPMM	DDR4 RDIMM up to 2933 MHz, Intel® Optane DCPMM	DDR4 RDIMM up to 2933 MHz, Intel® Optane DCPMM	DDR4 RDIMM up to 3200 MHz, Intel® Optane DCPMM	DDR5 RDIMM up to 4800 MHz, Intel® Optane DCPMM
	Max. Capacity	1.5 TB	4 TB	3 TB	1.5 TB	2 TB	4 TB
	Socket	12 x 288-pin DIMM	16 x 288-pin DIMM	24 x 288-pin DIMM	12 x 288-pin DIMM	16 x 288-pin DIMM	16 x 288-pin DIMM
Graphics	Controller	AST2510/AST2500	AST2600	AST2510/AST2500	AST2510/AST2500	AST2510/AST2500	AST2600
Ethernet	Controller	2 x Intel® I210AT 1 x Intel® X557-AT2	1 x Intel® X710	2 x Intel® I210AT 1 x Intel® X557-AT2	2 x Intel® I210AT 1 x Intel® X557-AT2	2 x Intel® I210AT 1 x Intel® X550-AT2	2 x Intel® I210AT 1 x Intel® X710
TPM 2.0		Optional	Onboard	Optional	Optional	Optional	Onboard
Storage	SATA 3	8	9	10	14	10	9
	M.2	–	1 2280 (PCIe/SATA)	1 2280 (PCIe/SATA)	2 2242 (SATA)	2 2280/22110 1 x (PCIe/SATA) 1 x (PCIe only)	2 2280/22110 1 x (PCIe/SATA) 1 x (PCIe only)
Rear I/O	VGA/DVI/HDMI/ DP	1 / – / – / –	1 / – / – / –	1 / – / – / –	1 / – / – / –	1 / – / – / –	1 / – / – / –
	Ethernet	2 x GbE RJ-45 2 x 10GbE RJ-45 (T2 SKU)	2 x 10GbE RJ-45	2 x GbE RJ-45 2 x 10GbE RJ-45 (T2 SKU)	2 x GbE RJ-45 2 x 10GbE RJ-45 (T2 SKU)	2 x GbE RJ-45 2 x 10GbE RJ-45 (T2 SKU)	2 x GbE RJ-45 2 x 10GbE RJ-45 (T2 SKU)
	USB	4 x USB 3.2 Gen1	2 x USB 3.2 Gen1	4 x USB 3.2 Gen1	4 x USB 3.2 Gen1	2 x USB 3.2 Gen1	2 x USB 3.2 Gen1
	Audio	–	–	–	–	–	–
	Serial	1 (RS-232)	1 (RS-232)	1 (RS-232)	1 (RS-232)	1 (RS-232)	1 (RS-232)

✓: supported, –: not supported, △: optional

Industrial Server Chassis



Height (1U = 1.75")		Tower			1U	
Model		HPC-5000	HPC-7000	HPC-5422	HPC-6120	HPC-7120S
Form Factor Support		Micro ATX	Micro ATX, ATX, EATX	Micro ATX, ATX	Proprietary	Micro ATX, ATX
No. of Slots / No. of Full-Height Cards		4/4	7/7	5/5	4/2 (10.5" L)	1/1
Drive Bay	Slim ODD Bay	1	1	0	–	–
	3.5" (hot-swappable)	–	–	0	–	–
	3.5" (internal)	2 x 3.5" or 1 x 3.5" + 1 x 2.5"	3	0	–	–
	2.5" (hot-swappable)	–	–	2 (Optional)	2	2 (HPC-7120S-35ZXE only)
	2.5" (internal)	–	–	–	–	2
	NVMe Support	–	–	–	–	–
Cooling	Chassis Fan	1 (12 cm / 82 CFM)	2 (12 cm / 150 CFM)	2 (12 cm / 150 CFM)	3 (4 cm / 56 CFM) 2 (4 cm / 28 CFM)	3 (4 cm / 23.1 CFM)
	Air Filter	✓	–	–	–	–
Front I/O	USB 3.2 Gen1	2	2	–	2	2
	USB 2.0	2	–	–	–	–
Power Supply	Single Power Supply	300W/500W	500W/1200W	850W/1300W	500W/650W	350W/850W
	Redundant Power Supply	–	–	–	650W (Optional)	–
LED Indicators	System	Power	Power	Power, Information LAN1, LAN2	Power, Information LAN1~LAN4	Power, Information LAN1, LAN2
	HDD	–	–	Power Activity LED	Power Activity LED	Power Activity LED
Environment	Operating Temperature	0 ~ 40°C (32 ~ 104°F)	0 ~ 40°C (32 ~ 104°F)	0 ~ 40°C (32 ~ 104°F)	0 ~ 40°C (32 ~ 104°F)	0 ~ 40°C (32 ~ 104°F)
	Operating Humidity	10 ~ 95% @ 40°C, non-condensing	10 ~ 95% @ 40°C, non-condensing	10 ~ 95% @ 40°C, non-condensing	10 ~ 95% @ 40°C, non-condensing	10 ~ 95% @ 40°C, non-condensing
Physical Characteristics	Dimension (W x H x D)	192 x 376.7 x 338.5 mm (7.56" x 14.83" x 13.33")	267 x 458 x 500 mm (10.52" x 18.03" x 19.69")	340 x 195 x 400 mm (13.4" x 7.7" x 15.8")	438 x 44 x 480 mm (17.24" x 1.73" x 18.9")	438 x 43 x 381 mm (17.24" x 1.7" x 15")

✓: supported, –: not supported, △: optional

1

Edge Software & Industry
Solutions

2

Intelligent HMI & Monitors

3

Automation Computers

4

Intelligent Systems

5

Mission Critical CompactPCI
Platforms

6

Intelligent Transportation &
Substation Certified Systems

7

Industrial Server & Cloud
Solutions

8

AI & Advanced Computer
Vision

9

Video Infrastructure Solutions

10

Network & Security Solutions

11

Industrial Communication

12

Industrial Gateways

13

EtherCAT Solutions &
Automation Controllers

14

Intelligent Motion Control
Solutions

15

Data Acquisition (DAQ)
Solutions

16

Remote I/O, Wireless I/O
& Sensors

17

Serial/USB Communications

Industrial Server Chassis



Height (1U = 1.75")		2U		3U/Tower	4U
Model		HPC-6240	HPC-7242	HPC-7320	HPC-7420
Form Factor Support		Proprietary	Micro ATX, ATX	Micro ATX, ATX, EATX	ATX, EATX, EE-ATX
No. of Slots / No. of Full-Height Cards		8/8	3/3, 7/0	7/7	11/11
Drive Bay	Slim ODD Bay	1 (Ultra Slim)	1	1	1
	3.5" (hot-swappable)	–	4 (3.5" / 2.5")	2 (3.5" / 2.5")	–
	3.5" (internal)	–	–	2	2
	2.5" (hot-swappable)	4	–	–	2 (Optional)
	2.5" (internal)	–	2	–	2 (Optional)
	NVMe Support	2 (Optional)	–	–	–
Cooling	Chassis Fan	3 (8 cm / 132 CFM) 1 (6 cm / 75 CFM)	1 (8 cm / 75.2 CFM) 2 (6 cm / 28 CFM)	2 (8 cm / 57 CFM) 1 (6 cm / 27.72 CFM)	3 (12 cm / 238 CFM) for HPC-7420-12ZX 3 (8 cm / 57 CFM) for HPC-7420-85ZX
	Air Filter	–	✓	✓	✓
Front I/O	USB 3.2 Gen1	2	2	2	–
	USB 2.0	–	–	–	–
Power Supply	Single Power Supply	1200W	350W/500W	500W/850W	850W/1200W
	Redundant Power Supply	1200W (Optional)	550W	550W/800W	1200W (Optional)
LED Indicators	System	Power, Information LAN1~LAN4	Power, Information LAN1, LAN2	Power LAN1, LAN2	Power, Information LAN1, LAN2
	HDD	Power Activity LED	Power Activity LED	Power Activity LED	Power Activity LED
Environment	Operating Temperature	0 ~ 40°C (32 ~ 104°F)	0 ~ 40°C (32 ~ 104°F)	0 ~ 40°C (32 ~ 104°F)	0 ~ 50°C (32 ~ 122°F)
	Operating Humidity	10 ~ 95% @ 40°C, non-condensing	10 ~ 95% @ 40°C, non-condensing	10 ~ 95% @ 40°C, non-condensing	10 ~ 95% @ 40°C, non-condensing
Physical Characteristics	Dimension (W x H x D)	438 x 88 x 523 mm (17.24" x 3.46" x 20.59")	426.4 x 88 x 525 mm (16.79" x 3.46" x 20.67")	426 x 132.2 x 480 mm (16.79" x 5.2" x 18.9")	438 x 177 x 450 mm (17.24" x 6.97" x 17.7")

✓: supported, –: not supported, △: optional

Industrial Server Chassis



Height (1U = 1.75")		4U			1U	
Model		HPC-7442	HPC-7484	HPC-7485	HPC-8104	HPC-8108
Form Factor Support		Micro ATX, ATX, EATX	Micro ATX, ATX, EATX	ATX, EATX, EE-ATX	Micro ATX, ATX	ATX, EATX
No. of Slots / No. of Full-Height Cards		7/7	7/7	11/11	1/1	1/1
Drive Bay	Slim ODD Bay	1	1	1	1 (Ultra Slim)	1
	3.5" (hot-swappable)	4, upgradable to 8 (3.5" / 2.5")	8 (3.5" / 2.5")	8 (3.5" / 2.5")	4 (3.5" / 2.5")	–
	3.5" (internal)	2	–	–	–	–
	2.5" (hot-swappable)	–	–	–	–	8 x SAS3 or SATA
	2.5" (internal)	–	1	2	2 or 3 (optional)	–
	NVMe Support				–	–
Cooling	Chassis Fan	1 (12 cm / 114 CFM) 1 (8 cm / 55 CFM)	2 (12 cm / 150.33 CFM)	3 (12 cm / 238 CFM) for HPC-7485-20RX 3 (12 cm / 232 CFM) for HPC-7485-12RX	4 (4 cm / 34 CFM)	4 (4 cm / 34 CFM)
	Air Filter	✓	✓	–	–	–
Front I/O	USB 3.2 Gen1	–	2	2	2	–
	USB 2.0	2	–	–	–	1
Power Supply	Single Power Supply	500W/700W	700W/1200W	–	500W	800W
	Redundant Power Supply	500W	–	1200W/2000W	650W	650W
LED Indicators	System	Power LAN1, LAN2	Power LAN1, LAN2	Power, Information LAN1, LAN2	Power, Information LAN1, LAN2	Power, Information LAN1, LAN2
	HDD	Power Activity LED	Power Activity LED	Power Activity LED openings	–	–
Environment	Operating Temperature	0 ~ 40°C (32 ~ 104°F)	0 ~ 40°C (32 ~ 104°F)	0 ~ 40°C (32 ~ 104°F)	0 ~ 40°C (32 ~ 104°F)	0 ~ 35°C (32 ~ 95°F)
	Operating Humidity	10 ~ 95% @ 40°C, non-condensing	10 ~ 95% @ 40°C, non-condensing	10 ~ 95% @ 40°C, non-condensing	10 ~ 95% @ 40°C, non-condensing	10 ~ 95% @ 35°C non-condensing
Physical Characteristics	Dimension (W x H x D)	426 x 177 x 600 mm (16.7" x 7.0" x 23.6")	426 x 177 x 630 mm (16.7" x 7.0" x 24.8")	435 x 176 x 660 mm (17.1" x 6.9" x 25.9")	438 x 43.9 x 530 mm (17.24" x 1.73" x 20.9")	438 x 43.9 x 597 mm (17.24" x 1.73" x 23.5")

✓: supported, –: not supported, △: optional

1

Edge Software & Industry Solutions

2

Intelligent HMI & Monitors

3

Automation Computers

4

Intelligent Systems

5

Mission Critical CompactPCI Platforms

6

Intelligent Transportation & Substation Certified Systems

7

Industrial Server & Cloud Solutions

8

AI & Advanced Computer Vision

9

Video Infrastructure Solutions

10

Network & Security Solutions

11

Industrial Communication

12

Industrial Gateways

13

EtherCAT Solutions & Automation Controllers

14

Intelligent Motion Control Solutions

15

Data Acquisition (DAQ) Solutions

16

Remote I/O, Wireless I/O & Sensors

17

Serial/USB Communications

Industrial Server Chassis



Height (1U = 1.75")		2U		3U	4U
Model		HPC-8208	HPC-8212	HPC-8316	HPC-8424
Form Factor Support		ATX, EATX	ATX, ATX, EATX	Micro ATX, ATX	ATX, EATX
No. of Slots / No. of Full-Height Cards		7/0, 3/3	7/0, 3/3 (1 for RAID Card)	7/7 (1 for RAID Card)	7/7 (1 for RAID Card)
Drive Bay	Slim ODD Bay	1	–	–	–
	3.5" (hot-swappable)	8 (3.5" / 2.5")	12 (3.5" / 2.5")	16 (3.5" / 2.5")	24 (3.5" / 2.5")
	3.5" (internal)	–	–	–	–
	2.5" (hot-swappable)	–	2 (Rear) only HPC-8212SE-65RB1	2 (Rear)	2 (Rear)
	2.5" (internal)	2	–	–	–
	NVMe Support	–	4 in 12 Hot-Swappable Drive Bays	–	4 in 24 Hot-Swappable Drive Bays
Cooling	Chassis Fan	3 (8 cm / 75.2 CFM)	4 (8 cm / 75.2 CFM)	4 (8 cm / 75.2 CFM)	4 (8 cm / 75.2 CFM)
	Air Filter	–	–	–	–
Front I/O	USB 3.2 Gen1	2	–	2	–
	USB 2.0	–	2	–	2
Power Supply	Single Power Supply	850W	–	–	–
	Redundant Power Supply	550W, 800W	550W, 650W, 800W	550W	800W
LED Indicators	System	LAN1, LAN2, HDD, Power and Information LED	LAN1, LAN2, HDD, Power and Information LED	LAN1, LAN2, HDD, Power and Information LED	LAN1, LAN2, HDD, Power and Information LED
	HDD	–	–	–	–
Environment	Operating Temperature	0 ~ 40°C (32 ~ 104°F)	0 ~ 35°C (32 ~ 95°F)	0 ~ 35°C (32 ~ 95°F)	0 ~ 35°C (32 ~ 95°F)
	Operating Humidity	10 ~ 95% @ 40°C non-condensing	10 ~ 95% @ 35°C non-condensing	10 ~ 95% @ 35°C non-condensing	10 ~ 95% @ 35°C non-condensing
Physical Characteristics	Dimension (W x H x D)	438 x 88 x 620 mm (17.25" x 3.46" x 24.4")	438 x 88.4 x 540 mm (17.24" x 3.48" x 21.26") 438 x 88.4 x 620 mm (17.24" x 3.48" x 24.41")	435 x 132 x 540 mm (17.13" x 5.2" x 21.26")	438 x 176 x 620 mm (17.24" x 6.93" x 24.41")

✓: supported, –: not supported, △: optional

PCI Express Adapters



Model		PCIE- 1130PS	PCIE-1131PS	PCIE-1220PS	PCIE-1221PS	PCIE-2131BP
Description		Quad Port Copper GbE w/ Intel® I350	Quad Port Fiber GbE w/ Intel® I350	Dual Port Fiber 10GbE w/ Intel® X710-BM2	Dual Port Copper 10GbE w/ Intel® X550-AT2	Quad Port Copper LAN Bypass GbE w/ Intel® I350
Chipset		Intel® I350	Intel® I350	Intel® X710-BM2	Intel® X550-AT2	Intel® I350
Network Interfaces	Ports	4 x RJ-45	4 x SFP	2 x SFP+	2 x RJ-45	4 x RJ-45
	Media	GbE Copper	GbE Fiber	10GbE Fiber	10GbE Base-T Copper	GbE Copper
Form Type		Advantech form factor	Advantech form factor	Advantech form factor	Advantech form factor	Standard low profile
PCIe		PCIe Gen2 x4	PCIe Gen2 x4	PCIe Gen3 x8	PCIe Gen3 x4	PCIe Gen2 x4
Heatsink		Passive	Passive	Passive	Passive	Passive
LAN Bypass		-	-	-	-	-
Power	Voltage	12 V ± 15%	12 V ± 15%	12 V ± 15%	12 V ± 15%	12 V ± 15%
	Consumption	5 W	5 W	8.5 W	12.5 W	5 W
Environment	Operating Temperature (air flow 0.7 m/sec)	0 ~ 55°C (32 ~ 131°F)	0 ~ 55°C (32 ~ 131°F)	0 ~ 55°C (32 ~ 131°F)	0 ~ 55°C (32 ~ 131°F)	0 ~ 55°C (32 ~ 131°F)
	Storage Temperature	-40 ~ 65°C (-40 ~ 149°F)	-40 ~ 65°C (-40 ~ 149°F)	-40 ~ 65°C (-40 ~ 149°F)	-40 ~ 65°C (-40 ~ 149°F)	-40 ~ 65°C (-40 ~ 149°F)
	Storage Humidity	0 ~ 90%, non-condensing	0 ~ 90%, non-condensing	0 ~ 90%, non-condensing	0 ~ 90%, non-condensing	0 ~ 90%, non-condensing
Mechanical	Dimension	110 x 68.9 mm	110 x 68.9 mm	110 x 68.9 mm	110 x 68.9 mm	167 x 68.9 mm
	Bracket	Full height and half height options available	Full height and half height options available	Full height and half height options available	Full height and half height options available	Full height and half height options available

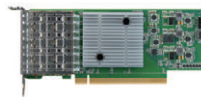
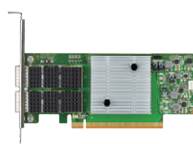


Model		PCIE-2221BP	PCIE-2230NP	PCIE-2231NP	PCIE-2232BP	PCIE-2320NP
Description		Dual Port LAN Bypass 10GbE w/ Intel® X710-BM2	Quad Port Fiber 10GbE w/ Intel® XL710-BM1	Quad Port Copper 10GbE Base-T w/ Intel® XL710-BM1 & X557-AT4	Quad Port Copper 10GbE Base-T LAN Bypass w/ Intel® XL710-BM1 & X557-AT4	Dual Port Fiber 40GbE w/ Intel® XL710-BM2
Chipset		Intel® X710-BM2	Intel® XL710-BM1	Intel® XL710-BM1 + X557-AT4	Intel® XL710-BM1 + X557-AT4	Intel® XL710-BM2
Network Interfaces	Ports	Fiber bypass module	4 x SFP+	4 x RJ-45	4 x RJ-45	2 x QSFP+
	Media	10GbE Fiber	10GbE Fiber	10GbE Base-T Copper	10GbE Base-T Copper	40GbE Fiber
Form Type		Standard low profile	Standard low profile	Standard low profile	Standard full height	Standard low profile
PCIe		PCIe Gen3 x8	PCIe Gen3 x8	PCIe Gen3 x8	PCIe Gen3 x8	PCIe Gen3 x8
Heatsink		Passive	Passive	Passive	Passive	Passive
LAN Bypass		✓	-	-	✓	-
Power	Voltage	12 V ± 15%	12 V ± 15%	12 V ± 15%	12 V ± 15%	12 V ± 15%
	Consumption	10 W	9 W	12.5 W	18 W	9 W
Environment	Operating Temperature (air flow 0.7 m/sec)	0 ~ 55°C (32 ~ 131°F)	0 ~ 55°C (32 ~ 131°F)	0 ~ 55°C (32 ~ 131°F)	0 ~ 45°C (32 ~ 113°F)	0 ~ 55°C (32 ~ 131°F)
	Storage Temperature	-40 ~ 65°C (-40 ~ 149°F)	-40 ~ 65°C (-40 ~ 149°F)	-40 ~ 65°C (-40 ~ 149°F)	-40 ~ 65°C (-40 ~ 149°F)	-40 ~ 65°C (-40 ~ 149°F)
	Storage Humidity	0 ~ 90%, non-condensing	0 ~ 90%, non-condensing	0 ~ 90%, non-condensing	0 ~ 90%, non-condensing	0 ~ 90%, non-condensing
Mechanical	Dimension	167 x 68.9 mm	167 x 68.9 mm	167 x 68.9 mm	167.6 x 98.4 mm	167 x 68.9 mm
	Bracket	Full height and half height options available	Full height and half height options available	Full height and half height options available	Standard full height	Full height and half height options available

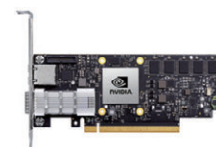
✓: supported, -: not supported, △: optional

- 1 Edge Software & Industry Solutions
- 2 Intelligent HMI & Monitors
- 3 Automation Computers
- 4 Intelligent Systems
- 5 Mission Critical CompactPCI Platforms
- 6 Intelligent Transportation & Substation Certified Systems
- 7 Industrial Server & Cloud Solutions
- 8 AI & Advanced Computer Vision
- 9 Video Infrastructure Solutions
- 10 Network & Security Solutions
- 11 Industrial Communication
- 12 Industrial Gateways
- 13 EtherCAT Solutions & Automation Controllers
- 14 Intelligent Motion Control Solutions
- 15 Data Acquisition (DAQ) Solutions
- 16 Remote I/O, Wireless I/O & Sensors
- 17 Serial/USB Communications

PCI Express Adapters



Model		PCIE-2420NP	PCIE-2531NP	PCIE-2421NP	PCIE-2521NP
Description		Dual Port Fiber 100GbE w/ NVIDIA® ConnectX-5	Quad Port Fiber 25GbE w/ Intel® E810-CAM1	Dual Port Fiber 100GbE w/ NVIDIA® ConnectX-6	Dual Port Fiber 25GbE w/ NVIDIA® ConnectX-6
Chipset		NVIDIA® ConnectX-5	Intel® E810-CAM1	NVIDIA® ConnectX-6	NVIDIA® ConnectX-6
Network Interfaces	Ports	2 x QSFP28	2 x SFP28	2 x QSFP56	2 x SFP28
	Media	100GbE Fiber	25GbE Fiber	100GbE Fiber	25GbE Fiber
Form Type		Standard low profile	Standard low profile	Standard low profile	Standard low profile
PCIe		PCIe Gen3 x16	PCIe Gen4 x16	PCIe Gen4 x16	PCIe Gen4 x8
Heatsink		Passive	Passive	Passive	Passive
LAN Bypass		—	—	—	—
Power	Voltage	12 V ± 15%	12 V ± 15%	12 V ± 15%	12 V ± 15%
	Consumption	15 W	15 W	20W	12W
Environment	Operating Temperature (air flow 0.7 m/sec)	0 ~ 45°C (32 ~ 113°F)	0 ~ 55°C (32 ~ 131°F)	0 ~ 55°C (32 ~ 131°F)	0 ~ 55°C (32 ~ 131°F)
	Storage Temperature	-40 ~ 65°C (-40 ~ 149°F)	-40 ~ 65°C (-40 ~ 149°F)	-40 ~ 70°C (-40 ~ 158°F)	-40 ~ 70°C (-40 ~ 158°F)
	Storage Humidity	0 ~ 90%, non-condensing	0 ~ 90%, non-condensing	0 ~ 90%, non-condensing	0 ~ 90%, non-condensing
Mechanical	Dimension	167 x 68.9 mm	167 x 68.9 mm	142 x 68.9 mm	96.3 x 68.9 mm
	Bracket	Full height and half height options available	Full height and half height options available	Full height and half height options available	Full height and half height options available



Model		PCIE-2711NP	PCIE-5421NP	PCIE-5521NP	PCIE-5711NP
Description		Single Port Fiber 200GbE w/ NVIDIA® ConnectX-6	Dual Port Fiber 100GbE w/ NVIDIA® BlueField-2	Dual Port Fiber 25GbE w/ NVIDIA® BlueField-2	Single Port Fiber 200GbE w/ NVIDIA® BlueField-2
Chipset		NVIDIA® ConnectX-6	NVIDIA® BlueField-2	NVIDIA® BlueField-2	NVIDIA® BlueField-2
Network Interfaces	Ports	1 x QSFP56	2 x QSFP56	2 x SFP56	1 x QSFP56
	Media	200GbE Fiber	100GbE Fiber	25GbE Fiber	200GbE Fiber
Form Type		Standard low profile	Standard full height	Standard full height	Standard low profile
PCIe		PCIe Gen4 x16	PCIe Gen4 x16	PCIe Gen4 x8	PCIe Gen4 x16
Heatsink		Passive	Passive	Passive	Passive
LAN Bypass		—	—	—	—
Power	Voltage	12 V ± 15%	12 V ± 15%	12 V ± 15%	12 V ± 15%
	Consumption	17W	150W (75W PCIe golden fingers + 75W 6-pin ATX connector)	150W (75W PCIe golden fingers + 75W 6-pin ATX connector)	75W
Environment	Operating Temperature (air flow 0.7 m/sec)	0 ~ 55°C (32 ~ 131°F)	0 ~ 45°C (32 ~ 113°F)	0 ~ 45°C (32 ~ 113°F)	0 ~ 45°C (32 ~ 113°F)
	Storage Temperature	-40 ~ 70°C (-40 ~ 158°F)	-40 ~ 70°C (-40 ~ 158°F)	-40 ~ 70°C (-40 ~ 158°F)	-40 ~ 70°C (-40 ~ 158°F)
	Storage Humidity	0 ~ 90%, non-condensing	0 ~ 90%, non-condensing	0 ~ 90%, non-condensing	0 ~ 90%, non-condensing
Mechanical	Dimension	142 x 68.9 mm	167.65 x 68.9 mm	167.65 x 68.9 mm	167.65 x 68.9 mm
	Bracket	Full height and half height options available	Standard full height	Standard full height	Full height and half height options available

✓: supported, —: not supported, △: optional

