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Industrial Server

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Storage Servers

NEW



Product Categories		Storage Server	
Model Name		SKY-5240	ASR-3100
System	Form Factor	2U 4 Nodes	1U 16 bay
	Number of Drives	24 bays (2.5")	16 bays (2.5")
	Drive Type	NVMe/SAS/SATA	NVMe/SAS/SATA
	CPU Type	Intel Xeon Scalable dual processors (up to 145W TDP)	Dual LGA 2011-R3 supports Intel® Xeon® E5-2600 V3/V4 series
	Chipset	Intel® C622	Intel® C612
	Memory Type	24 x DDR4-2666 ECC RDIMMs (Up to 768 GB)	16 x DDR4-2133 ECC RDIMM (up to 512 GB)
	Storage Expansion	-	-
	Configuration	-	-
	TPM	-	-
	Smart Fan Control	✓	✓
Expansion Slot	PCIe x16	2 Per Node (Supports HHHL)	-
	PCIe x8	-	2 (supports 1 x HHHL card and 1 x FHHL card)
Display	Integrated Chipset	-	-
	Display Memory	64 MB	64 MB
	VGA	ASPEED AST-2500 (Per Node)	ASPEED AST-2400
Ethernet	RJ-45 Ethernet	3 (Per Node)	2
I/O	Front I/O	-	1 x USB 2.0
	Rear I/O	Per Node 1 x VGA 2 x USB 3.0 3 x LAN RJ45	1 x VGA 1 x COM RS-232 4 x USB 3.0 2 x LAN RJ45
	Internal I/O Connector	2 x M.2 2280 Connector (Per Node)	2 x M.2 connectors (2242)
Power Supply	Power Output	2200W 80 PLUS Platinum 1+1 redundant power supply	1100W redundant power
	Input Range	220 ~ 240V _{AC}	100 ~ 240V _{AC}
Mechanical	Dimensions (L x W x H)	830 x 446 x 88 mm (32.68" x 17.56" x 3.46")	806 x 430 x 44 mm (31.7" x 16.9" x 1.7")
	Weight	-	17 kg (without hard drives)
Environmental	Operating Temperature	0 ~ 35 °C (32 ~ 95 °F)	0 ~ 40 °C (32 ~ 104 °F)
	Non-Operating Temperature	-20 ~ 60 °C (-4 ~ 140 °F)	-20 ~ 60 °C (-4 ~ 140 °F)
	Operating Humidity	95% @ 40 °C, non-condensing	10 ~ 85% @ 40 °C, non-condensing
	Non-Operating Humidity	95% @ 40 °C, non-condensing	10 ~ 95% @ 40 °C, non-condensing
	Operating Vibration (5~500 Hz)	0.25Grms	0.25Grms
Miscellaneous	Notification LED	Power status, HDD Status, Fan Status, Location, Overheat, Node Status, Node Alert	Power Status, System Error, HDD Status, LAN LED, Location

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



Product Categories		Disk Expansion Enclosure	Storage Server
Model Name		SKY-4120B	SKY-4311
System	Form Factor	2U 24 bay	1U 8 bay
	Number of Drives	24 bays (2.5")	8 bays (2.5")
	Drive Type	12/6 Gb/s SAS	NVMe/SATA
	CPU Type	-	Dual LGA 2011-R3 supports Intel® Xeon® E5-2600 V3/ V4 series
	Chipset	-	Intel® C612
	Memory Type	-	16 x DDR4-2133 ECC RDIMM (up to 512 GB)
	Storage Expansion	3 x Mini-SAS HD wide-ports (2 for SAS in, 1 for SAS out)	2 x PCIe x8 (Gen3) (supports 1 x HHHL card and 1 x FHHL card)
	Configuration	Redundant controller	-
	TPM	-	-
	Smart Fan Control	✓	✓
Expansion Slot	PCIe x16	-	-
	PCIe x8	-	2 (supports 1 x HHHL card and 1 x FHHL card)
Display	Integrated Chipset	-	-
	Display Memory	-	1 GB
	VGA	-	ASPEED AST-2400
Ethernet	RJ-45 Ethernet	Remote management - SNMP trap supported	2
I/O	Front I/O	-	1 x USB 2.0
	Rear I/O	1 x LAN RJ45 3 x Mini-SAS HD wide-ports (2 for SAS in, 1 for SAS out)	1 x VGA 1 x COM RS-232 4 x USB 3.0 2 x LAN RJ45
	Internal I/O Connector	-	2 x M.2 connectors (2242)
Power Supply	Power Output	550W redundant power	1100W redundant power
	Input Range	100 ~ 240V _{AC}	100 ~ 240V _{AC}
Mechanical	Dimensions (L x W x H)	502 x 438 x 88.4 mm (19.7" x 17.2" x 3.4")	626 x 430 x 44 mm (24.6" x 16.9" x 1.7")
	Weight	20 kg (without hard drives)	15 kg (without hard drives)
Environmental	Operating Temperature	0 ~ 40 °C (32 ~ 104 °F)	0 ~ 40 °C (32 ~ 104 °F)
	Non-Operating Temperature	-40° C ~ 60° C (-40° F ~ 140° F)	-20 ~ 60 °C (-4 ~ 140 °F)
	Operating Humidity	95% @ 40° C, non-condensing	10 ~ 85% @ 40 °C, non-condensing
	Non-Operating Humidity	95% @ 60° C, non-condensing	10 ~ 95% @ 40 °C, non-condensing
	Operating Vibration (5~500 Hz)	0.25Grms	0.25Grms
Miscellaneous	Notification LED	System power, system alert, location, controller fan, controller temperature, controller ready	Power Status, System Error, HDD Status, LAN LED, Location

✓: supported, -: not supported, Δ: optional

GPU Servers

NEW



NEW



NEW



Model Name		SKY-6100		SKY-6200		SKY-6400	
Processor Support		Intel LGA3647-P0 Xeon Scalable processor (up to 140W TDP)		Intel LGA3647-P0 Xeon Scalable processor (up to 140W TDP)		Intel LGA3647-P0 Xeon Scalable processor (up to 205W TDP)	
Expansion Slots		5 x PCIe x16 slot (Gen3 x16 link) for five HH/HL cards or one FH/FL + one FH/HL card.		Four PCIe x16 slot (Gen3 x16 link) for 4 x/10.5" + one PCIe x8 slot (Gen3 x8 link) for FH/HL card		4 x PCIe x16 slot (Gen3 x16 link) for FH/10.5" double-deck cards + one PCIe x8 slot (Gen3 x8 link) for FH/HL card + one PCIe x4 slot (Gen3 x4 link) for FH/HL card	
Drive Bay	Slim ODD Bay	0		1		-	
	2.5" Hot Swap	2		8		-	
	2.5" Internal	-		-		-	
	3.5" Hot Swap	-		-		8	
Cooling	Chassis Fan	6 x 4056 high speed fan + 1 x 4028 system fan		2 x 8038 CPU fan + 4 x 8038 card cage fan		4 x 12038 system fan	
	Air Filter	-		-		-	
Chassis Intrusion Alarm		✓		✓		✓	
Front USB		2 x USB2.0		2 x USB2.0		2 x USB3.0	
Miscellaneous	LED Indicators	Power Status, LAN Status, System information LED		Power Status, LAN Status, System information LED		Power status, HDD activity, LAN1 & LAN2	
	Rear Panel	-		-		-	
Environment	Temperature	Operating	Non-Operating	Operating	Non-Operating	Operating	Non-Operating
		0 ~ 35 °C (32 ~ 95 °F)	-40 ~ 60 °C (-40 ~ 140 °F)	0 ~ 35 °C (32 ~ 95 °F)	-20 ~ 60 °C (-4 ~ 140 °F)	0 ~ 35 °C (32 ~ 95 °F)	-20 ~ 60 °C (-4 ~ 140 °F)
	Humidity	95% @ 40 °C	95% @ 60 °C	10 ~ 85% @ 40 °C	10 ~ 95% @ 40 °C	95% @ 40 °C	95% @ 40 °C
	Vibration (5~500 Hz)	0.25 Grms	2 G	0.5 Grms	2 G	0.25 Grms	2 G
	Shock	10G (with 11ms duration, half since wave)	△	10G (with 11ms duration, half since wave)	30G	10G (with 11ms duration, half since wave)	△
Physical Characteristics	Dimensions (W x H x D)	438 x 44 x 650 (17.24" x 1.7" x 25.6")		438 x 44 x 760 (17.24" x 1.7" x 29.92")		435 x 177 x 673 mm (17.12" x 6.96" x 26.49")	

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



Model Name		AGS-913	AGS-923	HPC-7400-S813
Processor Support		Dual Intel® Xeon® E5-2600 v3/v4	Dual Intel® Xeon® E5-2600 v3/v4	Single Intel® Xeon® E5-2600 v3/v4
Expansion Slots		3 x PCIe x16 double-depth card + 1 x PCIe x8 FH/HL card	4 x PCIe x16 double-depth card + 1 x PCIe x8 FH/HLcard	2 x PCIe x16 double-depth card + 1 x PCIe x8 + PCIe x4 + 1 x PCIe x1
Drive Bay	Slim ODD Bay	-	-	-
	2.5" Hot Swap	4	8	-
	3.5" Hot Swap	-	-	2
Cooling	Chassis Fan	7 x 40x56 + 2 x 40x28 high speed fan	4 x 80x38 + 1 x 80x20 + 1 x 80x38 (Δ) high speed fan	3 x 80x38 + Δ 2 (6cm) rear fans
	Air Filter	-	-	✓
Chassis Intrusion Alarm		✓	✓	✓
Front USB		2	2	2
Miscellaneous	LED Indicators	Power status, HDD activity, LAN status, location, error message	Power status, HDD activity, LAN status, location, error message	Power switch and system reset button
	Rear Panel	Location, error message	Location, error message	-
Environment	Operating		Non-Operating	
	Temperature	0 ~ 40 °C (32~104 °F)	-20 ~ 60 °C (-4 ~ 140 °F)	
	Humidity	10 ~ 85% @ 40 °C	10 ~ 95% @ 40 °C	
	Vibration (5~500 Hz)	0.5 Grms	2G	2G
	Shock	10 G (with 11ms duration, half sine wave)	10 G (with 11ms duration, half sine wave)	10 G (with 11ms duration, half sine wave)
Physical Characteristics	Dimensions (W x H x D)	430 x 44 x 770 mm (16.9" x 1.7" x 30.3")	430 x 88 x 770 mm (16.9" x 3.4" x 30.3")	482 x 177 x 448 mm (18.9" x 6.9" x 17.6")



Model Name		HPC-7400-S923	HPC-7483-S923
Processor Support		Intel Xeon E5-2500 v4/v3 processor	
Expansion Slots		3 x PCIe x 16 double-depth cards	4 x PCIe x 16 double-depth cards
Drive Bay	Slim ODD Bay	-	-
	2.5" Internal	2 rear-accessible (3.5"/2.5")	2
	2.5" Hot Swap	-	
	3.5" (internal)	2 rear-accessible (3.5"/2.5")	8
	5.25" (front accessible)	2	3
Cooling	Chassis Fan	(8 cm/1.41.9 CFM) + Δ 2 (6 cm) rear fans	3 (12 cm / 226.5 CFM)+ Δ 2 (8 cm) rear fans
	Air Filter	✓	-
Chassis Intrusion Alarm		✓	✓
Front USB		2	2
Miscellaneous	LED Indicators	Power switch , system reset button,HDD, LAN1,LAN2	System: Power, HDD, LAN1, LAN2, System information HDD Tray: HDD Power and Activity LED
	Rear Panel	-	Two 9-pin D-Sub and two PS2 and two USB
Environment		Operating	Non-Operating
	Temperature	0 ~ 35 °C (32 ~ 95 °F)	-20 ~ 60 °C (-4 ~ 140 °F)
	Humidity	10 ~ 85% @ 35 °C	10 ~ 95% @ 40 °C
	Vibration (5~500 Hz)	1 Grms	2 G
	Shock	10G	
Physical Characteristics	Dimensions (W x H x D)	482x 177 x 448 mm (18.9° x 6.9° x 17.6°)	435 x 177 x 658 mm (17.1° x 6.9° x 25.9°)

✓: supported, -: not supported, Δ: optional

GPU Servers

Compatible GPU/Xeon Phi

Advantech Product Model GPU Card Vendor			1U		2U		3U chassis HPC-7320/ 4U chassis HPC-7483 & HPC-7400					4U			
			AGS-913	SKY-6100	AGS-923	SKY-6200	ASMB-813	ASMB-822	ASMB-913	ASMB-922	ASMB-923	HPC-7400-S813	HPC-7400-S923	HPC-7483-S923	SKY-6400
Nvidia	Tesla	P100	*	✓	*	✓	✓	✓	✓	✓	✓	✓	✓	*	✓
		P40	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	*	✓
		M60	*	✓	*	✓	✓	✓	✓	✓	✓	*	✓	✓	✓
		M40	*	✓	*	✓	✓	✓	✓	✓	✓	✓	*	*	✓
		K80	✓	✓	*	✓	✓	✓	✓	✓	✓	*	*	✓	✓
		K40	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
AMD	Workstation	W9000	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		W9100	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Server	S9000	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		S9150	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Note:

1. ✓ means they have already passed compatibility tests (GPU card and driver install).

2. * means qualified tesla server by Nvidia

3. Some GPU cards need to enable "Above 4G Decoding" in BIOS setup menu when installing multiple GPU cards

GPU P/N

Cat.	Part Number	Description
NVS series GPU cards	SKY-NVS-810E	NVS 810 4GB PCI-E x16 MDP*8 FS
Quadro series GPU cards	SKY-QUAD-GP100	Quadro GP100 16GB PCI-Ex16 DVI-D*1 DP*4 FS
	SKY-QUAD-M5000E	Quadro M5000 8GB PCI-Ex16 DVI*1 DP*4 FS
	SKY-QUAD-M6000-2E	Quadro M6000 24GB PCI-Ex16 DVI*1 DP*4 FS
	SKY-QUAD-M6000E	Quadro M6000 12GB PCI-Ex16 DVI*1 DP*4 FS
	SKY-QUAD-P400	Quadro P400 2GB PCI-Ex16 MDP*2 FS
	SKY-QUAD-P600	Quadro P600 2GB PCI-Ex16 MDP*4 FS
	SKY-QUAD-P1000	Quadro P1000 4GB PCI-Ex16 MDP*4 FS
	SKY-QUAD-P2000	Quadro P2000 5GB PCI-Ex16 DP*4 FS
	SKY-QUAD-P4000	Quadro P4000 8GB PCI-Ex16 DP*4 FS
	SKY-QUAD-P5000E	Quadro P5000 12GB PCI-Ex16 DVI-D*1 DP*4 FS
	SKY-QUAD-P6000E	Quadro P6000 24GB PCI-Ex16 DVI-D*1 DP*4 FS
Tesla series GPU cards	SKY-TESL-K40-AE	Tesla K40 12GB PCI-E x16 FS
	SKY-TESL-K40-PE	Tesla K40 12GB PCI-E x16 HS
	SKY-TESL-K80E	Tesla K80 24GB PCI-E x16 HS
	SKY-TESL-M10-PE	Tesla M10 32GB PCI-E x16 HS
	SKY-TESL-M40-2E	Tesla M40 24GB PCI-E x16 HS
	SKY-TESL-M40E	Tesla M40 12GB PCI-E x16 HS
	SKY-TESL-M4E	Tesla M4 4GB PCI-E x16 HS/Low profile
	SKY-TESL-M6-MXM-PE	Tesla M6 8GB MXM3.1 type B HS
	SKY-TESL-M60-PLRE	Tesla M60 16GB PCI-E x16 HS L to R
	SKY-TESL-M60-PRLE	Tesla M60 16GB PCI-E x16 HS R to L
	SKY-TESL-P100-16P	Tesla P100-PCI-E-16GB x16 HS
	SKY-TESL-P100-PE	Tesla P100 12GB PCI-E x16 HS
	SKY-TESL-P4-PE	Tesla P4 8GB PCI-E x16 HS
	SKY-TESL-P40-PE	Tesla P40 24GB PCI-E x16 HS

Server Boards

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Model Name		ASMB-260	ASMB-584	ASMB-585	ASMB-586	ASMB-782
Form Factor		Mini-ITX	Micro ATX	Micro ATX	Micro ATX	ATX
Processor System	CPU	Intel® Atom® C3000 Series	Intel® Xeon® E3 v3 and 4th Gen. Core™ i3/i5/i7 Series	Intel® Xeon® E3 v5/v6 and 6th/7th Gen. Core™ i3/i5/i7 Series	Intel® Xeon® E & 8th Gen. Core™ i3/i5/i7 Series	Intel Xeon E3/E3 v2/ 2nd and 3rd Gen. Core i7/i5/i3/ Pentium Series
	Socket	-	1 x socket 1150	1 x socket 1151	1 x socket 1151	1 x socket 1155
	Max. Speed	2.2 GHz	3.5 GHz	3.6 GHz	3.7 GHz	3.5 GHz
	Front Side Bus	-	-	-	-	-
	L3 Cache	2 MB (based on CPU sku)	8 MB	8 MB	13.5 MB	8 MB
	Chipset	-	Intel C226	Intel C236	Intel C246	Intel C216
Expansion Slot	BIOS	AMI 128 Mbit, SPI	AMI 128Mbit, SPI	AMI 128Mbit, SPI	AMI 128Mbit, SPI	AMI 64 Mbit, SPI
	PCI	-	1*	-	-	3
	PCIe x16	-	-	1 (Gen3 x16 link)	1	-
	PCIe x8	-	2 (x16 slot with x8 link)	-	-	2 (x16 slot with x8 link)
	PCIe x4	1 (1 Gen3 x 4 link)	1	3 (2 Gen3 x4 link, 1 Gen3 x1 link)	2	2
Memory	Technology	DDR4 Reg/unbuffered 2400/2133/1866/1600 Mhz DIMM	DDR3 ECC/non-ECC Unbuffer 1066/1333/1600 Mhz	DDR4 ECC/non-ECC Unbuffer 1600/1866/2133/2400 Mhz	DDR4 ECC/non-ECC Unbuffer 2133/2400/2666 Mhz	DDR3 ECC/Non-ECC Unbuffer 1066/1333/1600 Mhz
	Max. Capacity	128 GB for RDIMM/ 64GB for UDIMM	32 GB ECC/Non-ECC UDIMM	64 GB ECC/Non-ECC UDIMM	64 GB ECC/Non-ECC UDIMM	32 GB ECC/Non-ECC UDIMM
	Socket	4x 288-pin DIMM	4 x 240-pin DIMM	4 x 288-pin DIMM	4 x 288-pin DIMM	4 x 240-pin DIMM
Graphics	Controller	AST2500	Intel GT2-HD Graphics	Intel GT2-HD Graphics	Intel GT2-HD Graphics	Intel HD Graphics
	VRAM	DDR3 64MB	1 GB maximum shared memory with 2 GB and above system memory installed	1 GB maximum shared memory with 2 GB and above system memory installed	1 GB maximum shared memory with 2 GB and above system memory	1 GB maximum shared memory with 2 GB and above system memory installed
	LCD	-	-	-	-	-
	TV-Out	-	-	-	-	-
	HDMI	-	-	-	1	-
	DVI	-	1	2	1	✓ (pin header)
	Dual Display	✓	✓	✓	✓	✓ (pin header for DVI)
Ethernet	Interface	10/100/1000 Mbps Gigabit & 10GBase-T Ethernet	10/100/1000 Mbps Gigabit Ethernet	10/100/1000 Mbps Gigabit Ethernet	10/100/1000 Mbps Gigabit Ethernet	10/100/1000 Mbps Gigabit Ethernet
	Controller	2 x Intel I210AT + 1 x Intel X557-AT2	1 x Intel I217LM, 1 x Intel I210AT (G2 SKU only)	1 x Intel I219LM, 3 x Intel I210AT (G4 SKU only)	1 x Intel I219LM, 3 x Intel I210AT (G4 SKU only)	1 x Intel 82579LM + 3 x Intel 82574L (G4 SKU only)
	Connector	RJ-45 x 3 (1 sharing IPMI function)	RJ-45 x 2 (G2 SKU) / RJ-45 x1 (VG SKU)	RJ-45 x 2 (G2 SKU) / RJ-45 x4 (G4 SKU)	RJ-45 x 2 (G2 SKU) / RJ-45 x4 (G4 SKU)	RJ-45 x 4 (G4 SKU) / RJ-45 x 2 (G2 SKU)
TPM		Optional	Optional	Optional	Optional	Optional
SATA	Max. Data Transfer Rate	600MB/s for SATA3	600 MB/s	600 MB/s	600 MB/s	300MB/s for SATA2 600 MB/s for SATA3
	Channel	Up to 8	6	7	8	4 for SATA2, 2 for SATA3
SAS	Max. Data Transfer Rate	-	-	-	-	-
	Channel	-	-	-	-	-
Rear I/O	VGA/DVI/HDMI/DP	1 / - / - / -	1 / 1 / - / 2	1 / 2 / - / -	1 / 1 / 1 / -	1 / - / - / -
	Ethernet	3	2 for G2 SKU and 1 for VG SKU	2 for G2 SKU and 4 for G4 SKU	2 for G2 SKU and 4 for G4 SKU	4 for G4 SKU and 2 for G2 SKU
	USB	2 (USB 3.0)	4 (2 USB 3.0; 2 USB 2.0)	4 (USB 3.0)	4 (USB 3.1)	4 (2 USB 3.0; 2 USB 2.0)
	Audio	-	Mic-in, Line-out	Mic-in, Line-out	Mic-in, Line-out	-
	Parallel	-	-	-	-	-
	Serial	1 (RS-232)	-	1 (RS-232)	1 (RS-232)	1 (RS-232)
	PS/2	-	-	-	-	2
Internal Connector	DVI	-	-	-	-	✓ (pin header)
	USB	2 (2 USB3.0)	9 (2 USB 3.0; 6 USB 2.0; 1 USB 2.0 Type A)	9 (2 USB 3.0; 6 USB 2.0; 1 USB 2.0 Type A)	9 (2 USB 3.0; 6 USB 2.0; 1 USB 2.0 Type A)	10 (2 USB 3.0; 6 USB 2.0; 2 USB 2.0 Type-A)
	Audio	-	1	1	1	1
	Serial	1	2	3	1	1
	Parallel	-	1	-	-	1
	SATA	8	6	7	8	6
	SAS	-	-	-	-	-
	Compact Flash	-	-	-	-	-
Watchdog Timer	GPIO	8 bit GPIO	8 bit GPIO	8 bit GPIO	8 bit GPIO	1 (SATA SGPIO)
	Output	System reset	System reset	System reset	System reset	System reset
	Interval	Programmable, 1 ~ 255 sec	Programmable, 1 ~ 255 sec	Programmable, 1 ~ 255 sec	Programmable, 1 ~ 255 sec	Programmable, 1 ~ 255 sec

* ASMB-584 A2 version has removed PCI slot for 1U & 2U chassis with riser.

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

1
Software and Industry
Solutions

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Industrial Server

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Intelligent System

4
Intelligent HMI and
Monitors

5
Automation Computers
and Controllers

6
Industrial
Communication

7
Remote I/O Modules

8
Industrial I/O and
Video Solutions

Server Boards

NEW



Model Name		ASMB-784	ASMB-785	ASMB-786	ASMB-822	ASMB-813
Form Factor		ATX	ATX	ATX	ATX	ATX
Processor System	CPU	Intel® Xeon® E3 v3 and 4th Gen. Core™ i3/i5/i7 Series	Intel® Xeon® E3 v5/v6 and 6th/7th Gen. Core™ i3/i5/i7 Series	Intel® Xeon® E & 8th Gen. Core™ i3/i5/i7 Series	Intel® Xeon® E5-1600/1600 v2 / 2600 / 2600 v2	Intel® Xeon® E5-1600 v3/v4 and 2600 v3/v4 Series Core i7 Series
	Socket	1 x socket 1150	1 x socket 1151	1 x socket 1151	1 x socket 2011	1 x socket 2011-R3
	Max. Speed	3.5 GHz	3.6 GHz	3.7 GHz	3.7 GHz	2.5 GHz
	Front Side Bus	-	-	-	-	QPI 9.6GT/s
	L3 Cache	8MB	8MB	13.5 MB	20 MB	30 MB
	Chipset	Intel C226	Intel C236	Intel C246	Intel C602J	Intel C612
Expansion Slot	BIOS	AMI 128Mbit, SPI	AMI 128Mbit, SPI	AMI 128Mbit, SPI	AMI 64 Mbit, SPI	AMI 128 Mbit, SPI
	PCI	3	3	-	1	-
	PCIe x16	1 (switchable to two x8)	1 (switchable to two x8)	1 (switchable to two x8)	-	2/0
	PCIe x8	2 (switchable to one x16)	2 (switchable to one x16)	2 (switchable to one x16)	5	1/5
	PCIe x4	-	-	2	1	1
Memory	PCIe x1	2	2	3	-	1
	Technology	DDR3 ECC/Non-ECC Unbuffer 1066/1333/1600 MHz	DDR4 ECC/Non-ECC Unbuffer 1600/1866/2133/2400 MHz	DDR4 ECC/non-ECC Unbuffer 2133/2400/2666 MHz	DDR3 REG/ECC/Non-ECC Unbuffer 1066/1333/1600 MHz	DDR4 REG 2400/2133/1866/1600/1333 MHz DIMM
	Max. Capacity	32 GB ECC/Non-ECC UDIMM	64 GB ECC/Non-ECC UDIMM	64 GB ECC/Non-ECC UDIMM	96 GB/Non-ECC/ECC/REG DIMM	256 GB REG DIMM
Graphics	Socket	4 x 240-pin DIMM	4 x 288-pin DIMM	4 x 288-pin DIMM	6 x 240-pin DIMM	8 x 288-pin DIMM
	Controller	Intel GT2-HD Graphics	Intel GT2-HD Graphics	Intel GT2-HD Graphics	AST1300/AST2300	AST1400/AST2400
	VRAM	1 GB maximum shared memory with 2 GB and above system memory installed	1 GB maximum shared memory with 2 GB and above system memory installed	1 GB maximum shared memory with 2 GB and above system memory	DDR3 64MB	DDR3 64MB
	LCD	-	-	-	-	-
	TV-Out	-	-	-	-	-
	HDMI	-	-	1	-	-
Ethernet	DVI	2	2	1	-	-
	Dual Display	✓	✓	✓	-	-
	Interface	10/100/1000 Mbps Gigabit Ethernet	10/100/1000 Mbps Gigabit Ethernet	10/100/1000 Mbps Gigabit Ethernet	10/100/1000 Mbps Gigabit Ethernet	10/100/1000 Mbps Gigabit Ethernet
TPM	Controller	1 x Intel I217LM + 3 x Intel I210AT (G4 SKU only)	1 x Intel I219LM + 3 x Intel I210AT (G4 SKU only)	1 x Intel I219LM + 3 x Intel I210AT (G4 SKU only)	1 x Intel 82579LM + 1 x Intel I210AT + 1 x Realtek 8201EL (ASMB-8221 SKU only)	2 x Intel I210AT
	Connector	RJ-45 x 4 (G4 SKU) / RJ-45 x2 (G2 SKU)	RJ-45 x 2 (G2 SKU) / RJ-45 x4 (G4 SKU)	RJ-45 x 2 (G2 SKU) / RJ-45 x4 (G4 SKU)	RJ-45 x 3 (1 for IPMI function)	RJ-45 x 3 (1 for IPMI function)
SATA	Max. Data Transfer Rate	600 MB/s	600 MB/s	600 MB/s	300MB/s for SATA2 600 MB/s for SATA3	600MB/s for SATA3
	Channel	6	6	8	4 for SATA2, 2 for SATA3	8 for SATA3
SAS	Max. Data Transfer Rate	-	-	-	-	-
	Channel	-	-	-	-	-
Rear I/O	VGA/DVI/HDMI/DP	1 / 2 / - / -	1 / 2 / - / -	1 / 1 / 1 / -	1 / - / - / -	1 / - / - / -
	Ethernet	4 for G4 SKU and 2 for G2 SKU	2 for G2 SKU and 4 for G4 SKU	2 for G2 SKU and 4 for G4 SKU	2	2
	USB	4 (2 USB 3.0; 2 USB 2.0)	4 (USB 3.0)	4 (USB 3.1)	6 (2 x USB 3.0)	4 (USB 3.0), 2 (USB 2.0)
	Audio	-	Mic-in, Line-out	Mic-in, Line-out	-	-
	Parallel	-	-	-	-	-
	Serial	1 (RS-232)	1 (RS-232)	1 (RS-232)	1 (RS-232)	1 (RS-232)
Internal Connector	PS/2	2	-	-	2	2
	DVI	-	-	-	-	-
	USB	9 (2 USB 3.0; 6 USB 2.0; 1 USB 2.0 Type A)	9 (2 USB 3.0; 6 USB 2.0; 1 USB 2.0 Type A)	9 (2 USB 3.0; 6 USB 2.0; 1 USB 2.0 Type A)	8 (6 USB 2.0, 2 USB 2.0 Type-A)	5 (2 USB3.0, 2 USB2.0, 1 USB 2.0 Type-A)
	Audio	1	1	1	1	1
	Serial	1	3	1	1	1
	Parallel	1	1	1	1	-
	SATA	6	6	8	6	8
	SAS	-	-	-	-	-
Watchdog Timer	Compact Flash	-	-	-	-	-
	GPIO	8 bit GPIO	8 bit GPIO	8 bit GPIO	8 bit GPIO	8 bit GPIO
	Output	System reset	System reset	System reset	System reset	System reset
Interval	Interval	Programmable 1~255 sec	Programmable 1~255 sec	Programmable 1~255 sec	Programmable, 1 ~ 255 sec	Programmable, 1 ~ 255 sec

* ASMB-584 A2 version has removed PCI slot for 1U & 2U chassis with riser.

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



Model Name		ASMB-823	ASMB-815	ASMB-825	ASMB-922
Form Factor		ATX	ATX	ATX	EATX
Processor System	CPU	Intel® Xeon® E5-2600 v3/v4 Series	Intel® Xeon® Scalable Series	Intel® Xeon® Scalable Series	Intel® Xeon® E5-2600 / 2600 v2
	Socket	2 x socket 2011-R3	1 x socket 3647-P0	2 x socket 3647-P0	2 x socket 2011
	Max. Speed	2.5 GHz	3.6 GHz	3.6 GHz	2.1 GHz
	Front Side Bus	QPI 9.6GT/s	Up to UPI 10.4 GT/s	Up to UPI 10.4 GT/s	QPI 8 GT/s
	L3 Cache	30 MB	38.5 MB	38.5 MB	20 MB
	Chipset	Intel C612	Intel C620	Intel C620	Intel C602J
	BIOS	AMI 128 Mbit, SPI	AMI 256 Mbit, SPI	AMI 256 Mbit, SPI	AMI 64 Mbit, SPI
Expansion Slot	PCI	-	-	-	-
	PCIe x16	4	2/0	4	4 (1 for PME)
	PCIe x8	2	1/5	2	1
	PCIe x4	1 (x8 slot with x4 link)	1	-	-
Memory	Technology	DDR4 REG 2400/2133/1866/1600/1333 MHz DIMM	DDR4 REG 2666/2400/2133 MHz DIMM	DDR4 REG 2666/2400/2133 MHz DIMM	DDR3 REG/ECC/non-ECC Unbuffer 1066/1333/1600 MHz
	Max. Capacity	192 GB REG DIMM	192 GB REG DIMM	192 GB REG DIMM	128 GB/Non-ECC/ECC/REG DIMM
	Socket	6 x 288-pin DIMM	6 x 288-pin DIMM	8 x 288-pin DIMM	8 x 240-pin DIMM
	Controller	AST1400/AST2400	AST2510/AST2500	AST2510/AST2500	AST1300/AST2300
Graphics	VRAM	DDR3 64MB	DDR3 64MB	DDR3 64MB	DDR3 64MB
	LCD	-	-	-	-
	TV-Out	-	-	-	-
	HDMI	-	-	-	-
	DVI	-	-	-	-
	Dual Display	-	-	-	-
Ethernet	Interface	10/100/1000 Mbps Gigabit Ethernet	10/100/1000 Mbps Gigabit & 10GBase-T Ethernet	10/100/1000 Mbps Gigabit & 10GBase-T Ethernet	10/100/1000 Mbps Gigabit Ethernet
	Controller	2 x Intel I210AT	2 x Intel I210AT + 1 x Intel X557-AT2 1 x Realtek 8201EL (ASMB-815/815T2 SKUs)	2 x Intel I210AT + 1 x Intel X557-AT2	1 x Intel 82579LM + 1 x Intel I210AT 1 x Realtek 8201EL (ASMB-922I SKU only)
	Connector	RJ-45 x 3 (1 sharing IPMI function)	RJ-45 x 5 (1 for IPMI function)	RJ-45 x 4 (1 sharing IPMI function)	RJ-45 x 3 (1 for IPMI function)
TPM		△	△	△	△
SATA	Max. Data Transfer Rate	600MB/s for SATA3	600MB/s for SATA3	600MB/s for SATA3	300MB/s for SATA2 600 MB/s for SATA3
	Channel	9 for SATA3	9 for SATA3	9 for SATA3	4 for SATA2, 2 for SATA3
SAS	Max. Data Transfer Rate	-	-	-	-
	Channel	-	-	-	-
Rear I/O	VGA/DVI/HDMI/DP	1 / - / - / -	1 / - / - / -	1 / - / - / -	1 / - / - / -
	Ethernet	2	4 (T2 SKU)	4 (T2 SKU)	2
	USB	4 (USB 3.0)	4 (USB 3.0), 2 (USB 2.0)	2 (USB 3.0)	4 (2 x USB 3.0)
	Audio	-	-	-	-
	Parallel	-	-	-	-
	Serial	-	1 (RS-232)	1 (RS-232)	1 (RS-232)
	PS/2	-	-	-	2
Internal Connector	DVI	-	-	-	-
	USB	5 (2 USB3.0, 2 USB2.0, 1 USB 2.0 Type-A)	5 (2 USB3.0, 4 USB2.0, 1 USB 2.0 Type-A)	5 (4 USB3.0, 4 USB2.0, 1 USB 2.0 Type-A)	9 (8 USB 2.0, 1 USB 2.0 Type-A)
	Audio	1	1	1	1
	Serial	1	1	1	1
	Parallel	-	-	-	-
	SATA	9	8	8	6
	SAS	-	-	-	-
	Compact Flash	-	-	-	-
	GPIO	8 bit GPIO	8 bit GPIO	8 bit GPIO	8 bit GPIO
Watchdog Timer	Output	System reset	System reset	System reset	System reset
	Interval	Programmable, 1 ~ 255 sec	Programmable, 1 ~ 255 sec	Programmable, 1 ~ 255 sec	Programmable, 1 ~ 255 sec

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

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Server Boards

NEW



Model Name		ASMB-913	ASMB-923	ASMB-925	ASMB-975	ASMB-935
Form Factor		EATX	EATX	EATX	Proprietary	EATX
Processor System	CPU	Intel® Xeon® E5-2600 v3/v4 Series	Intel® Xeon® E5-2600 v3/v4 Series	Intel® Xeon® Scalable Series	Intel® Xeon® Scalable Series	Intel® Xeon® Scalable Series
	Socket	2 x socket 2011-R3	2 x socket 2011-R3	2 x socket 3647-P0	2 x socket 3647-P0	2 x socket 3647-P0
	Max. Speed	2.5 GHz	2.5 GHz	3.6 GHz	3.6 GHz	3.6 GHz
	Front Side Bus	QPI 9.6GT/s	QPI 9.6GT/s	Up to UPI 10.4 GT/s	Up to UPI 10.4 GT/s	Up to UPI 10.4 GT/s
	L3 Cache	30 MB	30 MB	38.5 MB	38.5 MB	38.5 MB
	Chipset	Intel C612	Intel C612	Intel C620	Intel C620	Intel C620
	BIOS	AMI 128 Mbit, SPI	AMI 128 Mbit, SPI	AMI 256 Mbit, SPI	AMI 256 Mbit, SPI	AMI 256 Mbit, SPI
Expansion Slot	PCI	-	-	1	-	-
	PCIe x16	4 (1 for PME)	4	5	4	5
	PCIe x8	-	2	1	1	1
	PCIe x4	-	1	-	4	-
	PCIe x1	-	-	-	-	-
Memory	Technology	DDR4 REG 2400/2133/1866/1600/1333 MHz DIMM	DDR4 REG 2400/2133/1866/1600/1333 MHz DIMM	DDR4 REG 2666/2400/2133 MHz DIMM	DDR4 REG 2666/2400/2133 MHz DIMM	DDR4 REG 2666/2400/2133 MHz DIMM
	Max. Capacity	512 GB REG DIMM	256 GB REG DIMM	384 GB REG DIMM	384 GB REG DIMM	768 GB REG DIMM
	Socket	16 x 288-pin DIMM	8 x 288-pin DIMM	12 x 288-pin DIMM	12 x 288-pin DIMM	24 x 288-pin DIMM
Graphics	Controller	AST1400/AST2400	AST1400/AST2400	AST2510/AST2500	AST2510/AST2500	AST2510/AST2500
	VRAM	DDR3 64MB	DDR3 64MB	DDR3 64MB	DDR3 64MB	DDR3 64MB
	LCD	-	-	-	-	-
	TV-Out	-	-	-	-	-
	HDMI	-	-	-	-	-
	DVI	-	-	-	-	-
	Dual Display	-	-	-	-	-
Ethernet	Interface	10/100/1000 Mbps Gigabit Ethernet	10/100/1000 Mbps Gigabit Ethernet	10/100/1000 Mbps Gigabit & 10GBase-T Ethernet	10/100/1000 Mbps Gigabit & 10GBase-T Ethernet	10/100/1000 Mbps Gigabit & 10GBase-T Ethernet
	Controller	4 x Intel I210AT	2 x Intel I210AT	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 X557-AT2
	Connector	RJ-45 x 4 (1 sharing IPMI function)	RJ-45 x 3 (1 for IPMI function)	RJ-45 x 4 (1 sharing IPMI function)	RJ-45 x 4 (1 sharing IPMI function)	RJ-45 x 4 (1 sharing IPMI function)
TPM		△	△	△	△	△
SATA	Max. Data Transfer Rate	600MB/s for SATA3	600MB/s for SATA3	600MB/s for SATA3	600MB/s for SATA3	600MB/s for SATA3
	Channel	8 for SATA3	10 for SATA3	8 for SATA3	14 for SATA3	10 for SATA3
SAS	Max. Data Transfer Rate	-	-	-	-	-
	Channel	-	-	-	-	-
Rear I/O	VGA/DVI/HDMI/DP	1 / - / - / -	1 / - / - / -	1 / - / - / -	1 / - / - / -	1 / - / - / -
	Ethernet	4	2	4 (T2 SKU)	4 (T2 SKU)	4 (T2 SKU)
	USB	2 (USB 3.0)	2 (USB 3.0), 2 (USB 2.0)	4 (USB 3.0)	4 (USB 3.0)	4 (USB 3.0)
	Audio	-	-	-	-	-
	Parallel	-	-	-	-	-
	Serial	1 (RS-232)	1 (RS-232)	1 (RS-232)	1 (RS-232)	1 (RS-232)
	PS/2	-	2	-	-	-
Internal Connector	DVI	-	-	-	-	-
	USB	7 (4 USB3.0, 2 USB2.0, 1 USB 2.0 Type-A)	7 (2 USB3.0, 4 USB2.0, 1 USB 2.0 Type-A)	7 (2 USB3.0, 4 USB2.0, 1 USB 2.0 Type-A)	11 (8 USB3.0, 2 USB2.0, 1 USB 2.0 Type-A)	7 (2 USB3.0, 4 USB2.0, 1 USB 2.0 Type-A)
	Audio	1	1	1	1	1
	Serial	1	1	1	1	1
	Parallel	-	-	-	-	-
	SATA	8	10	8	12	10
	SAS	-	-	-	-	-
	M.2	-	-	-	2 x M.2 2280 (SATA)	1 x M.2 2280 (SATA & PCIe)
	Compact Flash	-	-	-	-	-
Watchdog Timer	GPIO	8 bit GPIO	8 bit GPIO	8 bit GPIO	8 bit GPIO	8 bit GPIO
	Output	System reset	System reset	System reset	System reset	System reset
	Interval	Programmable, 1 ~ 255 sec	Programmable, 1 ~ 255 sec	Programmable, 1 ~ 255 sec	Programmable, 1 ~ 255 sec	Programmable, 1 ~ 255 sec

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

Server Chassis

NEW



Height (1U = 1.75")		Tower			1U	
Model Name		HPC-2040	HPC-5000	HPC-7000	HPC-7120S	HPC-7120
Form Factor Support		Mini iTX	Micro ATX	Micro ATX, ATX, EATX	Micro ATX, ATX	Micro ATX, ATX
No. of slots / No. of full-size cards		1/0	4/2 (11.73" Length)	7/6	1/0	1/0
Drive Bay	Slim ODD Bay	1	1	1	-	-
	5.25" (front-accessible)	-	-	-	-	-
	3.5" (hot-swappable)	4	-	-	-	-
	3.5" (internal)	-	2*3.5" or 1*3.5" + 1*2.5"	3 (External)	-	-
	2.5" (hot-swappable)	-	-	-	2 (HPC-7120S-35ZXE only)	2 x SATA III
	2.5" (internal)	1	2*3.5" or 1*3.5" + 1*2.5"	-	2	-
Cooling	Chassis Fan	1 (12cm / 57.2CFM)	1 (12cm / 82CFM)	2 (12cm/150CFM)	3 (4 cm/23.1 CFM)	4 (4 cm/28.6 CFM)
	Air Filter	-	✓	-	-	-
Front I/O Interface	USB 3.0	2	2	2	2	2
	USB 2.0	-	2	-	-	-
Miscellaneous	LED Indicators	Power, LAN 1, LAN 2, HDD, System Information	System: Power	System: Power	System: Power, HDD, LAN1, LAN2, System Information HDD Tray: HDD Power and Activity LED	System: Power, HDD, LAN1, LAN2, System Information HDD Tray: HDD Power and Activity LED
	Rear Panel	One reserved DB-9 ports	Two reserved DB-9 ports	Two USB reserved ports	-	-
Environment	Operating Temperature	0 ~ 40 °C (32 ~ 122 °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)
	Non-Operating Temperature	-40 ~ 60 °C (-40 ~ 140 °F)	-40 ~ 70 °C (-40 ~ 158 °F)	-40 ~ 70 °C (-40 ~ 158 °F)	-40 ~ 70 °C (-40 ~ 158 °F)	-40 ~ 70 °C (-40 ~ 158 °F)
	Operating Humidity	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
	Non-operating Humidity	95% @ 60 °C, non-condensing	10 ~ 95% @ 60 °C non-condensing	10 ~ 95% @ 60 °C non-condensing	10 ~ 95% @ 60 °C non-condensing	10 ~ 95% @ 60 °C non-condensing
Physical Characteristics	Dimensions (W x H x D)	210 x 230 x 275 mm (8.3" x 9.1" x 10.8")	192 x 376.7 x 338.5 mm (7.56" x 14.83" x 13.33")	267.1 x 458 x 500 mm (10.52" x 18.03" x 19.69")	438 x 43 x 381 mm (17.24" x 1.7" x 15")	438 x 43 x 478 mm (17.24" x 1.7" x 18.82")

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

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Industrial Communication

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Industrial I/O and Video Solutions

Server Chassis



Height (1U = 1.75")		1U	2U		3U / Tower
Model Name		HPC-7140	HPC-7242	HPC-7282	HPC-7320
Form Factor Support		Micro ATX, ATX	Micro ATX, ATX	Micro ATX, ATX	Micro ATX, ATX, EATX
No. of slots / No. of full-size cards		1/0	3/3	7/0	7/6
Drive Bay	Slim ODD Bay	1	1	1	1
	5.25" (front-accessible)	-	-	-	-
	3.5" (hot-swappable)	4	4 (3.5" / 2.5")	8	2 (3.5" / 2.5")
	3.5" (internal)	-	-	2	2
	2.5" (hot-swappable)	△	4 (3.5" / 2.5")	△	2 (3.5" / 2.5")
	2.5" (internal)	-	2	-	-
Cooling	Chassis Fan	4 (4cm / 24CFM)	1 (8 cm/47CFM) + 2 (6 cm/28CFM)	3 (8cm / 52.6 CFM)	2 (8cm/141.9CFM) + 1 (6cm/27.72CFM)
	Air Filter	-	✓	-	✓
Front I/O Interface	USB 3.0	-	2	-	2
	USB 2.0	2	-	2	-
Miscellaneous	LED Indicators	System: Power, HDD, LAN1, LAN2, System Information HDD Tray: HDD Power and Activity LED	System: Power, HDD, LAN1, LAN2, temperature, fan HDD Tray: HDD Power and Activity LED	System: Power, HDD, LAN1, LAN2, System Information HDD Tray: HDD Power and Activity LED	System: Power, HDD, LAN1, LAN2 HDD Tray: HDD Power and Activity LED
	Rear Panel	-	Two reserved DB-9 ports	-	Two reserved DB-9 ports
Environment	Operating Temperature	0 ~ 35 °C (32 ~ 95 °F)	0 ~ 40 °C (32 ~ 104 °F)	0 ~ 40 °C (32 ~ 104 °F)	0 ~ 40 °C (32 ~ 104 °F)
	Non-Operating 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)
	Operating Humidity	10 ~ 85% @ 40 °C non-condensing	10 ~ 85% @ 40 °C non-condensing	10 ~ 85% @ 40 °C non-condensing	10 ~ 85% @ 40 °C non-condensing
	Non-operating Humidity	10 ~ 95% @ 60 °C non-condensing	10 ~ 95% @ 60 °C non-condensing	10 ~ 95% @ 60 °C non-condensing	10 ~ 95% @ 60 °C non-condensing
Physical Characteristics	Dimensions (W x H x D)	437 x 43.5 x 503 mm (17.2" x 1.7" x 19.85")	426.4 x 88 x 525 mm (16.79" x 3.46" x 20.67")	437 x 88.9 x 533.4 mm (17.2" x 3.5" x 21")	426.4 x 132.2 x 480 mm (16.79" x 5.2" x 18.9")

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



Height (1U = 1.75")		4U / Tower			
Model Name		HPC-7000	HPC-7400	HPC-7442	HPC-7483
Form Factor Support		Micro ATX, ATX, EATX	Micro ATX, ATX, EATX	Micro ATX, ATX, EATX	Micro ATX, ATX, EATX
No. of slots / No. of full-size cards		7/6	12/12	7/7	10/10
Drive Bay	Slim ODD Bay	1	-	1	-
	5.25" (front-accessible)	-	2	-	3
	3.5" (hot-swappable)	-	-	4 can upgrade to 8 (3.5" / 2.5")	8
	3.5" (internal)	3 (External)	2 rear-accessible (3.5" / 2.5")	1	-
	2.5" (hot-swappable)	-	-	4 can upgrade to 8 (3.5" / 2.5")	-
	2.5" (internal)	-	2 rear-accessible (3.5" / 2.5")	-	2
Cooling	Chassis Fan	2 (12cm/150CFM)	3 (8cm/141.9CFM)	1 (12 cm /114 CFM) + 1 (8 cm/55 CFM)	3 (12 cm /226.5 CFM)
	Air Filter	-	✓	✓	-
Front I/O Interface	USB 3.0	2	2	2	2
	USB 2.0	-	-	-	-
Miscellaneous	LED Indicators	System: Power	System: Power, HDD, LAN1, LAN2	System: Power, HDD, LAN1, LAN2, temperature, fan HDD Tray: HDD Power and Activity LED	System: Power, HDD, LAN1, LAN2, System information HDD Tray: HDD Power and Activity LED
	Rear Panel	-	-	Five DB-9 ports and one 68-pin SCSI openings	Two DB-9 ports and two PS2 and two USB
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)
	Non-Operating 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)
	Operating Humidity	10 ~ 95% @ 60 °C non-condensing	10 ~ 85% @ 40 °C non-condensing	10 ~ 85% @ 40 °C non-condensing	10 ~ 85% @ 40 °C non-condensing
	Non-operating Humidity	10 ~ 95% @ 60 °C non-condensing	10 ~ 95% @ 60 °C non-condensing	10 ~ 95% @ 60 °C non-condensing	10 ~ 95% @ 60 °C non-condensing
Physical Characteristics	Dimensions (W x H x D)	267 x 458 x 500 mm (10.52" x 18.03" x 19.69")	426 x 177 x 448 mm (16.7" x 7.0" x 17.6")	426 x 177 x 600 mm (16.7" x 7.0" x 23.6")	435 x 177 x 658 mm (17.13" x 7.0" x 25.5")

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

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- 8 Industrial I/O and Video Solutions

Server Chassis



Height (1U = 1.75")		1U	2U		3U	4U
Model Name		HPC-8104	HPC-8212	HPC-8224	HPC-8316	HPC-8424
Form Factor Support		Mico ATX, ATX	Mico ATX, ATX, EATX	Mico ATX, ATX, EATX	Mico ATX, ATX, EATX	Mico ATX, ATX, EATX
No. of slots / No. of full-size cards		1/0	7/0	7/0	7/6	7/6
Drive Bay	ODD Bay	1 x Ultra Slim ODD Bay	-	-	-	-
	3.5" (hot-swappable)	4 x SAS3 or SATA	12 x SAS3/SATA	-	-	-
	3.5" (internal)	-	-	-	16 x SAS3 or SATA	24 x SAS3/SATA
	2.5" (hot-swappable)	-	-	24 x SAS3/SATA +*2 (Rear)	2 (Rear)	2 (Rear)
	2.5" (internal)	2 or 3 (△)	-	-	-	-
	Expander	-	✓ (12)	✓ (24)	✓ (16 for SAS, 12 for SATA)	✓ (24)
	NVMe Support	-	✓ (4)	✓ (4)	-	✓ (4)
Cooling	Chassis Fan	5 (4cm)	4 (8cm)	4 (8cm)	4 (8cm)	4(8cm)
	Air Filter	-	-	-	-	-
Front I/O Interface	USB 3.0	2	-	-	2	-
	USB 2.0	-	2	2	-	2
Power Supply	Single Power Supply	350W, 500W	-	-	500W (TA SKU)	-
	Redundant Power Supply	-	550W, 650W, 800W	550W, 800W	550W, 800W	550W, 800W
Environment	Operating Temperature	0 ~ 35 °C (32 ~ 95 °F)	0 ~ 35 °C (32 ~ 95 °F)	0 ~ 35 °C (32 ~ 95 °F)	0 ~ 35 °C (32 ~ 95 °F)	0 ~ 35 °C (32 ~ 95 °F)
	Non-Operating 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)	-40 ~ 70 °C (-40 ~ 158 °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
	Non-operating Humidity	10 ~ 95% @ 60 °C non-condensing	10 ~ 95% @ 60 °C non-condensing	10 ~ 95% @ 60 °C non-condensing	10 ~ 95% @ 60 °C non-condensing	10 ~ 95% @ 60 °C non-condensing
Physical Characteristics	Dimensions (W x H x D)	438 x 43.9 x 530mm (17.24" x 1.73" x 20.9")	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")	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") / 435 x 132 x 620 mm (17.13 x 5.2 x 24.41")	438 x 176 x 540 mm (17.24" x 6.93" x 21.26") / 438 x 176 x 620 mm (17.24" x 6.93" x 24.41")

* R6A1E SKU support additional rear 2 Hot-swap 2.5"

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