

2

Industrial Server

2-2 Storage Servers

2-12 GPU Servers

2-31 Server Boards

2-73 Server Chassis



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

Storage Servers



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, △: optional

1
Software and Industry Solutions
2
Industrial Server
3
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

SKY-5240

2U 4 Node Hybrid Server, High Density & Flexible Storage, Dual 10GbE and 2 x PCIe Gen3 x16 Slots



CE FCC

Features

- Cutting edge technology, the latest Intel Xeon scalable family, up to 24 DIMMs per node
- Flexible IO option. Easily upgrade 1G/10G/40G/100G LAN via daughter boards
- Flexible storage, NVMe, SAS 12G, and SATA 6G support
- High efficiency up to 96% via platinum redundant power supply
- Supports two additional PCIe x16 by expansion cards

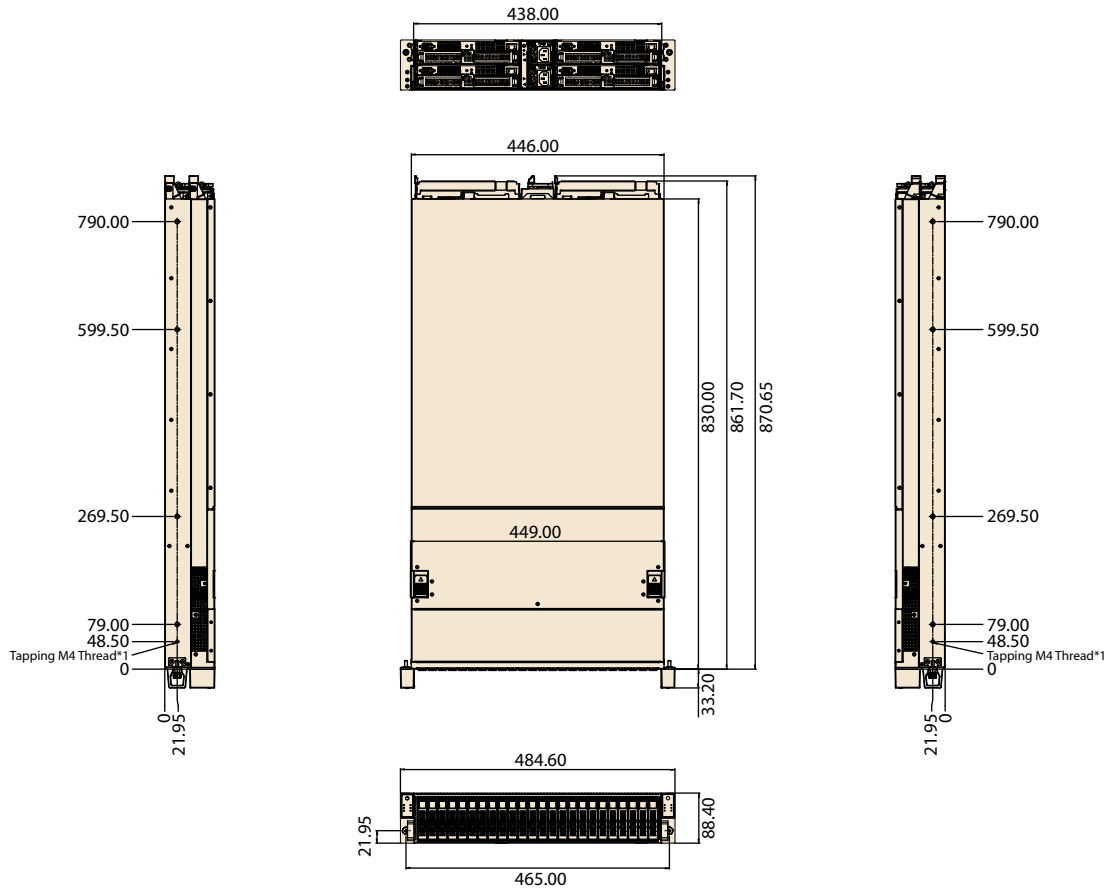
Specifications

System (per node)	Chipset	Intel C622	
	CPU	Intel Xeon Scalable dual processors (up to 145W TDP)	
	Memory	24 x DDR4-2666 ECC RDIMMs, maximum 768 GB	
Graphics (per node)	Controller	ASPEED AST2500	
	VRAM	64 MB	
Expansion Slot (per node)	PCIe x16	2 x PCIe Gen III x16 slots (Supports HHHL)	
Drive Bay	2.5" Hot-swappable	24 x 2.5" hot-swap HDD (2 x NVMe + 4 x SAS/SATA per node)	
Ethernet (per node)	Interface	2 x 10GBase-T LAN	
		1 x 100MBase-T IPMI LAN	
	Controller	1 x Intel X557-AT2 1 x Realtek RTL8201EL	
Rear I/O (per node)	USB	2 x USB 3.0	
	PS/2	-	
	COM	-	
	Display	1 x VGA	
	RJ45	3	
Internal Connector (per node)	Type-A USB	-	
	M.2 2280	1 (SATA or PCIe) 1 (SATA)	
Remote Management		IPMI2.0	
Watchdog Timer	Output	Interrupt, system reset	
	Interval	Programmable, 1~255 sec	
Power Supply	Power Output	2200W 80 PLUS Platinum 1+1 redundant power supply	
	Input Range	220 ~ 240V _{AC}	
Cooling	Chassis Fan	4 x 8038 high speed fan	
	Air Shroud	Yes	
Miscellaneous	LED Indicators	Power status, HDD Status, Fan Status, Location, Overheat, Node Status, Node Alert	
	Remote Management	Advantech Remote Monitoring Utility	
Environment		Operating	Non-operating
	Temperature	0 ~ 35 °C (32 ~ 95 °F)	-20 ~ 60 °C (-4 ~ 140 °F)
	Humidity	95% @ 40 °C, non-condensing	95% @ 40 °C, non-condensing
	Vibration (5 ~ 500 Hz)	0.25 Grms	-
Characteristics	Dimensions (D x W x H)	830 x 446 x 88 mm (32.68" x 17.56" x 3.46")	

SKY-5240

Dimensions

Unit: mm



- 1 Software and Industry Solutions
- 2 Industrial Server
- 3 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

ASR-3100

1U Rackmount Dual Intel® Xeon® E5-2600 v3/v4 Storage Server with 16 x 2.5" NVMe SSDs and 2 x PCIe Gen III x8 Slots



Features

- Dual LGA 2011-R3 Intel® Xeon® E5-2600 v3/v4 processors
- 16 DDR4-2133 RDIMMs for a maximum of 512 GB
- Up to 16 x hot-swappable 2.5" NVMe/SAS/SATA drives
- Intelligent Platform Management Interface (IPMI) support
- Supports 2 x PCIe Gen III x8 cards for I/O expansion
- 1100 W 1+1 redundant power supply with 80 PLUS Platinum certification

CE FCC

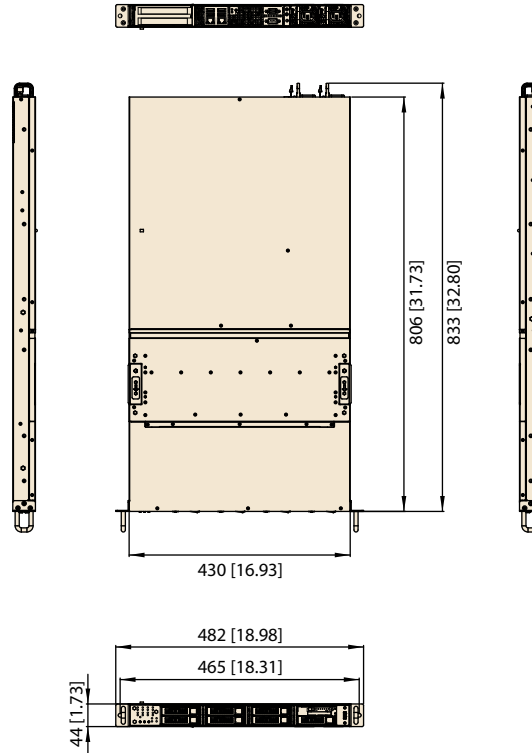
Specifications

System	Chipset	Intel® C612	
	CPU	Intel® Xeon® E5-2600(v3/V4) dual processor (up to 135W TDP)	
	Memory	16 x DDR4-2133 ECC RDIMMs, maximum 512 GB	
Graphics	Controller	ASPEED AST2400	
	VRAM	64 MB	
Expansion Slot	PXle x8	2 x PCIe Gen III x8 slots (Supports 1 x HHHL card and 1 x FHHL card)	
Drive Bay	2.5" (hot swappable)	Up to 16 x NVMeS/SAS (12Gb)/SATA (6Gb) drives (Refer to the ordering information for further details.)	
Ethernet	Interface	2 x 1 GB Base-T Ethernet	
	Controller	2 x Intel® I210	
Front I/O	USB	1 x USB 2.0	
Rear I/O	USB	4 x USB 3.0	
	PS/2	-	
	COM	1	
	Display	1 x VGA	
	RJ45	2	
Internal Connector	Type-A USB	-	
	SATA	2 (SATA M.2 2242)	
	LPC	-	
Watchdog Timer	Output	Interrupt, system reset	
	Interval	Programmable, 1~255 sec	
Power Supply	Power Output	80 PLUS Platinum 1+1 redundant power supply	
		900W @ 100 ~ 120 V 1100W @ 200 ~ 240 V	
	Input Range	100 ~ 240V _{AC}	
Cooling	Chassis Fan	7 x 4056	
	Air Filter	-	
Miscellaneous	LED Indicators	Power status, HDD activity, LAN status, location, error messages	
	Remote Management	Advantech Remote Monitoring Utility	
Environment	Temperature	Operating 0 ~ 40 °C (32~104 °F)	Non-operating -20 ~ 60 °C (-4 ~ 140 °F)
	Humidity	10 ~ 85% @ 40 °C	10 ~ 95% @ 40 °C
	Vibration (5 ~ 500 Hz)	0.25 Grms	-
Characteristics	Dimensions (D x W x H)	806 x 430 x 44 mm (31.7" x 16.9" x 1.7")	

ASR-3100

Dimensions

Unit: mm [inch]



Ordering Information

Part Number	2.5" Front HDD Bay	Second Row 2.5" HDD Bay	PCIe Slots	Chassis Depth	1 GbE	IPMI	Power Supply
ASR-3100PP-R11A1E	X8 NVMe	X8 NVMe + SATA (SAS optional)	2	806 mm	2	Yes	1+1 1100W RPS
ASR-3100PT-R11A1E	X8 NVMe	X8 SATA (SAS optional)	2	806 mm	2	Yes	1+1 1100W RPS
ASR-3100SS-R11A1E	X8 SAS+SATA	X8 SAS + SATA (x2 NVMe optional)	1*	806 mm	2	Yes	1+1 1100W RPS

Note:

- One slot is occupied by the SAS12G RAID card.
- For quality assurance purposes, the product must be sold as a complete system with the CPU, memory, and drives fully integrated and tested.

Package Contents

Part Number	Description	Quantity
CPU0 heatsink	Heatsink for E5-2600 series	1
CPU1 heatsink	Heatsink for E5-2600 series	1
Rail kit	1U slide rail kit	1
CMA	Cable management arm	1
Driver CD	ASR-3100 CD with drivers and user manual	1
Startup manual	ASR-3100 startup manual	1

Compatible NVMe Drives

Part Number	Description
96FD25-V2TB-IN7	Intel P3700 2.5" NVMe, 2.0TB, MLC
96FD25-V1.6TB-IN7	Intel P3700 2.5" NVMe, 1.6TB, MLC
96FD25-800-IN7	Intel P3700 2.5" NVMe, 800GB, MLC
96FD25-400-IN7	Intel P3700 2.5" NVMe, 400GB, MLC
TBD	Micron 9100 PRO 2.5" NVMe series
TBD	Micron 9100 MAX 2.5" NVMe series
TBD	Micron 9200 PRO 2.5" NVMe series

SKY-4120B

2U 24-Bay JBOD Enclosure for High-Availability Applications



Features

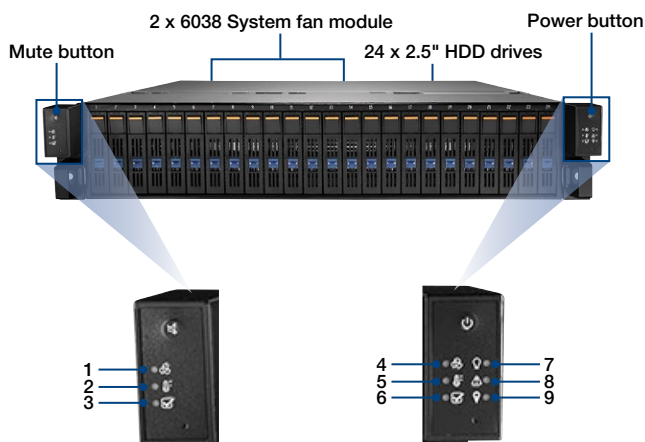
- Supports 24 x hot-swappable 2.5" SAS (12/6 Gb) drives
- SES enclosure management and smart fan control
- 3 x Mini SAS HD (SFF-8644) per expander module (2 x for input and 1 x for output)
- Storage daisy chain support for up to 72 drives
- High-efficiency (80PLUS) redundant power supply

CE FCC

Specifications

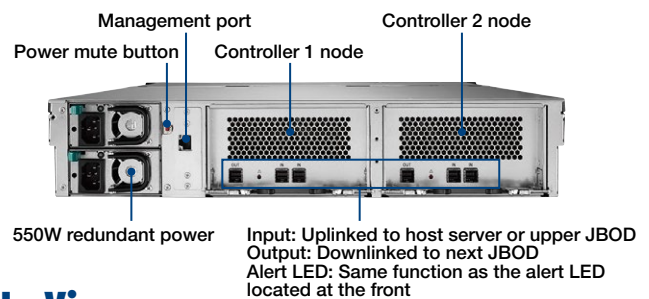
System	Form Factor	2U 24 bays	
	Number of Drives	24 x 2.5" bays	
	Drive Type	SAS 12/6 Gb only	
	SAS Expansion Port	3 x Mini SAS HD (SFF-8644) per expander module	
	Cooling	2 x (1+1) 6038 easy-swap fans with smart fan control	
Power Supply	Power Output	550W 1+1 redundant power	
	Input Range	100 ~ 240V _{AC}	
Mechanical	Dimensions (W x H x D)	438 x 88.4 x 502 mm (19.7" x 17.2" x 3.4") (without handle ears)	
	Weight	20 kg (without hard drives)	
Environment	Temperature	Operating	Non-operating
		0 ~ 40 °C (32 ~ 104 °F)	-40 ~ 60 °C (-40 ~ 140 °F)
	Humidity	95% @ 40 °C, non-condensing	95% @ 60 °C, non-condensing
	Vibration (5 ~ 500Hz)	0.25Grms	2G
	Shock	10G @11 ms duration, half sine wave	
Miscellaneous	LED Indicators	System power, system alert, location, controller fan, controller temperature, controller ready	

Front View



1. Controller2 Fan LED
2. Controller2 Temp. LED
3. Controller2 Ready LED
4. Controller1 Fan LED (Red)
5. Controller1 Temp. LED (Red)
6. Controller1 Ready LED (Blue)
7. System Power LED (Blue)
8. System Alert LED (Red)
9. Location LED (Blue)

Rear View



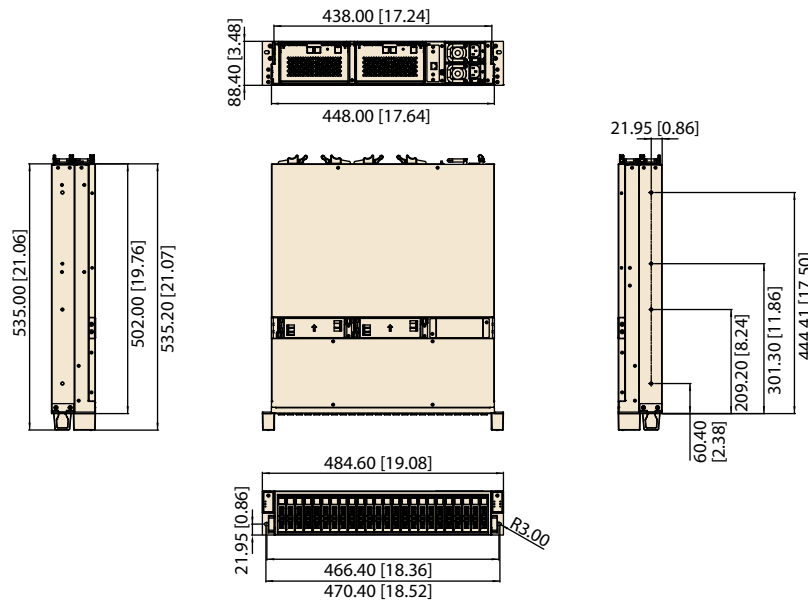
Up View



SKY-4120B

Dimensions

Unit: mm



Ordering Information

Part Number	Description
SKY-4120B-R5A1E	2U 24-bay dual controller JBOD enclosure

Optional Accessories

Part Number	Description
1700025067-01	mSAS HD (8644) to mSAS HD, 1.5m
1700025066-01	mSAS (8088) to mSAS HD, 1.5m

Packing List

Part Number	Description	Quantity
9680017208	22" slide rail kit	1

- 1 Software and Industry Solutions
- 2 Industrial Server
- 3 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

SKY-4311

1U Rackmount Dual Intel® Xeon® E5-2600 v3/v4 Storage Server with 8 x 2.5" NVMe SSDs and 2 x PCIe Gen III x8 Slots



Features

- Dual LGA 2011-R3 Intel® Xeon® E5-2600 v3/v4 processors
- 16 x DDR4-2133 RDIMMs for a maximum of 512 GB
- Up to 8 x hot-swappable 2.5" NVMe/SATA drives
- Intelligent Platform Management Interface (IPMI) support
- Supports 2 x PCIe Gen III x8 cards for I/O expansion
- 1100 W 1+1 redundant power supply with 80 PLUS Platinum certification

CE FCC

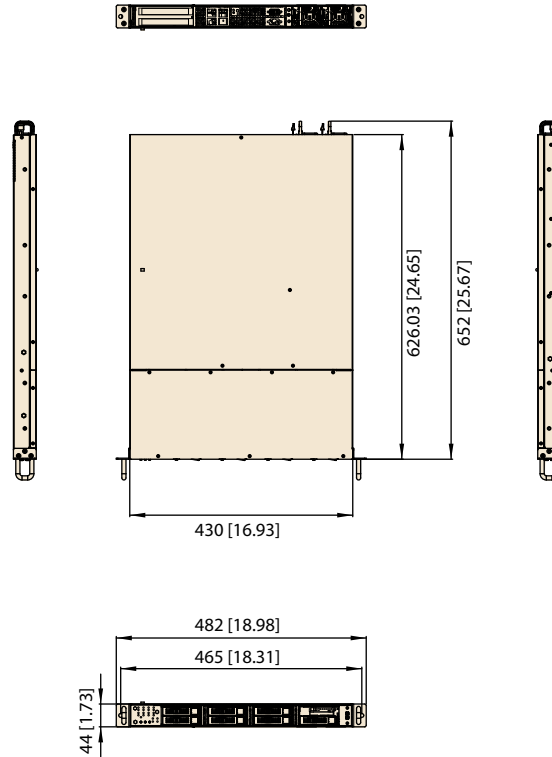
Specifications

System	Chipset	Intel® C612	
	CPU	Intel® Xeon® E5-2600(v3) dual processor (up to 135W TDP)	
	Memory	16 x DDR4-2133 ECC RDIMMs, maximum 512 GB	
Graphics	Controller	ASPEED AST2400	
	VRAM	64 MB	
Expansion Slot	PXle x8	2 x PCIe Gen III x8 slots (Supports 1 x HHHL card and 1 x FHHL card)	
Drive Bay	2.5" (hot swappable)	Up to 8 x NVMeS/SAS (12 Gb)/SATA (6 Gb) drives (Refer to the ordering information for further details.)	
Ethernet	Interface	2 x 1 GB Base-T Ethernet	
	Controller	2 x Intel® I210	
Front I/O	USB	1 x USB 2.0	
Rear I/O	USB	4 x USB 3.0	
	PS/2	-	
	COM	1	
	Display	1 x VGA	
	RJ45	2	
Internal Connector	USB Type A	-	
	SATA	2 (SATA M.2 2242)	
	LPC	-	
Watchdog Timer	Output	Interrupt, system reset	
	Interval	Programmable, 1~255 sec	
Power Supply	Power Output	80 PLUS Platinum 1+1 redundant power supply	
		900W @ 100 ~ 120 V	
	Input Range	1100W @ 200 ~ 240 V	
Cooling	Chassis Fan	100 ~ 240V _{AC}	
	Air Filter	5 x 4056	
Miscellaneous	LED Indicators	-	
	Remote Management	Power status, HDD activity, LAN status, location, error messages	
Environment		Advantech Remote Monitoring Utility	
	Temperature	Operating	Non-operating
	Humidity	0 ~ 40 °C (32~104 °F)	-20 ~ 60 °C (-4 ~ 140 °F)
	Vibration (5 ~ 500 Hz)	10 ~ 85% @ 40 °C	10 ~ 95% @ 40 °C
Characteristics		0.25 Grms	-
	Dimensions (D x W x H)	626 x 430 x 44 mm (24.6" x 16.9" x 1.7")	

SKY-4311

Dimensions

Unit: mm [inch]



Ordering Information

Part Number	2.5" Front HDD Bay	PCIe Slots	Chassis Depth	1 GbE	IPMI	Power Supply
SKY-4311P-R11A1E	x8 NVMe+SATA (SAS is optional)	2	626 mm	2	Yes	1+1 1100W RPS

Note:

1. For quality assurance purposes, the product must be sold as a complete system with the CPU, memory, and drives fully integrated and tested.

Package Contents

Part Number	Description	Quantity
CPU0 heatsink	Heatsink for E5-2600 series	1
CPU1 heatsink	Heatsink for E5-2600 series	1
Rail kit	1U slide rail kit	1
Driver CD	CD with drivers and user manual	1
Startup manual	Startup manual	1

Compatible NVMe Drives

Part Number	Description
96FD25-V2TB-IN7	Intel P3700 2.5" NVMe, 2.0TB, MLC
96FD25-V1.6TB-IN7	Intel P3700 2.5" NVMe, 1.6TB, MLC
96FD25-800-IN7	Intel P3700 2.5" NVMe, 800GB, MLC
96FD25-400-IN7	Intel P3700 2.5" NVMe, 400GB, MLC
TBD	Micron 9100 PRO 2.5" NVMe series
TBD	Micron 9100 MAX 2.5" NVMe series
TBD	Micron 9200 PRO 2.5" NVMe series

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

GPU Servers



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			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

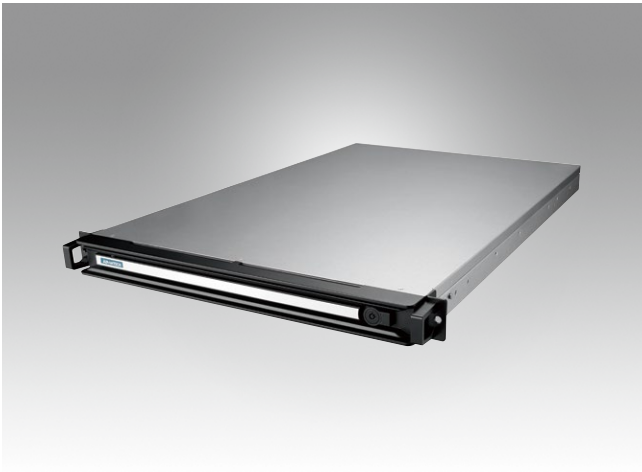
3. Some GPU cards need to enable "Above 4G Decoding" in BIOS setup menu when installing multiple GPU cards

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

SKY-6100

1U Rackmount Dual Intel® Xeon® Scalable GPU Server, Supporting 1 x PCIe x16 Double-Deck FH/FL Cards or 5 x PCIe x16 Single-Deck Cards



Features

- Processor: Dual Intel Xeon scalable processor
- Memory: DDR4 2666 MHz ECC-REG type up to 512 GB
- Remote Management: IPMI function support
- Expansion: Supporting 1 x PCIe x16 double-deck FH/FL card + 1 x PCIe x16 single-deck FH/HL card or 5 x PCIe x16 single-deck cards
- PSU: 1200W 1+1 redundant power supply with 80 PLUS Platinum level certification

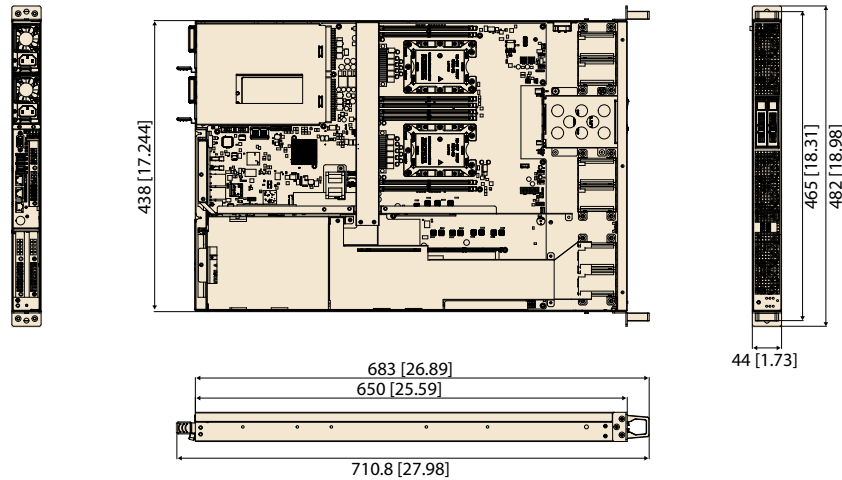
Specifications

Processor System	Chipset	Intel C622 Chipset	
	CPU Type	Dual Intel LGA3647-P0 Xeon Scalable processor (up to 140W TDP)	
	Memory Type	8 x DDR4 2666 MHz ECC-REG DIMM, up to 512GB	
	Memory Size	4 GB, 8 GB, 16 GB, 32 GB, 64GB	
Graphics	Controller	Aspeed AST2500	
	VRAM	64 MB	
Expansion Slot	Slot location 1 (Left Riser Card Box)	Dual PCIe x16 slots (Gen3 x16 link) for dual single-deck or one double-deck FH/FL expansion cards	
	Slot location 2 (Middle Riser Card Box)	Dual inner PCIe x16 slots (Gen3 x16 link) for dual HH/HL single-deck expansion cards Slot location 2 is unable to expose IO and will be unavailable when FL expansion card is installed on Slot location 1	
	Slot location 3 (Right Riser Card Box)	Single PCIe x16 slot (Gen3 x16 link) for FH/HL single-deck expansion card	
Drive Bay	2.5" (Hot-swap)	2	
	3.5" (Front Accessible)	-	
	3.5" Internal	-	
	M.2 (2242)	1	
Ethernet	Interface	2 x 10GbE + 1 x 10/100/1000 Mbps Gigabit Ethernet	
	Controller	1 x Intel I210AT + Intel X557-AT2 (dual 10GbE port)	
Front I/O Interface	USB	2 x USB2.0	
	USB	2 x USB3.0	
Rear I/O Interface	PS/2	-	
	COM	-	
	Display	1 x VGA	
	RJ-45	3 (share NIC for IPMI)	
Internal connector	Type-A USB	1	
	COM	2	
	LPC	1	
Watchdog Timer	Output	System reset	
	Interval	Programmable, 1~255 sec/min	
Power Supply	Power Output Wattage	80 PLUS Platinum 1+1 redundant Power Supply	
		1000W @ 100 ~ 127V 1200W @ 200 ~ 240V	
	Input Range	AC 100 ~ 240 V	
Cooling	Chassis Fan	6 x 40 x 56 + 2 x 40 x 28 high speed fan (1 external module)	
	Air Filter	-	
Miscellaneous	LED Indicators	Power Status, LAN Status, Information LED	
	Remote Management	Advantech Remote Monitoring Utility	
Environment	Temperature	Operating 0 ~ 35 °C (32 ~ 95 °F)	Non-Operating -40 ~ 60 °C (-40 ~ 140 °F)
	Humidity	95% @ 40 °C	95% @ 60 °C
	Vibration (5 ~ 500 Hz)	0.25 Grms	2 G
	Shock	10G (with 11ms duration, half sine wave)	Optional
Physical Characteristics	Dimension (W x H x D)	438 x 44 x 650 mm (17.2" x 1.7" x 25.6")	

- 1 Software and Industry Solutions
- 2 Industrial Server
- 3 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

Dimensions

Unit: mm [inch]



Ordering Information

Part Number	HDD	M.2 (2242)	VGA Chip	GbE/10GbE LAN	IPMI	Power supply
SKY-6100-R12A1E	2	1	AST 2500	1/2	Yes	1200W 1+1 Redundant Power Supply

System Contents

Items	Advantech P/N	Quantity
CPU heatsink	1960081155N001	2
CPU Clip for Heatsink	1651003167-01	2
NVidia Tesla P4 Inner Bracket	1960081060N000	2
Startup manual	2001610010	1
External fan module with wire guard	N/A	1

Optional Accessories

item	Advantech P/N
26" Slide Rail Kit	9680017207
20" Slide Rail Kit	9680017208
Optional Air Duct for double-deck GPU card	98R1610010E

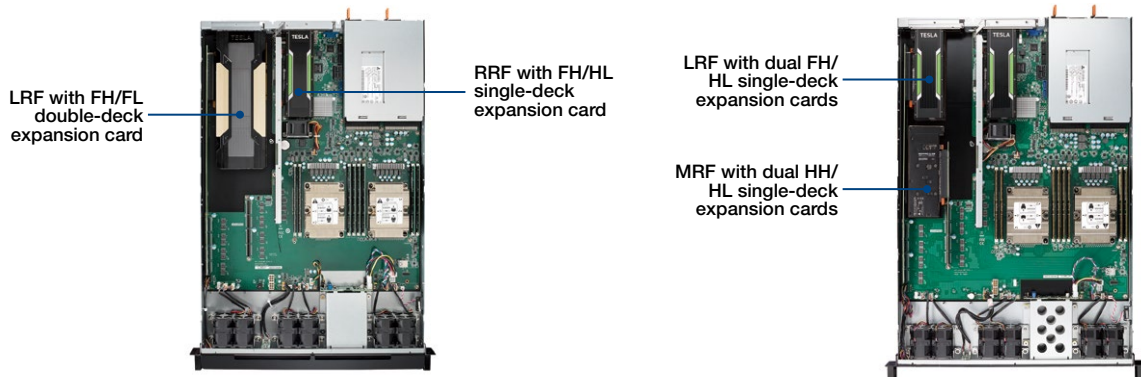
Front View



Rear View



Inside View



SKY-6200

2U Rackmount Dual Intel® Xeon® Scalable GPU Server, Supporting 4 x PCIe x16 Double-Deck FH/FL Cards or 8 x PCIe x8 Single-Deck FH/FL Cards



Features

- Processor: Dual Intel Xeon scalable processor
- Memory: DDR4 2666 MHz ECC-REG type up to 1536 GB
- Remote Management: IPMI function support
- Expansion: Supporting 4 x PCIe x16 double-deck card + 1 x PCIe x8 single-deck FH/HL card or 8 x PCIe x8 single-deck FH/10.5" + 1 x PCIe x8 single-deck FH/HL card
- PSU: 2000W 1+1 redundant power supply with 80 PLUS Platinum level certification



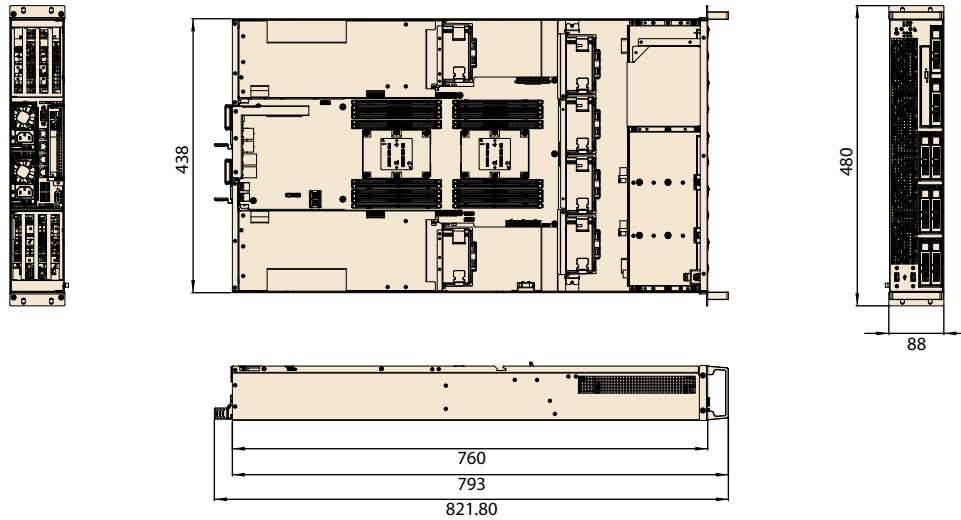
Specifications

Processor System	Chipset	Intel C622 Chipset	
	CPU Type	Dual Intel LGA3647-P0 Xeon Scalable processor (up to 140W TDP)	
	Memory Type	24 x DDR4 2666 ECC-REG DIMM, up to 1536 GB	
	Memory Size	4 GB, 8 GB, 16 GB, 32 GB, 64 GB	
Graphics	Controller	Aspeed AST2500	
	VRAM	64 MB	
Expansion Slot	Left Riser Card Cage	Two PCIe x16 slot (Gen3 x16 link) or four PCIe x16 slot (Gen3 x8 link) for FH/10.5" expansion card	
	Middle Riser Card Cage	One PCIe x8 slot (Gen3 x8 link) for FH/HL card	
	Right Riser card cage	Two PCIe x16 slot (Gen3 x16 link) or four PCIe x16 slot (Gen3 x8 link) for FH/10.5" expansion card	
Drive Bay	2.5" (Hot-swap)	8	
	3.5" (Front Accessible)	-	
	Slim ODD	1 (optional)	
	M.2 (2280)	1 (optional)	
Ethernet	Interface	2 x 10GbE + 2 x 10/100/1000 Mbps Gigabit Ethernet	
	Controller	2 x Intel I210AT + Intel X557-AT2 (dual 10GbE port)	
Front I/O Interface	USB	2 x USB2.0	
	USB	4 x USB3.0	
Rear I/O Interface	PS/2	-	
	COM	1 (cable optional)	
	Display	1 x VGA	
	RJ-45	4 (1 x GbE + 1 x 10G lan are share NIC for IPMI)	
Internal connector	Type-A USB	-	
	COM	2	
	LPC	1	
Watchdog Timer	Output	System reset	
	Interval	Programmable, 1~255 sec/min	
Power Supply	Power Output Wattage	80 PLUS Platinum 1+1 redundant Power Supply	
		1000W @ 100 ~ 127V	
		1800W @ 200 ~ 219V	
Cooling	Input Range	1968W @ 220 ~ 240V	
		AC 100 ~ 240 V	
Miscellaneous	Chassis Fan	Two 80 x 38 high speed fans for CPU	
	Air Filter	Four 80 x 38 high speed fans for LR/RR card cage	
		-	
Environment	LED Indicators	Power Status, LAN Status, System information LED	
	Remote Management	Advantech Remote Monitoring Utility	
Physical Characteristics	Dimension (W x H x D)	Operating	Non-Operating
		Temperature	0 ~ 35 °C (32 ~ 95 °F) -20 ~ 60 °C (-4 ~ 140 °F)
		Humidity	10 ~ 85% @ 40 °C 10 ~ 95% @ 40 °C
		Vibration (5 ~ 500 Hz)	0.5 Grms 2 G
		Shock	10G (with 11ms duration, half sine wave)
Physical Characteristics	Dimension (W x H x D)	438 x 44 x 760 (17.24" x 1.7" x 29.92")	

- 1 Software and Industry Solutions
- 2 Industrial Server
- 3 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

Dimensions

Unit: mm [inch]



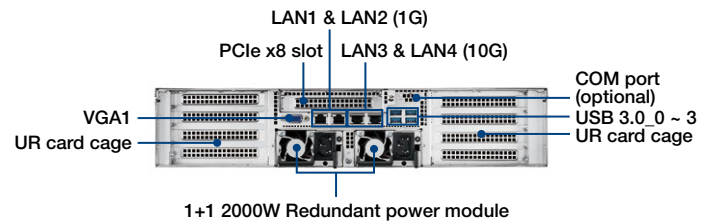
Ordering Information

Part Number	HDD	M.2 (2280)	VGA Chip	GbE/10GbE LAN	IPMI	Power supply
SKY-6200-R20A1	8	1	AST 2500	2/2	Yes	2000W 1+1 Redundant Power Supply

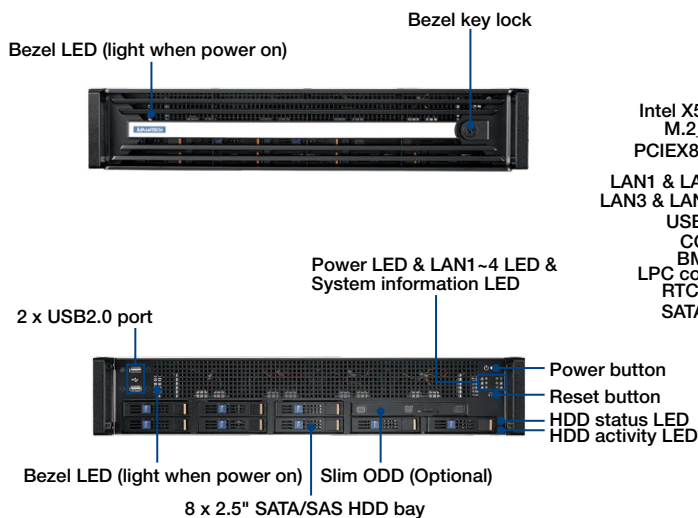
System Contents

Items	Advantech P/N	Quantity
CPU0 heatsink	1960081155N001	1
CPU1 heatsink	1960081155N101	1
Slide rail kit	(TBD)	1
Power cable for expansion card (Pre-assembled in the system)	1700023022-01	8
Driver CD	(TBD)	1
Startup manual	(TBD)	1

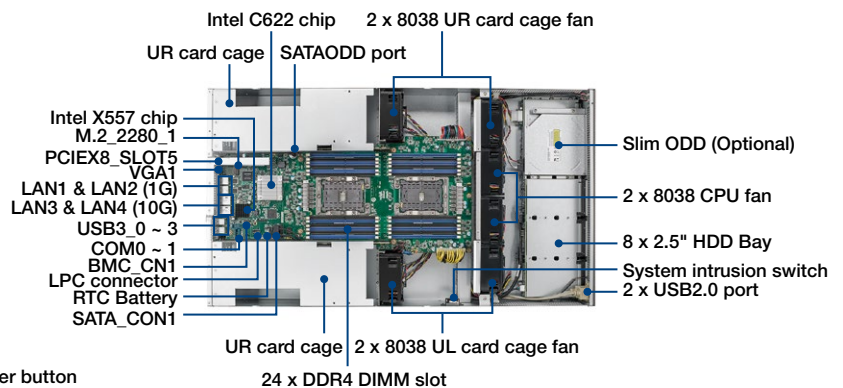
Rear View



Front View



Inner View



SKY-6400

4U Rackmount Intel® Xeon® Scalable Series GPU Server, Supporting 4 x PCIe x16 Double-Deck Cards Plus 1 x PCIe x8 and 1 x PCIe x4 Single-Deck Cards



Features

- Processor: Dual Intel® Xeon® scalable series
- Memory: DDR4 REG 2666/2400/2133/1866 MHz DIMM, up to 384GB
- Remote Management: IPMI function support
- Expansion: Supporting 4 * PCIe x16 double-deck card + 1* PCIe x8 single-deck FH/HL card + 1*PCIe x4 card
- PSU: 2000W 1+1 redundant power supply with 80 PLUS Platinum level certification
- Easy maintenance system fan: 3 x 12CM system fan with easy maintenance feature

Specifications

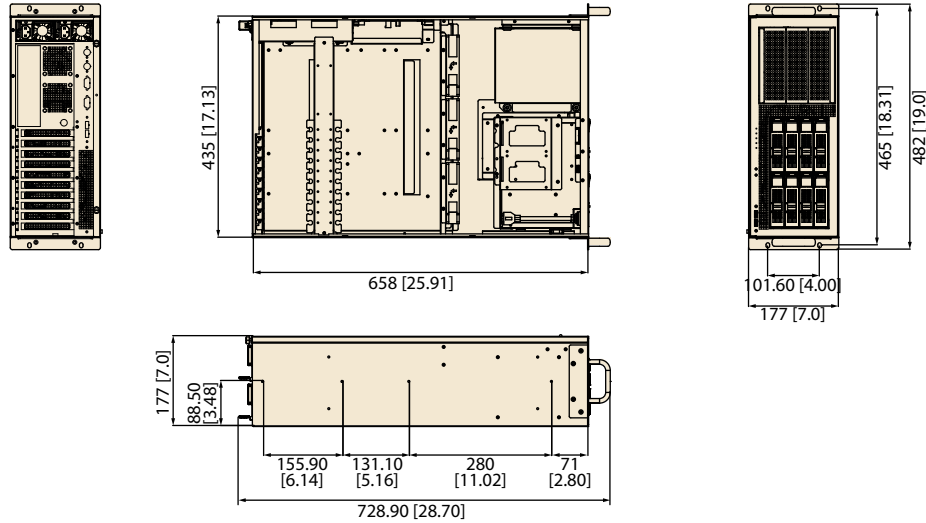
Processor System	Chipset	Intel C621 Chipset	
	CPU	Dual Intel LGA 3647-P0 for Intel® Xeon® Scalable Series processor (up to 205W TDP)	
	Memory	DDR4 REG 2666/2400/2133/1866 MHz DIMM, up to 384GB	
Graphics	Controller	Aspeed AST2500	
	VRAM	64 MB	
Expansion Slot	Slot 1	PCIe x4 (Gen3 x 4 link)	
	Slot 2	PCIe x16 slot (Gen3 x16 link), for double-deck 4.376"(H)/10.5"(L) expansion cards	
	Slot 3	PCIe x4 (Gen3 x 4 link)	
	Slot 4	PCIe x16 slot (Gen3 x16 link), for double-deck 4.376"(H)/10.5"(L) expansion cards	
	Slot 5	PCIe x4 (Gen3 x 4 link)	
	Slot 6	PCIe x16 slot (Gen3 x16 link), for double-deck 4.376"(H)/10.5"(L) expansion cards	
	Slot 7	PCIe x4 (Gen3 x 4 link)	
	Slot 8	PCIe x16 (Gen3 x 16 link), for double -deck 4.276"(H)/10.5"(L) expansion cards	
	Slot 9	PCIe x8 (Gen3 x 8 link)	
Drive Bay	2.5" (Internal)	2	
	3.5" (Front Accessible)	-	
	3.5" (Hot Swap)	8	
Ethernet	Interface	10/100/1000 Mbps Gigabit	
	Controller	2 x Intel I210AT	
Front I/O Interface	USB	2 x USB 3.0	
	USB	4 x USB 3.0	
Rear I/O Interface	PS/2	-	
	COM	1	
	Display	1 x VGA	
	RJ-45	2 (1 is sharing NIC for IPMI)	
	USB	5 (2 USB3.0, 2 USB2.0, 1 USB 2.0 Type-A)	
Internal connector	COM	1	
	LPC	1	
Watchdog Timer	Output	System reset	
	Interval	Programmable, 1~255 sec	
Power Supply	Power Output Wattage	80 PLUS Platinum 2000W redundant Power Supply (Depends on input voltage)	
	Input Range	200-240V _{AC} (Output: 1800W-1968W)	
Cooling	Chassis Fan	3 x 120 x 38 + 2 x 80 x 38	
	Air Filter	-	
Miscellaneous	LED Indicators	Power status, HDD activity, LAN1 & LAN2	
	Remote Management	Advantech Remote Monitoring Utility	
Environment		Operating	Non-Operating
	Temperature	0 ~ 35° C (32 ~ 85° F) *0 ~ 30° C (32 ~ 85.9° F) for NVidia Tesla P100	-20 ~ 60° C (-4 ~ 140° F)
	Humidity	95% @ 40° C	95% @ 60° C
	Vibration (5 ~ 500 Hz)	0.25 Grms	2 G
	Shock	10G (with 11ms duration, half sine wave)	
Physical Characteristics	Dimension (D x W x H)	435 x 177 x 673 mm (17.12" x 6.96" x 26.49")	

- 1 Software and Industry Solutions
- 2 Industrial Server
- 3 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

SKY-6400

Dimensions

Unit: mm [inch]



Front View



Rear View



Ordering Information

Part Number	HDD	VGA Chip	RJ45	IPMI	Power supply
SKY-6400-R20A1	10	AST 2500	2	YES	1+1 2000W RPS

System Contents

Items	Advantech P/N	Quantity
CPU Cooler	1960081603N001	2
GPU Card Power Cable (Convert PCIe Power to CPU Power)	1700027652-01	4
Driver CD	2061097500	1
External Fan Kit (8CM Fan x2)	96616400200	1
GPU Extend Bracket	1960084351N000	4

Optional Accessories

Part	Number Description
PCA-AUDIO-HDA1E	HD Audio-card
PCA-TPM-00A1E	TPM Module
1700002204	Dual port USB cable (27 cm) with bracket
1700020277-01	Dual port USB 3.0 cable (30 cm) with bracket
1701090401	COM port cable with bracket
9680016858	Slide Rail
1960071739N100	Hold-down bar for GPU card power at north edge
1992610020	Rubber for GPU card power at north edge to pair with hold-down bar, and one GPU card needs one pcs rubber

AGS-913

1U Rackmount Intel® Xeon® E5-2600 v3/v4 GPU Server, Supporting 3 x PCIe x16 Double-Depth Cards and 1 x PCIe x8 Single-Depth FH/HL Card



Features

- Processor: Dual Intel® Xeon® E5-2600 v3/v4 series, up to 20 cores / 40 threads
- Memory: DDR4 1600/1866/2133 MHz ECC-REG type up to 256GB
- Remote Management: IPMI function support
- Expansion: Supporting 3 * PCIe x16 double-deck cards + 1* PCIe x8 single-deck FH/HL card
- PSU: 1100W 1+1 redundant power supply with 80 PLUS Platinum level certification



Specifications

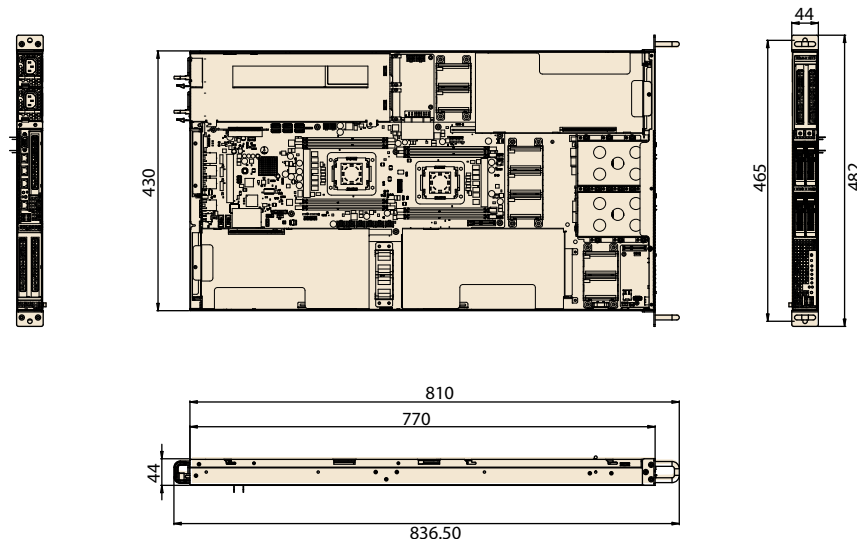
Processor System	Chipset	Intel C612 Chipset	
	CPU	Dual Intel LGA2011 Xeon E5-2600 v3/v4 processor (up to 135W TDP)	
	L2 Cache	Up to 30 MB	
	Memory	8 x DDR4 1600/1866/2133 ECC-REG DIMM, up to 256GB	
Graphics	Controller	Aspeed AST2400	
	VRAM	64 MB	
Expansion Slot	Slot location 1 (Upper Middle slot)	PCIe x 8 slot (Gen3 x8 link) for FH/HL expansion cards	
	Slot location 2 (Lower Right slot)	PCIe x16 slot (Gen3 x16 link), for double-deck 4.376"(H)/10.5"(L) expansion cards	
	Slot location 3 (Upper Left slot)	PCIe x16 slot (Gen3 x16 link), for double-deck 4.376"(H)/10.5"(L) expansion cards	
	Slot location 4	-	
	Slot location 5	-	
	Slot location 6 (Lower Left slot)	PCIe x16 slot (Gen3 x16 link), for double-deck 4.376"(H)/10.5"(L) expansion cards	
Drive Bay	2.5" (Hot-swap)	4	
	3.5" (Front Accessible)	-	
	3.5" Internal	-	
Ethernet	Interface	4 x 10/100/1000 Mbps Gigabit Ethernet	
	Controller	4 x Intel I210AT	
Front I/O Interface	USB	2 x USB2.0	
	USB	2 x USB3.0	
Rear I/O Interface	PS/2	-	
	COM	-	
	Display	1 x VGA	
	RJ-45	4 (1 is sharing NIC for IPMI)	
	Type-A USB	1	
Internal connector	COM	2	
	LPC	1	
Watchdog Timer	Output	Interrupt, system reset	
	Interval	Programmable, 1~255 sec	
Power Supply	Power Output Wattage	80 PLUS Platinum 1+1 redundant Power Supply 900W @ 100 ~ 120V 1100W @ 200 ~ 240V	
	Input Range	AC 100 ~ 240 V	
Cooling	Chassis Fan	7 x 40 x 56 + 2 x 40 x 28 high speed fan	
	Air Filter	-	
Miscellaneous	LED Indicators	Power status, HDD activity, LAN status, location, error message	
	Remote Management	Advantech Remote Monitoring Utility	
Environment	Temperature	Operating	Non-Operating
		0 ~ 35 °C (32 ~ 85 °F) *0 ~ 30 °C (32 ~ 85.9 °F) for nVidia tesla P100	-20 ~ 60 °C (-4 ~ 140 °F)
	Humidity	10 ~ 85% @ 40 °C	10 ~ 95% @ 40 °C
	Vibration (5 ~ 500 Hz)	0.5 Grms	2 G
	Shock	10G (with 11ms duration, half sine wave)	30G
Physical Characteristics	Dimension (W x H x D)	430 x 44 x 770 mm (16.9" x 1.7" x 30.3")	

Note1: operating temperature qualified AGS-913 max 2 GPU cards by nVidia certification.

- 1 Software and Industry Solutions
- 2 Industrial Server
- 3 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

Dimensions

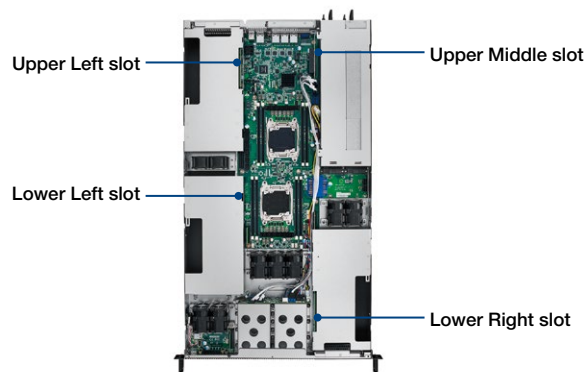
Unit: mm [inch]



Front View



Inside View



Rear View



Note1: nVidia qualified AGS-913 max 2 of GPU slots on lower left slot & lower right slot

Ordering Information

Part Number	HDD	VGA Chip	RJ45	IPMI	Power supply
AGS-913I-R11A1E	4	AST 2400	4	YES	1+1 1100W RPS

System Contents

Items	Advantech P/N	Quantity
CPU0 heatsink	1960065593N001	1
CPU1 heatsink	1960065591N001	1
Slide rail kit	9680015703	1
Power cable for expansion card (Pre-assembled in the system)	1700023022-01	6
Driver CD	2061S91301	1
Startup manual	2001S91310	1

Optional Accessories

Part Number	Description
1700026210-01	SATA Power cable for nVidia GPU card (20 cm)

AGS-923

2U Rackmount Intel® Xeon® E5-2600 v3/v4 GPU Server, Supporting 4 x PCIe x16 Double-Depth Cards and 1 x PCIe x8 Single-Depth FH/HL Card



Features

- Processor: Dual Intel® Xeon® E5-2600 v4/v3 series
- Memory: DDR4 1600/1866/2133 MHz ECC-REG type up to 256GB
- Remote Management: IPMI function support
- Expansion: Supporting 4 * PCIe x16 double-depth card + 1* PCIe x8 single-depth FH/HL card
- PSU: max 1800W 1+1 redundant power supply with 80 PLUS Platinum level certification

Specifications

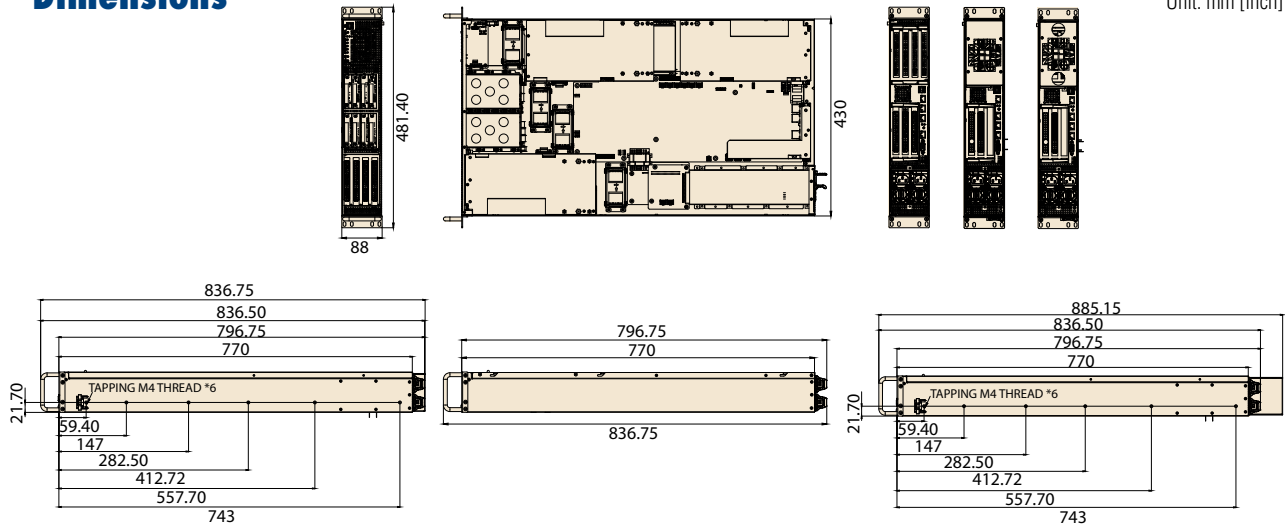
Processor System	Chipset	Intel C612 Chipset	
	CPU	Dual Intel LGA2011 Xeon E5-2600 v3/v4 processor (up to 145W TDP)	
	L2 Cache	Up to 30 MB	
	Memory	8 x DDR4 1600/1866/2133 ECC-REG DIMM, up to 256GB	
Graphics	Controller	Aspeed AST2400	
	VRAM	64 MB	
Expansion Slot	Slot location 1 (Upper Middle slot)	PCIe x 8 slot (Gen3 x8 link) for single-depth 4.376"(H)/6.4"(L) expansion cards	
	Slot location 2 (Lower Right slot)	PCIe x16 slot (Gen3 x16 link), for double-depth 4.376"(H)/10.5"(L) expansion cards	
	Slot location 3 (Upper Left slot/bottom)	PCIe x16 slot (Gen3 x16 link), for double-depth 4.376"(H)/10.5"(L) expansion cards, support 12"(L) when remove 8020 FAN	
	Slot location 4	-	
	Slot location 5 (Upper Left slot/top)	PCIe x16 slot (Gen3 x16 link), for double-depth 4.376"(H)/10.5"(L) expansion cards, support 12"(L) when remove 8020 FAN	
	Slot location 6 (Lower Left slot)	PCIe x16 slot (Gen3 x16 link), for double-depth 4.376"(H)/10.5"(L) expansion cards	
Drive Bay	2.5" (Hot-swap)	8 (4 from SATA III and 4 from slave SATA III on-board)	
	3.5" (Front Accessible)	-	
	3.5" Internal	-	
Ethernet	Interface	4 x 10/100/1000 Mbps Gigabit Ethernet	
	Controller	4 x Intel I210AT	
Front I/O Interface	USB	2 x USB2.0	
	USB	2 x USB3.0	
Rear I/O Interface	PS/2	-	
	COM	-	
	Display	1 x VGA	
	RJ-45	4 (1 is sharing NIC for IPMI)	
Internal connector	Type-A USB	1	
	COM	2	
	LPC	1	
Watchdog Timer	Output	System reset	
	Interval	Programmable, 1~255 sec	
Power Supply	Power Output Wattage	80 PLUS Platinum 1800W 1+1 redundant Power Supply	
		1000W @ 100 ~ 127V	
		1800W @ 200 ~ 240V	
	Input Range	80 PLUS Platinum 1400W 1+1 redundant Power Supply	
		900W @ 100 ~ 120V	
		1400W @ 200 ~ 240V	
Cooling	Chassis Fan	[1800W] 3 * 80 x 38 + 2 * 80 x 38 high speed fan	
	Air Filter	[1400W] 4 * 80 x 38 + 1 * 80x20 + 1 * 80 x 38 (optional) high speed fan	
Miscellaneous	LED Indicators	Power status, HDD activity, LAN status, location, error message	
	Remote Management	Advantech Remote Monitoring Utility	
Environment	Temperature	Operating	Non-Operating
		0 ~ 30 °C (32 ~ 86 °F, for 1800W)	-20 ~ 60 °C (-4 ~ 140 °F)
	Humidity	0 ~ 40 °C (32 ~ 194 °F, for 1400W)	
		10 ~ 85% @ 40 °C	10 ~ 95% @ 40 °C
Physical Characteristics	Vibration (5 ~ 500 Hz)	0.5 Grms	2 G
	Shock	10G (with 11ms duration, half sine wave)	
Physical Characteristics	Dimension (W x H x D)	[1800W] 430 x 88 x 798 mm (16.9" x 3.4" x 31.4")	
		[1400W] 430 x 88 x 770 mm (16.9" x 3.4" x 30.3")	

- 1 Software and Industry Solutions
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- 8 Industrial I/O and Video Solutions

AGS-923

Dimensions

Unit: mm [inch]



Front View

Inside View



Supports 1 x PCIe x 16 double deck/
1 x single deck FH card

Rear View

1400W



Supports 1 x PCIe x8 FH/HL card

Supports 2 x PCIe X16 double deck/
2 x single deck FH card

1800W



Supports 1 x PCIe x8 FH/HL card

Supports 2 x PCIe X16 double deck/
2 x single deck FH card

Default system fan 1800W
and optional part for 1400W

Upper Left slot

Upper Middle slot

Lower Left slot

Lower Right slot

Ordering Information

Part Number	HDD tray	VGA Chip	RJ45	IPMI	Power Supply
AGS-923I-R18A1E	8	AST 2400	4	YES	1+1 1800W RPS
AGS-923I-R14A1E	8	AST 2400	4	YES	1+1 1400W RPS

Optional Accessories (for 1400W)

Part Number	Description
98R192010E	Optional parts for Upper Left GPU card air duct with FAN
98R1920120E	Optional parts for Upper Left GPU card air duct with FAN and display output

System Contents

Items	Advantech P/N	Quantity
Startup manual	2001S91310	1
Driver CD	2061S92300	1
Rail kit (pair)	9680015703	1
CPU cooler	1960063011N001	2
Power module (Installed in the system)	96PSRM-A1K8WCR	2
Power cable for GPU/VGA card (Installed in the system)	1700023022-01	8

HPC-7400-S813

4U GPU Server System With Intel® Xeon® E5-2600 v3/v4 CPU, Supporting up to 2* GPU Cards and 1400W RPS



Features

- 7 years longevity support- revision control
- 0 ~ 35 °C operating temperature
- Reliable resume from AC power loss function
- Supports Intel® Xeon® E5-2600/E5-1600 v3/v4 series CPUs
- Quad channel DDR4 2133 MHz ECC & registered DIMMs up to 256 GB
- Supports up to 2* GPU cards
- 1400W 1+1 redundant PSU with 80 PLUS Platinum level
- IPMI remote management

CE FCC

Specifications

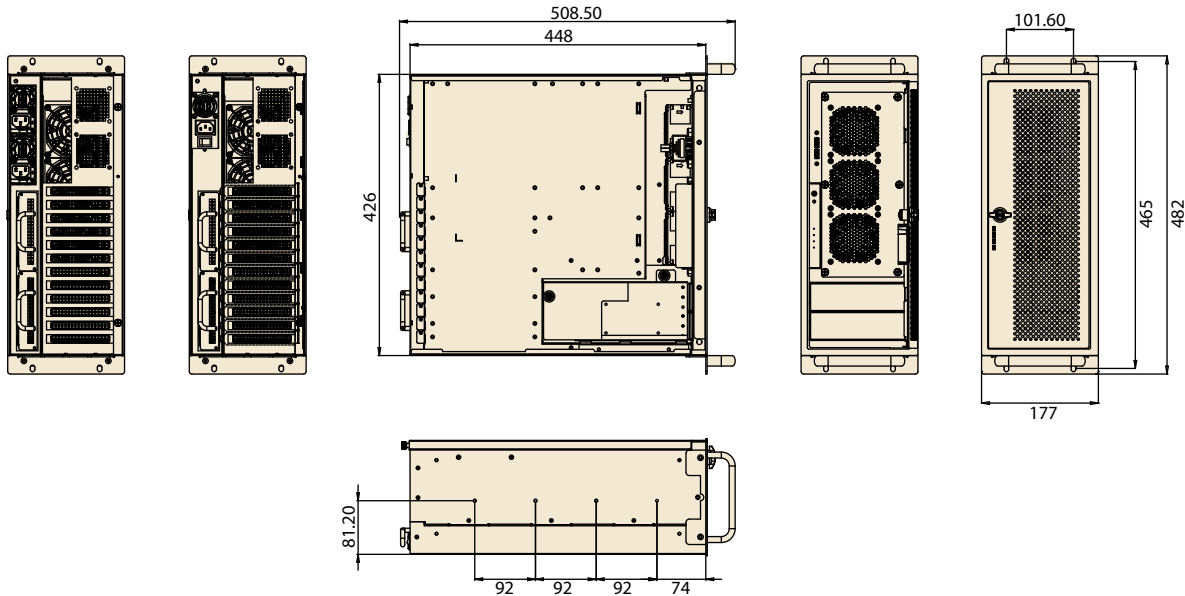
Processor System	CPU type	Intel Xeon E5-2600 / E5-1600 v3/v4 / Core i7 5800/5900/6800/6900 series processor	
	CPU socket	Intel LGA-2011-R3	
	Memory	DDR4 ECC-REG 2133/1866/1600 MHz RDIMMs, maximum 256 GB	
	Chipset	Intel C612 Chipset	
Graphics	Controller	Aspeed AST2400	
	VRAM	64 MB	
Expansion Slot	PCIe x16 (Gen 3.0)	2 (Slot 4 and Slot 6 for GPU cards)	
	PCIe x8 (Gen 3.0)	1 (Slot 2)	
	PCIe x4 (Gen 2.0)	1 (Slot 7) from PCH	
	PCIe x1 (Gen 2.0)	1 (Slot 1) from PCH	
Drive Bay	Slime Odd Bay	-	
	5.25" Front-Accessibl	2	
	3.5" Hot-swappable	-	
	2.5" Hot-swappable	-	
	3.5" Internal	2 (rear-accessible)	
	2.5" Internal	-	
Ethernet	Interface	10/100/1000 Mbps Gigabit Ethernet	
	Controller	2 x Intel I210AT	
Remote Management		IPMI, Advantech Remote Monitoring Utility	
Front I/O Interface	USB	2 x USB3.0	
Rear I/O Interface	USB	6 (4 x USB3.0 + 2 x USB2.0)	
	PS/2	2	
	COM	1	
	Display	1 x VGA	
	Parallel	-	
	RJ-45	3 (1 port dedicated for IPMI function)	
Watchdog Timer	Output	Interrupt, system reset	
	Interval	Programmable, 1~255 sec	
Power Supply	Power Output Wattage	80 PLUS Platinum 1400W 1+1 redundant Power Supply 900W @ 100 ~ 120V 1400W @ 200 ~ 240V	
	Input Range	AC 100 ~ 240 V	
Cooling	Chassis Fan	3 (8cm / 142CFM) PWM fans (6cm) rear fans	
	Air Filter	Yes	
Miscellaneous	LED Indicators	Power status, HDD activity, LAN activity	
	Remote Management	IPMI, Advantech Remote Monitoring Utility	
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 (with 11 ms du ration, half sine wave)	10G	
Physical Characteristics	Dimension (W x H x D)	482 x 177 x 448 mm (18.9" x 6.9" x 17.6")	

- 1 Software and Industry Solutions
- 2 Industrial Server
- 3 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

HPC-7400-S813

Dimensions

Unit: mm



Ordering Information

Part Number	Description	Quantity
HPC-7400MB-14A1E	4U chassis with redundant 1+1 1400W PSU	1
ASMB-813I-00A1E	LGA 2011-R3 ATX server board	1
1750007769-01	FAN 12V 80X80X38 14000 2W L250	3

Spare Parts

Parts number	Description
1990021256T00	Door filter
1750007769-01	8cm system fan
96PSRM-A1K4WMDU	1U 1400W 1+1 redundant power module, AC 100-240V (full range)
96PSR-1U-BKP-F1K4	1400W power distribution board for 96PSRM-A1K4WMDU

Optional Accessories

Parts number	Description
1700024754-01	GPU power cable (2*B4P Molex power connector to 6+2P PCIe power cable)
IPC-DT-5230E	Mobile rack for converting dual 5.25" drive bays to three 3.5" SAS/SATA HDD Trays
96RACK-5SS-CAGE-CR	Mobile rack for converting one 5.25" drive bays to four 2.5" SATA/SAS HDD Trays (Max. HDD height :15mm)
9680006903	20" Slide Rail (supports 75~100cm depth cabinet)
9680006904	24" Slide Rail (supports 90~110cm depth cabinet)
1700007032	Front dual USB 2.0 cable kit
1960063011N001	LGA-2011 CPU cooler (narrow type)

Front View



Rear View



With 1400W redundant power supply

HPC-7400-S923

4U GPU Server System With Dual Intel® Xeon® E5-2600 v3/v4 CPU, Supporting up to 3* GPU Cards and 1400W RPS



Features

- 7 years longevity support- revision control
- 0 ~ 35 °C operating temperature
- Reliable resume from AC power loss function
- Supports Intel® Xeon® E5-2600/E5-1600 v3/v4 Series CPUs
- Quad channel DDR4 2133 MHz ECC & registered DIMMs up to 256 GB
- Supports up to 3* GPU cards
- 1400W 1+1 redundant PSU with 80 PLUS Platinum level
- IPMI remote management

CE FCC

Specifications

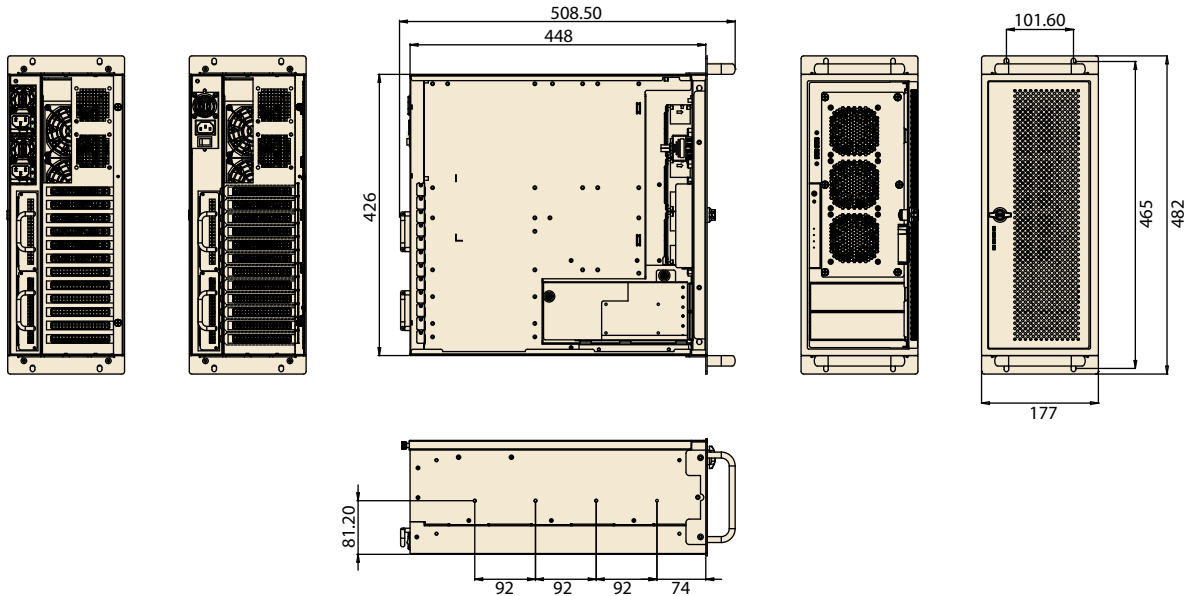
Processor System	CPU type	Intel Xeon E5-2600 v3/v4 processor	
	CPU socket	Intel LGA-2011-R3	
	Memory	DDR4 ECC-REG 2133/1866/1600 MHz RDIMMs, maximum 256 GB	
	Chipset	Intel C612 Chipset	
Graphics	Controller	Aspeed AST2400	
	VRAM	64 MB	
Expansion Slot	PCIe x16 (Gen 3.0)	4 (Slot 3, Slot 5 and Slot 7 for GPU cards)	
	PCIe x8 (Gen 3.0)	2 (Slot 2, Slot 6)	
	PCIe x4 (Gen 2.0)	1 (Slot 4) from PCH	
	PCIe x1 (Gen 2.0)	-	
Drive Bay	Slime Odd Bay	-	
	5.25" Front-Accessibl	2	
	3.5" Hot-swappable	-	
	2.5" Hot-swappable	-	
	3.5" Internal	2 (rear-accessible)	
	2.5" Internal	-	
Ethernet	Interface	10/100/1000 Mbps Gigabit Ethernet	
	Controller	2 x Intel I210AT	
Remote Management		IPMI, Advantech Remote Monitoring Utility	
Front I/O Interface	USB	2 x USB3.0	
	USB	4 (2 x USB3.0 + 2 x USB2.0)	
Rear I/O Interface	PS/2	2	
	COM	1	
	Display	1 x VGA	
	Parallel	-	
	RJ-45	3 (1 port dedicated for IPMI function)	
Watchdog Timer	Output	Interrupt, system reset	
	Interval	Programmable, 1~255 sec	
Power Supply	Power Output Wattage	80 PLUS Platinum 1400W 1+1 redundant power supply	
		900W @ 100 ~ 120V	
		1400W @ 200 ~ 240V	
Cooling	Input Range	AC 100 ~ 240 V	
	Chassis Fan	3 (8cm / 142CFM) PWM fans + 2 (6cm) rear fans	
Miscellaneous	Air Filter	Yes	
	LED Indicators	Power status, HDD activity, LAN activity	
Environment	Remote Management	IPMI, Advantech Remote Monitoring Utility	
	Temperature	Operating 0 ~ 35 °C (32 ~ 95 °F)	Non-Operating -20 ~ 60 °C (-4 ~ 140 °F)
	Humidity	10 ~ 85% @ 35 °C	10 ~ 95% @ 40 °C
	Vibration (5 ~ 500 Hz)	1 Grms	2 G
	Shock (with 11 ms du ration, half sine wave)	10G	
Physical Characteristics	Dimension (W x H x D)	482 x 177 x 448 mm (16.9" x 3.4" x 30.3")	

- 1 Software and Industry Solutions
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- 6 Industrial Communication
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HPC-7400-S923

Dimensions

Unit: mm



Ordering Information

Part Number	Description	Quantity
HPC-7400MB-14A1E	4U chassis with redundant 1+1 1400W PSU	1
ASMB-923I-00A1E	LGA 2011-R3 EATX server board	1
1750007769-01	FAN 12V 80X80X38 14000 2W L250	3

Spare Parts

Parts number	Description
1990021256T00	Door filter
1750007769-01	8cm system fan
96PSRM-A1K4WMDU	1U 1400W 1+1 redundant power module, AC 100-240V (full range)
96PSR-1U-BKP-F1K4	1400W power distribution board for 96PSRM-A1K4WMDU

Optional Accessories

Parts number	Description
1700024754-01	GPU power cable (2*B4P Molex power connector to 6+2P PCIe power cable)
IPC-DT-5230E	Mobile rack for converting dual 5.25" drive bays to three 3.5" SAS/SATA HDD Trays
96RACK-5SS-CAGE-CR	Mobile rack for converting one 5.25" drive bays to four 2.5" SATA/SAS HDD Trays (Max. HDD height :15mm)
9680006903	20" Slide Rail (supports 75~100cm depth cabinet)
9680006904	24" Slide Rail (supports 90~110cm depth cabinet)
1700007032	Front dual USB 2.0 cable kit
1960063011N001	LGA-2011 CPU cooler (narrow type)

Front View



Rear View



With 1400W redundant power supply

HPC-7483-S923

4U GPU Server System With Dual Intel® Xeon® E5-2600 v3/v4 CPU, Supporting up to 4* GPU Cards and 2000W RPS



Features

- 7 years longevity support- revision control
- 0 ~ 35 °C operating temperature
- Reliable resume from AC power loss function
- Supports Intel® Xeon® E5-2600 v3/v4 Series CPUs
- Quad channel DDR4 2133 MHz ECC & registered DIMMs up to 256 GB
- Supports up to 4* Double-depth GPU cards
- 2000W 1+1 redundant PSU with 80 PLUS Platinum level
- IPMI remote management

CE FCC

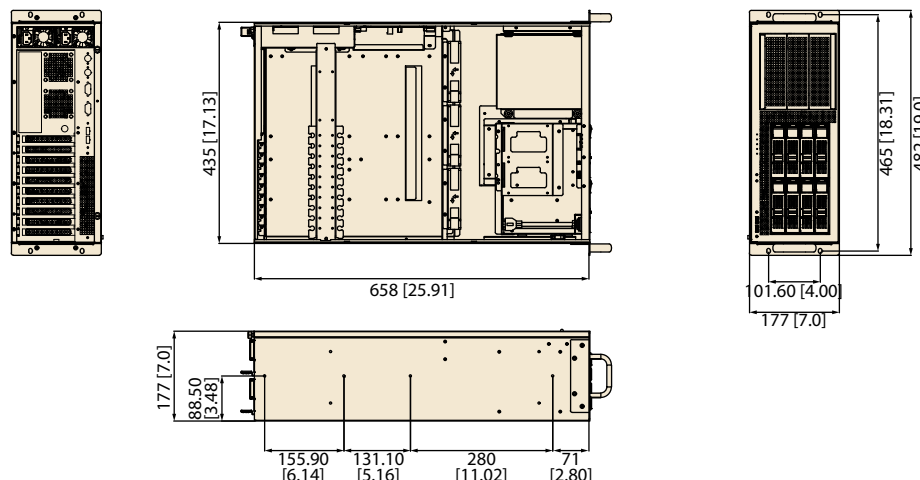
Specifications

Processor System	CPU type	Intel Xeon E5-2600 v3/v4 processor	
	CPU socket	Intel LGA-2011-R3	
	Memory	DDR4 ECC-REG 2133/1866/1600 MHz RDIMMs, maximum 256 GB	
	Chipset	Intel C612 Chipset	
Graphics	Controller	Aspeed AST2400	
	VRAM	64 MB	
Expansion Slot	PCIe x16 (Gen 3.0)	4 (Slot 3, Slot 5 and Slot 7 for GPU cards)	
	PCIe x8 (Gen 3.0)	2 (Slot 2, Slot 6)	
	PCIe x4 (Gen 2.0)	1 (Slot 4) from PCH	
	PCIe x1 (Gen 2.0)	-	
Drive Bay	Slime Odd Bay	-	
	5.25" Front-Accessibl	3	
	3.5"/2.5" Hot-swappable	8	
	2.5" Internal	2	
Ethernet	Interface	10/100/1000 Mbps Gigabit Ethernet	
	Controller	2 x Intel I210AT	
Remote Management		IPMI, Advantech Remote Monitoring Utility	
Front I/O Interface	USB	2 x USB3.0	
		4 (2 x USB3.0 + 2 x USB2.0)	
Rear I/O Interface	USB	2	
	PS/2	2	
	COM	1	
	Display	1 x VGA	
	Parallel	-	
	RJ-45	3 (1 port dedicated for IPMI function)	
Watchdog Timer	Output	Interrupt, system reset	
	Interval	Programmable, 1~255 sec	
Power Supply	Power Output Wattage	80 PLUS Platinum 1800W 1+1 redundant power supply	
		1000W @ 100 ~ 127V 1800W @ 200 ~ 240V	
	Input Range	AC 100 ~ 240 V	
Cooling	Chassis Fan	3 x 12cm system fan in middle fan bar 2 x 8cm system fan in rear window	
	Air Filter	-	
Miscellaneous	LED Indicators	Power status, HDD activity, LAN activity	
	Remote Management	IPMI, Advantech Remote Monitoring Utility	
Environment		Operating	Non-Operating
	Temperature	0 ~ 35 °C (32 ~ 95 °F)	-20 ~ 60 °C (-4 ~ 140 °F)
	Humidity	10 ~ 85% @ 40 °C	10 ~ 95% @ 40 °C
	Vibration (5 ~ 500 Hz)	1 Grms	2 G
	Shock (with 11 ms du ration, half sine wave)	10G	
Physical Characteristics	Dimension (W x H x D)	482 x 177 x 448 mm (17.1" x 6.9" x 25.9")	

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Dimensions

Unit: mm



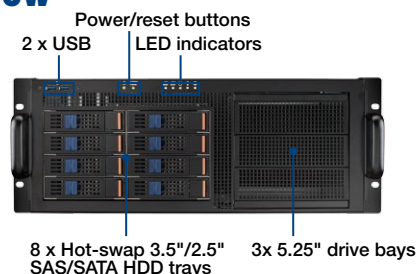
Ordering Information

Part Number	Description	Quantity
HPC-7483-20RX	With redundant 1+1 2000W power supply	1
ASMB-923I-00A1E	LGA 2011-R3 EATX server board	1
98R1748300E	Rear side 8cm fan kit for high-watt GPU cards	1

Packing List

Part number	Description	Quantity
1750008306-01	12cm system fan (Pre-installed)	3
9661831600E	3.5" HDD Trays (Pre-installed)	8
1700025828-01	PDB CN1 connector to MB 4pin or 8pin 12V connector of PCIe slot	1
2066923100	Driver CD	1
2006923110	Startup manual	1
1700003194	SATA data cables	2
1703150102	SATA power cables	2
1700019748	CPU power cable(8P)	2
1960052312T010	I/O shield	1

Front View



Rear View



Optional Accessories

Cable request for optional device	Part number	Description	Quantity
5.25" to 3.5" Convert HDD kit	Refer to the P-Trade web site	Mobile rack for converting dual 5.25" drive bays to three 3.5" SAS/SATA HDD Trays	1
5.25" ODD or other SATA device	1700021733-01	SATA cable for optional ODD/HDD (65cm)	3
MB without RAID card	1700025861-01	SATA cable for optional ODD/HDD (65cm)	1
MB with SAS2 RAID card	1700025440-01	Mini SAS HD 8643 to 4 ports SATA Cable (50cm)	2
MB with SAS3 RAID card	1700025065-01	Mini SAS HD 8643 to Mini SAS (85cm)	2
The 2nd GPU card	1700025829-01	Mini SAS HD 8643 to Mini SAS HD 8643 (85cm)	2
The 3rd GPU card	1700025829-01	PDB 8P connector to 6+2 connector for GPU card (80cm)	2
The 4th GPU card	1700025829-01	PDB 8P connector to 6+2 connector for GPU card (80cm)	2
4 ports SATA HBA card	9691831620E	PDB 8P connector to 6+2 connector for GPU card (80cm)	2
Rear IO KMBS port	1700021733-01	ASS'Y HPC-8316 SATA HBA Rev.A1 01	1
Rear IO COM port	1700019268-11	SATA cable for optional ODD/HDD (65cm)	4
Rear IO USB port	1701092300	A Cable M-DIN 6P(F)*2/1*6P-2.5	1
	1700024532-01	Dual RS-232 COM port cable	1
	1700017849	USB 3.0 dual port cable	1
		USB 2.0 dual port cable	1
CPU cooler for 2U/4U	LGA-2011 square CPU cooler for 4U chassis (160W)	LGA-2011 square CPU cooler for 2U/4U chassis (145W)	
CPU cooler for 4U	1960065684N001	LGA-2011 square CPU cooler for 4U chassis (160W)	

Server Boards

NEW



NEW

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	PCIe x1	-	-	-	1	-
	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 1 GB maximum shared memory with 2 GB and above system memory installed	Intel GT2-HD Graphics 1 GB maximum shared memory with 2 GB and above system memory installed	Intel GT2-HD Graphics 1 GB maximum shared memory with 2 GB and above system memory	Intel HD Graphics 1 GB maximum shared memory with 2 GB and above system memory installed
	VRAM	DDR3 64MB	-	-	-	-
	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	-	-	-	-	-
Watchdog Timer	Compact Flash	-	-	-	-	-
	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	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, Δ: optional

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
	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
TPM	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	-	-	-	-	-
	Compact Flash	-	-	-	-	-
	GPIO	8 bit GPIO	8 bit GPIO	8 bit GPIO	8 bit GPIO	8 bit GPIO
Watchdog Timer	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

Server Boards



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	-	-
	PCIe x1	-	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
Graphics	Controller	AST1400/AST2400	AST2510/AST2500	AST2510/AST2500	AST1300/AST2300
	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

- 1 Software and Industry Solutions
- 2 Industrial Server
- 3 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



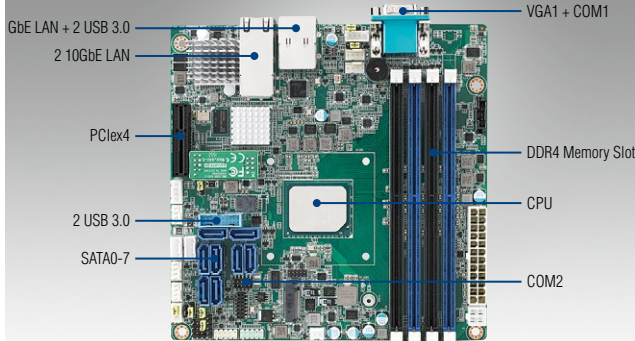
Model Name		ASMB-913	ASMB-923	ASMB-925	ASMB-975	ASMB-935
Form Factor		EATX	EATX	EATX	Proprietary	EATX
Processor System	CPU	Intel® Xeon® E5-2600 v3/v4 Series	Intel® Xeon® E5-2600 v3/v4 Series	Intel® Xeon® Scalable Series	Intel® Xeon® Scalable Series	Intel® Xeon® Scalable Series
	Socket	2 x socket 2011-R3	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	-	-	-	-	-
Ethernet	Dual Display	-	-	-	-	-
	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
TPM	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)
	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	Interval	Programmable, 1 ~ 255 sec	Programmable, 1 ~ 255 sec	Programmable, 1 ~ 255 sec	Programmable, 1 ~ 255 sec	Programmable, 1 ~ 255 sec

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

ASMB-260

Intel® Atom™ C3000 Mini-ITX Server Board with 4 DDR4 DIMM, 1 PCIe x4 Slot (Gen 3.0), 8 SATA III, IPMI

NEW



CE FCC

Specifications

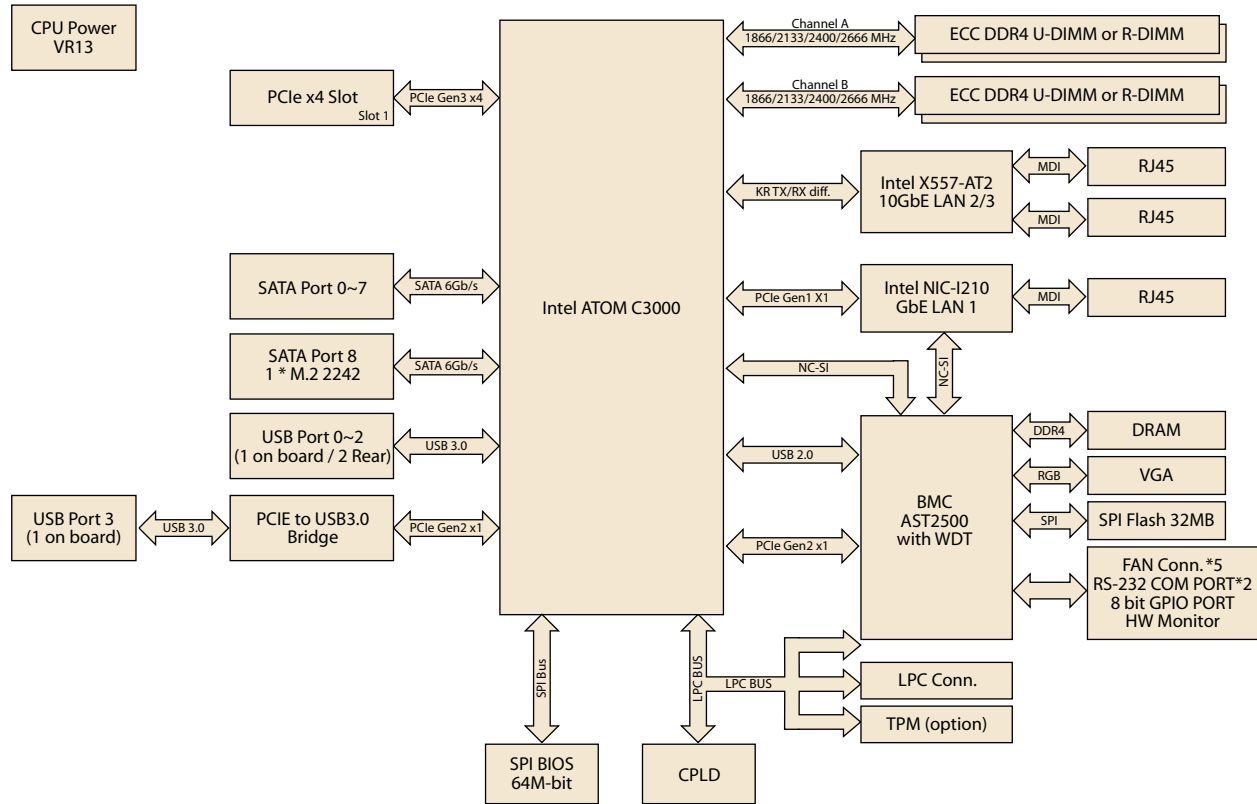
Form Factor		Mini-ITX form factor				
Processor System	Socket	Onboard SOC				
	CPU type	Intel® Atom™ C3000				
Core Logic	Chipset	N/A				
Memory	Total slots	4 (Dual Channel)				
	Capacity	Maximum 128GB for RDIMM Maximum 64BGB for UDIMM				
	Memory type	DDR4 2400/2133/1866/1600 MHz DIMM				
	Memory size	4 GB, 8 GB, 16 GB, 32GB (only for RDIMM)				
Expansion Slots	Total PCI/PCI-X/PCIe slots	1				
	Slot location 1	PCIe x4 slot (Gen3 x4 link)				
Graphics	VGA	Aspeed AST 2500				
Storage	IDE controller	-				
	SATA controller	8 x SATA III + 1 x M.2 6 Gb/s ports				
	SAS controller	-				
Networking	GbE/10GbE LAN	Intel I210AT/Intel X557-AT2 (dual 10GbE ports)				
Onboard I/O Connector	LPC connector	1				
	PSU connector	24-pin ATX power connector or 4-pin 12V DC input				
	USB connector	1 x USB3.0 pin header (supports 2 x USB 3.0 port)				
	Fan header	5 x 4-pin (4 for system + 1 for CPU)				
	SMBus	1				
	Chassis intruder	1				
	Front LAN LED	1				
	Audio Header	-				
Rear I/O Connector	Serial port header	1				
	External serial port	1				
	External USB port	2 (supports 2 x USB 3.0)				
	VGA port	1				
	RJ-45	3 (share NIC for IPMI function)				
	PS/2 KB/mouse	-				
Management Solution	Software	-				
	Out of band remote management	Yes				
Monitoring	CPU temperature	Yes				
	System Monitoring	Yes				
Watchdog Timer	Output	System reset				
	Interval	Programmable 1 ~ 255 sec/min				
Power Requirement	Power On	3.3V	5V	12V	5Vsb	-12V
		0.10A	0.10A	6.41A	0.54A	0A
Environment		Operating			Non-operating	
	Temperature	0 ~ 60 °C, depends on CPU speed and cooler solution			-40 ~ 85 °C	
	Humidity	10% ~ 95%			10% ~ 95% (Non condensing)	
Physical Characteristics	Dimension (L x H)	170 x 170 mm (6.7" x 6.7")				

Features

- Mini-ITX server board with Intel® Atom™ C3000 processor
- Four DDR4 2400MHz ECC/Non-ECC UDIMM up to 64GB or four DDR4 2400MHz RDIMM up to 128GB
- One PCIe x4, 8 SATA III, one M.2, four USB 3.0, and two 10GbE/one GbE LAN
- 0 ~ 60 °C ambient operation temperature range

- 1 Software and Industry Solutions
- 2 Industrial Server
- 3 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

Block Diagram



Ordering Information

Part Number	CPU	Memory	10GbE Lan	GbE Lan	SATA	M.2	VGA	IPMI
ASMB-260T2-22A1	C3758	4 xDDR4 RDIMM/UDIMM	2	1	8	1	AST 2500	Yes
ASMB-260I-22A1	C3758	4 xDDR4 RDIMM/UDIMM	-	1	8	1	AST 2500	Yes
ASMB-260I-21A1	C3558	4 xDDR4 RDIMM/UDIMM	-	1	2	0	AST 2500	Yes

Packing List

Part Number	Description	Quantity
2061260I00	Driver CD	x 1
2001026000	Start manual	x 1
1960052312T020	I/O shield	x 1
1700003194	SATA Data Cables	x 2
1930007120-01	Screw for M.2 device	x 2
1700024372-01	SATA Power cable	x 2

Optional Accessories

Part number	Description
1960080721N001	Atom C3000 cooler for 1U/2U and tower chassis
1700019414	COM port cable w/o bracket
1700002204	Dual port USB 2.0 cable (27 cm) with bracket
1700020277-01	Dual port USB3.0 cable (30 cm) with bracket
1920000406T010	1U I/O shield

Note: Purchasing ASMB-260's proprietary CPU cooler from Advantech is a must.

I/O View



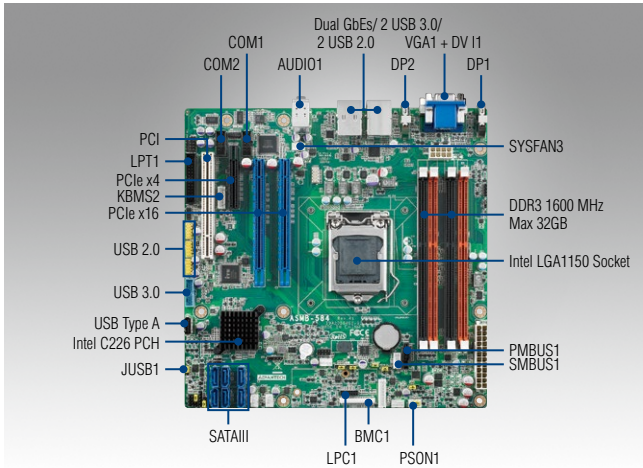
ASMB-260T2-22A1



ASMB-260I-22A1
ASMB-260I-21A1

ASMB-584

LGA 1150 Intel® Xeon® E3 v3/ 4th Generation Core™ Micro ATX Server Board with 2 PCIe x16 slots (x8 link), 1 PCIe x4, 1 PCI, USB 3.0, Dual LANs



CE FCC

Features

- Supports LGA 1150 Intel® Xeon® E3 v3 and 4th generation Core™ i7/i5/i3 processors
- DDR3 1600 MHz ECC UDIMM up to 32GB
- Two PCIe x16 slots (x8 link), one PCIe x4 and one PCI slots
- Rackmount optimized placement with positive air flow design
- Supports Intel vPro, AMT 9.0, IPMI (optional), software RAID 0,1,5,10 and embedded software APIs/utilities

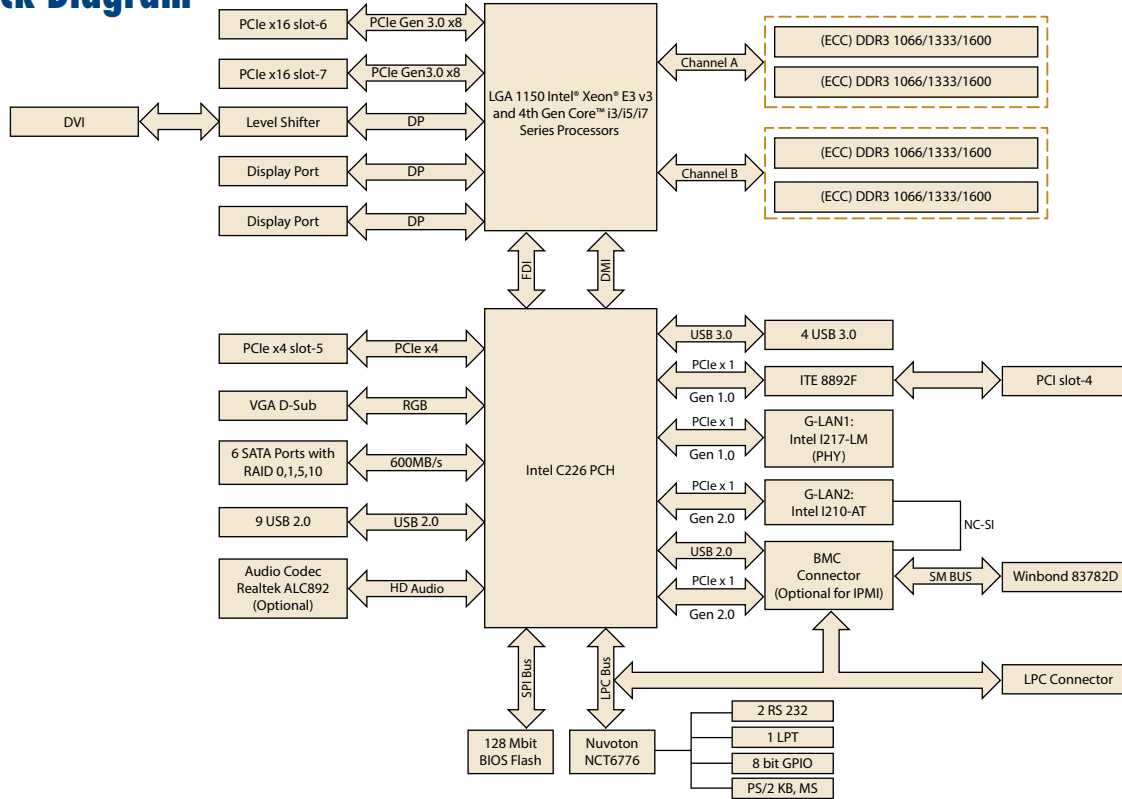
Specifications

Form Factor	Micro ATX form factor					
Processor System	Socket	Intel LGA 1150				
	CPU type	Intel® Xeon® E3-1200 v3 and Core™ i3/i5/i7 series (TDP up to 88W)				
Core Logic	Chipset	Intel C226 chipset				
Memory	Total slots	4 (Dual Channel)				
	Max. capacity	32 GB				
	Memory type	DDR3 ECC/Non-ECC 1600/1333/1066 MHz UDIMM (240-pin)*				
	Memory size	1 GB, 2 GB, 4 GB, 8 GB				
Expansion Slots	Total PCI/PCI-X/PCIe slots	4				
	Slot location 1	-				
	Slot location 2	-				
	Slot location 3	-				
	Slot location 4	PCI				
	Slot location 5	PCIe x4 (Gen2 x4 link)				
	Slot location 6	PCI x16 slot (Gen3 x8 link)				
Graphics	Controller	Intel HD Graphics				
	VRAM	1 GB maximum shared memory with 2 GB and above system memory installed				
Storage	SATA controller	Intel C226: 6 SATA3 6 Gb/s ports with Intel Rapid Storage Technology support (for Windows only) (Supports software RAID 0, 1, 10 & 5)				
	SAS controller	-				
Networking	Interface	10/100/1000 Mbps				
	Controller	GbE LAN1: Intel I217-LM; GbE LAN2: Intel I210-AT				
	Connector	RJ-45 x 2				
Onboard I/O Connector	Printer Port connector	1				
	PSU connector	24-pin SSI power connector + 8-pin SSI 12V power connector				
	USB connector	2 USB 3.0; 7 USB 2.0 (1 x USB Type-A)				
	Fan header	5 (4-pin)				
	SMBus	2				
	Chassis intruder	1				
	Front LAN LED	1				
	Serial port header	2 (RS-232)				
	Audio Connector	1 (ALC 892)				
	PS/2 KB/Mouse	1				
Rear I/O Connector	External serial port	-				
	External USB port	4 (2 USB 3.0 and 2 USB 2.0)				
	VGA port	1				
	DVI	1				
	Display Port	2				
	RJ-45	2 for G2 version				
	PS/2 KB/mouse	-				
	Audio	2 (Mic-in, Line-out)				
Watchdog Timer	Output	System reset				
	Interval	Programmable 1 ~ 255 sec				
Power Requirement	Power On	Intel LGA1150 2.6GHz; DDR3 4G x4				
		3.3 V	5 V	12 V	12V_8P	5 Vsb
Environment	Operating	3.7 A	2.22 A	0.07 A	3.77 A	0.12 A
	Temperature	0 ~ 60 °C (32 ~ 140 °F)				
Physical Characteristics	Humidity	Depends on CPU speed and cooler solution				
	Dimension (L x H)	244 x 244 mm (9.6" x 9.6")				

*Memory ECC function enabled or not depends on processor support.

ASMB-584

Block Diagram



Ordering Information

Part Number	Chipset	Memory	LAN	DVI	Display Port	IPMI	PCI / PCIe Slots
ASMB-584G2-00A1E	C226	DDR3 ECC UNB/Non-ECC	2	1	2	Optional Module	1 / 3
ASMB-584G2-00A2E*	C226	DDR3 ECC UNB/Non-ECC	2	1	2	Optional Module	0 / 3
ASMB-584VG-00A1E	C226	DDR3 ECC UNB/Non-ECC	1	1	N/A	N/A	1 / 3

*ASMB-584G2-00A2E is designed for 1U & 2U chassis with riser.

Packing List

Part Number	Description	Quantity
2066S58402	Driver CD	x 1
2066S58410	Startup manual	x 1
1700003194	SATA data cables	x 2
1700022749-11	SATA power cables	x 2
19Z0000470T000	I/O shield	x 1

I/O View



ASMB-584G2-00A1E
ASMB-584G2-00A2E



ASMB-584VG-00A1E

Optional Accessories

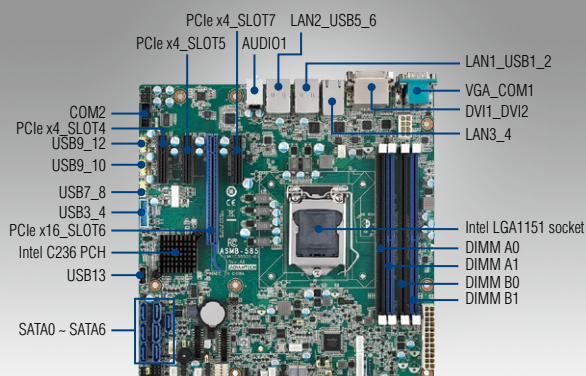
Part Number	Description
1700002204	Dual port USB 2.0 cable (27 cm) with bracket
1700008461	Four port USB 2.0 cable (30.5 cm) with bracket
1960052651N021	LGA 1151/1150/1155 CPU cooler for 2U/4U and wallmount chassis (TDP up to 95W)
1960049408N001	LGA 1151/1150/1155 1U CPU Cooler (TDP up to 95W)
19Z0001023T000	1U I/O shield
1700008809	Printer port cable kit (25 cm)
1700020294-01	Printer port cable kit (42 cm)
1701090401	COM port cable with bracket (40 cm)
1700020277-01	Dual port USB 3.0 cable with bracket (30 cm)
ASMB-RF348-21A1E	2U riser card (PCIe x16 to 2 PCIe x4 + 1 PCIe x8)
AIMB-RF10F-01A1E	1U riser card (PCIe x16 to PCIe x16)
IPMI-1000-00A1E	IPMI 2.0 Module
PCA-TPM-00A1E	TPM Module with Infineon TPM 1.2 solution

Note 1: To enable Intel vPro feature, PCA-TPM-00A1E must be installed. TPM and IPMI modules are installation alternatives.

Note 2: Purchasing ASMB-584's proprietary CPU cooler from Advantech is a must. Other brands' CPU coolers are NOT compatible with ASMB-584.

ASMB-585

LGA 1151 Intel® Xeon® E3 v5/v6 & 6th/7th Generation Core™ Series Micro ATX Server Board with 4 DDR4, 1 PCIe x16, 3 PCIe x4, Quad LANs, USB 3.0



Features

- Supports LGA 1151 Intel® Xeon® E3-1200 v5/v6 and 6th/7th generation Core™ i7/i5/i3 processors
- DDR4 ECC/non-ECC 2400/2133/1866/1600 MHz DIMM up to 64GB
- One PCIe x16 slot (Gen3 x16 link), three PCIe x4 slots (2 Gen3 x4 link, 1 Gen3 x1 link)
- 0 ~ 60 °C ambient operation temperature range
- Supports up to ten RS-232 or six RS-232 and four RS-422/485 ports
- Supports up to four gigabit LAN ports
- Triple display - two DVI-D and one VGA ports
- Supports seven SATA3 ports and six USB 3.0 ports

Quiet

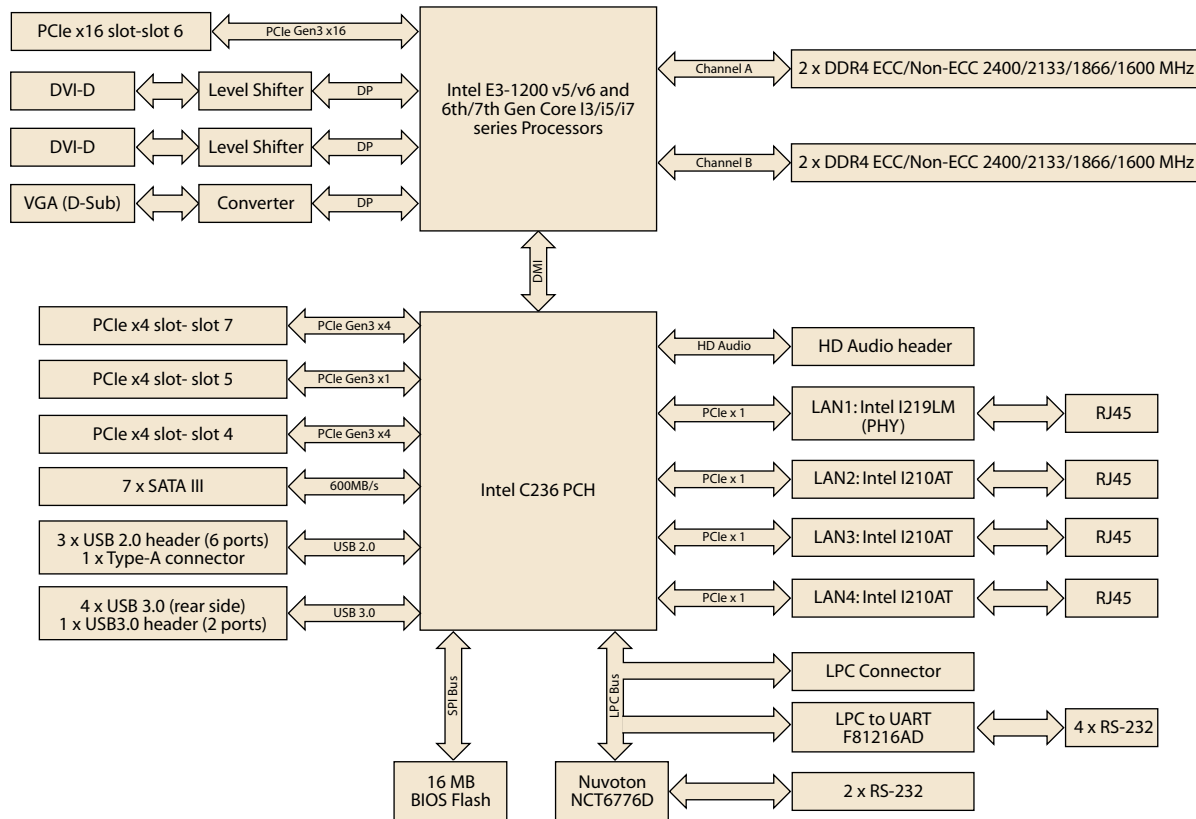
CE FCC

Specifications

Form Factor		Micro ATX form factor				
Processor System	Socket	Intel LGA 1151				
	CPU type	Intel® Xeon® E3-1200 v5/v6 and 6th/7th Gen Core™ i3/i5/i7 series processors (TDP up to 91W)				
Core Logic	Chipset	Intel C236 chipset				
Memory	Total slots	4				
	Capacity	Maximum 64 GB				
	Memory type	DDR4 ECC/Non-ECC 2400/2133/1866/1600 MHz UDIMM				
	Memory size	4 GB, 8 GB, 16 GB				
Expansion Slots	Total PCI/PCI-X/PCIe slots	4				
	Slot location 1	-				
	Slot location 2	-				
	Slot location 3	-				
	Slot location 4	PCIe x4 slot (Gen3 x4 link)				
	Slot location 5	PCIe x4 slot (Gen3 x1 link)				
	Slot location 6	PCIe x16 slot (Gen3 x16 link)				
	Slot location 7	PCIe x4 slot (Gen3 x4 link)				
Graphics	VGA	Intel HD Graphics				
	VRAM	1 GB maximum shared memory with 2 GB and above system memory installed				
Storage	SATA controller	Intel C236: 7 SATA3 6Gb/s Intel Rapid Storage Technology (for Windows only) (Supports software RAID 0, 1, 10 & 5)				
	SAS controller	-				
Networking	GbE LAN	1 x Intel I219LM + 3 x Intel I210AT				
Onboard I/O Connector	LPT connector	-				
	PSU connector	24-pin SSI power connector + 8-pin SSI 12 V power connector				
	USB 2.0 connector	3 (supports 6 x USB2.0 port), 1 x Type-A				
	USB 3.0 connector	1 (support 2 x USB 3.0 port)				
	Fan header	5 x 4pin				
	SMBus	1				
	Chassis intruder	1				
	Front LAN LED	2				
	Audio Header	1 (ALC 892)				
	Serial port header	3 (supports 5 x serial ports)				
Rear I/O Connector	External serial port	1				
	External USB port	4 x USB 3.0				
	VGA port	1				
	DVI port	2				
	RJ-45	4				
	PS/2 KB/mouse	-				
Watchdog Timer	Audio	2 (Mic-in , Line-out)				
	Output	System reset				
Power Requirement	Interval	Programmable 1 ~ 255 sec/min				
	Power On	3.3 V 0.68A	5 V 1.31A	12 V 1.04A	5 Vsb 0.13A	-12 V 0.06A
Environment		Operating		Non-operating		
	Temperature	0 ~ 60 °C, depends on CPU speed and cooler solution		-40 ~ 85 °C		
	Humidity	0% ~ 90%		5% ~ 95% (Non condensing)		
Physical Characteristics	Dimension (L x H)	244 x 244 mm (9.6" x 9.6")				

- 1 Software and Industry Solutions
- 2 Industrial Server
- 3 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

Block Diagram



Ordering Information

Part Number	Chipset	Memory	LAN	IPMI	Graphics
ASMB-585G2-00A1E	C236	DDR4 ECC/Non-ECC	2	-	Intel HD Graphics
ASMB-585G4-00A1E	C236	DDR4 ECC/Non-ECC	4	-	Intel HD Graphics

Packing List

Part Number	Description	Quantity
2061058502	Driver CD	x 1
2001058502	Startup manual	x 1
1700003194	SATA data cables	x 2
1700022749-11	SATA power cables	x 2
19Z0000996T010	I/O shield	x 1

Optional Accessories

Part Number	Description
1960049408N001	LGA 1151 CPU heatsink for 1U chassis (TDP up to 95W)
1960052651N021	LGA 1151 CPU cooler for 2U/4U chassis (TDP up to 95W)
PCA-TPM-00B1E	TPM 2.0 Module by LPC
19Z0001156T010	1U IO bracket for ASMB-585
1700002204	Dual port USB2.0 cable (27 cm) with bracket
1700008461	Four port USB2.0 cable (30.5 cm) with bracket
1700020277-01	Dual port USB3.0 cable (30 cm) with bracket
PCA-COM232-00A1E	4 ports RS-232 module connect to LPC connectors
PCA-COM485-00A1E	4 ports RS-422/485 module connect to LPC connectors
1701090401	Single port RS-232 cable(40cm) for COM2 connector
1700026254-01	Dual port RS-232 cable(45cm) for COM3_4 & COM5_6 connectors
1700019268-11	Cable for onboard KBMS1 connector (35cm)
1960063434N000	Cable bracket for 1700019268-11

I/O View



ASMB-585G2-00A1E



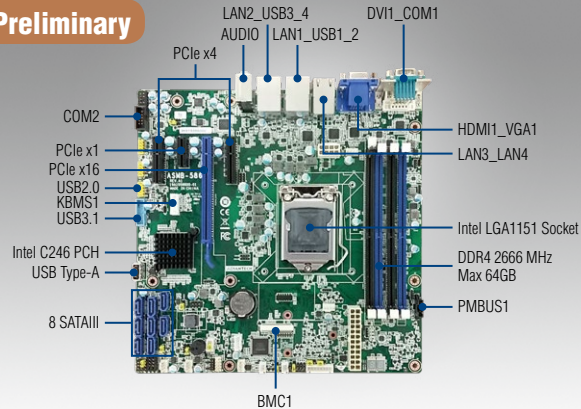
ASMB-585G4-00A1E

Note 1: Purchasing ASMB-585's proprietary CPU cooler from Advantech is a must. Other brands' CPU coolers may NOT compatible with ASMB-585.

ASMB-586

LGA 1151 Intel® Xeon® E & 8th Generation Core™ MicroATX Server Board with 4 DDR4, 4 PCIe, 6 USB 3.1, 8 SATA3, Quad/Dual LANs, IPMI

Preliminary



Features

- Supports LGA 1151 Intel® Xeon® E and 8th generation Core™ i7/i5/i3 processors
- DDR4 ECC/Non-ECC 2666/2400/2133 MHz UDIMM up to 64GB
- One PCIe x16, three PCIe x4 and one PCIe x1 slots
- Triple displays - DVI-D, VGA and HDMI 2.0 ports
- Eight SATA3 ports and six USB 3.1 ports
- 0 ~ 60° C ambient operating temperature range

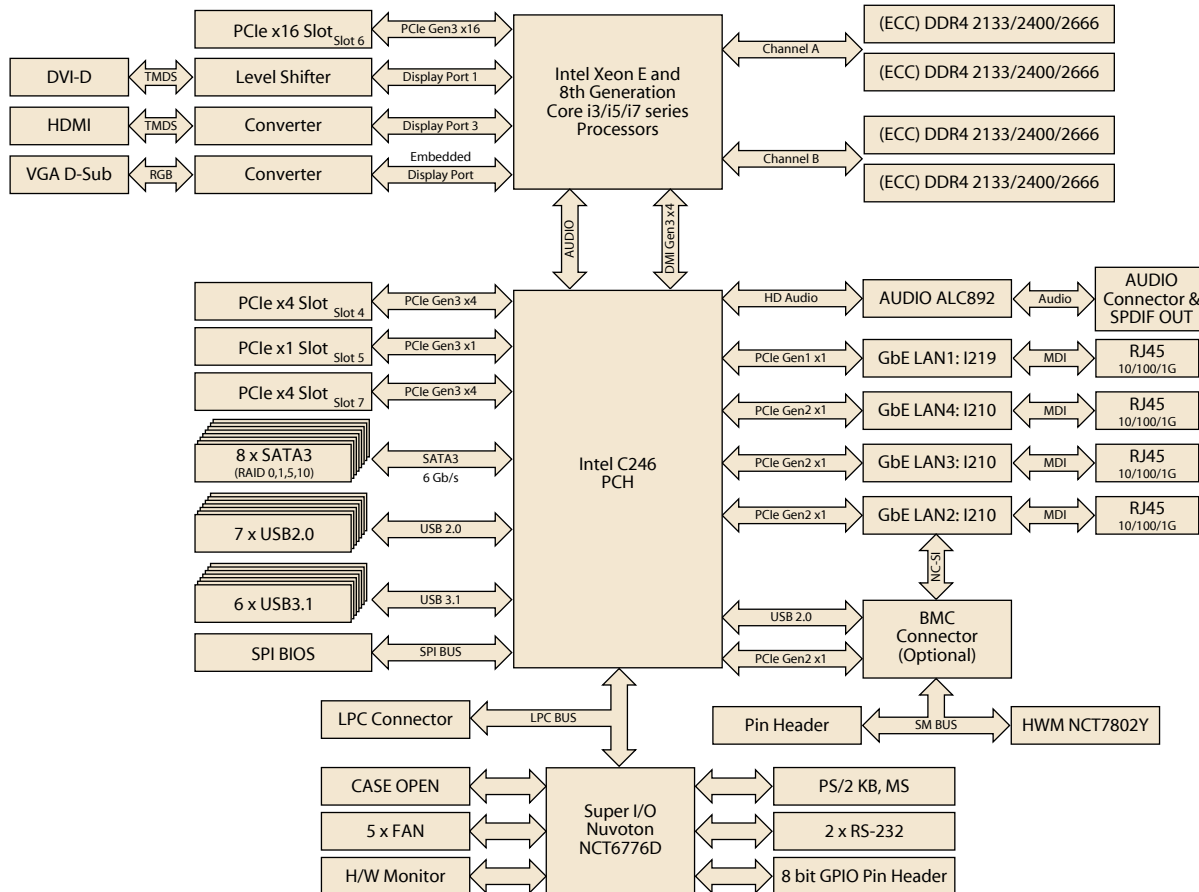
Quiet

Specifications

CE FCC

Form Factor		Micro ATX form factor					
Processor System	Socket	Intel LGA 1151					
	CPU type	Intel® Xeon® E and 8th Gen Core™ i3/i5/i7 series processors (TDP up to 95W)					
Core Logic	Chipset	Intel C246 chipset					
Memory	Total slots	4 (Dual Channel)					
	Capacity	Maximum 64 GB					
	Memory type	DDR4 ECC/Non-ECC 2666/2400/2133 MHz UDIMM (288-pin)					
	Memory size	4 GB, 8 GB, 16 GB					
Expansion Slots	Total PCIe slots	4					
	Slot location 1	-					
	Slot location 2	-					
	Slot location 3	-					
	Slot location 4	PCIe x4 slot (Gen3 x4 link)					
	Slot location 5	PCIe x1 slot (Gen3 x1 link)					
	Slot location 6	PCIe x16 slot (Gen3 x16 link)					
	Slot location 7	PCIe x4 slot (Gen3 x4 link)					
Graphics	VGA	Intel HD Graphics					
	VRAM	1 GB maximum shared memory with 2 GB and above system memory installed					
Storage	SATA controller	Intel C246: 8 SATA3 6Gb/s Intel Matrix Storage (for Windows only) (Supports software RAID 0, 1, 10 & 5)					
	SAS controller	-					
Networking	GbE LAN	1 x Intel I219LM + 3 x Intel I210AT					
Onboard I/O Connector	LPT connector	-					
	PSU connector	24-pin SSI power connector + 8-pin SSI 12 V power connector					
	USB connector	1 USB 3.1 Gen 1 (2 ports), 3 USB 2.0 (6 ports), 1 USB Type-A					
	Fan header	5 (4-pin)					
	SMBus	1					
	Chassis intruder	1					
	Front LAN LED	2					
	Serial port header	1 (supports 2 x serial ports)					
	Audio Header	1 (ALC 892)					
PS/2 KB/Mouse	1						
Rear I/O Connector	External serial port	1					
	External USB port	4 (USB 3.1 Gen 2)					
	VGA port	1					
	DVI port	1					
	HDMI	1					
	RJ-45	4					
	PS/2 KB/mouse	-					
	Audio	2 (Mic-in , Line-out)					
Watchdog Timer	Output	System reset					
	Interval	Programmable 1 ~ 255 sec/min					
Power Requirement	Power On	3.3 V	5 V	12 V	12V_8P	5 Vsb	-12 V
	(i7-8700@ 3.2GHz DDR4 2400 4G*4)	3.87A	4.11A	0.63A	6.18A	0.09A	0.238A
Environment	Operating				Non-operating		
	Temperature	0 ~ 60° C, depends on CPU speed and cooler solution			-40 ~ 85° C		
Physical Characteristics	Humidity	0% ~ 90%			5% ~ 95% (Non condensing)		
	Dimensions	244 x 244 mm (9.6" x 9.6")					

Block Diagram



Ordering Information

Part Number	Chipset	Memory	LAN	SATAIII	IPMI
ASMB-586G2-00A1E	C246	DDR4 ECC/Non-ECC	2	8	Optional
ASMB-586G4-00A1E	C246	DDR4 ECC/Non-ECC	4	8	Optional

Packing List

Part Number	Description	Quantity
2001S58610	Startup manual	x 1
1700003194	SATA data cables	x 2
1700022749-11	SATA power cables	x 2
(TBD)	I/O shield	x 1

Optional Accessories

Part Number	Description
1960049408N001	LGA 1151 CPU heatsink for 1U chassis (TDP up to 95W)
1960052651N021	LGA 1151 CPU cooler for 2U/4U chassis (TDP up to 95W)
PCA-TPM-00B1E	TPM Module by LPC
(TBD)	1U IO bracket for ASMB-586
1700002204	Dual port USB2.0 cable (27 cm) with bracket
1700008461	Four port USB2.0 cable (30.5 cm) with bracket
1700020277-01	Dual port USB3.0 cable (30 cm) with bracket
PCA-COM232-00A1E	4 ports RS-232 module connect to LPC connector
PCA-COM485-00A1E	4 ports RS-422/485 module connect to LPC connector
1701090401	Single port RS-232 cable(40cm) for COM2 connector
1700019268-11	Cable for onboard KBMS1 connector (35cm)
1960063434N000	Cable bracket for 1700019268-11
IPMI-1000-00A2E	IPMI 2.0 Module

I/O View



ASMB-586G4-00A1

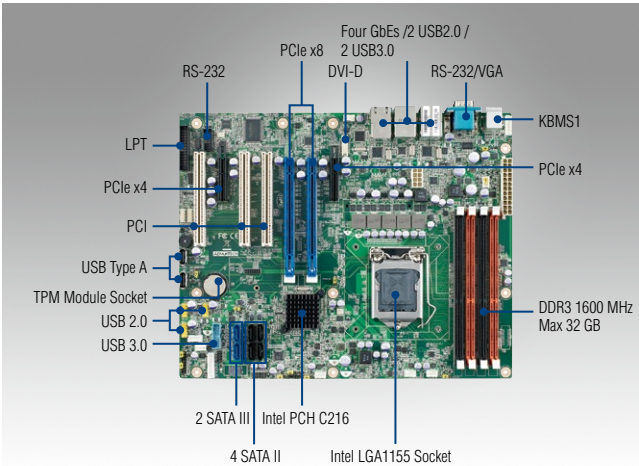


ASMB-586G2-00A1

Note 1: Purchasing ASMB-586's proprietary CPU cooler from Advantech is a must. Other brands' CPU coolers may NOT compatible with ASMB-586.

ASMB-782

LGA 1155 Intel® Xeon® E3/ E3 v2/ 2nd and 3rd Generation Core™ ATX Server Board with 2 PCIe x16 Slots (x8 link), 2 PCIe x4, USB 3.0, Quad LANs



Features

- LGA 1155 Intel® Xeon® E3 / E3 v2 / 2nd and 3rd generation Core™ i3 / Pentium processors
- DDR3 1600 MHz ECC UDIMM up to 32GB
- Two PCIe x16 slots (x8 link) and two PCIe x4 slots
- Quad LANs with teaming function
- Four USB 3.0 ports

Software APIs:



Utilities:



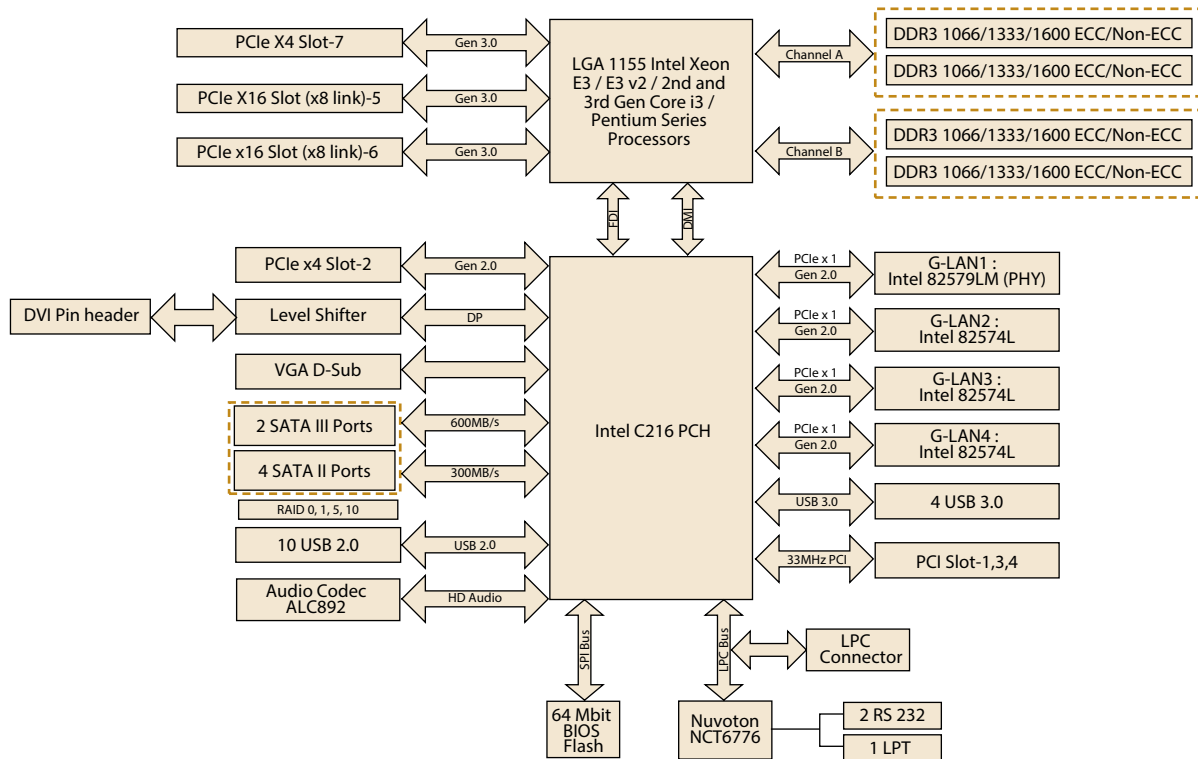
Specifications

Form Factor	ATX form factor					
Processor System	Socket	Intel LGA 1155				
	CPU type	Intel Xeon E3-1200/E3-1200 v2/ 2nd and 3rd Generation Core i3/i5/i7 / Pentium and Celeron series				
Core Logic	Chipset	Intel C216 chipset				
Memory	Total slots	4 (Dual Channel)				
	Max. capacity	32 GB				
	Memory type	DDR3 ECC/Non-ECC 1600/1333/1600 MHz UDIMM (240-pin)*				
	Memory size	1 GB, 2 GB, 4 GB, 8 GB				
Expansion Slots	Total PCI/PCI-X/PCIe slots	7				
	Slot location 1	PCI				
	Slot location 2	PCIe x4 (Gen2 x4 link)				
	Slot location 3	PCI				
	Slot location 4	PCI				
	Slot location 5	PCIe x16 slot (Gen3 x8 link)				
	Slot location 6	PCIe x16 slot (Gen3 x8 link)				
Graphics	Slot location 7	PCI x4 slot (Gen3 x4 link)				
	Controller	Intel HD Graphics 2500/P3000/P4000				
Storage	VRAM	1 GB maximum shared memory with 2 GB and above system memory installed				
	SATA controller	Intel C216: 4 SATA2 3 Gb/s ports, 2 SATA3 6Gb/s Intel Matrix Storage (for Windows only) (Supports software RAID 0, 1, 10 & 5)				
Networking	SAS controller	-				
	Interface	10/100/1000 Mbps				
Onboard I/O Connector	Controller	GbE LAN1: Intel 82579LM; GbE LAN2/3/4: Intel 82574L				
	Connector	RJ-45 x 4 for G4 version				
	PSU connector	24-pin SSI power connector + 8-pin SSI 12 V power connector				
Rear I/O Connector	USB connector	2 USB 3.0; 8 USB 2.0(2 x USB Type-A)				
	Fan header	5 (4-pin)				
	SMBus	2				
	Chassis intruder	1				
	Front LAN LED	2				
	Serial port header	1 (RS-232)				
	Audio Connector	1 (Realtek ALC 892 optional)				
	DVI Connector	1 for optional DVI-D output				
	External serial port	1 (RS-232)				
	External USB port	4 (2 USB 3.0 and 2 USB 2.0)				
Watchdog Timer	VGA port	1				
	RJ-45	2 for G2 version, 4 for G4 version				
Power Requirement	PS/2 KB/mouse	2				
	Output	System reset				
Environment	Interval	Programmable 1 ~ 255 sec				
	Power On	3.3V	5V	12V	12V_8P	5 Vsb -V12
Physical Characteristics		4.69A	1.39A	0.4A	3.01A	1.95A 0.01A
	Operating	0 ~ 60° C (32 ~ 140° F) Depends on CPU speed and cooler solution				Non-operating
Dimensions	Humidity	0% ~ 90%				-40 ~ 85° C (-40 ~ 185° F)
	Dimensions	304.8 x 244 mm (12" x 9.6")				5% ~ 95% (Non-condensing)

*DDR3 1600 is only supported by Xeon E3 v2, Core i3 3xxx and Pentium G2xxx series processors.

- 1 Software and Industry Solutions
- 2 Industrial Server
- 3 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

Block Diagram



Ordering Information

Part Number	Chipset	Memory	LAN	USB 3.0
ASMB-782G2-00A1E	C216	DDR3 ECC UNB/Non-ECC	2	4
ASMB-782G4-00A1E	C216	DDR3 ECC UNB/Non-ECC	4	4

Packing List

Part Number	Description	Quantity
2066S78200	Driver CD	x 1
2066S78210	Startup manual	x 1
1700003194	SATA data cables	x 2
1700022749-11	SATA power cables	x 2
1960052312T010	I/O shield	x 1

Optional Accessories

Part Number	Description
1700002204	Dual port USB 2.0 cable (27 cm) with bracket
1700008461	Four port USB 2.0 cable (30.5 cm) with bracket
1960052651N021	LGA 1151/1150/1155 CPU cooler for 2U/4U and wallmount chassis (TDP up to 95W)
1960049408N001	LGA 1151/1150/1155 1U CPU Cooler (TDP up to 95W)
19Z0000406T000	1U I/O shield
1700008809	Printer port cable kit (25 cm)
1700020294-01	Printer port cable kit (42 cm)
1701090401	COM port cable with bracket (40 cm)
1700008822	DVI cable with bracket
1700020277-01	Dual port USB 3.0 cable with bracket (30 cm)
AIMB-AUDIO-HDA1E	HD Audio-Card
PCA-TPM-00A1E	TPM Module with Infineon TPM 1.2 solution

I/O View



ASMB-782G4-00A1E



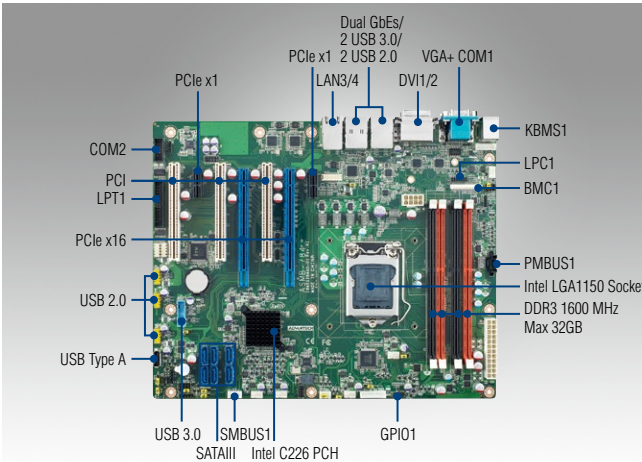
ASMB-782G2-00A1E

Note 1: Please order 1 piece of each 1960049408N001 and 19Z0000406T000 for configuring ASMB-782 with 1U chassis.

Note 2: Purchasing ASMB-782's proprietary CPU cooler from Advantech is a must. Other brands' CPU coolers are NOT compatible with ASMB-782.

ASMB-784

LGA 1150 Intel® Xeon® E3 v3/ 4th Generation Core™ ATX Server Board with 2 PCIe x16 Slots (x8 link), 3 PCI, USB 3.0, Quad/Dual LANs



Specifications

Form Factor	ATX form factor	
Processor System	Socket	Intel LGA 1150
	CPU type	Intel® Xeon® E3-1200 v3 and Core™ i3/i5/i7 series (TDP up to 88W)
Core Logic	Chipset	Intel C226 chipset
Memory	Total slots	4 (Dual Channel)
	Max. capacity	32 GB
	Memory type	DDR3 ECC/Non-ECC 1600/1333/1066 MHz UDIMM (240-pin)*
	Memory size	1 GB, 2 GB, 4 GB, 8 GB
Expansion Slots	Total PCI/PCI-X/PCIe slots	7
	Slot location 1	PCI
	Slot location 2	PCIe x1 slot (Gen2 x1 link)
	Slot location 3	PCI
	Slot location 4	PCI x16 slot (Gen3 x8 link)
	Slot location 5	PCI
	Slot location 6	PCI x16 slot (Gen3 x8 or x16 link)
Graphics	Slot location 7	PCIe x1 slot (Gen2 x1 link)
	Controller	Intel HD Graphics
Storage	VRAM	1 GB maximum shared memory with 2 GB and above system memory installed
	SATA controller	Intel C226: 6 SATA3 6 Gb/s ports with Intel Rapid Storage Technology support (for Windows only) (Supports software RAID 0, 1, 10 & 5)
Networking	SAS controller	-
	Interface	10/100/1000 Mbps
	Controller	GbE LAN1: Intel I217-LM; GbE LAN 2-4: Intel I210-AT
Onboard I/O Connector	Connector	RJ-45 x 2 for G2 version; RJ-45 x 4 for G4 version
	Printer Port connector	1
	PSU connector	24-pin SSI power connector + 8-pin SSI 12V power connector
	USB connector	2 USB 3.0; 7 USB 2.0 (1 x USB Type-A)
	Fan header	5 (4-pin)
	SMBus	2
	Chassis intruder	1
	Front LAN LED	2
	Serial port header	1 (RS-232)
	Audio Connector	1 (ALC 892)
	PS/2 KB/Mouse	1
Rear I/O Connector	External serial port	1
	External USB port	4 (2 USB 3.0 and 2 USB 2.0)
	VGA port	1
	DVI	2
	Display Port	-
	RJ-45	2 for G2 version. 4 for G4 version
	PS/2 KB/mouse	2
Watchdog Timer	Output	System reset
	Interval	Programmable 1 ~ 255 sec
Power Requirement	Power On	Intel® Xeon® E3-1275v3 3.5GHz; DDR3 8G x4
		3.3 V 5 V 12 V 12V_8P 5 Vsb -12 V
Environment		1.17A 2.30A 0.06A 4.33A 0.16A 0.01A
		Operating Non-operating
Physical Characteristics	Temperature	0 ~ 60 °C (32 ~ 140 °F)
	Humidity	Depends on CPU speed and cooler solution
		-40 ~ 85 °C (-40 ~ 185 °F)
		0% ~ 90% 5% ~ 95% (Non-condensing)
Physical Characteristics	Dimension (L x H)	304.8 x 244 mm (12" x 9.6")

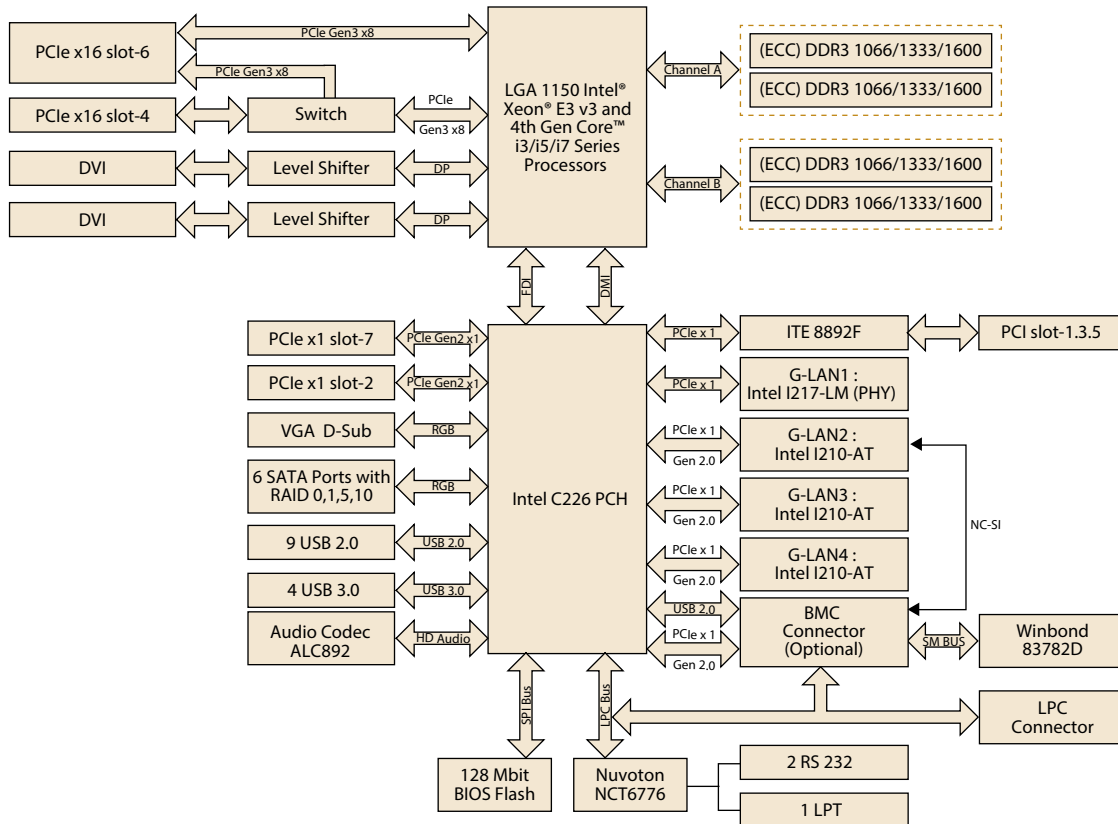
Memory ECC function enabled or not depends on processor support.

Features

- Supports LGA 1150 Intel® Xeon® E3-1200 v3 and 4th generation Core™ i7/i5/i3 processors
- DDR3 1600 MHz ECC/Non-ECC UDIMM up to 32GB
- One Gen 3.0 PCIe x16 link or two PCIe x16 slots with x8 link, two PCIe x1 and three PCI slots
- Rackmount optimized placement with positive air flow design
- Supports Intel vPro, AMT 9.0, IPMI (optional) and embedded software APIs and utilities

- 1 Software and Industry Solutions
- 2 Industrial Server
- 3 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

Block Diagram



Ordering Information

Part Number	Chipset	LAN	USB 3.0	DVI	SATAIII	IPMI
ASMB-784G2-00A1E	C226	2	4	2	6	Optional
ASMB-784G4-00A1E	C226	4	4	2	6	Optional

Packing List

Part Number	Description	Quantity
2066S78402	Driver CD	x 1
2066S78410	Startup manual	x 1
1700003194	SATA data cables	x 2
1700022749-11	SATA power cables	x 2
19Z0000502T000	I/O shield	x 1

Optional Accessories

Part Number	Description
1700002204	Dual port USB 2.0 cable (27 cm) with bracket
1700008461	Four port USB 2.0 cable (30.5 cm) with bracket
1960052651N021	LGA 1151/1150/1155 CPU cooler for 2U/4U and wallmount chassis (TDP up to 95W)
1960049408N001	LGA 1151/1150/1155 1U CPU Cooler (TDP up to 95W)
19Z0000747T000	1U I/O shield
1700008809	Printer port cable kit (25 cm)
1700020294-01	Printer port cable kit (42 cm)
1701090401	COM port cable with bracket (40 cm)
1700020277-01	Dual port USB 3.0 cable with bracket (30 cm)
1700007351	SATA cable L-type (for ACP-4320)
AIMB-AUDIO-HDA1E	HD Audio-Card
IPMI-1000-00A2E	IPMI 2.0 Module
PCA-TPM-00A1E	TPM Module with Infineon TPM 1.2 solution

I/O View



ASMB-784G2-00A1E



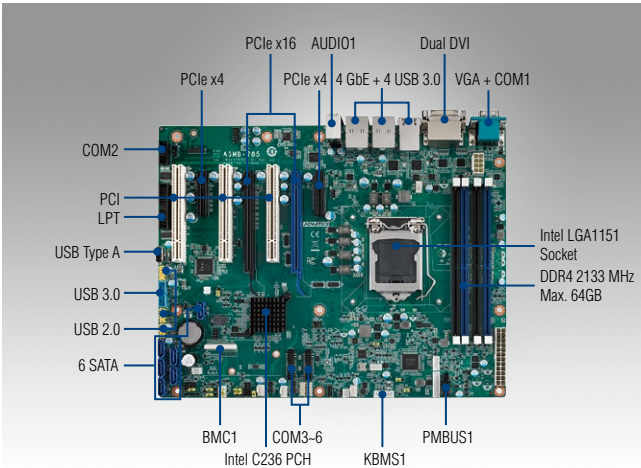
ASMB-784G4-00A1E

Note 1: To enable Intel vPro feature, PCA-TPM-00A1E must be installed.

Note 2: Purchasing ASMB-784's proprietary CPU cooler from Advantech is a must. Other brands' CPU coolers are NOT compatible with ASMB-784.

ASMB-785

LGA 1151 Intel® Xeon® E3 v5/v6 & 6th/7th Generation Core™ ATX Server Board with 4 DDR4, 4 PCIe, 3 PCI, 6 USB 3.0, 6 COM, 6 SATA3, Quad/Dual LANs



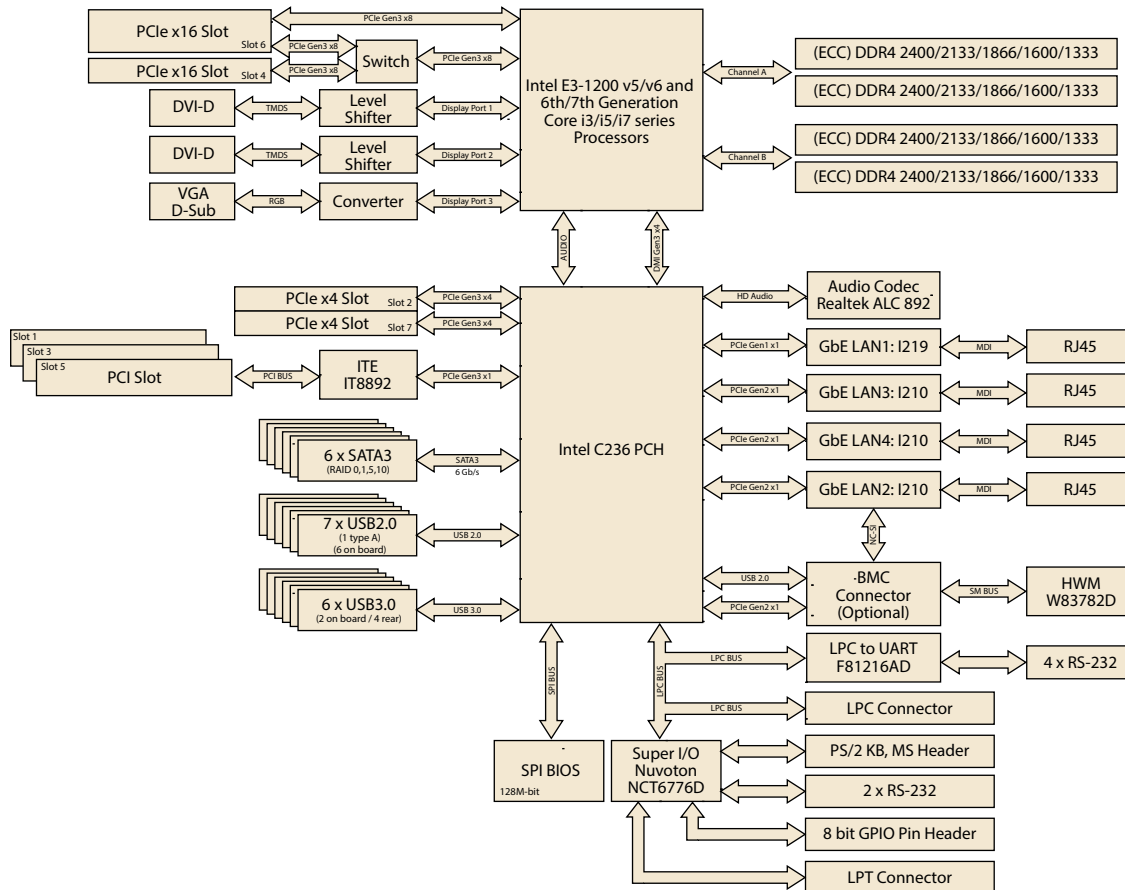
CE FCC

Specifications

Form Factor	ATX form factor					
Processor System	Socket	Intel LGA 1151				
	CPU type	Intel® Xeon® E3-1200 v5/v6 and 6th/7th Generation Core™ i3/i5/i7 series (TDP up to 91W)				
Core Logic	Chipset	Intel C236 chipset				
Memory	Total slots	4 (Dual Channel)				
	Max. capacity	64 GB				
	Memory type	DDR4 ECC/Non-ECC 2400/2133/1866/1600 MHz UDIMM (288-pin)				
	Memory size	4 GB, 8 GB, 16 GB				
Expansion Slots	Total PCI/PCI-X/PCIe slots	7				
	Slot location 1	PCI				
	Slot location 2	PCIe x4 slot (Gen3 x4 link)				
	Slot location 3	PCI				
	Slot location 4	PCIe x16 slot (Gen3 x8 link)				
	Slot location 5	PCI				
	Slot location 6	PCIe x16 slot (Gen3 x8 or x16 link)				
Graphics	Slot location 7	PCIe x4 slot (Gen3 x4 link)				
	Controller	Intel HD Graphics				
Storage	VRAM	1 GB maximum shared memory with 2 GB and above system memory installed				
	SATA controller	Intel C236: 6 SATA3 6 Gb/s ports with Intel Rapid Storage Technology support (for Windows only) (Supports software RAID 0, 1, 10 & 5)				
Networking	SAS controller	-				
	Interface	10/100/1000 Mbps				
	Controller	GbE LAN1: Intel I219; GbE LAN 2-4: Intel I210-AT				
Onboard I/O Connector	Connector	RJ-45 x 2 for G2 version; RJ-45 x 4 for G4 version				
	Printer Port connector	1				
	PSU connector	24-pin SSI power connector + 8-pin SSI 12V power connector				
	USB connector	1 USB 3.0 (2 ports), 3 USB 2.0 (6 ports), 1 USB Type-A				
	Fan header	5 (4-pin)				
	SMBus	1				
	Chassis intruder	1				
	Front LAN LED	2				
	Serial port header	2 (support 4 RS-232 ports) + 1 (support 1 RS-232 port)				
	Audio connector	1 (ALC 892)				
	PS/2 KB/Mouse	1				
Rear I/O Connector	External serial port	1				
	External USB port	4 (USB 3.0)				
	VGA port	1				
	DVI	2				
	Display port	-				
	RJ-45	2 for G2 version; 4 for G4 version				
	Audio connector	2 (Mic-in, Line-out)				
	PS/2 KB/Mouse	-				
Watchdog Timer	Output	System reset				
	Interval	Programmable 1 ~ 255 sec				
Power Requirement	Power On	Intel® Xeon® E3-1275 v5 3.60GHz; DDR4 8G x 4				
		3.3 V	5 V	12 V	12V_8P	5 Vsb
		0.96A	1.58A	0.32A	7.21A	0.11A
Environment						
	Operating	Non-operating				
	Temperature	0 ~ 60 °C (32 ~ 140 °F)				
Physical Characteristics	Humidity	Depends on CPU speed and cooler solution				
	Dimension (L x H)	10 ~ 90% 304.8 x 244 mm (12" x 9.6")				

- 1 Software and Industry Solutions
- 2 Industrial Server
- 3 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

Block Diagram



Ordering Information

Part Number	Chipset	Memory	LAN	USB 3.0	DVI	SATAIII	IPMI
ASMB-785G2-00A1E	C236	DDR4 Non-ECC/ECC UDIMM	2	6	2	6	Optional
ASMB-785G4-00A1E	C236	DDR4 Non-ECC/ECC UDIMM	4	6	2	6	Optional

Packing List

Part Number	Description	Quantity
2061S78502	Driver CD	x 1
2006S78510	Startup manual	x 1
1700003194	SATA data cables	x 1
1700019381	SATA data cable (right angle)	x 1
1700022749-11	SATA power cables	x 2
19Z0000996T010	I/O shield	x 1

Optional Accessories

Part Number	Description
1700002204	Dual port USB 2.0 cable (27 cm) with bracket
1700008461	Four port USB 2.0 cable (30.5 cm) with bracket
1960052651N021	LGA 1151/1150/1155 CPU cooler for 2U/4U and wallmount chassis (TDP up to 95W)
1960049408N001	LGA 1151/1150/1155 CPU heatsink for 1U chassis (TDP up to 95W)
19Z0001156T010	1U I/O shield
1700008809	Printer port cable kit (25 cm)
1700020294-01	Printer port cable kit (42 cm)
1701090401	Single port RS-232 cable with bracket (40 cm)
1700008762	Dual port RS-232 cable with bracket (22.5 cm)
1700020277-01	Dual port USB 3.0 cable with bracket (30 cm)
1700019268-11	PS/2 cable (35 cm)
1960063434N000	Cable bracket for 1700019268-11
PCA-COM232-00A1E	4 ports RS-232 module to LPC connector
PCA-COM485-00A1E	4 ports RS-485 module to LPC connector
IPMI-1000-00A2E	IPMI 2.0 Module
PCA-TPM-00B1E	TPM 2.0 Module by LPC

I/O View



ASMB-785G2-00A1E

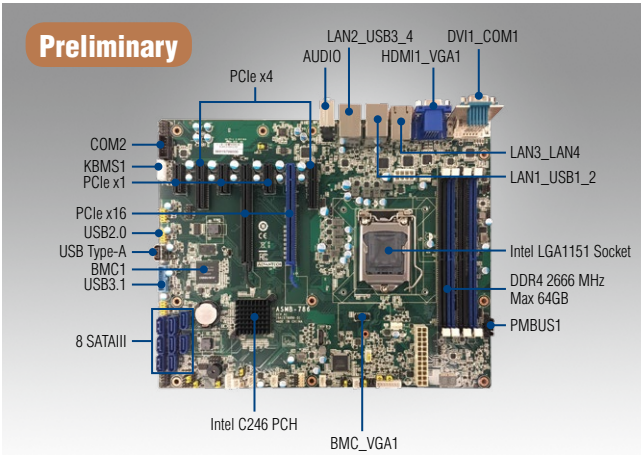


ASMB-785G4-00A1E

Note : Purchasing ASMB-785's proprietary CPU cooler from Advantech is a must. Other brands' CPU coolers are NOT compatible with ASMB-785.

ASMB-786

LGA 1151 Intel® Xeon® E & 8th Generation Core™ ATX Server Board with 4 DDR4, 7 PCIe, 6 USB 3.1, 8 SATA3, Quad/Dual LANs, IPMI



Features

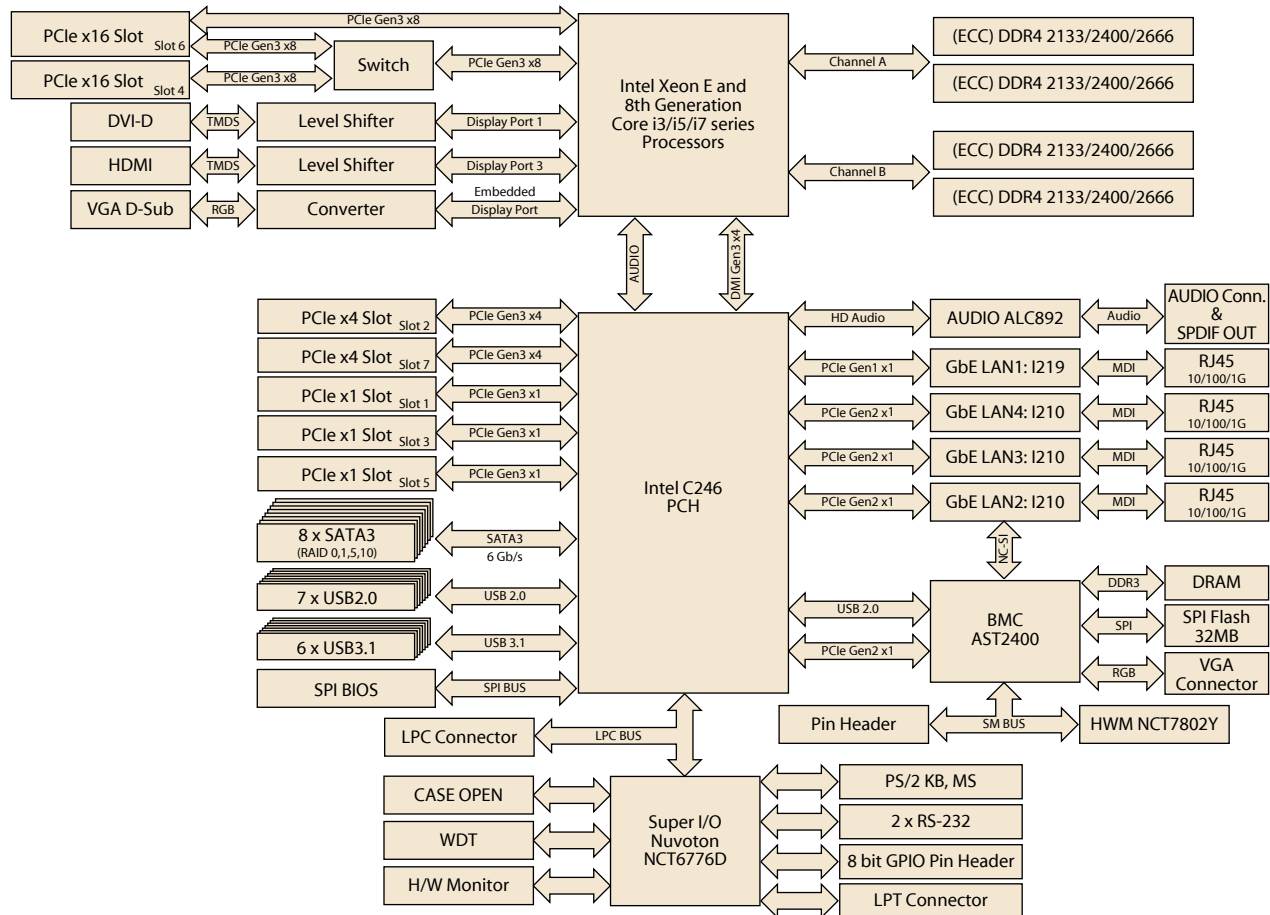
- Supports LGA 1151 Intel® Xeon® E & 8th Generation Core™ i7/i5/i3 processors
- DDR4 2666/2400/2133 MHz ECC/Non-ECC UDIMM up to 64 GB
- One Gen 3.0 PCIe x16 link (or two PCIe x16 slots with x8 link), two PCIe x4, and three PCIe x1 slots
- Triple displays - DVI-D, VGA and HDMI 2.0 ports
- Eight SATA3 ports and six USB 3.1 ports
- Rackmount optimized placement with positive air flow design
- 0 ~ 60° C ambient operating temperature range



Specifications

Form Factor	ATX form factor					
Processor System	Socket	Intel LGA 1151				
	CPU type	Intel® Xeon® E and 8th Generation Core™ i3/i5/i7 series (TDP up to 95W)				
Core Logic	Chipset	Intel C246 chipset				
Memory	Total slots	4 (Dual Channel)				
	Max. capacity	64 GB				
	Memory type	DDR4 ECC/Non-ECC 2666/2400/2133 MHz UDIMM (288-pin)				
	Memory size	4 GB, 8 GB, 16 GB				
Expansion Slots	Total PCI/PCI-X/PCIe slots	7				
	Slot location 1	PCIe x1				
	Slot location 2	PCIe x4 slot (Gen3 x4 link)				
	Slot location 3	PCIe x1				
	Slot location 4	PCIe x16 slot (Gen3 x8 link)				
	Slot location 5	PCIe x1				
	Slot location 6	PCIe x16 slot (Gen3 x8 or x16 link)				
Graphics	Slot location 7	PCIe x4 slot (Gen3 x4 link)				
	Controller	Intel HD Graphics				
Storage	VRAM	1 GB maximum shared memory with 2 GB and above system memory installed				
	SATA controller	Intel C246: 8 SATA3 6 Gb/s ports with Intel Matrix Storage support (for Windows only) (Supports software RAID 0, 1, 10 & 5)				
Networking	SAS controller	-				
	Interface	10/100/1000 Mbps				
Onboard I/O Connector	Controller	GbE LAN1: Intel I219; GbE LAN 2-4: Intel I210-AT				
	Connector	RJ-45 x 2 for G2 version; RJ-45 x 4 for G4 version				
Rear I/O Connector	Printer Port connector	1				
	PSU connector	24-pin SSI power connector + 8-pin SSI 12V power connector				
	USB connector	1 USB 3.1 Gen 1 (2 ports), 3 USB 2.0 (6 ports), 1 USB Type-A				
	Fan header	5 (4-pin)				
	SMBus	1				
	Chassis intruder	1				
	Front LAN LED	2				
	Serial port header	1 (supports 1 x RS-232 port)				
	Audio connector	1 (ALC 892)				
	PS/2 KB/Mouse	1				
	External serial port	1				
Watchdog Timer	External USB port	4 (USB 3.1 Gen 2)				
	VGA port	1				
	DVI port	1				
	HDMI port	1				
	RJ-45	2 for G2 version; 4 for G4 version				
	Audio connector	2 (Mic-in, Line-out)				
	PS/2 KB/Mouse	-				
Power Requirement	Output	System reset				
	Interval	Programmable 1 ~ 255 sec				
Environment	Power On	3.3 V	5 V	12 V	12V_8P	5 Vsb
	(i7-8700@ 3.2GHz DDR4 2400 4G*4)	3.44A	2.61A	1.04A	6.50A	0.09A
Physical Characteristics	Operating	Non-operating				
	Temperature	0 ~ 60° C (32 ~ 140° F)				
	Humidity	10 ~ 90%				
	Dimensions	304.8 x 244 mm (12" x 9.6")				

Block Diagram



Ordering Information

Part Number	Chipset	Memory	LAN	SATAIII	IPMI
ASMB-786G2-00A1E	C246	DDR4 Non-ECC/ECC UDIMM	2	8	-
ASMB-786G4-00A1E	C246	DDR4 Non-ECC/ECC UDIMM	4	8	Y

Packing List

Part Number	Description	Quantity
2001S78610	Startup manual	x 1
1700003194	SATA data cables	x 1
1700019381	SATA data cable (right angle)	x 1
1700022749-11	SATA power cables	x 2
(TBD)	I/O shield	x 1

I/O View



ASMB-786G4-00A1



ASMB-786G2-00A1

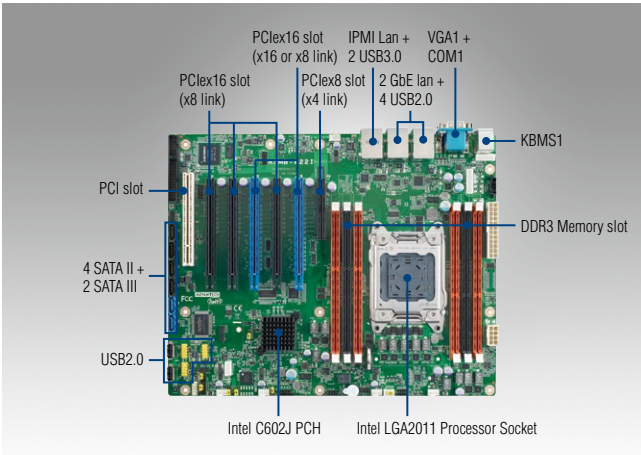
Optional Accessories

Part Number	Description
1700002204	Dual port USB 2.0 cable (27 cm) with bracket
1700008461	Four port USB 2.0 cable (30.5 cm) with bracket
1960052651N021	LGA 1151/1150/1155 CPU cooler for 2U/4U and wallmount chassis (TDP up to 95W)
1960049408N001	LGA 1151/1150/1155 CPU heatsink for 1U chassis (TDP up to 95W)
(TBD)	1U I/O shield
1700008809	Printer port cable kit (25 cm)
1700020294-01	Printer port cable kit (42 cm)
1701090401	Single port RS-232 cable with bracket (40 cm)
1700020277-01	Dual port USB 3.0 cable with bracket (30 cm)
1700019268-11	Cable for onboard KBMS1 connector (35cm)
1960063434N000	Cable bracket for 1700019268-11
(TBD)	BMC VGA cable
PCA-COM232-00A1E	4 ports RS-232 module to LPC connector
PCA-COM485-00A1E	4 ports RS-485 module to LPC connector
PCA-TPM-00B1E	TPM Module with Infineon TPM 1.2 solution

Note : Purchasing ASMB-786's proprietary CPU cooler from Advantech is a must. Other brands' CPU coolers are NOT compatible with ASMB-786.

ASMB-822

LGA2011 Intel® Xeon® E5 ATX Server Board with 6 x DDR3, 5 x PCIe x16 slot (Gen 3.0), USB 3.0, IPMI



Features

- ATX Server Board with Intel® Xeon® E5-1600/1600 v2/2600/2600 v2 series processor
- DDR3 1600* MHz RDIMM up to 96 GB
- 5 x Gen 3.0 PCIe x16 slots
- 0 ~ 60° C ambient operating temperature range

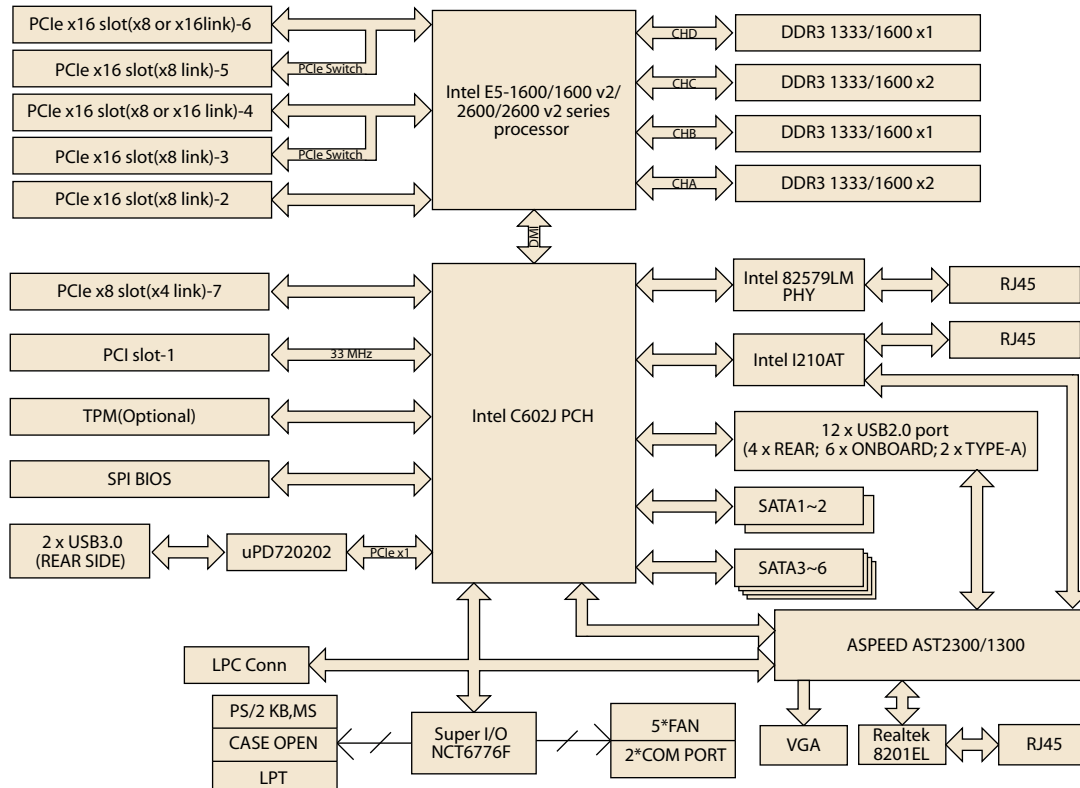
Specifications

Form Factor	Socket	ATX form factor					
Processor System	Processor	Intel LGA 2011					
	CPU type	Intel® Xeon® E5-1600 / 1600 v2 series (TDP up to 130W) Intel® Xeon® E5-2600 / 2600 v2 series (TDP up to 130W)					
Core Logic	Chipset	Intel C602J chipset					
Memory	Total slots	6					
	Capacity	Maximum 96 GB ECC RDIMM					
	Memory type	DDR3 ECC-REG/ECC/Non-ECC 1600*/1333/1066 MHz DIMM					
	Memory size	1 GB, 2 GB, 4 GB, 8 GB, 16 GB					
Expansion Slots	Total PCI/PCI-X/PCIe slots	7					
	Slot location 1	PCI					
	Slot location 2	PCIe x16 slot (Gen3 x8 link)					
	Slot location 3	PCIe x16 slot (Gen3 x8 link)					
	Slot location 4	PCIe x16 slot (Gen3 x8 or x16 link)					
	Slot location 5	PCIe x16 slot (Gen3 x8 link)					
	Slot location 6	PCIe x16 slot (Gen3 x8 or x16 link)					
	Slot location 7	PCIe x8 slot (Gen2 x4 link)					
Graphics	VGA	Aspeed AST2300/1300 64 MB					
Storage	SATA controller	Intel C602J: 4 SATA2 3 Gb/s ports, 2 SATA3 6Gb/s Intel Matrix Storage (for Windows only) (Supports software RAID 0, 1, 10 & 5)					
	SAS controller	-					
Networking	GbE LAN	1 x Intel 82579LM + 1 x Intel I210					
Onboard I/O Connector	LPT connector	1					
	PSU connector	24-pin SSI power connector + 8-pin SSI 12 V power connector					
	USB connector	3 (supports 6 x USB2.0 port), 2 x Type-A					
	Fan header	5 x 4pin					
	SMBus	1					
	Chassis intruder	1					
	Front LAN LED	2					
	Audio Header	1					
	Serial port header	1					
	External serial port	1					
Rear I/O Connector	External USB port	6 (2 x USB 3.0)					
	VGA port	1					
	RJ-45	3 (1 port dedicated for IPMI function)					
	PS/2 KB/mouse	1					
Management Solution	Software	-					
	Out of band remote management	Yes					
Monitoring	CPU temperature	Yes					
	System Monitoring	Yes					
Watchdog Timer	Output	System reset					
	Interval	Programmable 1 ~ 255 sec/min					
Power Requirement	Power On	3.3 V	5 V	12 V	12V_8P	5 Vsb	-12 V
		2.15A	0.54A	2.01A	6.76A	0.1A	0.01A
Environment		Operating					
	Temperature	0 ~ 60° C, depends on CPU speed and cooler solution					
	Humidity	0% ~ 90%					
Physical Characteristics	Dimensions	304.8 x 244 mm (12" x 9.6")					

*ASMB-822/822I can only support DDR3 1600 REG DIMM which is Single/Dual rank.

- 1 Software and Industry Solutions
- 2 Industrial Server
- 3 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

Block Diagram



Ordering Information

Part Number	Chipset	Memory	LAN	IPMI	Graphics
ASMB-822-00A2E	C602J	DDR3 Non-ECC/ECC/REG	2	-	AST1300
ASMB-822I-00A2E	C602J	DDR3 Non-ECC/ECC/REG	2	Yes	AST2300

Packing List

Part Number	Description	Quantity
2062822I00	Driver CD	x 1
2002822I10	Startup manual	x 1
1700003194	SATA data cables	x 2
1703150102	SATA power cables	x 2
1700024441-01	LAN LED cable	x 1
1960048321T010	IO bracket	x 1
ASMB-BMC-00A1E	BMC module (only included in ASMB-822I SKU)	x 1

Optional Accessories

Part Number	Description
1960065593N001	ASMB-822I 1U CPU narrow type heatsink (TDP up to 130W)
1960063011N001	ASMB-822I 2U/4U CPU narrow type cooler (TDP up to 130W)
19Z0000811N000	1U IO bracket for ASMB-822
PCA-AUDIO-HDA1E	HD Audio-card
PCA-TPM-00A1E	TPM Module by LPC
1700002204	Dual port USB cable (27 cm) with bracket
1700008461	Four port USB cable (30.5 cm) with bracket
1701260305	COM + Printer Port Cable Kit
ASMB-RF3X8-21A1E	2U Riser Card (2 x PCI-X + 1 x PCIe x8)
ASMB-RF388-21A1E	2U Riser Card (1 x PCIe x8 + 2 x PCIe x4)

I/O View



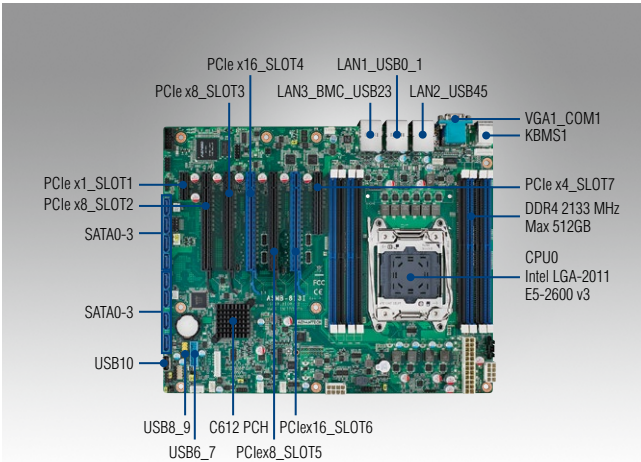
ASMB-822-00A2E



ASMB-822I-00A2E

ASMB-813

**LGA 2011-R3 Intel® Xeon® E5-2600 v3/v4
ATX Server Board with 8 DDR4 DIMM,
5 PCIe x16 Slot, 6 USB 3.0, IPMI**



Specifications

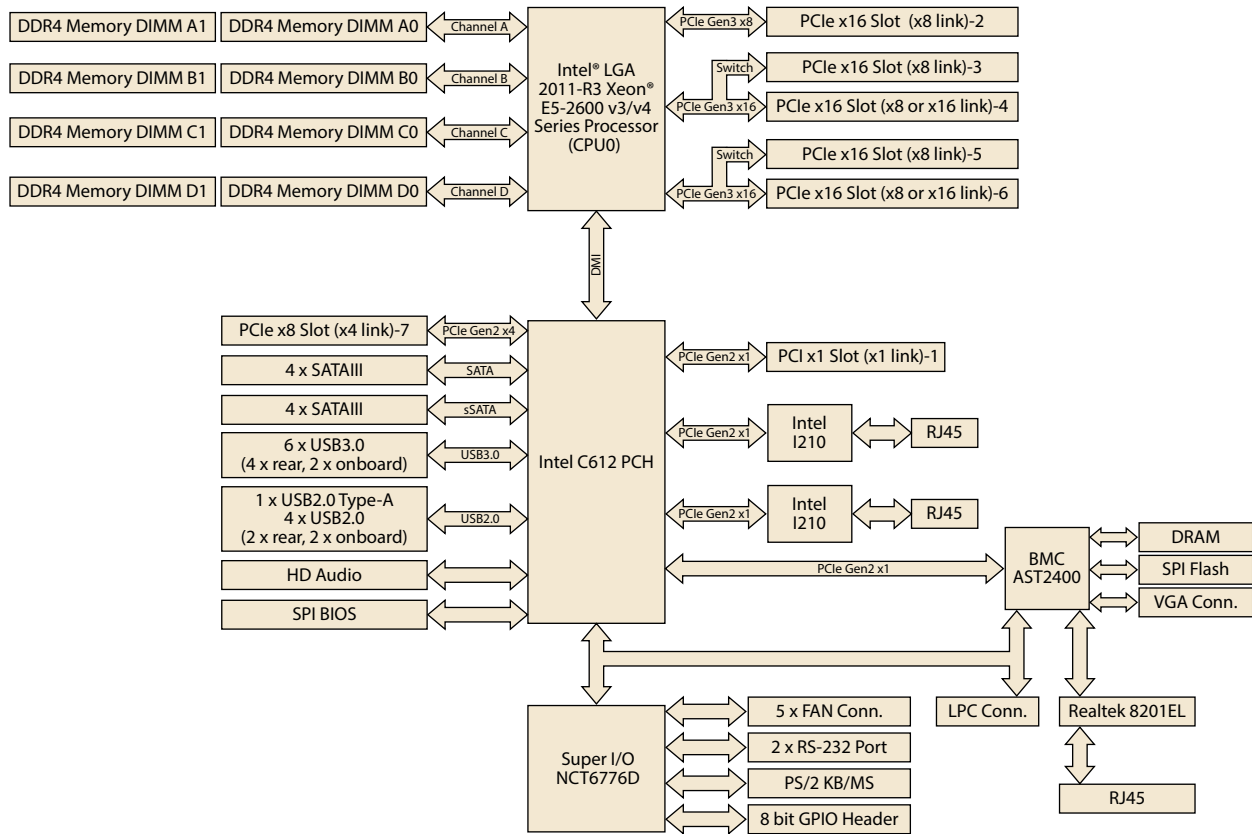
Form Factor		ATX form factor
Processor System	Socket	Intel LGA 2011-R3
	CPU type	Intel® Xeon® E5-2600 v3/v4 Series (CPU cooler should be purchased separately and TDP up to 160W) Intel® Xeon® E5-1600 v3/v4 Series Intel® Core™ i7 6850K/6900K/6950X
Core Logic	Chipset	Intel C612 chipset
Memory	Total slots	8 (Quad Channel)
	Capacity	Maximum 256 GB ECC RDIMM
	Memory type	DDR4 ECC-REG 2400/2133/1866/1600 MHz DIMM and NVDIMM (working with Xeon E5) DDR4 ECC/Non-ECC 2400/2133/1866/1600 MHz UDIMM (working with Core i7 only)
	Memory size	4 GB, 8 GB, 16 GB, 32 GB
Expansion Slots	Total PCI/PCI-X/PCIe slots	7
	Slot location 1	PCIe x1 slot (Gen2 x1 link), signal from PCH
	Slot location 2	PCIe x16 slot (Gen3 x8 link)
	Slot location 3	PCIe x16 slot (Gen3 x8 link)
	Slot location 4	PCIe x16 slot (Gen3 x16 link or x8 link when Slot 3 is occupied)
	Slot location 5	PCIe x16 slot (Gen3 x8 link)
	Slot location 6	PCIe x16 slot (Gen3 x16 link or x8 link when Slot 5 is occupied)
Graphics	Slot location 7	PCIe x8 slot (Gen2 x4 link), signal from PCH
	VGA	Aspeed AST2400/1400 64 MB
Storage	IDE controller	-
	SATA controller	Intel C612: 8 SATA3 6 Gb/s ports Intel Rapid Storage Technology (for Windows only) (SATA0-SATA3 and sSATA0-sSATA3 support software RAID 0, 1, 10 & 5)
	SAS controller	-
Networking	GbE LAN	2 x Intel I210AT
Onboard I/O Connector	LPC connector	1
	PSU connector	24-pin SSI power connector + 8-pin SSI 12 V power connector + 8-pin SSI 12 V power connector
	USB connector	2 (supports 2 x USB3.0 ports and 2 x USB2.0 ports) + 1 x Type-A
	Fan header	5 x 4-pin
	SMBus	1
	Chassis intruder	1
	Front LAN LED	2
	Audio Header	1
	Serial port header	1
	External serial port	1
Rear I/O Connector	External USB port	6 (4 x USB3.0 + 2 x USB2.0)
	VGA port	1
	RJ-45	3 (1 port dedicated for IPMI function)
	PS/2 KB/mouse	1
Management Solution	Software	-
	Out of band remote management	Yes (ASMB-813I SKU only)
Monitoring	CPU temperature	Yes
	System Monitoring	Yes
Watchdog Timer	Output	System reset
	Interval	Programmable 1 ~ 255 sec/min
Power Requirement	Power On	3.3V 5V 12V 5Vsb -12V 1.53A 0.92A 12.21A 0.04A 0.04A
Environment	Operating	Non-operating
	Temperature	0 ~ 60 °C, depends on CPU speed and cooler solution -40 ~ 85 °C
Physical Characteristics	Humidity	10% ~ 95% 10% ~ 95% (Non condensing)
	Dimension (L x H)	304.8 x 244 mm (12" x 9.6")

Features

- ATX Server Board with Intel® Xeon® E5-2600 v3/v4 processor
- Eight DDR4 2400 MHz RDIMM up to 256 GB and support DDR4 NVDIMM
- Seven PCIe expansion slots: five PCIe x8 (or two x16 and one x8), one PCIe x4 and one PCIe x1
- 0 ~ 60 °C ambient operating temperature range

- 1 Software and Industry Solutions
- 2 Industrial Server
- 3 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

Block Diagram



Ordering Information

Part Number	Chipset	Memory	GbE LAN	IPMI	Graphics
ASMB-813-00A1E	C612	8 x DDR4 RDIMM	2	-	AST 1400
ASMB-813I-00A1E	C612	8 x DDR4 RDIMM	2	Yes	AST 2400

Packing List

Part Number	Description	Quantity
2061813I01	Driver CD	x 1
2001813I10	Startup manual	x 1
1700003194	SATA data cables	x 2
1700022749-11	SATA power cables	x 2
1700019748	CPU power cable(8P)	x 2
1960048321T020	I/O shield	x 1

Optional Accessories

Part Number	Description
ASMB-RF3X8-21A1E	2U Riser Card (2 x PCI-X + 1 x PCIe x8)
PCA-AUDIO-HDA1E	HD Audio-card
PCA-TPM-00B1E	TPM 2.0 Module by LPC
1960065593N001	LGA-2011 CPU heatsink narrow type for 1U chassis (TDP up to 130W)
1960063011N001	LGA-2011 CPU cooler narrow type for 2U/4U chassis (TDP up to 130W)
1700002204	Dual port USB cable (27 cm) with bracket
1700008461	Four port USB cable (30.5 cm) with bracket
1701090401	COM port cable with bracket
1700020277-01	Dual port USB 3.0 cable (30 cm) with bracket
1920000811N000	1U chassis IO shield
968EMLSAP2	SUSIAccess Pro 3.0

I/O View



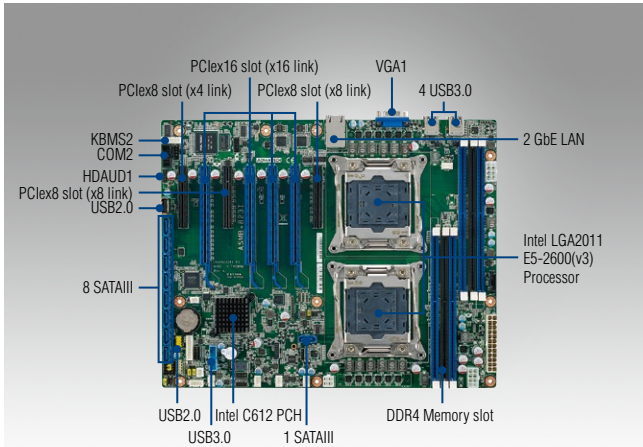
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ASMB-813I-00A1E

ASMB-823

Dual LGA 2011-R3 Intel® Xeon® E5-2600 v3/ v4 ATX Server Board with 6 DDR4, 4 PCIe x16, 6 USB 3.0, SATA3, Dual LAN, IPMI



Features

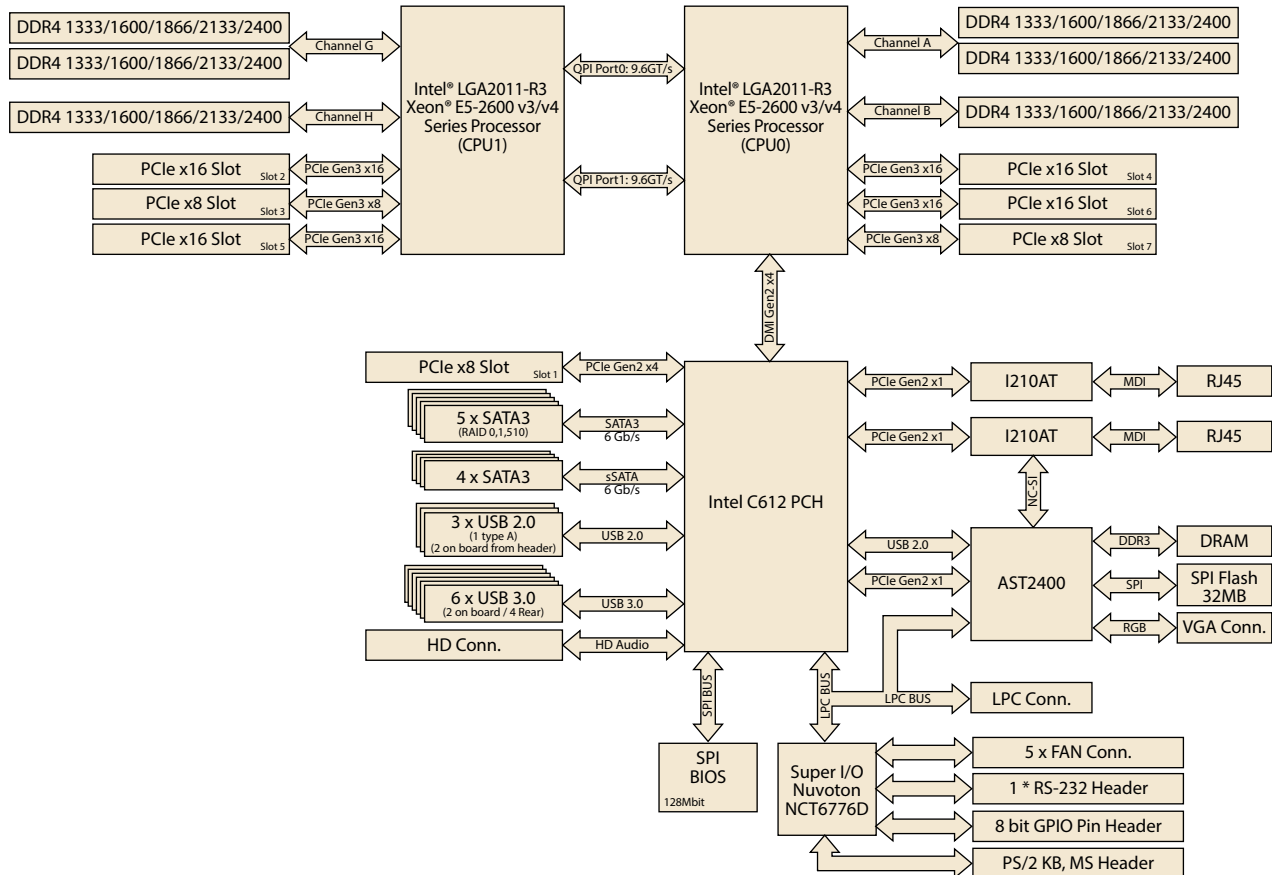
- ATX server board with dual Xeon® E5-2600 v3/v4 processors
- DDR4 2400 MHz RDIMM up to 192 GB
- Four PCIe x16 slots (Gen3), two PCIe x8 (Gen3) and one PCIe x4 (Gen2) slots
- Nine SATA3 ports and six USB 3.0 ports
- 0 ~ 40 °C ambient operating temperature range



Specifications

Form Factor		ATX form factor				
Processor System	Socket	Intel LGA 2011-R3				
	CPU type	Intel® Xeon® E5-2600 v3/v4 dual processor (CPU cooler should be purchased separately and TDP up to 160W) Intel® Xeon® E5-1600 v3/v4 Series (1S conditional support, please contact to Advantech application engineer)				
Core Logic	Chipset	Intel C612 chipset				
Memory	Total slots	6 (Quad Channel)				
	Capacity	Maximum 192 GB ECC RDIMM				
	Memory type	DDR4 ECC-REG 2400/2133/1866/1600/1333 MHz DIMM				
	Memory size	1 GB, 2 GB, 4 GB, 8 GB, 16 GB, 32 GB				
Expansion Slots	Total PCI/PCI-X/PCIe slots	7				
	Slot location 1	PCIe x8 slot (x4 link), signal from PCH				
	Slot location 2	PCIe x16 slot (x16 link), signal from CPU1				
	Slot location 3	PCIe x8 slot (x8 link), signal from CPU1				
	Slot location 4	PCIe x16 slot (x16 link), signal from CPU0				
	Slot location 5	PCIe x16 slot (x16 link), signal from CPU1				
	Slot location 6	PCIe x16 slot (x16 link), signal from CPU0				
	Slot location 7	PCIe x8 slot (x8 link), signal from CPU0				
Graphics	VGA	Aspeed AST2400/1400 64 MB				
Storage	IDE controller	-				
	SATA controller	Intel C610: 9 SATA3 6 Gb/s ports Intel Rapid Storage Technology (for Windows only) (SATA0-SATA4 supports software RAID 0, 1, 10 & 5)				
	SAS controller	-				
Networking	GbE LAN	2 x Intel I210AT				
Onboard I/O Connector	Floppy connector	-				
	PSU connector	24-pin SSI power connector + 2 x 8-pin SSI 12 V power connector + 4-pin SSI 12 V power connector				
	USB connector	2 x USB2.0 ports (in one header) + 2 x USB3.0 ports (in one header) + 1*Type-A USB2.0 ports				
	Fan header	5 x 4-pin (2 for CPU + 3 for SYS)				
	SMBus	1				
	Chassis intruder	1				
	Front LAN LED	2				
	Audio Header	1				
	Serial port header	1				
	Rear I/O Connector	External serial port	-			
External USB port		4 (USB 3.0)				
VGA port		1				
RJ-45		2 (one sharing IPMI function)				
PS/2 KB/mouse		1 (by onboard connector)				
Infiniband		-				
Management Solution	Software	-				
	Out of band remote management	Yes				
Monitoring	CPU temperature	Yes				
	System Monitoring	Yes				
Watchdog Timer	Output	System reset				
	Interval	Programmable 1 ~ 255 sec/min				
Power Requirement	Power On	3.3V 1.67A	5V 0.85A	12V 18.11A	5Vsb 0.05A	-12V 0.004A
Environment		Operating			Non-operating	
	Temperature	0 ~ 40 °C, depends on CPU speed and cooler solution			-40 ~ 85 °C	
	Humidity	10% ~ 90%			10% ~ 95% (Non condensing)	
Physical Characteristics	Dimension (L x H)	304.8 x 244 mm (12" x 9.6")				

Block Diagram



Ordering Information

Part Number	Chipset	Memory	GbE LAN	IPMI	Graphics
ASMB-823-00A1E	C612	DDR4 RDIMM	2	-	AST 1400
ASMB-823I-00A1E	C612	DDR4 RDIMM	2	Yes	AST 2400

Packing List

Part Number	Description	Quantity
2066823I01	Driver CD	x 1
2006823I10	Startup manual	x 1
1700003194	SATA data cables	x 2
1700022749-11	SATA power cables	x 2
1700019748	CPU power cable	x 2
19Z0000777T000	I/O shield	x 1

I/O View



ASMB-823I-00A1E
ASMB-823-00A1E

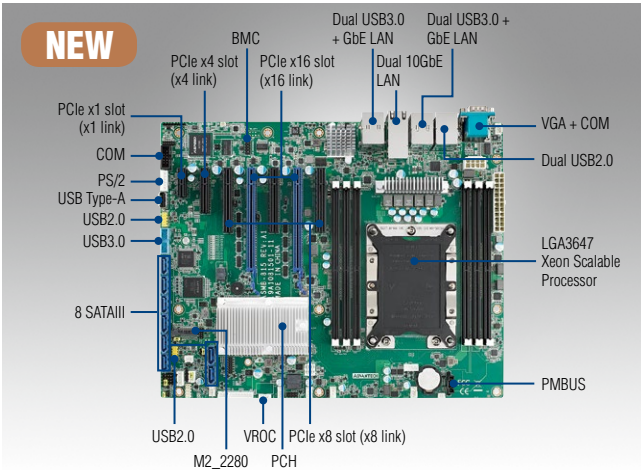
Optional Accessories

Part Number	Description
PCA-AUDIO-HDA1E	HD Audio-card
PCA-TPM-00B1E	TPM 2.0 Module by LPC
1960057226N001	LGA2011 square CPU heatsink for 1U chassis (95W)
1960055362N001	LGA2011 square CPU cooler for 2U/4U chassis (145W)
1960065684N011	LGA2011 square CPU cooler for 4U chassis (160W)*
1700019127	FAN connector extended cable 1*4P-2.54/1*4P-2.54 35cm
1700002204	Dual port USB cable (27 cm) with bracket
1700008461	Four port USB cable (30.5 cm) with bracket
1700020277-01	Dual port USB 3.0 cable (30 cm) with bracket
1701090401	COM port cable (40 cm) with bracket
1700019268-11	PS/2 cable (35 cm)
1960063434N000	Cable bracket for 1700019268-11
19Z0000806T000	1U chassis I/O shield
PCA-COM232-00A1E	4 ports RS-232 module connect to LPC connector
PCA-COM485-00A1E	4 ports RS-422/485 module connect to LPC connector
968EMLSAP2	SUSIAccess Pro 3.0

Note : Purchasing ASMB-823's proprietary CPU cooler from Advantech is a must. The 160W cooler for 4U chassis has option of CPUFAN1 cable 1700019127 when length is an issue.

ASMB-815

LGA 3647-P0 Intel® Xeon® Scalable ATX Server Board with 6 DDR4, 5 PCIe x8 or 2 PCIe x16 and 1 PCIe x8, 8 SATA3, 6 USB3.0, Dual 10GbE, IPMI



Features

- ATX server board with Xeon® Scalable processors
- DDR4 2666 MHz RDIMM up to 192 GB (6 DIMMs), supports Apache Pass
- Five PCIe x8 or two PCIe x16 and 1 PCIe x8
- Intel® X557-AT2 dual 10GbE ports
- Eight SATA3 and one M.2 connectors (SATA / PCIe compatible)
- 0 ~ 60 °C ambient operating temperature range

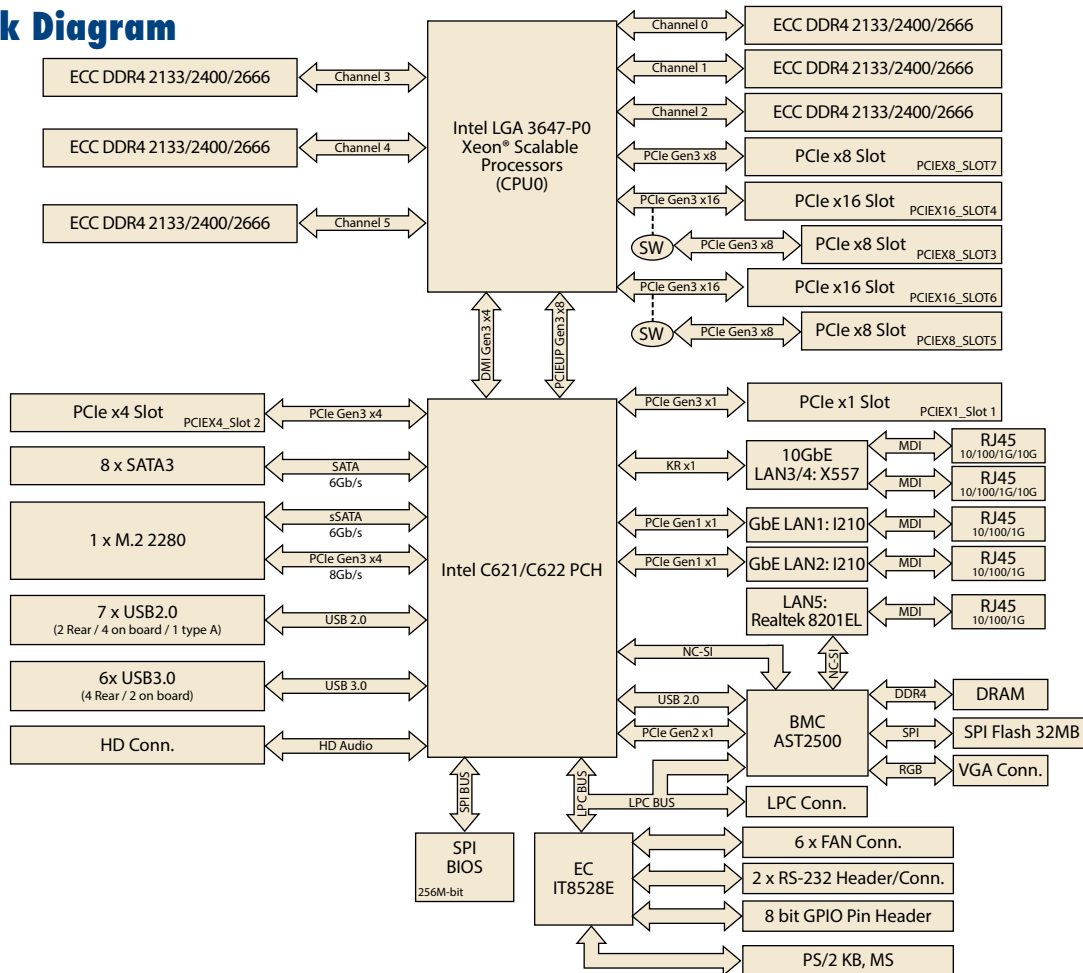
CE FCC

Specifications

Form Factor	ATX form factor	
Processor System	Socket	Intel LGA 3647-P0
	CPU type	Intel Xeon Scalable processors (CPU cooler should be purchased separately and TDP up to 205W)
Core Logic	Chipset	Intel C621/C622 chipset
	Total slots	6 (1 DIMM per channel)
Memory	Capacity	Maximum 192 GB ECC RDIMM
	Memory type	DDR4 ECC-REG 2133/2400 /2666 MHz DIMM, support Apache Pass
	Memory size	4 GB, 8 GB, 16 GB, 32 GB
Expansion Slots	Total PCI/PCI-X/PCIe slots	7
	Slot location 1	PCIe x1 slot (x1 link), signal from PCH
	Slot location 2	PCIe x4 slot (x4 link), signal from PCH
	Slot location 3	PCIe x8 slot (0 or x8 link), signal from CPU
	Slot location 4	PCIe x16 slot (x8 or x16 link), signal from CPU
	Slot location 5	PCIe x8 slot (0 or x8 link), signal from CPU
	Slot location 6	PCIe x16 slot (x8 or x16 link), signal from CPU
Graphics	Slot location 7	PCIe x8 slot (x8 link), signal from CPU
	VGA	Aspeed AST 2500/2510
Storage	IDE controller	-
	SATA controller	Intel C621/C622: 8 x SATA3 + 1 x M.2 6 Gb/s ports Intel Rapid Storage Technology (for Windows only) (SATA0-SATA7 supports software RAID 0, 1, 10 & 5)
	SAS controller	-
Networking	GbE/10GbE LAN	2 x Intel I210AT / Intel X557-AT2 (dual 10GbE ports)
Onboard I/O Connector	Floppy connector	-
	PSU connector	24-pin SSI power connector + 1 x 8-pin SSI 12 V power connector + 4-pin SSI 12 V power connector
	USB connector	4 x USB2.0 ports (two onboard headers) + 2 x USB3.0 ports (one onboard header) + 1 x Type-A USB2.0 port
	Fan header	6 x 4-pin (5 for system + 1 for CPU)
	SMBus	1
	Chassis intruder	1
	Front LAN LED	1
	Audio Header	1
	PS/2 KB/Mouse	1
	Serial port header	1
	External serial port	1
	External USB port	4 (USB3.0) + 2 USB (2.0)
Rear I/O Connector	VGA port	1
	RJ-45	5 (1 port dedicated for IPMI function)
	PS/2 KB/mouse	-
	Infiniband	-
Management Solution	Software	-
	Out of band remote management	Yes (ASMB-815I & ASMB-815T2 SKUs)
Monitoring	CPU temperature	Yes
	System Monitoring	Yes
Watchdog Timer	Output	System reset
	Interval	Programmable 1 ~ 255 sec/min
Power Requirement	Power On	3.3V 5V 12V 5Vsb -12V 12V_8P
	(205W CPU@2.5GHz DDR4 2400 4G*6)	2.77127A 7.00549A 0.57829A 0.132880A 0.063951A 17.5801A
Environment	Operating	Non-operating
	Temperature	0 ~ 60 °C, depends on CPU speed and cooler solution -40 ~ 85 °C
	Humidity	10% ~ 95% 10% ~ 95% (Non condensing)
Physical Characteristics	Dimension (L x H)	304.8 x 244 mm (12" x 9.6")

- 1 Software and Industry Solutions
- 2 Industrial Server
- 3 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

Block Diagram



Ordering Information

Part Number	Chipset	Memory	GbE/10GbE LAN	IPMI	Graphics
ASMB-815-00A1E	C621	DDR4 RDIMM	2/-	-	AST 2510
ASMB-815I-00A1E	C621	DDR4 RDIMM	2/-	Yes	AST 2500
ASMB-815T2-00A1E	C622	DDR4 RDIMM	2/2	Yes	AST 2500

Packing List

Part Number	Description	Quantity
2066815I00	Driver CD	x 1
2006815I10	Startup manual	x 1
1700003194	SATA data cables	x 2
1700022749-11	SATA power cables	x 2
1700019748	CPU power cable	x 2
1930007120-01	Screw for M.2 device	x 2
1960076488T000	I/O shield	x 1

Optional Accessories

Part Number	Description
PCA-AUDIO-HDB1E	HD Audio-card
PCA-TPM-00B1E	TPM 2.0 Module by LPC
1960081603N001	LGA-3647 narrow CPU cooler for 2U/4U chassis
1960081155N001	LGA-3647 narrow CPU cooler for 1U chassis
1700002204	Dual port USB cable (27 cm) with bracket
1700008461	Four port USB cable (30.5 cm) with bracket
1700020277-01	Dual port USB 3.0 cable (30 cm) with bracket
1701090401	COM port cable (40 cm) with bracket
1700019268-11	PS/2 port cable (35 cm)
1960063434N000	Cable bracket for 1700019268-11
1960082347T000	For 1U chassis IO shield

I/O View



ASMB-815T2-00A1E



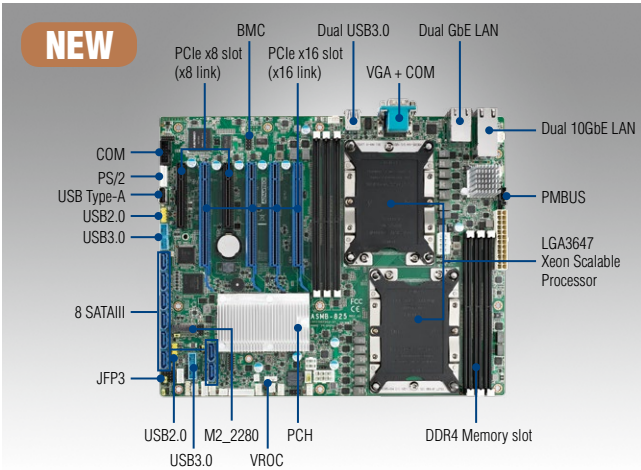
ASMB-815I-00A1E



ASMB-815-00A1E

ASMB-825

Dual LGA 3647-P0 Intel® Xeon® Scalable ATX Server Board with 6 DDR4, 4 PCIe x16 + 2 PCIe x8, 8 SATA3, 6 USB3.0, Dual 10GbE, IPMI



Features

- ATX server board with dual Xeon® Scalable processors
- DDR4 2666 MHz RDIMM up to 192 GB (6 DIMMs), supports Apache Pass
- Four PCIe x16 slots (Gen3) and two PCIe x8 (Gen3)
- Intel® X557-AT2 dual 10GbE ports
- Eight SATA3 and one M.2 connectors (SATA / PCIe compatible)
- 0 ~ 40 °C ambient operating temperature range

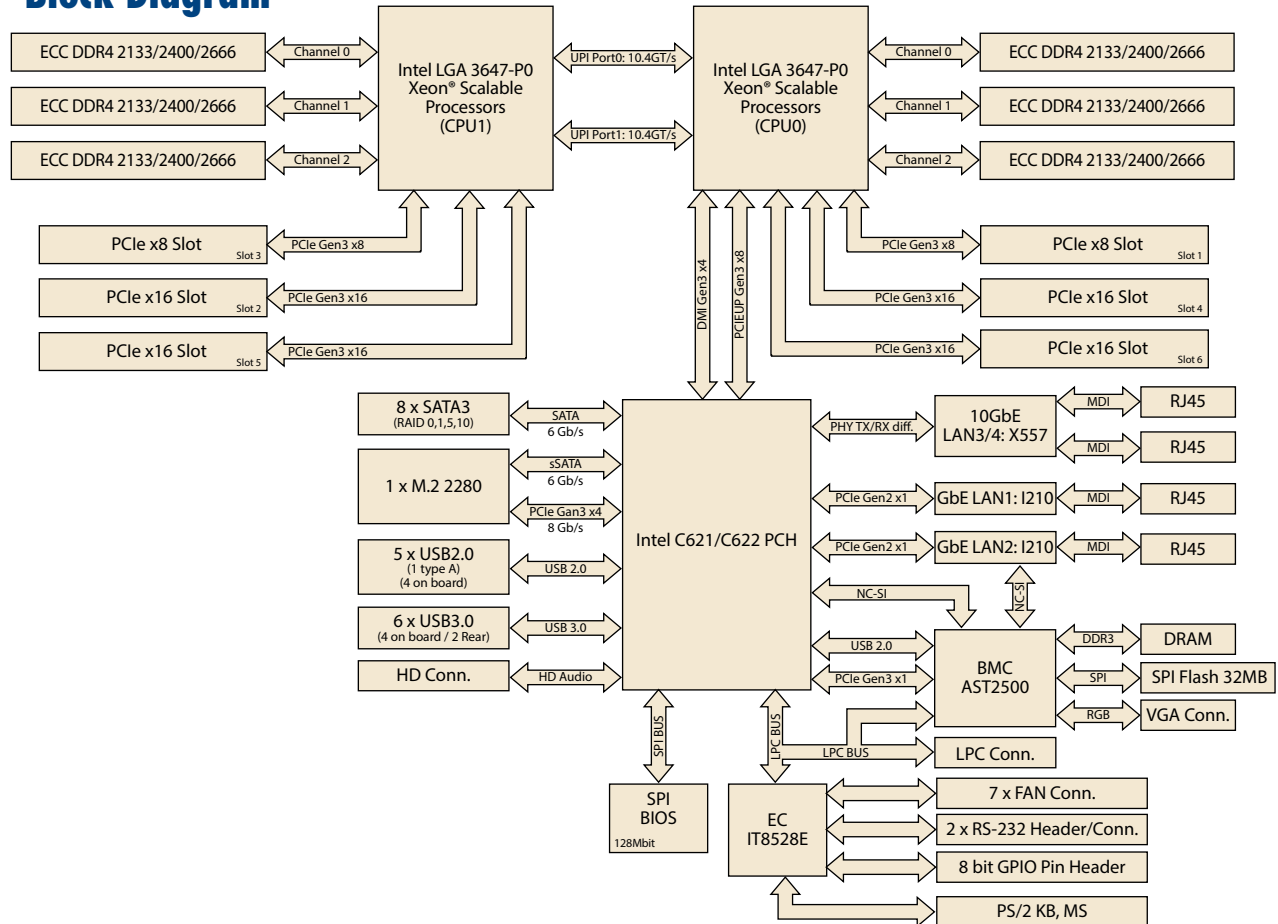
CE FCC

Specifications

Form Factor	ATX form factor	
Processor System	Socket	Intel LGA 3647-P0
	CPU type	Intel Xeon Scalable dual processors (CPU cooler should be purchased separately and TDP up to 150W)
Core Logic	Chipset	Intel C621/C622 chipset
	Total slots	6 (1 DIMM per channel)
Memory	Capacity	Maximum 192 GB ECC RDIMM
	Memory type	DDR4 ECC-REG 2133/2400/2666 MHz DIMM, support Apache Pass
	Memory size	4 GB, 8 GB, 16 GB, 32 GB
Expansion Slots	Total PCI/PCI-X/PCIe slots	6
	Slot location 1	PCIe x8 slot (x8 link), signal from CPU0
	Slot location 2	PCIe x16 slot (x16 link), signal from CPU1
	Slot location 3	PCIe x8 slot (x8 link), signal from CPU1
	Slot location 4	PCIe x16 slot (x16 link), signal from CPU0
	Slot location 5	PCIe x16 slot (x16 link), signal from CPU1
Graphics	Slot location 6	PCIe x16 slot (x16 link), signal from CPU0
	VGA	Aspeed AST 2500/2510
Storage	IDE controller	-
	SATA controller	Intel C621/C622: 8 x SATA3 + 1 x M.2 6 Gb/s ports Intel Rapid Storage Technology (for Windows only) (SATA0-SATA7 supports software RAID 0, 1, 10 & 5)
	SAS controller	-
Networking	GbE/10GbE LAN	2 x Intel I210AT / Intel X557-AT2 (dual 10GbE ports)
Onboard I/O Connector	Floppy connector	-
	PSU connector	24-pin SSI power connector + 2 x 8-pin SSI 12 V power connector + 4-pin SSI 12 V power connector
	USB connector	4 x USB2.0 ports (two onboard headers) + 4 x USB3.0 ports (two onboard headers) + 1 x Type-A USB2.0 port
	Fan header	7 x 4-pin (5 for system + 2 for CPU)
	SMBus	1
	Chassis intruder	1
	Front LAN LED	1
	Audio Header	1
	PS/2 KB/Mouse	1
	Serial port header	1
Rear I/O Connector	External serial port	1
	External USB port	2 (USB3.0)
	VGA port	1
	RJ-45	4 (LAN2 sharing with IPMI function)
	PS/2 KB/mouse	-
	Infiniband	-
Management Solution	Software	-
	Out of band remote management	Yes (ASMB-8251 & ASMB-8252 SKUs)
Monitoring	CPU temperature	Yes
	System Monitoring	Yes
Watchdog Timer	Output	System reset
	Interval	Programmable 1 ~ 255 sec/min
Power Requirement	Power On	3.3V 5V 12V 5Vsb -12V 12V_8P_0 12V_8P_1
	(150W CPU@2.6GHz DDR4 2400 8G*6)	1.32966A 4.31024A 0.68597A 0.25408A 0.056846A 21.5989A 17.5921A
Environment	Operating	Non-operating
	Temperature	0 ~ 40 °C, depends on CPU speed and cooler solution -40 ~ 85 °C
Physical Characteristics	Humidity	10 ~ 95%
	Dimension (L x H)	304.8 x 244 mm (12" x 9.6")

- 1 Software and Industry Solutions
- 2 Industrial Server
- 3 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

Block Diagram



Ordering Information

Part Number	Chipset	Memory	GbE/10GbE LAN	IPMI	Graphics
ASMB-825-00A1E	C621	DDR4 RDIMM	2/-	-	AST 2510
ASMB-825I-00A1E	C621	DDR4 RDIMM	2/-	Yes	AST 2500
ASMB-825T2-00A1E	C622	DDR4 RDIMM	2/2	Yes	AST 2500

Packing List

Part Number	Description	Quantity
2066825I00	Driver CD	x 1
2006825I10	Startup manual	x 1
1700003194	SATA data cables	x 2
1700022749-11	SATA power cables	x 2
1700019748	CPU power cable	x 2
1930007120-01	Screw for M.2 device	x 2
1960076489T000	I/O shield	x 1

Optional Accessories

Part Number	Description
PCA-AUDIO-HDB1E	HD Audio-card
PCA-TPM-00B1E	TPM 2.0 Module by LPC
1960081603N001	LGA-3647 narrow CPU cooler for 2U/4U chassis
1960081155N001	LGA-3647 narrow CPU cooler for 1U chassis
1700002204	Dual port USB cable (27 cm) with bracket
1700008461	Four port USB cable (30.5 cm) with bracket
1700020277-01	Dual port USB 3.0 cable (30 cm) with bracket
1701090401	COM port cable (40 cm) with bracket
1700019268-11	PS/2 port cable (35 cm)
1960063434N000	Cable bracket for 1700019268-11
1960082348N000	For 1U chassis IO shield

I/O View



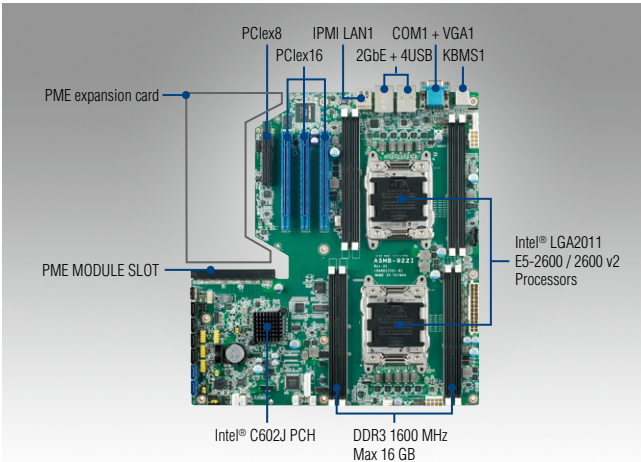
ASMB-825T2-00A1E



ASMB-825-00A1E
ASMB-825I-00A1E

ASMB-922

Dual Intel® Xeon® E5-2600 / 2600 v2 EATX Server Board with DDR3, 3 PCIe x16 + 1 PCIe x8, PME Support



Features

- EATX server board with dual Xeon® 2600 / 2600 v2 processor, PME flexible expansion and 128GB memory capacity
- DDR3 1600MHz RDIMM up to 128GB
- Three PCIe x16 slot(Gen3.0) + one PCIe x8 slot(Gen3.0) slots and PME expansion slot
- PME expansion cards supporting list is on page 5-24
- 0~40° C ambient operating temperature range

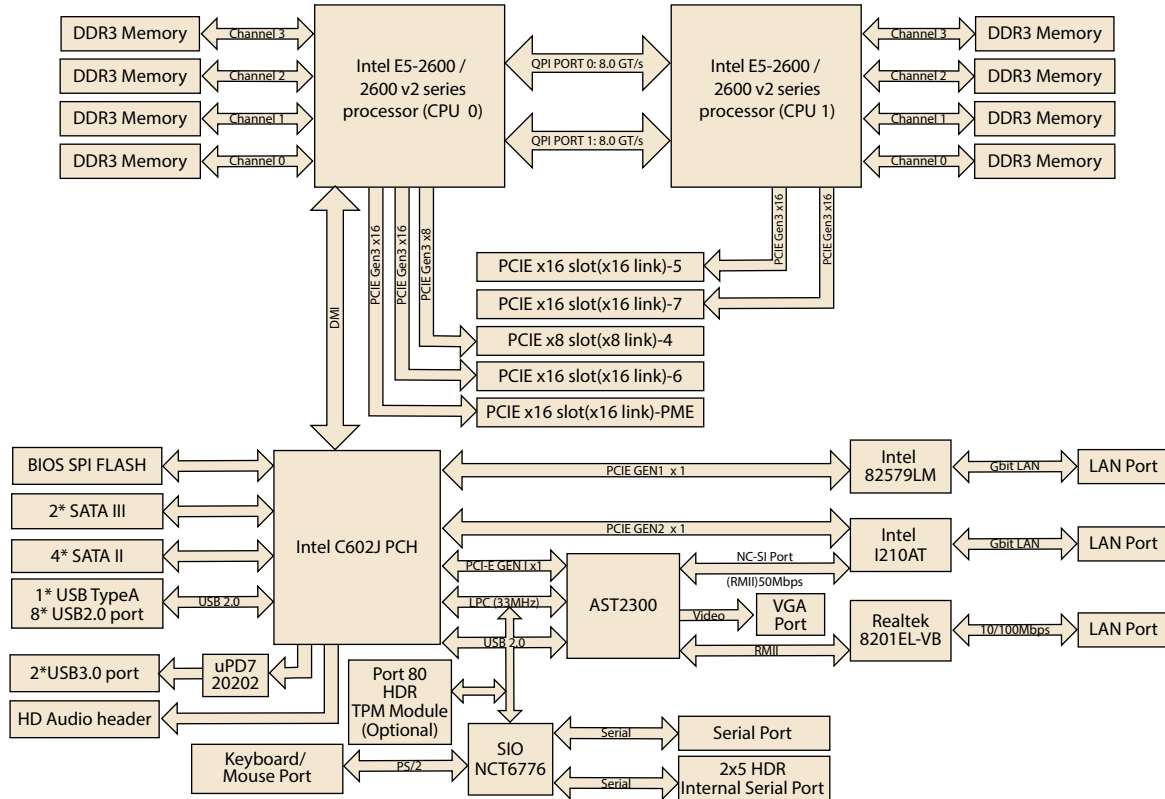
Note: ASMB-922 series could enable PME slot when processor is installed in CPU0 socket.

Specifications

Form Factor		Extended ATX form factor				
Processor System	Socket	Intel LGA 2011				
	CPU type	Intel® Xeon® E5-2600 / 2600 v2 dual processor (TDP up to 130W)				
Core Logic	Chipset	Intel C602J chipset				
Memory	Total slots	8 (Quad Channel)				
	Capacity	Maximum 128 GB ECC RDIMM				
	Memory type	DDR3 ECC-REG/ECC/Non-ECC 1600/1333/1066 MHz DIMM				
	Memory size	1 GB, 2 GB, 4 GB, 8 GB, 16 GB				
Expansion Slots	Total PCI/PCI-X/PCIe slots	7				
	Slot location 1	Fit to PME daughter board				
	Slot location 2	Fit to PME daughter board				
	Slot location 3	Fit to PME daughter board				
	Slot location 4	1 x PCIe x8 slot (Gen3 x8 link), signal from CPU0				
	Slot location 5	1 x PCIe x16 slot (Gen3 x16 link), signal from CPU1				
	Slot location 6	1 x PCIe x16 slot (Gen3 x16 link), signal from CPU0				
Graphics	Slot location 7	1 x PCIe x16 slot (Gen3 x16 link) signal from CPU1				
	VGA	Aspeed AST2300 64 MB				
Storage	SATA controller	Intel C602J: 4 SATA2 3 Gb/s ports, 2 SATA3 6Gb/s Intel Matrix Storage (for Windows only) (Supports software RAID 0, 1, 10 & 5)				
	SAS controller	-				
Networking	GbE LAN	1 x Intel 82579LM + 1 x Intel I210AT				
Onboard I/O Connector	Floppy connector	-				
	PSU connector	24-pin SSI power connector + 8-pin SSI 12 V power connector + 8-pin SSI 12 V power connector				
	USB connector	4 (supports 6 USB port), 1* Type-A				
	Fan header	5 x 4pin				
	SMBus	1				
	Chassis intruder	1				
	Front LAN LED	2				
	Audio Header	1				
	Serial port header	1				
Rear I/O Connector	External serial port	1				
	External USB port	4 (2*USB2.0 + 2*USB3.0)				
	VGA port	1				
	RJ-45	3 (1 port dedicated for IPMI function)				
	PS/2 KB/mouse	1				
Management Solution	Software	-				
	Out of band remote management	Yes				
Monitoring	CPU temperature	Yes				
	System Monitoring	Yes				
Watchdog Timer	Output	System reset				
	Interval	Programmable 1 ~ 255 sec/min				
Power Requirement	Power On	3.3V	5V	12V	5Vsb	-12V
		19.69A	7.77A	58.66A	2A	0.5A
Environment		Operating		Non-operating		
	Temperature	0 ~ 40° C, depends on CPU speed and cooler solution		-40 ~ 85° C		
	Humidity	0% ~ 90%		5% ~ 95% (Non condensing)		
Physical Characteristics	Dimensions	304.8 x 330.2 mm (12" x 13")				

- 1 Software and Industry Solutions
- 2 Industrial Server
- 3 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

Block Diagram



Ordering Information

Part Number	Chipset	Memory	GbE LAN	IPMI	Graphics
ASMB-922-00A2E	C602J	DDR3 Non-ECC/ECC/REG	2	-	AST 1300
ASMB-922I-00A2E	C602J	DDR3 Non-ECC/ECC/REG	2	Yes	AST 2300

Packing List

Part Number	Description	Quantity
2066922I00	Driver CD	x 1
2006922I10	Startup manual	x 1
1700003194	SATA data cables	x 2
1703150102	SATA power cables	x 2
1960052312T000	I/O shield	x 1
1700019748	CPU power cables	x 2

Optional Accessories

Part Number	Description
ASMB-FF3P8-12A1E	PME card with 1 PCIe x8 slot (x8 link) and 1 PCIe x8 slot (x4 link) and 1 PCI slot
ASMB-FF3PX-12A1E	PME card with 2 PCI-X and 1 PCI slots
ASMB-FF20F-02A1E	PME card with 2 PCIe x16 slots
ASMB-FF208-02A1E	PME card with 2 PCIe x 8 slots
ASMB-FF404-04A1E	PME card with 4 PCIe x4 slots (Only fit to HPC-7400 chassis)
PCA-AUDIO-HDA1E	HD Audio-card
PCA-TPM-00A1E	TPM Module
1960063011N001	LGA2011 CPU cooler for 2U/4U chassis (TDP up to 130W)
1960065591N001	LGA2011 CPU0 heatsink for 1U chassis (TDP up to 130W)
1960065593N001	LGA2011 CPU1 heatsink for 1U chassis (TDP up to 130W)
1700002204	Dual port USB cable (27 cm) with bracket
1700008461	Four port USB cable (30.5 cm) with bracket
1701090401	COM port cable with bracket

I/O View



ASMB-922-00A2E

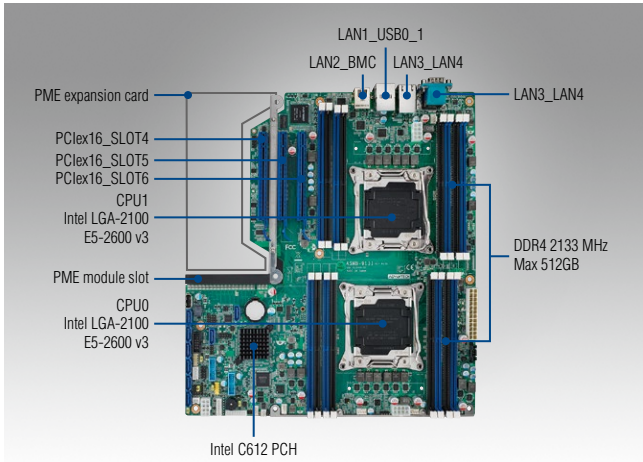


ASMB-922I-00A2E

ASMB-913

Dual LGA 2011-R3 Intel® Xeon® E5-2600 v3/v4 EATX Server Board with 16 DDR4 DIMM, 3 PCIe x16, 6 USB 3.0, PME Support, IPMI

- 1 Software and Industry Solutions
- 2 Industrial Server
- 3 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



Features

- EATX server board with dual Xeon® E5-2600 v3/v4 processor
- 16 x DDR4 2400 MHz RDIMM up to 512 GB
- Three PCIe x16 slot(Gen3.0) and PME expansion slot
- PME expansion cards supporting list is on page 9-32
- 0 ~ 40 °C ambient operating temperature range

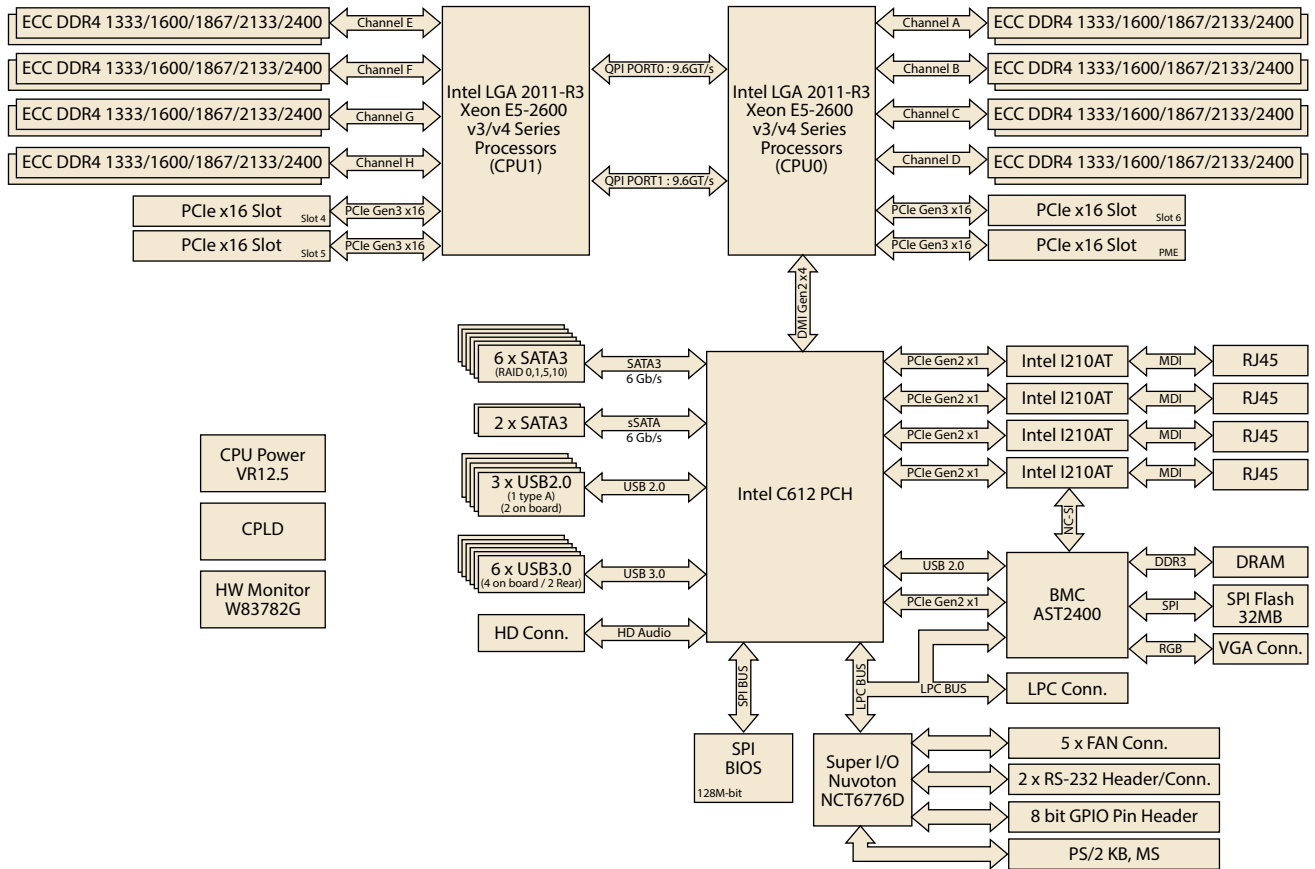
Note: ASMB-913I could enable PME slot when processor is installed in CPU0 socket.



Specifications

Form Factor		Extended ATX form factor
Processor System	Socket	Intel LGA 2011-R3
	CPU type	Intel® Xeon® E5-2600 v3/v4 dual processor (CPU cooler should be purchased separately and TDP up to 160W) Intel® Xeon® E5-1600 v3/v4 Series (1S conditional support, please contact to Advantech application engineer)
Core Logic	Chipset	Intel C612 chipset
	Total slots	16 (Quad Channel)
	Capacity	Maximum 512 GB ECC RDIMM
	Memory type	DDR4 ECC-REG 2400/2133/1866/1600 MHz DIMM
Memory	Memory size	4 GB, 8 GB, 16 GB, 32 GB
	Memory type	DDR4 ECC-REG 2400/2133/1866/1600 MHz DIMM
Expansion Slots	Total PCI/PCI-X/PCIe slots	6
	Slot location 1	Fit to PME daughter board
	Slot location 2	Fit to PME daughter board
	Slot location 3	Fit to PME daughter board
	Slot location 4	1 x PCIe x16 slot (x16 link), signal from CPU1
	Slot location 5	1 x PCIe x16 slot (x16 link), signal from CPU1
	Slot location 6	1 x PCIe x16 slot (x16 link), signal from CPU0
	Slot location 7	-
Graphics	VGA	Aspeed AST2400/1400 64 MB
Storage	IDE controller	-
	SATA controller	Intel C612: 8 SATA3 6 Gb/s ports Intel Rapid Storage Technology (for Windows only) (SATA0-SATA5 and sSATA0-sSATA1 Supports software RAID 0, 1, 10 & 5)
	SAS controller	-
Networking	GbE LAN	4 x Intel I210AT
Onboard I/O Connector	Floppy connector	-
	PSU connector	24-pin SSI power connector + 8-pin SSI 12 V power connector + 8-pin SSI 12 V power connector
	USB connector	2 (supports 4 USB port), 1* Type-A , 2* USB3.0 20pin header (supports 4*USB 3.0 port)
	Fan header	5 x 4-pin
	SMBus	1
	Chassis intruder	1
	Front LAN LED	2
	Audio Header	1
	Serial port header	1
	External serial port	1
Rear I/O Connector	External USB port	2 (USB3.0)
	VGA port	1
	RJ-45	4 (one sharing IPMI function)
	PS/2 KB/mouse	-
	Infiniband	-
	Software	-
Management Solution	Out of band remote management	Yes (ASMB-913I sku only)
Monitoring	CPU temperature	Yes
	System Monitoring	Yes
Watchdog Timer	Output	System reset
	Interval	Programmable 1 ~ 255 sec/min
Power Requirement	Power On	3.3V 1.4A 5V 0.5A 12V 23.2A 5Vsb 0.09A -12V 0.05A
	Operating	Non-operating
Environment	Temperature	0 ~ 40 °C, depends on CPU speed and cooler solution
	Humidity	10% ~ 95% (Non condensing)
Physical Characteristics	Dimension (L x H)	304.8 x 330.2 mm (12" x 13")

Block Diagram



Ordering Information

Part Number	Chipset	Memory	GbE LAN	IPMI	Graphics
ASMB-913-00A1E	C612	16 x DDR4 RDIMM	2	-	AST 1400
ASMB-913I-00A1E	C612	16 x DDR4 RDIMM	4	Yes	AST 2400

Packing List

Part Number	Description	Quantity
2061913I01	Driver CD	x 1
2001913I10	Startup manual	x 1
1700003194	SATA data cables	x 2
1703150102	SATA power cables	x 2
1700019748	CPU power cable(8P)	x 2
19Z0000995T000	I/O shield	x 1

I/O View



ASMB-913-00A1E



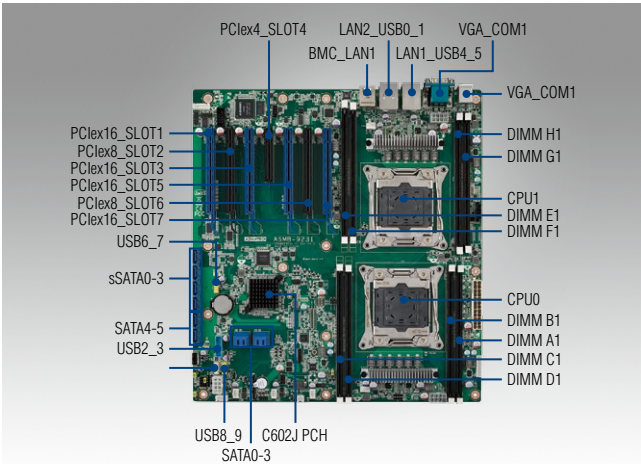
ASMB-913I-00A1E

Optional Accessories

Part Number	Description
ASMB-FF3P8-12A1E	PME card with 1 PCIe x8 slot and 1 PCIe x4 slot and 1 PCI slot
ASMB-FF3PX-12A1E	PME card with 2 PCI-X and 1 PCI slots
ASMB-FF20F-02A1E	PME card with 2 PCIe x16 slots
ASMB-FF208-02A1E	PME card with 2 PCIe x 8 slots
PCA-AUDIO-HDA1E	HD Audio-card
PCA-TPM-00B1E	TPM 2.0 Module by LPC
1960057226N001	LGA-2011 CPU heatsink for 1U chassis (95W)
1960055362N001	LGA-2011 square CPU cooler for 2U/4U chassis (145W)
1960065684N011	LGA-2011 square CPU cooler for 4U chassis (160W)
1700019127	FAN connector extended cable 1*4P-2.54/1*4P-2.54 35cm
1700028025-01	Dual port USB cable (45 cm) with bracket
1700028042-01	Four port USB cable (45 cm) with bracket
1700028024-01	Dual port USB 3.0 cable (45 cm) with bracket
1700019268-11	PS/2 cable (35 cm)
1701090401	COM port cable with bracket
19Z0001086N000	1U chassis IO shield
968EMLSAP2	SUSIAccess Pro 3.0

ASMB-923

Dual LGA 2011-R3 Intel® Xeon®
E5-2600 v3/v4 EATX Server Board with
8 DDR4, 4 PCIe x16+ 2 PCIe x8,
4 USB 3.0, IPMI



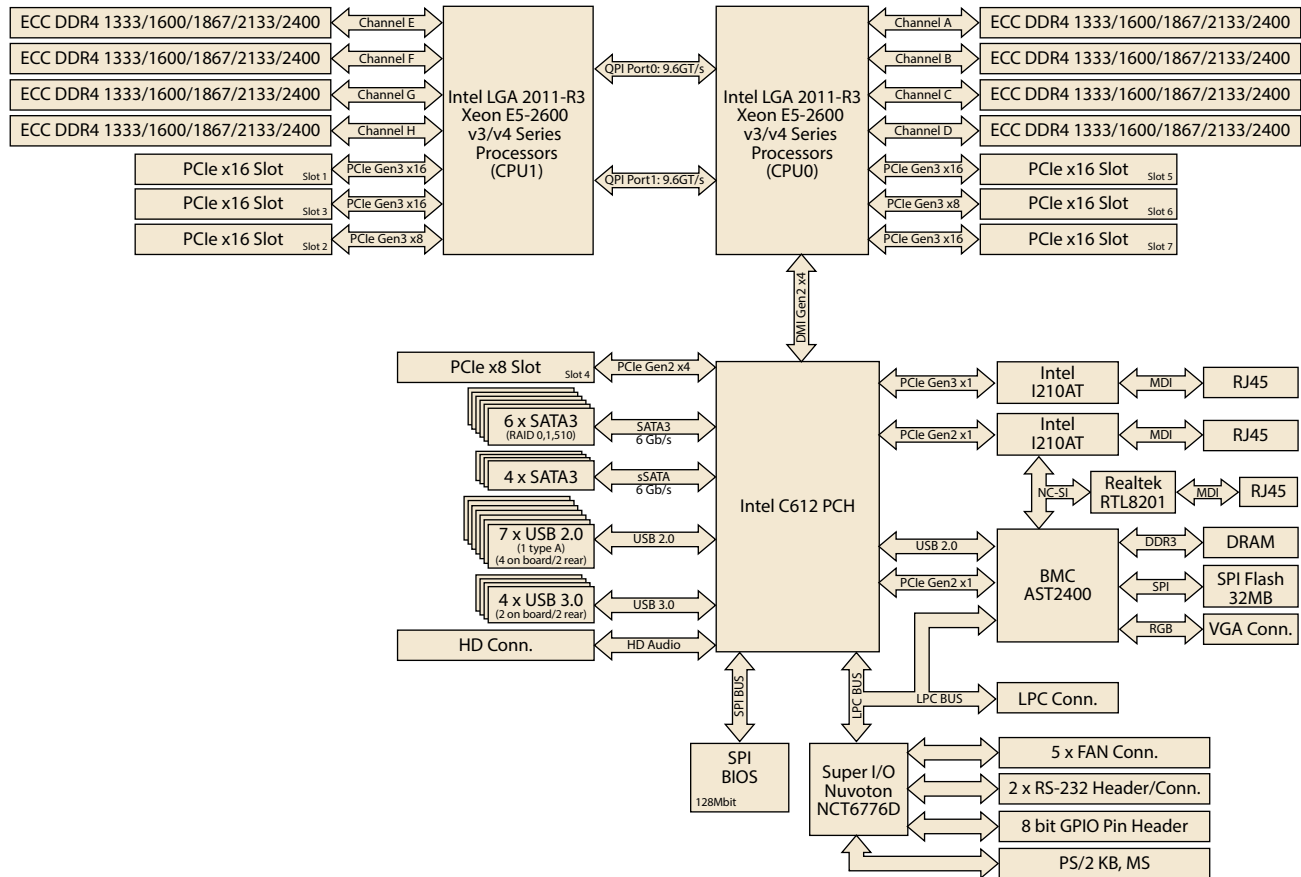
Features

- EATX server board with dual Xeon® E5-2600 v3/v4 processor, 8 DIMMs 256 GB memory capacity
- DDR4 2400 MHz RDIMM up to 256 GB
- Four PCIe x16 slots (Gen3) + two PCIe x8 slots (Gen3.0) and one PCIe x4 (Gen2.0)
- 0 ~ 40 °C ambient operating temperature range

Specifications

Form Factor	Extended ATX form factor					
Processor System	Socket	Intel LGA 2011-R3				
	CPU type	Intel® Xeon® E5-2600 v3/v4 dual processor (CPU cooler should be purchased separately and TDP up to 160W) Intel® Xeon® E5-1600 v3/v4 Series (1S conditional support, please contact to Advantech application engineer)				
Core Logic	Chipset	Intel C612 chipset				
	Total slots	8 (Quad Channel)				
	Capacity	Maximum 256 GB ECC RDIMM				
	Memory type	DDR4 ECC-REG 2400/2133/1866/1600/1333 MHz DIMM				
Memory	Memory size	1 GB, 2 GB, 4 GB, 8 GB, 16 GB, 32 GB				
	Total PCI/PCI-X/PCIe slots	7				
	Slot location 1	PCIe x16 slot (x16 link), signal from CPU1				
	Slot location 2	PCIe x16 slot (x8 link), signal from CPU1				
Expansion Slots	Slot location 3	PCIe x16 slot (x16 link), signal from CPU1				
	Slot location 4	PCIe x8 slot (x4 link), signal from PCH				
	Slot location 5	PCIe x16 slot (x16 link), signal from CPU0				
	Slot location 6	PCIe x16 slot (x8 link), signal from CPU0				
	Slot location 7	PCIe x16 slot (x16 link), signal from CPU0				
Graphics	VGA	Aspeed AST2400/1400 64 MB				
Storage	IDE controller	-				
	SATA controller	Intel C610: 10 SATA3 6 Gb/s ports Intel Rapid Storage Technology (for Windows only) (SATA0-SATA5 and sSATA0-sSATA3 Supports software RAID 0, 1, 10 & 5)				
	SAS controller	-				
Networking	GbE LAN	2 x Intel I210AT				
Onboard I/O Connector	Floppy connector	-				
	PSU connector	24-pin SSI power connector + 8-pin SSI 12 V power connector + 8-pin SSI 12 V power connector				
	USB connector	2 (supports 4 USB port), 1* Type-A , 1* USB3.0 20pin header (supports 2*USB 3.0 port)				
	Fan header	5 x 4-pin				
	SMBus	1				
	Chassis intruder	1				
	Front LAN LED	2				
	Audio Header	1				
	Serial port header	1				
	External serial port	1				
Rear I/O Connector	External USB port	4 (2*USB2.0 + 2*USB3.0)				
	VGA port	1				
	RJ-45	3 (1 port dedicated for IPMI function)				
	PS/2 KB/mouse	1				
	Infiniband	-				
Management Solution	Software	-				
	Out of band remote management	Yes (ASMB-923I sku only)				
Monitoring	CPU temperature	Yes				
	System Monitoring	Yes				
Watchdog Timer	Output	System reset				
	Interval	Programmable 1 ~ 255 sec/min				
Power Requirement	Power On	3.3V	5V	12V	5Vsb	-12V
		1.69A	1.00A	17.42A	0.05A	0.01A
Environment	Operating	0 ~ 40 °C, depends on CPU speed and cooler solution				
	Temperature	-40 ~ 85 °C				
	Humidity	10% ~ 95% (Non condensing)				
Physical Characteristics	Dimension (L x H)	304.8 x 330.2 mm (12" x 13")				

Block Diagram



Ordering Information

Part Number	Chipset	Memory	GbE LAN	IPMI	Graphics
ASMB-923-00A1E	C612	DDR4 RDIMM	2	-	AST 1400
ASMB-923I-00A1E	C612	DDR4 RDIMM	2	Yes	AST 2400

Packing List

Part Number	Description	Quantity
2066923I01	Driver CD	x 1
2006923I10	Startup manual	x 1
1700003194	SATA data cables	x 2
1703150102	SATA power cables	x 2
1700019748	CPU power cable(8P)	x 2
1960052312T010	I/O shield	x 1

Optional Accessories

Part Number	Description
PCA-AUDIO-HDA1E	HD Audio-card
PCA-TPM-00B1E	TPM 2.0 Module by LPC
1960057226N001	LGA-2011 square CPU heatsink for 1U chassis (95W)
1960055362N001	LGA-2011 square CPU cooler for 2U/4U chassis (145W)
1960065684N011	LGA-2011 square CPU cooler for 4U chassis (160W)
1700028025-01	Dual port USB cable (45 cm) with bracket
1700028042-01	Four port USB cable (45 cm) with bracket
1701090401	COM port cable with bracket
19Z0000406T000	1U chassis IO shield
968EMLSAP2	SUSIAccess Pro 3.0

I/O View



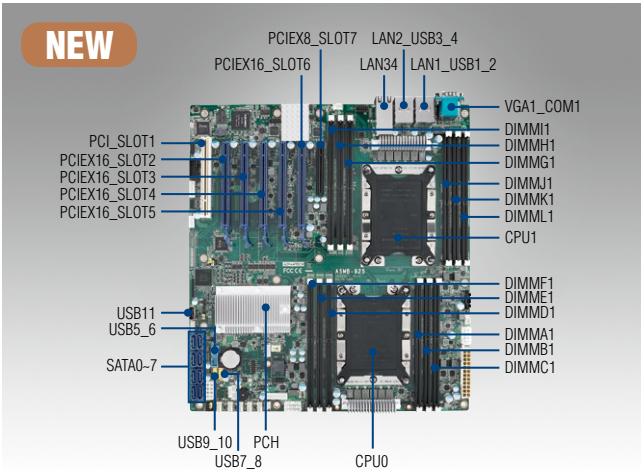
ASMB-923-00A1E



ASMB-923I-00A1E

ASMB-925

Dual LGA3647-P0 Intel® Xeon® Scalable EATX Server Board with 12 DDR4, 5 PCIe x16 + 1 PCIe x8 + 1 PCI, 8 SATA3, 6 USB3.0, Dual 10GbE, IPMI



Features

- EATX server board with dual Xeon® Scalable processors
- DDR4 2666 MHz RDIMM up to 384 GB (12 DIMMs), supports Apache Pass
- Five PCIe x16 (Gen3), one PCIe x8 (Gen3), and one PCI slots
- Intel® X557-AT2 dual 10GbE ports
- Eight SATA3 and six USB3.0 ports
- 0 ~ 40 °C ambient operating temperature range

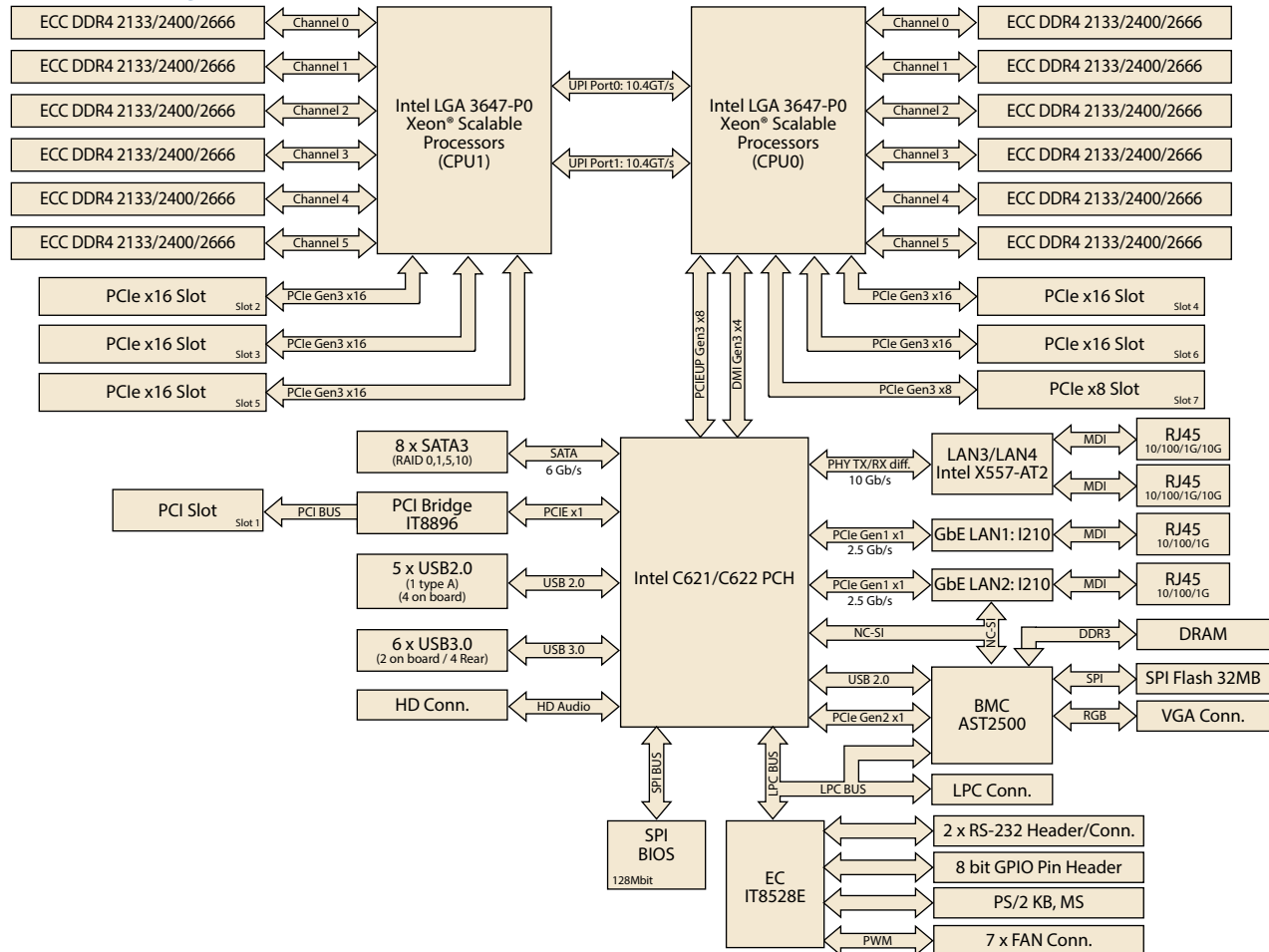
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Specifications

Form Factor	EATX form factor	
Processor System	Socket	Intel LGA3647-P0
	CPU type	Intel Xeon Scalable dual processors (CPU cooler should be purchased separately and TDP up to 205W)
Core Logic	Chipset	Intel C621/C622 chipset
Memory	Total slots	12 (1 DIMM per channel)
	Capacity	Maximum 384 GB ECC RDIMM
	Memory type	DDR4 ECC-REG 1866/2133/2400 /2666 MHz DIMM, support Apache Pass
	Memory size	4 GB, 8 GB, 16 GB, 32 GB
Expansion Slots	Total PCI/PCI-X/PCIe slots	7
	Slot location 1	PCI, signal from PCH
	Slot location 2	PCIe x16 slot (x16 link), signal from CPU1
	Slot location 3	PCIe x16 slot (x16 link), signal from CPU1
	Slot location 4	PCIe x16 slot (x16 link), signal from CPU0
	Slot location 5	PCIe x16 slot (x16 link), signal from CPU0
	Slot location 6	PCIe x16 slot (x16 link), signal from CPU0
Graphics	Slot location 7	PCIe x8 slot (x8 link), signal from CPU0
	VGA	ASPEED AST2500/2510
	IDE controller	-
Storage	SATA controller	Intel C621/C622: 8 x SATA3 / 6 Gb/s ports Intel Rapid Storage Technology (for Windows only) (SATA0-SATA7 supports software RAID 0, 1, 10 & 5)
	SAS controller	-
Networking	GbE/10GbE LAN	2 x Intel I210AT / Intel X557-AT2 (dual 10GbE ports for ASMB-925T2 sku only)
Onboard I/O Connector	Floppy connector	-
	PSU connector	24-pin SSI power connector + 3 x 8-pin SSI 12 V power connector
	USB connector	4 x USB2.0 ports (two onboard headers) + 2 x USB3.0 ports (one onboard headers) + 1 x Type-A USB2.0 port
	Fan header	7 x 4pin (5 for system + 2 for CPU)
	SMBus	1
	Chassis intruder	1
	Front LAN LED	1
	Audio Header	1
	PS/2 KB/Mouse	1
	Serial port header	1
Rear I/O Connector	External serial port	1
	External USB port	4 (USB3.0)
	VGA port	1
	RJ-45	4 (LAN2 sharing with IPMI function)
	PS/2 KB/mouse	-
	Infiniband	-
Management Solution	Software	-
	Out of band remote management	Yes (ASMB-925I/ASMB-925T2 sku only)
Monitoring	CPU temperature	Yes
	System Monitoring	Yes
Watchdog Timer	Output	System reset
	Interval	Programmable 1 ~ 255 sec/min
Power Requirement	Power On	3.3V 5V 12V 5Vsb -12V 12V_8P_0 12V_8P_1
	(205W CPU@2.5GHz DDR4 2400 4G*12)	1.51A 5.19A 0A 0.05A 0A 20.58A 20.08A
Environment	Operating	Non-operating
	Temperature	0 ~ 40 °C, depends on CPU speed and cooler solution -40 ~ 85 °C
	Humidity	10% ~ 95% 10% ~ 95% (Non condensing)
Physical Characteristics	Dimension (L x H)	304.8 x 330.2 mm (12" x 13")

- 1 Software and Industry Solutions
- 2 Industrial Server
- 3 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

Block Diagram



Ordering Information

Part Number	Chipset	Memory	GbE/10GbE LAN	IPMI	Graphics
ASMB-925-00A1	C621	DDR4 RDIMM	2/-	-	AST2510
ASMB-925I-00A1	C621	DDR4 RDIMM	2/-	Yes	AST2500
ASMB-925T2-00A1	C622	DDR4 RDIMM	2/2	Yes	AST2500

Packing List

Part Number	Description	Quantity
2061092500	Driver CD	x 1
2001092500	Startup manual	x 1
1700003194	SATA data cables	x 2
1700022749-11	SATA power cables	x 2
1700019748	CPU power cable	x 2
1960076488T000	I/O shield	x 1

Optional Accessories

Part Number	Description
PCA-AUDIO-HDB1E	HD Audio-card
PCA-TPM-00A1E	TPM1.2 Module
PCA-TPM-00B1E	TPM2.0 Module
1960081603N001	LGA-3647 narrow CPU cooler for 2U/4U chassis
1960081155N001	LGA-3647 narrow CPU cooler for 1U chassis
1700028025-01	Dual port USB cable (45 cm) with bracket
1700028042-01	Four port USB cable (45 cm) with bracket
1700028024-01	Dual port USB 3.0 cable (45 cm) with bracket
1701090401	COM port cable with bracket
1960082347T000	For 1U chassis IO shield

I/O View



ASMB-925T2-00A1

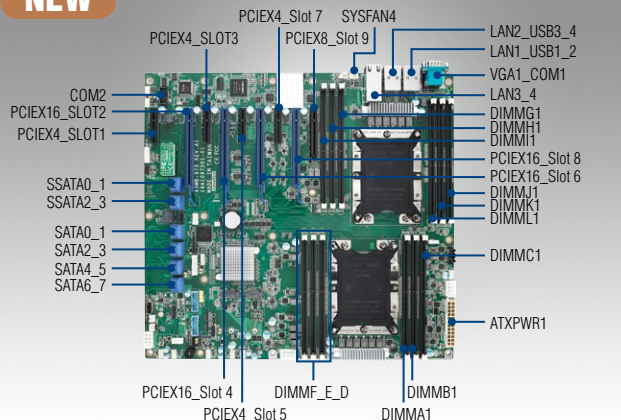


ASMB-925-00A1
ASMB-925I-00A1

ASMB-975

Dual LGA 3647-P0 Intel® Xeon® Scalable Proprietary Server Board with 12 DDR4, 4 PCIe x16 + 1 PCIe x8+4 PCIe x4, 14 SATA3, 8 USB3.0, Dual 10GbE, IPMI

NEW



CE FCC

Features

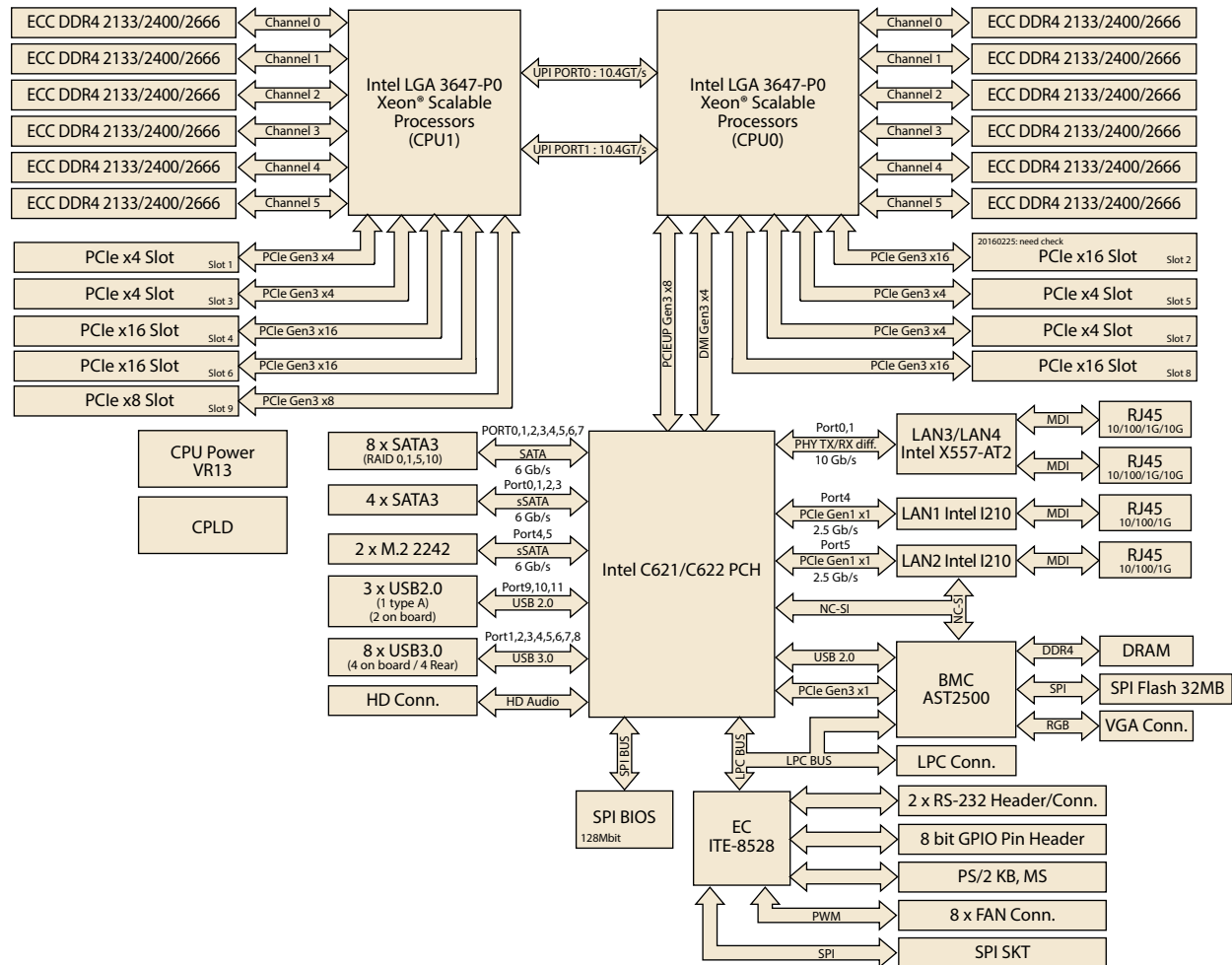
- Proprietary server board with dual Xeon® Scalable processors
- DDR4 2666 MHz RDIMM up to 384 GB (12 DIMMs), supports Apache Pass
- 14 SATA3 connectors (including 2 SATA M.2 2242)
- Four PCIe x16 slots (Gen3) for double-deck cards
- Intel® X557-AT2 dual 10GbE ports
- 0 ~ 40 °C ambient operating temperature range

Specifications

Form Factor	Proprietary (14.1" x 13")
Processor System	Socket Intel LGA 3647-P0 CPU type Intel Xeon Scalable dual processors (CPU cooler should be purchased separately and TDP up to 205W)
Core Logic	Chipset Intel C621/C622 chipset
Memory	Total slots 12 (1 DIMM per channel) Capacity Maximum 384 GB ECC RDIMM Memory type DDR4 ECC-REG 2133/2400 /2666 MHz DIMM, support Apache Pass Memory size 4 GB, 8 GB, 16 GB, 32 GB
Expansion Slots	Total PCIe slots 9 Slot location 1 PCIe x4 slot (x4 link), signal from CPU1 Slot location 2 PCIe x16 slot (x16 link), signal from CPU0 Slot location 3 PCIe x4 slot (x4 link), signal from CPU1 Slot location 4 PCIe x16 slot (x16 link), signal from CPU1 Slot location 5 PCIe x4 slot (x4 link), signal from CPU0 Slot location 6 PCIe x16 slot (x16 link), signal from CPU1 Slot location 7 PCIe x4 slot (x4 link), signal from CPU0 Slot location 8 PCIe x16 slot (x16 link), signal from CPU0 Slot location 9 PCIe x8 slot (x8 link), signal from CPU1
Graphics	VGA Aspeed AST 2500/2510
Storage	IDE controller - SATA controller Intel C621/C622: 12 x SATA3 + 2 x M.2 2242 6 Gb/s ports Intel Rapid Storage Technology (for Windows only) SAS controller -
Networking	GbE/10GbE LAN 2 x Intel I210AT / Intel X557-AT2 (dual 10GbE ports)
Onboard I/O Connector	Floppy connector - PSU connector 24-pin SSI power connector + 2 x 8-pin SSI 12 V power connector + 4-pin SSI 12 V power connector USB connector 2 x USB2.0 ports (two onboard headers) + 4 x USB3.0 ports (two onboard headers) + 1 x Type-A USB2.0 port Fan header 8 (6 for system fan + 2 for CPU fan) SMBus 1 Chassis intruder 1 Front LAN LED 2 Audio Header 1 PS/2 KB/Mouse 1 Serial port header 1
Rear I/O Connector	External serial port 1 External USB port 4 (USB3.0) VGA port 1 RJ-45 4 (LAN2 sharing IPMI) PS/2 KB/mouse - Infiniband -
Management Solution	Software - Out of band remote management Yes
Monitoring	CPU temperature Yes System Monitoring Yes
Watchdog Timer	Output System reset Interval Programmable 1 ~ 255 sec/min
Power Requirement	Power On 3.3V 5V 12V 5Vsb -12V 8P_0 8P_1 1.37A 6.83A 0.09A 0.14A 0.03A 4.4A 4.2A Operating - Non-operating -40 ~ 85 °C
Environment	Temperature 0 ~ 40 °C, depends on CPU speed and cooler solution Humidity 10% ~ 95% 10% ~ 95% (Non condensing)
Physical Characteristics	Dimension (L x H) 358.1 x 330.2 mm (14.1" x 13")

- 1 Software and Industry Solutions
- 2 Industrial Server
- 3 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

Block Diagram



Ordering Information

Part Number	Chipset	Memory	GbE/10GbE LAN	IPMI	Graphics
ASMB-975-00A1	C621	DDR4 RDIMM	2/-	-	AST 2510
ASMB-975I-00A1	C621	DDR4 RDIMM	2/-	Yes	AST 2500
ASMB-975T2-00A1	C622	DDR4 RDIMM	2/2	Yes	AST 2500

Packing List

Part Number	Description	Quantity
2066975I00	Driver CD	x 1
2001097500	Startup manual	x 1
1700003194	SATA data cables	x 2
1700022749-11	SATA power cables	x 2
1700019748	CPU power cable	x 2
1960076488T000	I/O shield	x 1

Optional Accessories

Part Number	Description
PCA-AUDIO-HDB1E	HD Audio-card
PCA-TPM-00B1E	TPM 2.0 Module by LPC
1960081603N001	LGA-3647 narrow CPU cooler for 2U/4U chassis
1960081155N001	LGA-3647 narrow CPU cooler for 1U chassis
1700028025-01	Dual port USB cable (45 cm) with bracket
1700028042-01	Four port USB cable (45 cm) with bracket
1700028024-01	Dual port USB 3.0 cable (45 cm) with bracket
1701090401	COM port cable with bracket

I/O View



ASMB-975-00A1
ASMB-975I-00A1

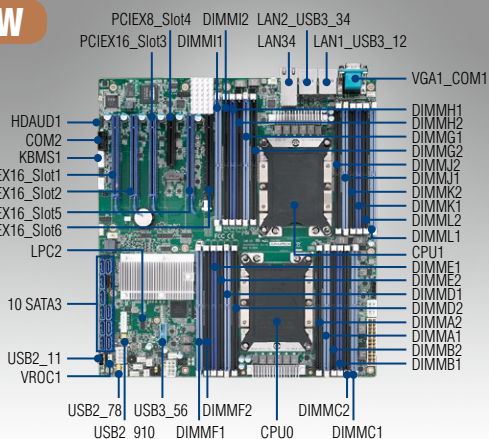


ASMB-975T2-00A1

ASMB-935

Dual LGA3647-P0 Intel® Xeon® Scalable EATX Server Board with 24 DDR4, 5 PCIe x16 + 1 PCIe x8, 10 SATA3, 6 USB3.0, Dual 10GbE, IPMI

NEW



CE FCC

Features

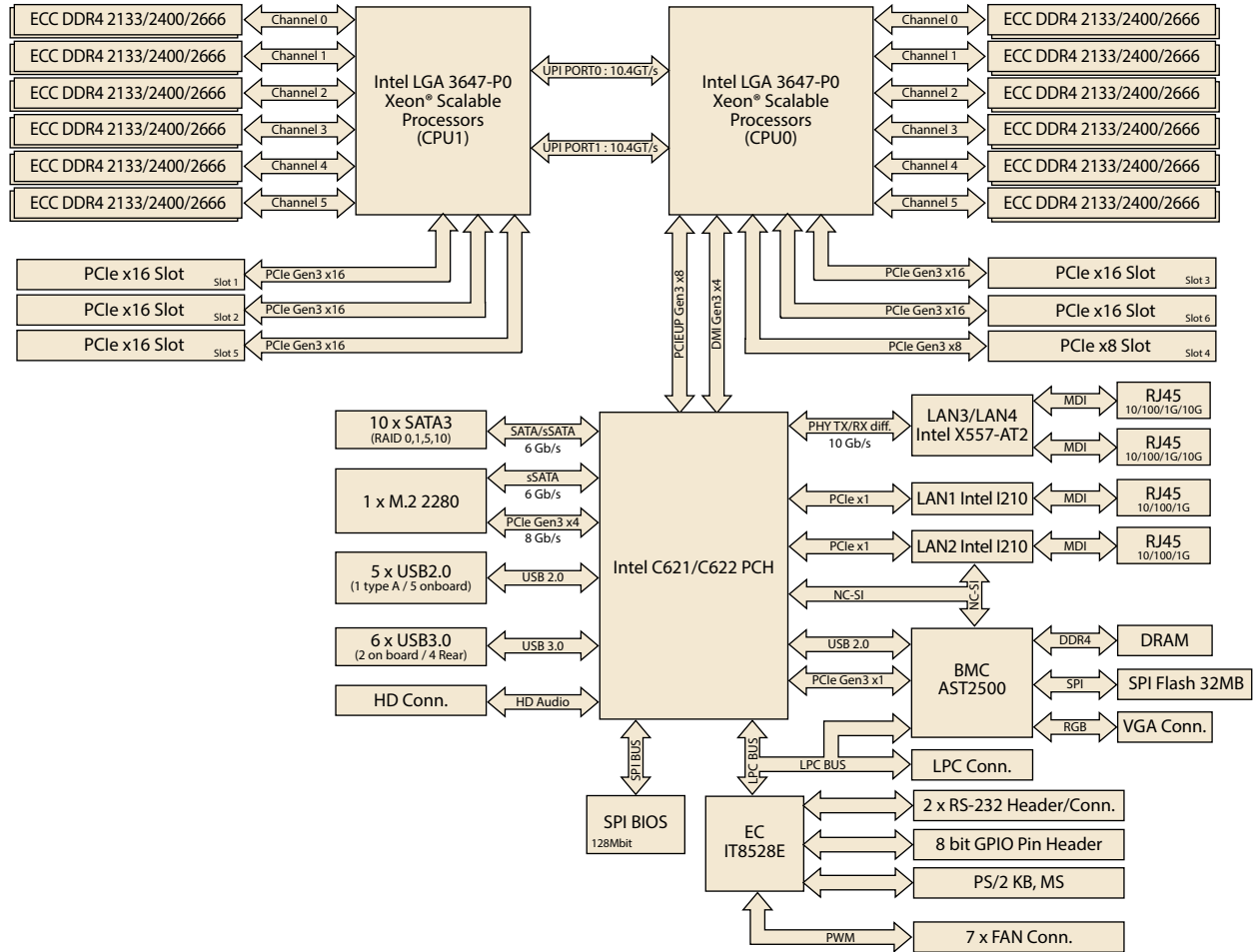
- EATX server board with dual Xeon Scalable processors
- DDR4 2666 MHz RDIMM up to 768 GB (24 DIMMs)
- Five PCIe x16 (Gen3) and one PCIe x8 (Gen3) for three double-deck cards
- Intel® X557-AT2 dual 10GbE ports
- Ten SATA3 and six USB3.0 ports
- One M.2 2280 (SATA / PCIe compatible)
- 0 ~ 40 °C ambient operating temperature range

Specifications

Form Factor	EATX form factor	
Processor System	Socket	Intel LGA3647-P0
	CPU type	Intel Xeon Scalable dual processors (CPU cooler should be purchased separately and TDP up to 205W)
Core Logic	Chipset	Intel C620 Series
Memory	Total slots	24 (2 DIMM per channel)
	Capacity	Maximum 768 GB ECC RDIMM
	Memory type	DDR4 ECC-REG 1866/2133/2400/2666 MHz DIMM
	Memory size	4 GB, 8 GB, 16 GB, 32 GB
Expansion Slots	Total PCIe slots	6
	Slot location 1	1 x PCIe x16 slot (x16 link), signal from CPU1
	Slot location 2	1 x PCIe x16 slot (x16 link), signal from CPU1
	Slot location 3	1 x PCIe x16 slot (x16 link), signal from CPU0
	Slot location 4	1 x PCIe x8 slot (x8 link), signal from CPU0
	Slot location 5	1 x PCIe x16 slot (x16 link), signal from CPU1
Graphics	Slot location 6	1 x PCIe x16 slot (x16 link), signal from CPU0
	VGA	ASPEED AST2500/2510
Storage	IDE controller	-
	SATA controller	Intel C620: 10 x SATA3 / 6 Gb/s ports Intel Rapid Storage Technology (for Windows only) (RAID 0, 1, 10 & 5)
	SAS controller	-
Networking	GbE/10GbE LAN	2 x Intel I210AT + Intel X557-AT2 (dual 10GbE ports for ASMB-935T2 sku only)
Onboard I/O Connector	Floppy connector	-
	PSU connector	24-pin SSI power connector + 3 x 8-pin SSI 12 V power connector
	USB connector	4 x USB2.0 ports (two onboard headers) + 2 x USB3.0 ports (one onboard headers) + 1 x Type-A USB2.0 port
	Fan header	7 x 4pin (5 for system + 2 for CPU)
	SMBus	1
	Chassis intruder	1
	Front LAN LED	1
	Audio Header	1
	PS/2 KB/Mouse	1
	Serial port header	1
	External serial port	1
Rear I/O Connector	External USB port	4 (USB3.0)
	VGA port	1
	RJ-45	4 (LAN2/4 sharing with IPMI function)
	PS/2 KB/mouse	-
	Infiniband	-
Management Solution	Software	-
	Out of band remote management	Yes (ASMB-935I/ASMB-935T2 sku only)
Monitoring	CPU temperature	Yes
	System Monitoring	Yes
Watchdog Timer	Output	System reset
	Interval	Programmable 1 ~ 255 sec/min
Power Requirement	Power On	3.3V 5V 12V 5Vsb -12V 12V_8P_0 12V_8P_1
	(205W CPU@2.5GHz DDR4 2400 32G*24)	6.77A 5.11A 0.04A 0.17A 0.01A 21.49A 23.19A
Environment	Operating	Non-operating
	Temperature	0 ~ 40 °C, depends on CPU speed and cooler solution -40 ~ 85 °C
	Humidity	10% ~ 95% 10% ~ 95% (Non condensing)
Physical Characteristics	Dimension (L x H)	304.8 x 330.2 mm (12" x 13")

- 1 Software and Industry Solutions
- 2 Industrial Server
- 3 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

Block Diagram



Ordering Information

Part Number	Chipset	Memory	GbE/10GbE LAN	IPMI	Graphics
ASMB-935-00A1	C621	24 x DDR4 RDIMM	2/-	-	AST2510
ASMB-935I-00A1	C621	24 x DDR4 RDIMM	2/-	Yes	AST2500
ASMB-935T2-00A1	C622	24 x DDR4 RDIMM	2/2	Yes	AST2500

Packing List

Part Number	Description	Quantity
2061093500	Driver CD	x 1
2001093500	Startup manual	x 1
1700003194	SATA data cables	x 2
1700022749-11	SATA power cables	x 2
1700019748	CPU power cable	x 2
1960076488T000	I/O shield	x 1

Optional Accessories

Part Number	Description
PCA-AUDIO-HDB1E	HD Audio-card
PCA-TPM-00B1E	TPM2.0 Module
1960081603N101	LGA-3647 narrow CPU cooler for 4U chassis (205W)
1960081603N001	LGA-3647 narrow CPU cooler for 2U/4U chassis (165W)
1960081155N001	LGA-3647 narrow CPU cooler for 1U chassis (85W)
1700028025-01	Dual port USB cable (45 cm) with bracket
1700028042-01	Four port USB cable (45 cm) with bracket
1700028024-01	Dual port USB 3.0 cable (45 cm) with bracket
1701090401	COM port cable with bracket
1960082347T000	For 1U chassis IO shield

I/O View



ASMB-935T2-00A1



ASMB-935-00A1
ASMB-935I-00A1

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

1
Software and Industry Solutions
2
Industrial Server
3
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 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

Server Chassis



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, Δ: optional

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- 5 Automation Computers and Controllers
- 6 Industrial Communication
- 7 Remote I/O Modules
- 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

HPC-2040

Mini 4 Bay Server Tower



Features

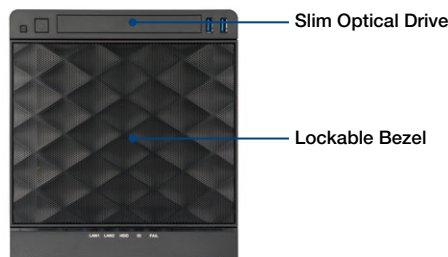
- Four Hot-Swap 3.5"/2.5" drive bays. (SAS 6Gb/s supported)
- One internal 2.5" HDD + one slim ODD bays
- Dual front USB 3.0 ports
- Supports 250W Flex ATX Power
- Supports Mini ITX motherboard

Quiet Specifications

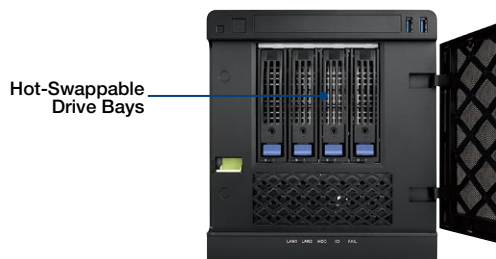
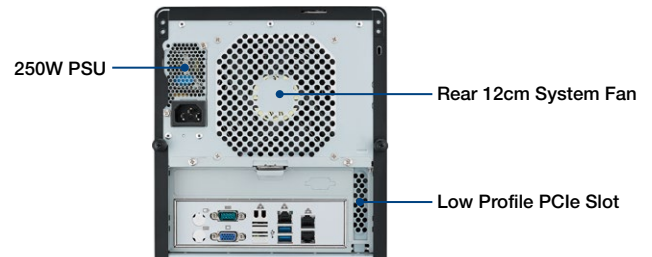
CE FCC

		External	Internal
Drive Bay	Slim Optical Drive	1	-
	2.5"	-	1
	Hot Swap	4 SASII / SATA III (3.5" or 2.5")	
Cooling	Fan	1 (12cm / 57.2CFM)	
	Air Filter	-	
Front I/O Interface	USB3.0	2	
Miscellaneous	LED Indicators	Power, LAN 1, LAN 2, HDD, and System Information	
Environment	Temperature	Operating 0 ~ 40 °C (32 ~ 122 °F)	Non-Operating -40 ~ 60 °C (-40 ~ 140 °F)
	Humidity	95% @ 40 °C, non-condensing	95% @ 60 °C, non-condensing
	Vibration (5 ~ 500 Hz)	0.25Grms	
Physical Characteristics	Dimensions (W x H x D)	210 x 230 x 275 mm (8.3" x 9.1" x 10.8")	

Front View



Rear View

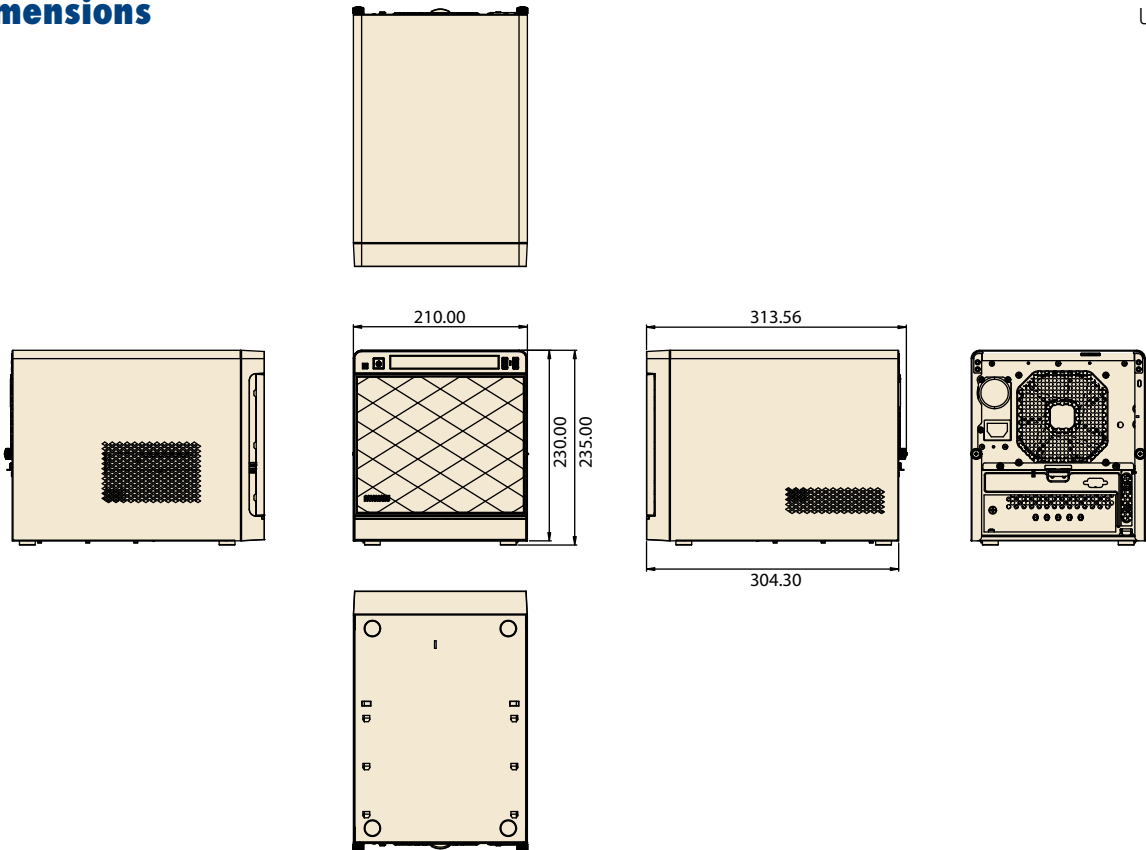


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- 8 Industrial I/O and Video Solutions

HPC-2040

Dimensions

Unit: mm



Ordering Information

Part Number	Description
HPC-2040-25ZX	HPC-2040 Mini Tower Chassis w/ 250W SPS

Packing List

Part Number	Description
PS8-250FATX-XE	250W Flex ATX Power Supply

Optional Accessories

Part Number	Description
1960080721N001	Atom C3000 Cooler for ASMB-260
9891831620E	4 Ports SATAIII HBA Card
96CB-SATAPOWER-6P2	SATA POWER ADAPTER 6PIN TO BIG 4 PIN(G) for Slim ODD

Compatible Motherboard

Part Number	CPU	Memory	10GbE Lan	GbE Lan	SATA	M.2	VGA	IPMI
ASMB-260T2-22A1	C3758	4 xDDR4 RDIMM/UDIMM	2	1	8	1	AST 2500	Yes
ASMB-260I-22A1	C3758	4 xDDR4 RDIMM/UDIMM	-	1	8	1	AST 2500	Yes

HPC-5000

Small Tower Chassis for microATX / Mini-ITX Motherboard



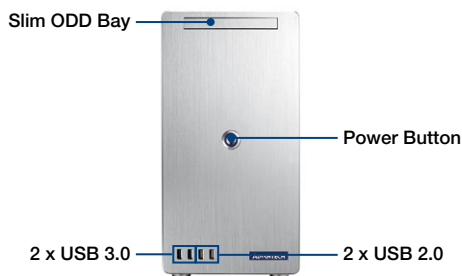
Quiet

CE FCC

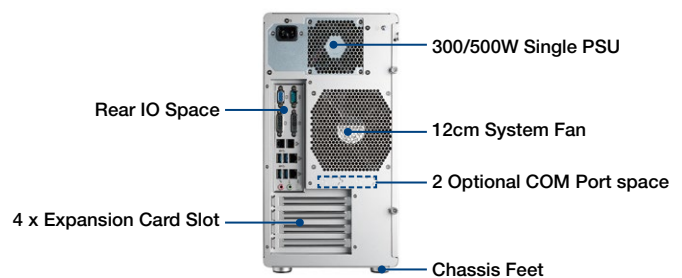
Specifications

		External	Internal
Drive Bay	5.25"	-	-
	3.5" / 2.5"	-	2 x 3.5" or 1 x 3.5" + 1 x 2.5"
	Slim ODD	1	-
Cooling	Fan	1 x 12cm system fan in the rear side 1 x 8cm system fan in the bottom side (optional)	
	Air Filter	Replaceable air filter (in the bottom side)	
Front I/O Interface	USB 3.0	2	
	USB 2.0	2	
Miscellaneous	LED Indicators	Power	
	Rear Panel	-	
Environment	Temperature	Operating 0 ~ 40 °C (32 ~ 104 °F)	Non-operating -40 ~ 70 °C (-40 ~ 156 °F)
	Humidity	10 ~ 95% @ 40 °C, non-condensing	10 ~ 95% @ 60 °C, non-condensing
	Vibration (5 ~ 500 Hz)	1 Grms	2 G
	Shock	10 G (with 11 ms duration, half sine wave)	
	Weight	10kg (without MB and HDD)	
Physical Characteristics	Dimensions (W x H x D)	192 x 376.7 x 338.5 mm (7.56" x 14.83" x 13.33"), with chassis feet and key lock bracket	
	Weight	10kg (without MB and HDD)	

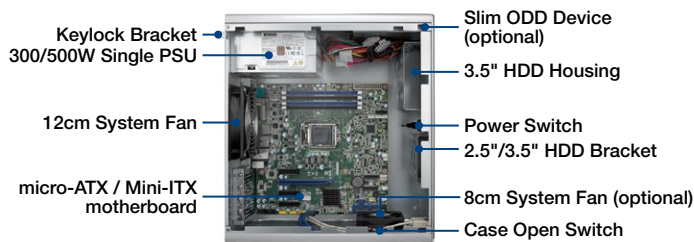
Front View



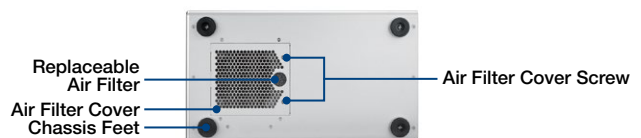
Rear View



Inner View



Bottom view

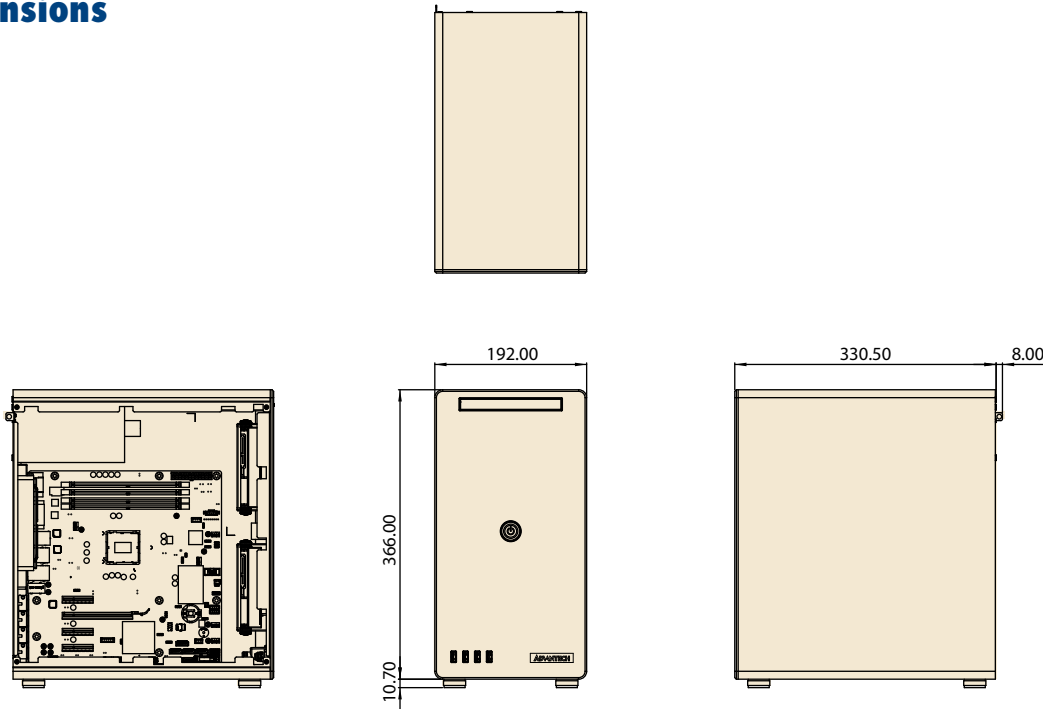


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- 8 Industrial I/O and Video Solutions

HPC-5000

Dimensions

Unit: mm



Ordering Information

Part Number	Description
HPC-5000-30ZXE	HPC-5000 small tower chassis with 300W single ATX PSU
HPC-5000-50ZXE	HPC-5000 small tower chassis with 500W single ATX PSU

Packing List

Part number	Description	Quantity
1990022007S000	Chassis feet (pre-installed)	4
1960078418N002	Key lock bracket (pre-installed)	1
1960077474N000	3.5" HDD cage (pre-installed)	2
1960078421N000	2.5" HDD cage	1
1700007351	SATA HDD cable (40cm)	2
1750008561-01	12cm system fan (pre-installed)	1
2130017820N000	System air filter (pre-installed)	1
96PS-A300WPS2	300W single power supply (Only pre-installed in HPC-5000-30ZXE)	1
96PS-A500WPS2G	500W single power supply (Only pre-installed in HPC-5000-50ZXE)	1

Optional Accessories

Item	Part number	Description	Quantity
2.5" HDD convert module	98R15000M00	Convert module for two 15mm(H) 2.5" HDDs in a 3.5" cage	1
Slim optical device	Check Advantech P-trade available list	Slim optical device	1
	1700019381	Slim optical device SATA cable	1
	96CB-SATAPOWER-6P2	Slim optical device power cable	1
Air filter	2130017820N000	System replaceable air filter	1
System fan	1750007983-01	8cm bottom system fan (57CFM)	1
GPU/GTX card power cable	1700024754-01	2 x B4P Molex power connector to 6+2P PCIe power cable (10cm)	1
COM port cable	1700001788	Single COM port cable for HPC-5000 rear side (30cm)	1

HPC-7000

Server Tower Chassis for EATX/ATX/ MicroATX Motherboard



CE FCC

Features

- Supports EATX/ATX/MicroATX motherboard with dual processors
- Three internal 3.5" HDD bays and one slim ODD drive bay
- Dual front USB 3.0 ports

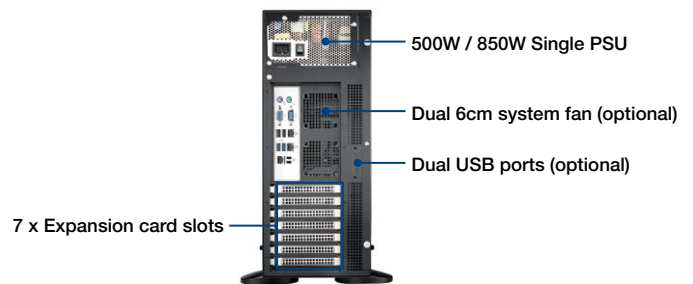
Specifications

		External	Internal
Drive Bay	Slim Optical Drive	1	-
	3.5"	3	-
Cooling	Fan	2 (12cm/150CFM)	-
	Air Filter	-	-
Front I/O Interface	USB3.0	2	
Miscellaneous	LED Indicators	Power	
	Rear Panel	Two USB reserved ports	
Environment	Temperature	Operating 0 ~ 40 °C (32 ~ 104 °F)	Non-Operating -40 ~ 60 °C (-40 ~ 140 °F)
	Humidity	95% @ 40 °C, non-condensing	95% @ 60 °C, non-condensing
	Vibration (5 ~ 500 Hz)	1 Grms	2 G
	Shock	10 G (with 11 ms duration, half sine wave)	
Physical Characteristics	Dimensions (W x H x D)	267.1 x 458 x 500mm (10.52" x 18.03" x 19.69")	

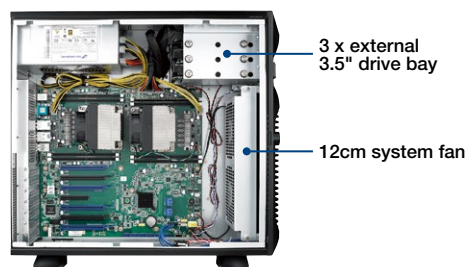
Front View



Rear View



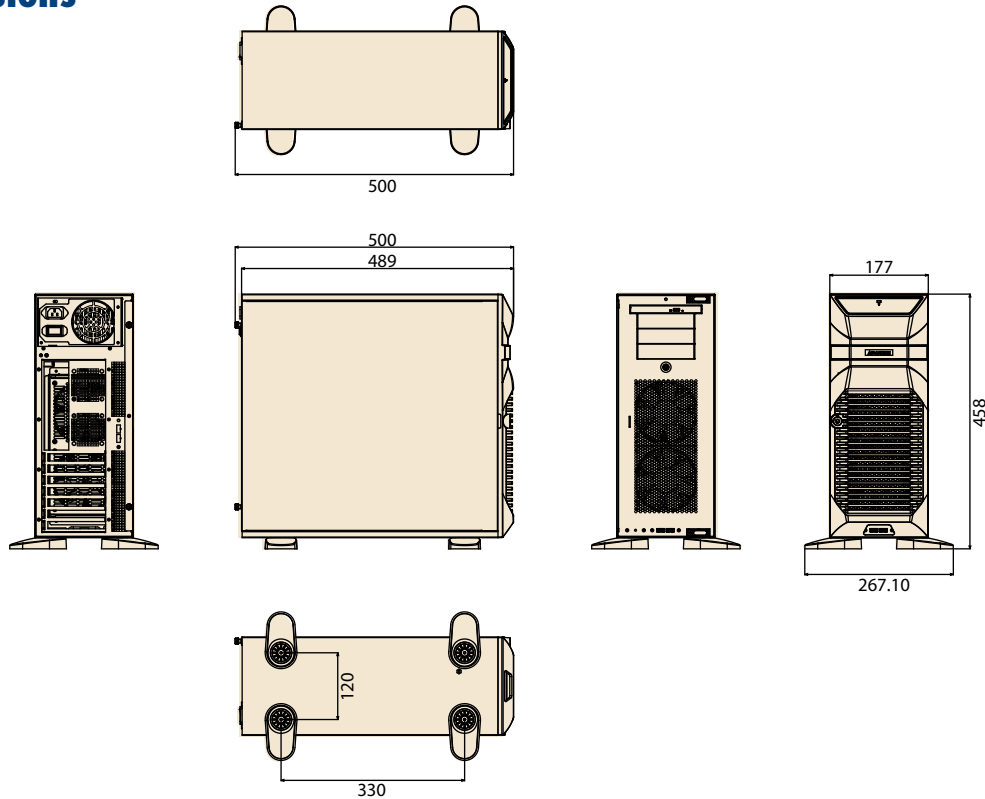
Inside View



HPC-7000

Dimensions

Unit: mm [inch]



Ordering Information

Part Number	Description
HPC-7000-50ZXE	HPC-7000 Tower chassis w/ 500W SPS
HPC-7000-85ZXE	HPC-7000 Tower chassis w/ 850W SPS

Packing List

Part Number	Description	Quantity
1750008562-01	12cm system fan	2

Note:

- HPC-7000 does not support AIMB series motherboard

Optional Accessories

Part Number	Description
96CB-SATAPOWER-6P2	SATA power wire 6-pin to big 4-pin (for slim ODD)
989K008734	Convert module for dual 9.6mm(H) 2.5" HDDs in a 3.5" cage
IPC-DT-3120E	Mobile rack for converting a 3.5" drive bay to dual 9.6mm(H) 2.5" HDD trays
1700026948-01	USB 3.0 cable (30cm) for rear panel
1700011592	USB 2.0 cable (50cm) for rear panel
1750006117	6cm system fan (23.6CFM) for rear panel

HPC-7120S

1U Short-Depth Server Chassis for Micro ATX/ATX Motherboards



CE FCC

Features

- 1U short-depth server chassis that supports micro ATX/ATX motherboards
- Two hot-swappable and two internal 2.5" SATA/SSD drive bays
- Anti-vibration fan
- Two front-accessible USB 3.0 ports
- Compatible with a front-accessible I/O design

Specifications

Form Factor Support		Micro ATX/ATX
Expansion Slots		1 (Full-Height & Half-Length)
Drive Bay	Slim ODD Bay	-
	5.25" (Front Accessible)	-
	3.5" (Hot Swappable)	-
	3.5" (Internal)	-
	2.5" (Hot Swappable)	2 x SASII / SATAIII (HPC-7120S-35ZXE only)
Cooling	Chassis Fan	3 (4 cm/23.1 CFM)
	Air Filter	-
System Monitoring	Chassis Intrusion Switch	Yes
Front I/O	USB 3.0	2
Miscellaneous	LED Indicators	System: Power, LAN 1, LAN 2, HDD, and System Information
		HDD Tray: HDD Power and Activity
Environment	Temperature	Operating: 0 ~ 40 °C (32 ~ 104 °F) Non-Operating: -40 ~ 70 °C (-40 ~ 158 °F)
	Humidity	10 ~ 95% @ 40 °C, non-condensing 10 ~ 95% @ 60 °C, non-condensing
	Vibration	1 Grm (5 ~ 500 Hz) 2 G (5 ~ 500 Hz)
	Shock	10G (with 11ms duration, half sine wave)
	Physical Characteristics	Dimensions (W x H x D) 438 x 43 x 381 mm (17.24" x 1.7" x 15")

Front View



HPC-7120S-35ZXE

Rear View



Front I/O View



HPC-7120S-70ZXE

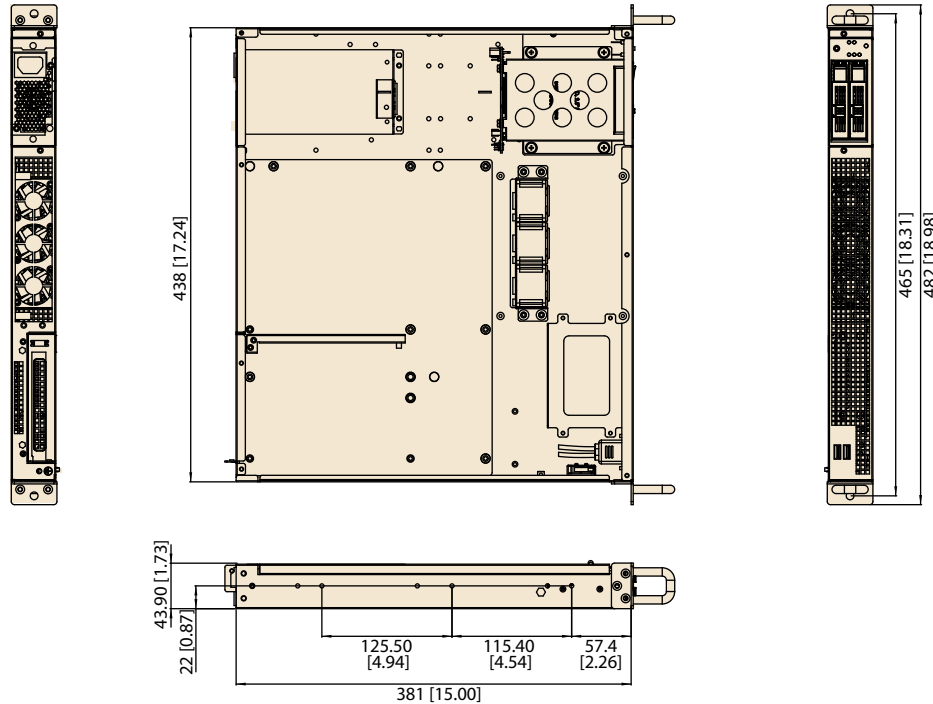


HPC-7120S-35ZXE

HPC-7120S

Dimensions

Unit: mm [inch]



Ordering Information

Part Number	Description
HPC-7120S-35ZXE	HPC-7120S 1U chassis w/ 350W SPS
HPC-7120S-70ZXE	HPC-7120S 1U chassis w/ 700W SPS

Packing List

Part Number	Items	Quantity
9661310000E	Hot-swappable 2.5" HDD tray (HPC-7120S-35ZXE only)	2
1700024530-01	Front USB 3.0 cable	1
1750006764-01	System fan (4 cm)	3

Optional Accessories

Part Number	Description
96CB-MSAS-SATA-4P3	Mini SAS to 4-pin SATA SGPiO cable, 0.6m for 6Gb/s
19Z0000406T110	1U I/O shield for ASMB-260
19Z0001023T000	1U I/O shield for ASMB-584
19Z0001156T000	1U I/O shield for ASMB-585/785
19Z0000747T000	1U I/O shield for ASMB-784
19Z0000406T110	1U I/O shield for ASMB-781/782/820
19Z0000811N000	1U I/O shield for ASMB-822/813
19Z0000806T000	1U I/O shield for ASMB-823
1960082347T000	1U I/O shield for ASMB-815
1960082348T000	1U I/O shield for ASMB-825
AIMB-RF10F-01A1E	1U PCIe x16 to PCIe x16 riser card
9680017208	22" rail kit for chassis (438 mm)
1990026944T000	Mylar air duct for front I/O application and ASMB-823

Note:

1. A 96CB-MSAS-SATA-4P2 cable is required to use an add-on RAID card with mini SAS connector.
2. HPC-7120S does not support AIMB series motherboards.
3. A 1990026944T000 is recommended for the front I/O to improve thermal performance.
4. A 1990026944T000 is required for ASMB-823 to support dual CPUs. Additionally, only temperatures of up to 30 °C are supported.

HPC-7120

1U Server Chassis for MicroATX/ATX/EATX Server board



CE FCC

Features

- 1U short depth server chassis supports MicroATX/ATX/EATX motherboard
- Two hot swap 2.5" SATA/SSD drive bays
- Anti-vibration FAN design
- Two front USB3.0 ports

Specifications

Form Factor Support	MicroATX/ATX/EATX	
Expansion Slots	1 (Full-Height & Half-Length)	
Drive Bay	Slim ODD Bay	-
	5.25" (front-accessible)	-
	3.5" (hot-swappable)	-
	3.5" (internal)	-
	2.5" (hot-swappable)	2 x SASII / SATAIII
	2.5" (internal)	-
Cooling	Chassis Fan	4 (4cm / 28.6 CFM)
	Air Filter	-
System Monitoring	Chassis intrusion switch	Yes
Front I/O Interface	USB 3.0	2
Miscellaneous	LED Indicators	System : Power, LAN1, LAN2, HDD, System Information
		HDD Tray: HDD Power and Activity LED
Environment	Temperature	Operating: 0 ~ 40 °C (32 ~ 104 °F) Non-Operating: -40 ~ 70 °C (-40 ~ 158 °F)
	Humidity	10 ~ 95% @ 40 °C, non-condensing 10 ~ 95% @ 60 °C, non-condensing
	Vibration (5-500 Hz)	1Grms 2G
	Shock	10G (with 11ms duration, half sine wave)
	Dimensions (W x H x D)	438 x 43 x 478 mm (17.24" x 1.7" x 18.82")
Physical Characteristics		

Front View

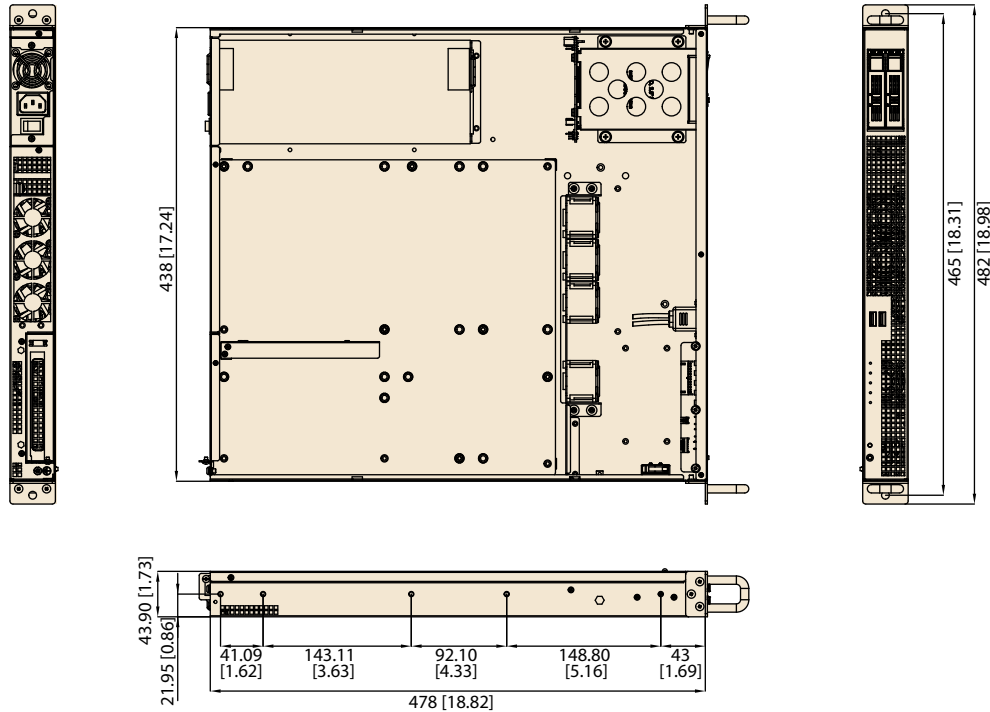


Rear View



Dimensions

Unit: mm [inch]



Ordering Information

Part Number	Description
HPC-7120-00XE	HPC-7120 1U 2 bays server chassis (w/o SPS)

Packing List

Part Number	Items	Quantity
9661310000E	Hot-Swap 2.5" HDD tray	2
1700024529-01	Front USB 3.0 cable	1
1990027281T000	Air duct for ASMB-9XX series	1
1990027567T000	Air duct for ASMB-8XX series	1

Power Supply Options

Part Number	80 Plus Grade	Wattage	Type	Input
PS8-350FATX-XE	Bronze	350W	Single	AC 100 ~ 240V (full range)
96PS-A700W1U	Bronze	700W	Single	AC 100 ~ 240V (full range)

Optional Accessories

Part Number	Description
96CB-MSAS-SATA-4P3	Cable mini SAS to 4P SATA SGPIO 0.6m for 6Gb/s
19Z0001023T000	1U IO Shield for ASMB-584
19Z0001156T000	1U IO Shield for ASMB-585/785
19Z0000747T000	1U IO Shield for ASMB-784
19Z0000406T110	1U IO Shield for ASMB-781/782/820/920/922/923
19Z0000811N000	1U IO Shield for ASMB-822/813
19Z0000806T000	1U IO Shield for ASMB-823
1960082347T000	1U I/O shield for ASMB-815/925/935
1960082348T000	1U I/O shield for ASMB-825
19Z0001086N000	1U IO Shield for ASMB-913
AIMB-RF10F-01A1E	1U PCIe x16 to PCIe x16 Riser Card
9680017208	22" Rail Kit

* Note:

- When using an add-on RAID Card with Mini-SAS connector(s), you must use 96CB-MSAS-SATA-4P2 cable.
- HPC-7120 does not support AIMB series motherboards.
- HPC-7120 can support 650W redundant power supply on a per project basis.

HPC-7140

1U Rackmount Server Chassis for MicroATX/ATX Server board with 4 x 3.5" Hot-swap Drive Bays



CE FCC

Features

- 1U rackmount server chassis supports MicroATX/ATX motherboard
- Four hot swap 3.5" SAS/SATA/SSD drive bays
- Supports 1U single and redundant power supply
- Easy swap and anti-vibration FAN design
- Two front USB and one front COM ports

Specifications

Form Factor Support	MicroATX/ATX	
Expansion Slots	1 (Full Height / Half Length)	
Drive Bay	Slim ODD Bay	1 (ODD should be purchased separately)
	5.25" (front-accessible)	-
	3.5" (hot-swappable)	4 x SASII / SATAIII
	3.5" (internal)	-
	2.5" (hot-swappable)	Optional
Cooling	Chassis Fan	4 (4cm / 23CFM)
	Air Filter	-
System Monitoring	Chassis intrusion switch	Yes
Front I/O Interface	USB 2.0	2
	COM Ports	1
Miscellaneous	LED Indicators	System : Power, LAN1, LAN2, HDD, System Information
	Rear Panel	HDD Tray: HDD Power and Activity LED
Environment	Temperature	Operating: 0 ~ 35 °C (32 ~ 95 °F) Non-Operating: -40 ~ 70 °C (-40 ~ 158 °F)
	Humidity	10 ~ 85% @ 40 °C non-condensing 10 ~ 95% @ 40 °C, non-condensing
	Vibration (5-500 Hz)	0.25Grms 0.5G
Physical Characteristics	Dimensions (W x H x D)	437 x 43 x 504 mm (17.2" x 1.7" x 19.85")

Front View



Rear View

Single Power Supply SKU



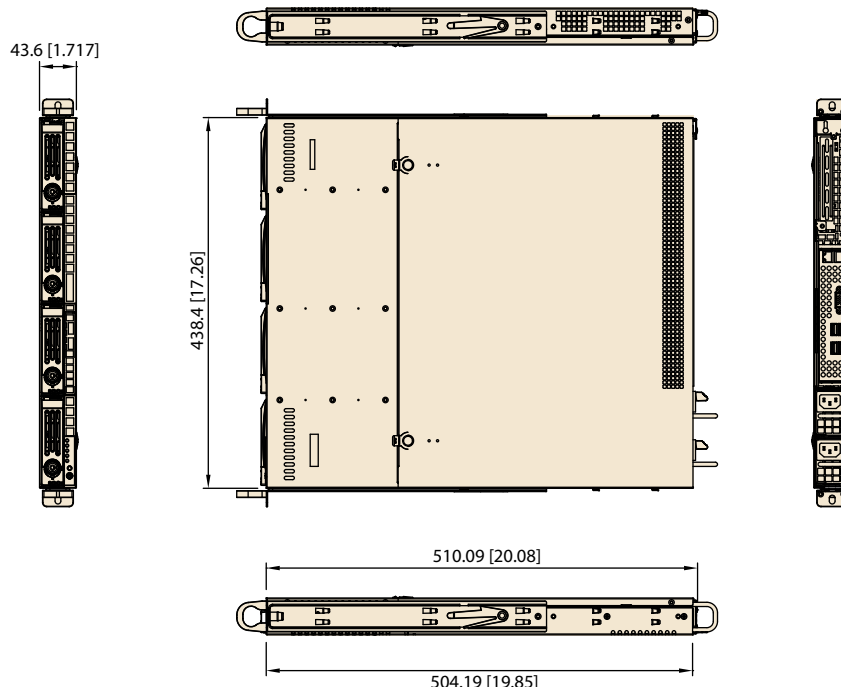
Redundant Power Supply SKU



- 1 Software and Industry Solutions
- 2 Industrial Server
- 3 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

Dimensions

Unit: mm [inch]



Ordering Information

Part Number	Description
HPC-7140-00A1E	HPC-7140 1U 4 bays server chassis (w/o SPS)
HPC-7140-R4A1E	HPC-7140 1U 4 bays server chassis (w/400W RPS)

Note: Standard HPC-7140-R4A1E does not support PMBUS function. This function is only supported on a per project basis.

Packing List

Items	Quantity
Hot-Swap 3.5" HDD tray with SATA cable (Pre-install)	4
Accessory Box	1

Power Supply Options

Part Number	80 Plus Grade	Wattage	Type	Input
XARR-CPS-2511-1A2	Bronze	250W	Single	AC 100 ~ 240V (full range)
XARR-CPS-6811-2A12	Gold	680W	Single	AC 100 ~ 240V (full range)

Optional Accessories

Part Number	Description
96CB-MSAS-SATA-4P3	Cable mini SAS to 4P SATA SGPIO 0.6m for 6Gb/s
19Z0001023T000	1U IO Shield for ASMB-584
19Z0000747T000	1U IO Shield for ASMB-784
19Z0001156T000	1U IO Shield for ASMB-585/785
19Z0000406T110	1U IO Shield for ASMB-781/782/820
19Z0000811N000	1U IO Shield for ASMB-822/813
19Z0000806T000	1U IO Shield for ASMB-823
1960082347T000	1U IO Shield for ASMB-815
1960082348T000	1U IO Shield for ASMB-825
1703040150	Type Y of Peripheral B4P Power Connector
96CB-SATAPOWER-6P2	SATA POWER ADAPTER 6PIN TO BIG 4 PIN(G) for Slim ODD
AIMB-RF10F-01A1E	1U PCIe x16 to PCIe x16 Riser Card
1990026944T000	ASMB-823 Mylar FAN DUCT for HPC-7140*
9680016633	2.5" HDD Bracket for Swappable HDD Tray
9680016685	25.6" - 33" Rail Kit for HPC-7140

* Note:

- When using add-on RAID Card with Mini-SAS connector(s), purchasing 96CB-SAS-SATA-4P3 cable is a MUST.
- HPC-7140 does not support AIMB series motherboards.
- HPC-7140 only supports up to 30 °C when ASMB-823 has been installed.
- When installing Slim ODD in HPC-7140-R4A1E, purchasing 1703040150 is a MUST.
- Purchasing 1990026944T000 is a MUST if using dual CPUs on ASMB-823.

HPC-7242

2U Rackmount Chassis for ATX Motherboard with 4 Hot-Swap SAS/SATA HDD Trays and RPS



Features

- Supports ATX motherboard with dual processors
- Four shock-resistant hot-swap disk trays supporting 3.5" or 2.5" SAS/SATA drives for RAID 5/10 application, one slim ODD, and two 2.5" internal drives
- Dual front USB 3.0 ports
- Supports 80plus single or redundant power supply up to 700W
- Front-accessible system fan without opening top cover for easy maintenance
- LED indicators and audible alarm notification for system fault detection
- Built-in intelligent system module enabling whole system fan control and remote manageability

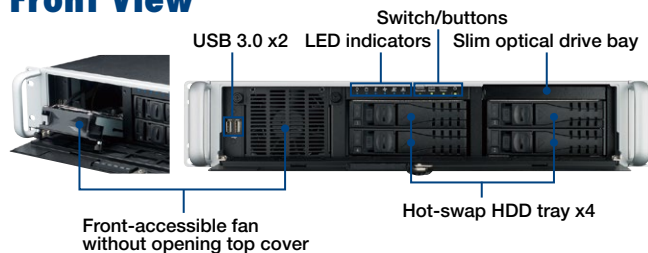
Quiet Specifications

CE FCC

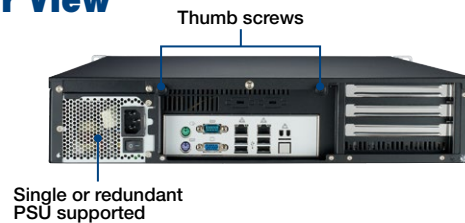
		External	Internal
Drive Bay	Slim Optical Drive	1	-
	2.5"	-	2
	Hot Swap	4 SASII / SATAIII HDDs	
Cooling	Fan	1 (8 cm/47CFM) + 2 (6 cm/28CFM) for SAS/SATA storage unit	
	Air Filter	Yes	
Front I/O Interface	USB 3.0*	2	
Miscellaneous	LED Indicators	Power, HDD, temperature, fan, LAN1, and LAN2	
	Rear Panel	Two 9-pin D-Sub	
Intelligent System Module Remote Monitoring	CPU/System fan speed, CPU/System temperature, motherboard voltage (Only selected Advantech MBs/CPU cards with SUSIAccess installed can fully enabled these functions, check with Advantech local rep. for detailed information.)		
Environment	Temperature	Operating 0 ~ 40 °C (32 ~ 104 °F)	Non-Operating -40 ~ 70 °C (-40 ~ 156 °F)
	Humidity	10 ~ 95% @ 40 °C, non-condensing	10 ~ 95% @ 60 °C, non-condensing
	Vibration (5 ~ 500 Hz)	1 Grms	2 G
	Shock	10 G (with 11 ms duration, half sine wave)	
	Dimensions (W x H x D)	426.4 x 88 x 525 mm (16.79" x 3.46" x 20.67")	
Physical Characteristics	Weight	13.7 kg (30.12 lb)	

* The USB ports do not operate if a main board without on-board USB 3.0 internal box header is installed.

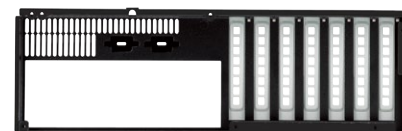
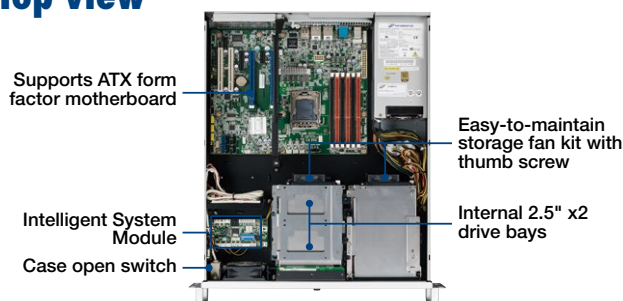
Front View



Rear View



Top view



Rear I/O bracket for low profile add-on cards

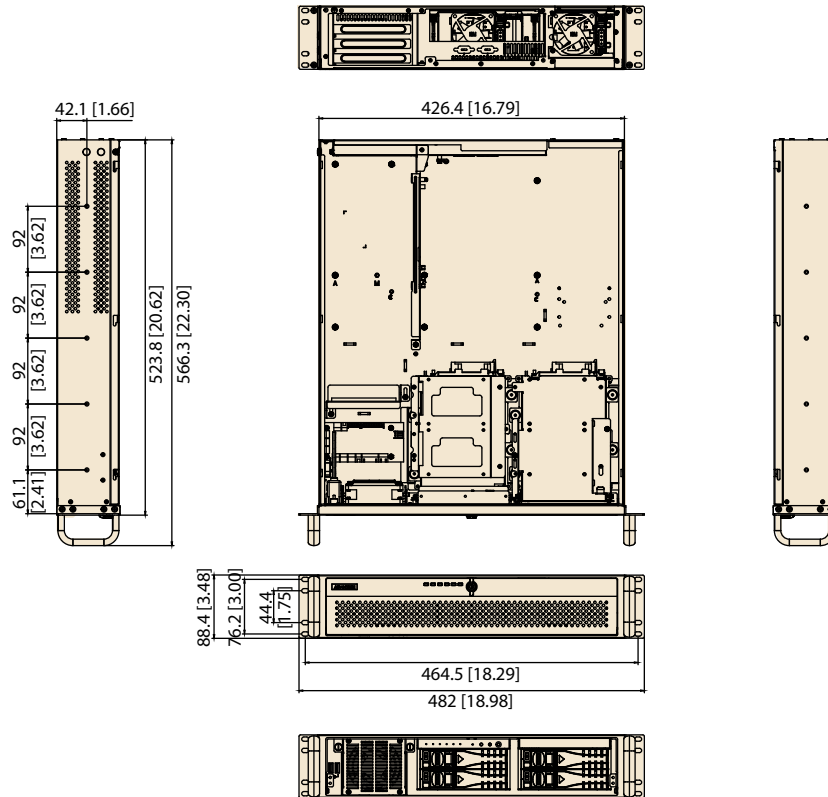
*Note: Motherboard and power supply are not included.

- 1 Software and Industry Solutions
- 2 Industrial Server
- 3 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

HPC-7242

Dimensions

Unit: mm [inch]



Ordering Information

Part Number	Description
HPC-7242MB-00XE	Without PSU, with ATX switch

Packing List

Part Number	Description
9662132020E	Black mobile HDD tray
1990021407T000	Door filter

Power Supply Options

Part Number	80 Plus Grade	Wattage	Type	Input
PS8-350FATX-XE	Bronze	350W	Single	AC 100 ~ 240 V (full range)
PS8-500U2-XE	Bronze	500W	Single	AC 100 ~ 240 V (full range)
RPS8-500U2-XE	Bronze	500W	(1+1) Redundant	AC 100 ~ 240 V (full range)
RPS8-700U2-XE	Bronze	700W	(1+1) Redundant	AC 100 ~ 240 V (full range)

Optional Accessories

Part Number	Description
96CB-SATAPOWER-6P2	SATA power wire 6-pin to big 4-pin (for slim ODD)
96CB-SAS-SATA-4P3	Mini SAS to 4-port SATA Cable
9680006905	26" Slide Rail
Rear I/O panel kit for low-profile add-on cards	
1939000361	Screws (should purchase 7 pcs)
1960034816N000	I/O bracket (should purchase 7 pcs)
1960019475T201	Rear panel for low-profile

HPC-7282

2U Rackmount Chassis for Micro/ATX Server Board with 8 Hot-swap Drive Bays, 7 Low Profile Expansion Slots



Features

- 2U rackmount chassis supports MicroATX/ATX motherboard
- Eight hot swap SAS/SATA drive bays
- Swappable fan module design facilitates maintenance
- Supports 7 x low-profile/half-length I/O expansion slots

CE FCC

Specifications

Form Factor Support		MicroATX/ATX	
Expansion Slots		Supports 7 x low-profile/half-length I/O expansion slots	
Drive Bay	Slim ODD Bay	1 (ODD should be purchased separately)	
	5.25" (front-accessible)	-	
	3.5" (hot-swappable)	8 SASII / SATAIII (Lockable)	
	2.5" / 3.5" (internal)	2	
	2.5" (hot-swappable)	Optional	
Cooling	Chassis Fan	3 x 80 mm fan module with swappable bracket	
	Air Filter	-	
System Monitoring		Chassis intrusion switch	
Front I/O Interface	USB 2.0	2	
	COM Port	1	
Miscellaneous	LED Indicators	Power, HDD activity, LAN, System Information	
	Rear Panel	-	
Environment		Operating	Non-Operating
	Temperature	0 ~ 40 °C (32 ~ 104 °F)	-40 ~ 70 °C (-40 ~ 158 °F)
	Humidity	10 ~ 85% @ 40 °C non-condensing	10 ~ 95% @ 40 °C, non-condensing
	Vibration (5~500 Hz)	0.25Grms	0.5G
Physical Characteristics	Dimensions (W x H x D)	437 x 88.9 x 533.4 mm (17.2" x 3.5" x 21")	

Front View



Rear View

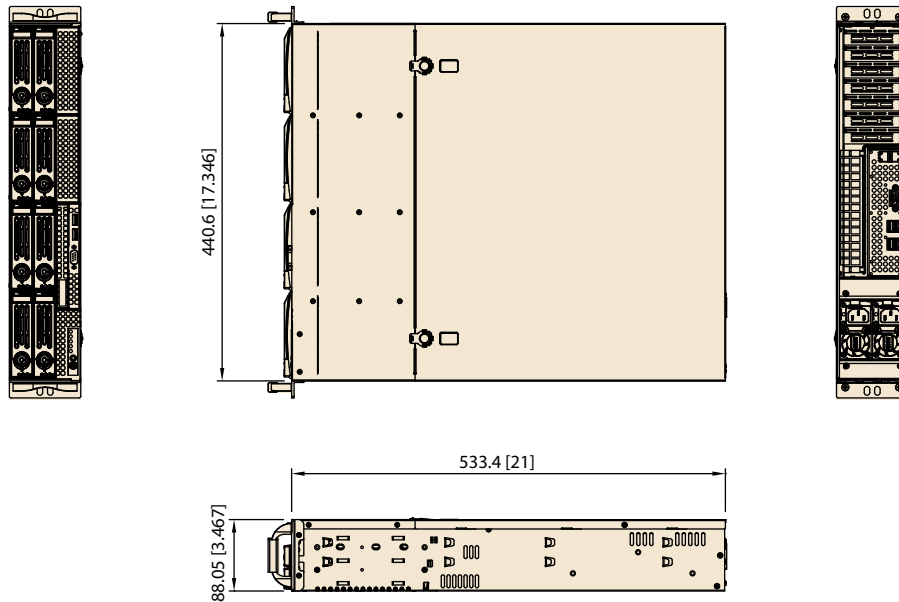


- 1 Software and Industry Solutions
- 2 Industrial Server
- 3 Intelligent System
- 4 Intelligent HMI and Monitors
- 5 Automation Computers and Controllers
- 6 Industrial Communication
- 7 Remote I/O Modules
- 8 Industrial I/O and Video Solutions

HPC-7282

Dimensions

Unit: mm [inch]



Ordering Information

Part Number	Description
HPC-7282-00A1E	HPC-7282 2U 8 bays server chassis (w/o PSU)

Packing List

Description	Quantity
Hot-swap 3.5" HDD Trays with SATA cable (Pre-installed)	x 8
System Accessory	x 1

Power Supply Options

Part Number	80 Plus Grade	Wattage	Type	Input
PS8-500U2-XE	Bronze	500W	Single	AC 100 ~ 240 V (full range)
XARR-CPS-6811-2A12	Gold	680W	Single	AC 100 ~ 240 V (full range)
RPS8-500U2-XE	Bronze	500W	(1+1) Redundant	AC 100 ~ 240 V (full range)
RPS8-700U2-XE	Gold	700W	(1+1) Redundant	AC 100 ~ 240 V (full range)

Optional Accessories

Part Number	Description
96CB-SAS-SATA-4P1	Mini SAS to 4-port SATA Cable*
96CB-SATAPOWER-6P2	SATA power adapter 6-pin to big 4-pin (G) for slim ODD
9680016633	2.5" HDD Bracket for Swappable HDD Tray
9680016697	19" - 26.6" Rail Kit for HPC-7282
9680016698	26.5" - 33" Rail Kit for HPC-7282

* Note:

- When using an add-on RAID card with mini-SAS connector(s), purchasing the 96CB-SAS-SATA-4P1 cable is a essential: - single port RAID card needs 1 piece, dual port needs 2 pieces.
- HPC-7282 does not support AIMB series motherboards.
- When installing the power supply please use the power supply bracket inside the accessory box.

HPC-7320

3U Short-depth Rackmount/ Tower Chassis for EATX/ATX/MicroATX Motherboard



CE FCC

Features

- Supports EATX/ATX/MicroATX motherboard with dual processors
- Two hot-swap 3.5"/2.5" drive bays, one slim ODD drive bay and two internal 3.5" HDD bays
- Dual front USB 3.0 ports
- Supports Flex ATX power, 2U 80Plus single or redundant power supply
- Front-accessible system fan without opening top cover for easy maintenance

Specifications

		External	Internal
Drive Bay	Slim Optical Drive	1	-
	3.5"	-	2
	Hot Swap	2 SASII / SATAIII (3.5" or 2.5")	
Cooling	Fan	2 (8cm/57CFM) + 1 (6cm/27.72CFM)	
	Air Filter	Yes	
Front I/O Interface	USB3.0	2	
Miscellaneous	LED Indicators	Power, HDD, LAN1, and LAN2	
	Rear Panel	Two 9-pin D-Sub	
Environment	Temperature	Operating 0 ~ 40 °C (32 ~ 122 °F)	Non-Operating -40 ~ 70 °C (-40 ~ 156 °F)
	Humidity	10 ~ 95% @ 40 °C, non-condensing	10 ~ 95% @ 60 °C, non-condensing
	Vibration (5 ~ 500 Hz)	1 Grms	2 G
	Shock	10 G (with 11 ms duration, half sine wave)	
Physical Characteristics	Dimensions (W x H x D)	426.4 x 132.2 x 480 mm (16.79" x 5.2" x 18.9")	
	Weight	12 kg	

Front View



Rear View



Inside View



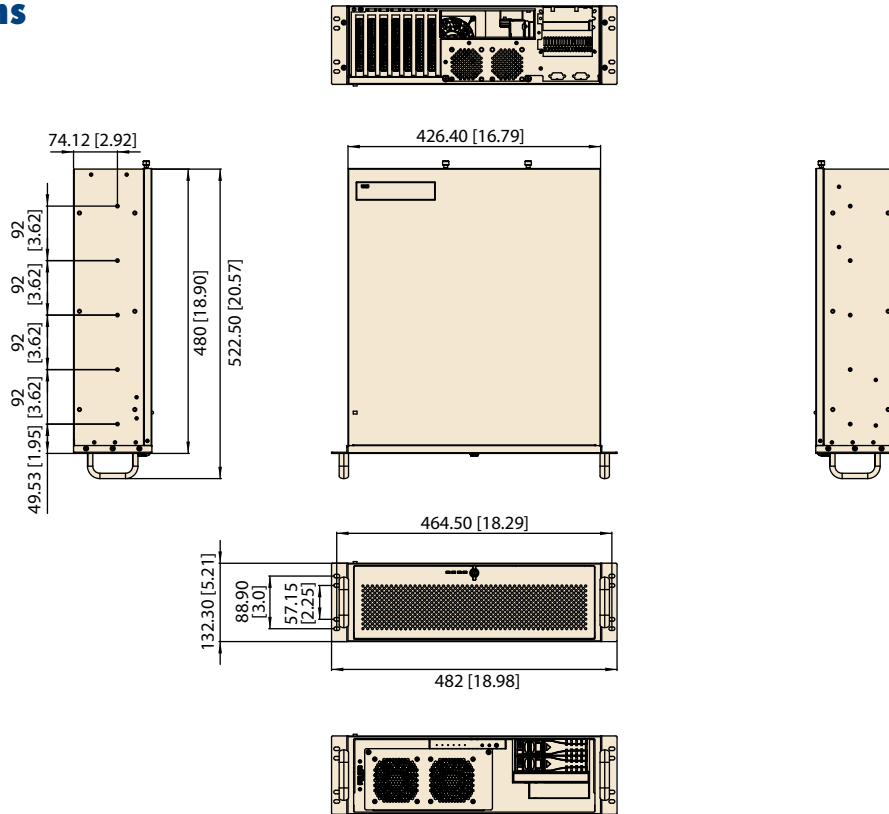
Rackmount View



HPC-7320

Dimensions

Unit: mm [inch]



Ordering Information

Part Number	Description
HPC-7320MB-00XE	Without PSU, with ATX switch

Packing List

Part Number	Description	Quantity
1960002043T001 & 1960004574T001	Wall mount bracket	1
1960061378T001	FATX power rear bracket	1
1960069262N001	1U power rear bracket	1
1990025044T000	Door filter	1
1750008101-01	8cm system fan	2

Note:

- HPC-7320 does not support AIMB-701, AIMB-780, AIMB-781, AIMB-782, AIMB-784.
- HPC-7320 does not support add-on cards which need to be connected to additional power cables from the top.

Power Supply Options

Part Number	80 Plus Grade	Wattage	Type	Input
PS8-350FATX-XE	Bronze	350W	Single	AC 100 ~ 240 V (full range)
PS8-500U2-XE	Bronze	500W	Single	AC 100 ~ 240 V (full range)
96PS-A700W1U	Bronze	700W	Single	AC 100 ~ 240V (full range)
RPS8-500U2-XE	Bronze	500W	(1+1) Redundant	AC 100 ~ 240 V (full range)
RPS8-700U2-XE	Gold	700W	(1+1) Redundant	AC 100 ~ 240 V (full range)

Optional Accessories

Part Number	Description
2130015257T000	CPU cooler box
9680006905	26" Slide Rail
96CB-SATAPOWER-6P2	SATA power wire 6-pin to big 4-pin (for slim ODD)
1700011592	Front dual USB2.0 cable
1750007769-01	8038mm High speed system fan for GPU server solution

HPC-7400

4U Compact Rackmount / Tower Chassis for EATX/ATX/MicroATX Motherboard



Features

- 4U compact industrial server chassis suitable for space-sensitive applications
- Supports EATX/ATX/MicroATX motherboard
- Shock-resistant 2 x 5.25" (front) + 2 x 3.5" int (rear) and optional 2 x 3.5" int. HDD bays
- Supports 80plus 1U single and 1+1 redundant higher watt power supply
- Front-accessible system fan without opening top cover
- Lockable front door with replaceable air filter prevents unauthorized access

CE FCC

Specifications

Drive Bay	5.25"	Front-accessible	Internal
	2.5" / 3.5"	2	-
Cooling	Fan	3 (8 cm / 57 CFM) PWM fans + optional 2 (6cm) rear fans	
	Air Filter	Yes	
Front I/O Interface	USB	2 (USB 3.0)	
Miscellaneous	LED Indicators	Power, HDD, LAN1 & LAN2	
	Control	Power switch and system reset button	
Environment	Temperature	Operating 0 ~ 40 °C (32 ~ 104 °F)	Non-Operating -40 ~ 60 °C (-40 ~ 140 °F)
	Humidity	10 ~ 95% @ 40 °C, non-condensing	10 ~ 95% @ 60 °C, non-condensing
	Vibration (5 ~ 500 Hz)	1 Grms	2 G
	Shock	10 G (with 11 ms duration, half sine wave)	
	Dimensions (W x H x D)	426 x 177 x 448 mm (16.7" x 7.0" x 17.6")	
Physical Characteristics	Weight	16 kg	

Front View



Rear View



With 700W single power supply



With 1400W redundant power supply

Inside View



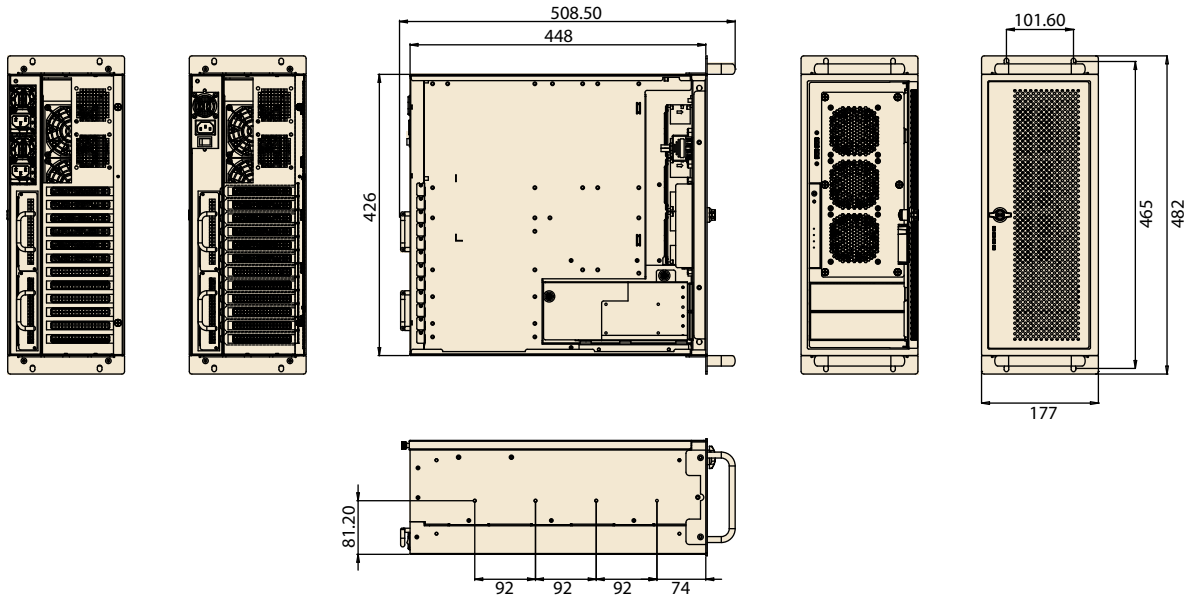
Tower View



HPC-7400

Dimensions

Unit: mm



Ordering Information

Part Number	Power Supply
HPC-7400MB-70A1E	With single 700W power supply, with ATX switch
HPC-7400MB-14A1E	With redundant 1+1 1400W power supply, with ATX switch

Packing List

Part Number	Description	Quantity
1990021256T000	Door filter	1
1750008101-01	8cm system fan	3
96PS-A700W1U	1U 700W single power supply, AC 100~240V (full range) (HPC-7400MB-70A1E only)	1
96PSRM-A1K4WMDU	1U 1400W 1+1 redundant power module, AC 100~240V (full range) (HPC-7400MB-14A1E only)	2
96PSR-1U-BKP-F1K4	1400W power distribution board for 96PSRM-A1K4WMDU (HPC-7400MB-14A1E only)	1

Optional Accessories

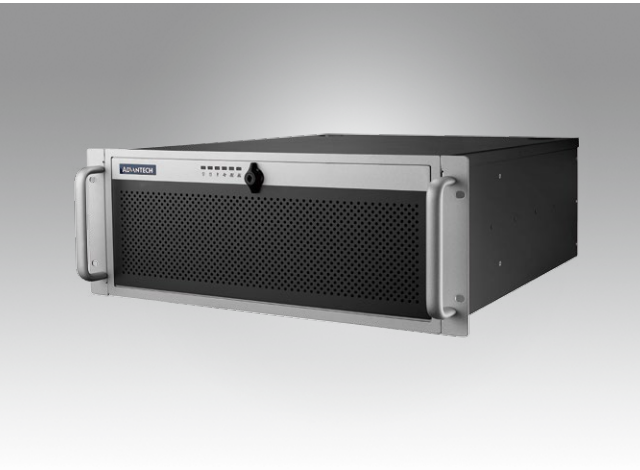
Part Number	Description
IPC-DT-5230E	Mobile rack for converting dual 5.25" drive bays to three 3.5" SAS/SATA HDD Trays
96RACK-5SS-CAGE-CR	Mobile rack for converting one 5.25" drive bays to four 2.5" SATA/SAS HDD Trays (Max. HDD height :15mm)
9892200013E	Module to convert one 5.25" drive bay to one slim ODD and one internal 3.5" drive bay
9680006905	26" Slide Rail
1700007032	Front dual USB 2.0 cable kit
1750007769-01	8038mm High speed system fan for GPU server solution

Note:

1. HPC-7400 does not support AIMB series motherboards.
2. HPC-7400 does not support add-on cards which need to be connected to additional power cables from the top.
3. HPC-7400 does not support 1960065684N001 due to mechanical limitations.

HPC-7442

4U Rackmount Chassis for EATX/ATX/MicroATX Motherboard with 4 Hot Swap Drive Trays



Features

- Supports EATX/ATX/MicroATX motherboard
- Shock-resistant disk drive bay provides four hot-swap 3.5" or 2.5" SAS/SATA disk trays, one slim optical disk drive, and one 3.5" internal drive
- With optional storage upgrade kit installed, system equipped up to eight hot-swap HDD trays for higher storage capacity requirement
- Supports 80plus single and redundant power supply
- Front-accessible system fan without opening top cover for easy maintenance
- LED indicators and alarm notification for system fault detection
- Built-in Intelligent system module enabling whole system fan control and remote manageability

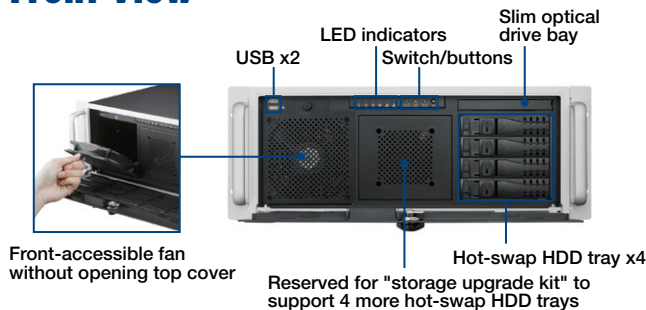
Quiet Specifications

CE FCC

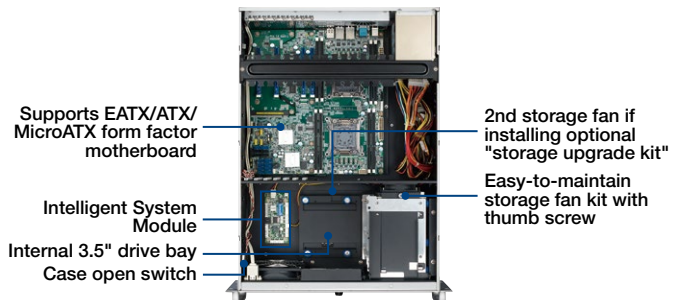
		External	Internal
Drive Bay	Slim Optical Drive 3.5"	1	-
	Hot Swap	-	1
Cooling	Fan*	4 SASII / SATAIII HDDs (support upgrade to 8)	
	Air Filter	1 (12 cm /114 CFM) + 1 (8 cm/55 CFM)	
Front I/O Interface	USB 2.0	2	
Miscellaneous	LED Indicators	Power, HDD, temperature, fan, LAN1, and LAN2	
	Rear Panel	Five 9-pin D-Sub and one 68-pin SCSI openings	
Intelligent System Module Remote Monitoring	CPU/System fan speed, CPU/System temperature, motherboard voltage (Only selected Advantech MBs/CPU cards with SUSIAccess installed can fully enable these functions, check with an Advantech local rep. for detailed information.)		
Environment	Temperature	Operating 0 ~ 40 °C (32 ~ 104 °F)	Non-Operating -40 ~ 70 °C (-40 ~ 156 °F)
	Humidity	10 ~ 95% @ 40 °C, non-condensing	10 ~ 95% @ 60 °C, non-condensing
	Vibration (5 ~ 500 Hz)	1 Grms	2 G
	Shock	10 G (with 11 ms duration, half sine wave)	
Physical Characteristics	Dimensions (W x H x D)	426 x 177 x 600 mm (16.7" x 7.0" x 23.6")	
	Weight	18.5 kg (40.68 lb)	

* While adding the optional "storage upgrade kit", the chassis will support four more front-accessible SAS/SATA drive trays and one more (8cm/55CFM) fan for SAS/SATA drives.

Front View



Inside View



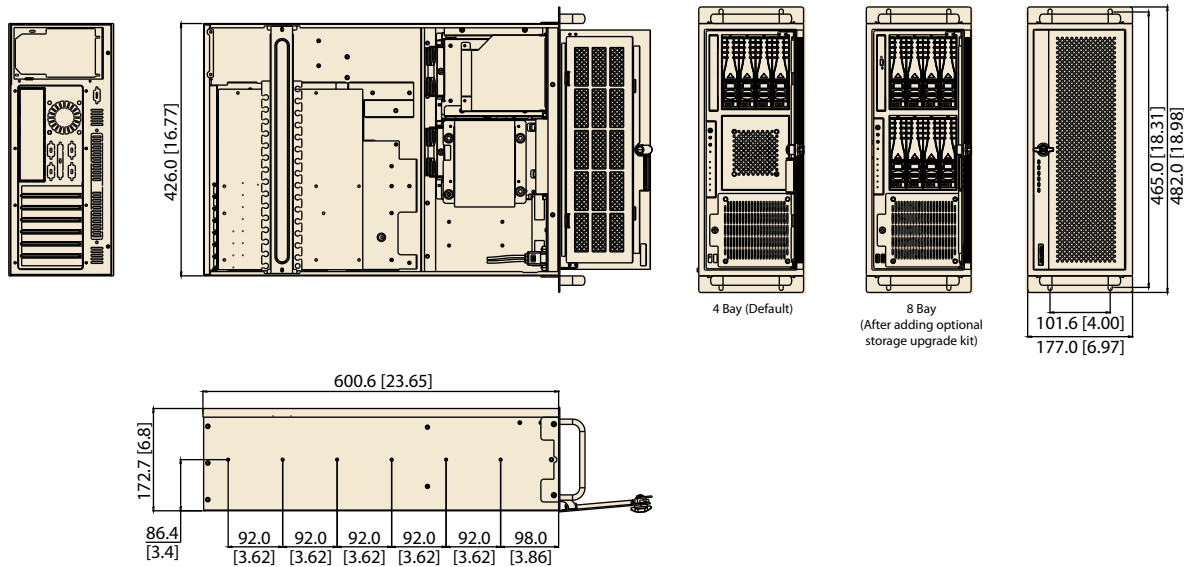
Upgrade Features



- 1 Software and Industry Solutions
- 2 Industrial Server
- 3 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

Dimensions

Unit: mm [inch]



Ordering Information

Part Number	Description
HPC-7442MB-00XE	Without PSU, with ATX switch

Packing List

Part Number	Description
9662132020E	Black mobile HDD tray
1990021256T000	Door filter

Power Supply Options

Part Number	80 Plus Grade	Wattage	Type	Input
PS8-400ATX-ZE	Bronze	400W	Single	AC 100 ~ 240 V (full range)
PS8-500ATX-ZE	Bronze	500W	Single	AC 100 ~ 240 V (full range)
PS8-700ATX-ZE	Bronze	700W	Single	AC 100 ~ 240 V (full range)
RPS8-500ATX-XE	Bronze	500W	(1+1) Redundant	AC 100 ~ 240 V (full range)
RPS8-750ATX-XE	Gold	750W	(1+1) Redundant	AC 100 ~ 240 V (full range)

Optional Accessories

Part Number	Description
98R2744200E	Storage Upgrade Kit
96CB-SATAPOWER-6P2	SATA power wire 6-pin to big 4-pin (for slim ODD)
96CB-SAS-SATA-4P1	Mini SAS to 4-port SATA Cable
989K008734	Internal 3.5" to two 2.5" HDD Frame
9680006905	26" Slide Rail

HPC-7483

4U Rackmount / Tower Chassis for EATX/ATX/MicroATX Motherboard



Features

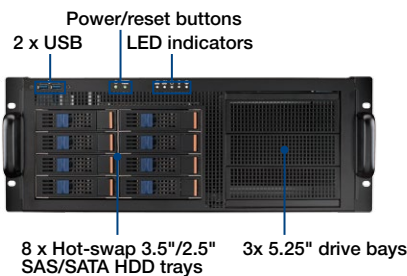
- Supports EATX/ATX/MicroATX motherboard
- Supports up to eight SATA3 or SAS3 hot-swap HDD
- With the optional storage upgrade kit installed, the system will support up to eleven hot-swap HDD trays for higher storage requirements
- Supports 80plus 1U 1+1 redundant high watt power supply
- Supports up to ten FH/FL expansion slots

CE FCC

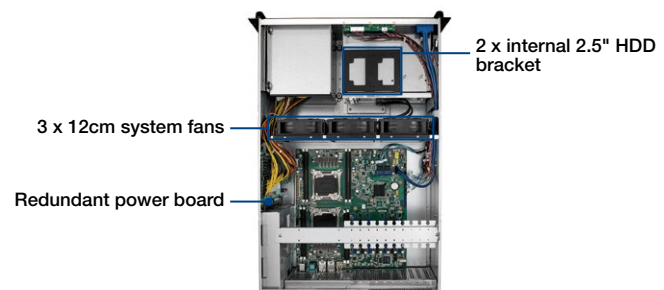
Specifications

		External	Internal
Drive Bay	5.25"	3	-
	3.5"	8*SATA 3/SAS 3 (2.5" HDD compatible)	-
	2.5"	-	2
Cooling	Fan*	3*12cm system fan in middle fan bar 2*8cm system fan in rear window (optional)	
	Air Filter	-	
Front I/O Interface	USB 3.0	2	
Miscellaneous	LED Indicators	Power, HDD, Information, LAN1, and LAN2	
	Rear Panel	Two PS/2 and two D-sub and two USB openings	
Environment		Operating	Non-Operating
	Temperature	0 ~ 40 °C (32 ~ 104 °F)	-40 ~ 70 °C (-40 ~ 156 °F)
	Humidity	10 ~ 95% @ 40 °C, non-condensing	10 ~ 95% @ 60 °C, non-condensing
	Vibration (5 ~ 500 Hz)	1 Grms	2 G
	Shock	10 G (with 11 ms duration, half sine wave)	
Physical Characteristics	Dimensions (W x H x D)	435 x 177 x 658 mm (19" x 7.0" x 26.5")	
	Weight	20 kg (44 lb)	

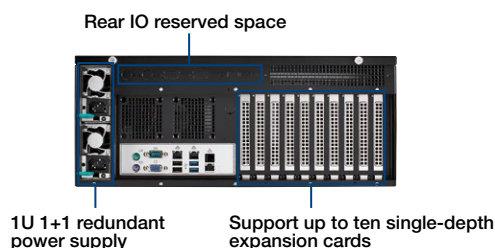
Front View



Inner View



Rear View



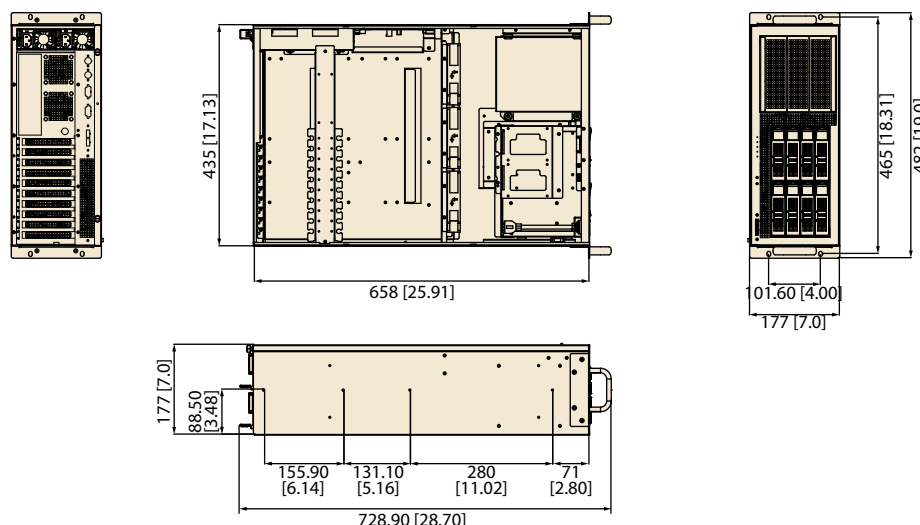
Tower View



- 1 Software and Industry Solutions
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- 3 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

Dimensions

Unit: mm [inch]



Ordering Information

Part Number	Description	Remark
HPC-7483-12RXE	With redundant 1+1 1200W power supply, with ATX switch	1000W @ 110V ; 1200W @ 220V
HPC-7483-20RX	With redundant 1+1 2000W power supply, with ATX switch	1000W @ 110V ; 2000W @ 220V

Packing List

Part number	Description	Quantity
1750008306-01	12cm system fan (Pre-installed)	3
9661831600E	3.5" HDD Trays (Pre-installed)	8
1700025828-01	PDB CN1 connector to MB 4pin or 8pin 12V connector of PCIe slot	1
1700019127	4P 2.54mm to 4P 2.54 Extend FAN connector	1

Optional Accessories

Cable request for optional device	Part number	Description	Quantity
5.25" to 3.5" Convert HDD kit	Refer to the P-Trade web site	Mobile rack for converting dual 5.25" drive bays to three 3.5" SAS/SATA HDD Trays	1
5.25" ODD or other SATA device	1700021733-01	SATA cable for optional ODD/HDD (65cm)	3
MB without RAID card	1700025861-01	SATA cable for optional ODD/HDD (65cm)	1
MB with SAS2 RAID card	1700025440-01	Mini SAS HD 8643 to 4 ports SATA Cable (50cm)	2
MB with SAS3 RAID card	1700025065-01	Mini SAS HD 8643 to Mini SAS (85cm)	2
The 2nd GPU card	1700025829-01	Mini SAS HD 8643 to Mini SAS HD 8643 (85cm)	2
The 3rd GPU card	1700025829-01	PDB 8P connector to 6+2 connector for GPU card (80cm)	2
The 4th GPU card	1700025829-01	PDB 8P connector to 6+2 connector for GPU card (80cm)	2
4 ports SATA HBA card	9691831620E	PDB 8P connector to 6+2 connector for GPU card (80cm)	2
	1700021733-01	ASS'Y HPC-8316 SATA HBA Rev.A1 01	1
		SATA cable for optional ODD/HDD (65cm)	4

Optional device	Part number	Description	Quantity
Rail kit	9680016858	3U/4U 26" slide kit (pair) for HPC-8316/7483	1
Rear window optional fan kit	98R1748300E	Rear window 8cm fan kit for high-watt expansion card solution	1
Internal air duct	98R1748310E	Air duct for HPC-7483 + ASMB-923 + 4*Double depth GPU cards	1
Rear IO KMBS port	1700019268-11	A Cable M-DIN 6P(F)*2/1*6P-2.5	1
Rear IO COM port	1701092300	Dual RS-232 COM port cable	1
Rear IO USB port	1700024532-01	USB 3.0 dual port cable	1
	1700017849	USB 2.0 dual port cable	1

HPC-8212

2U Storage Chassis for ATX/EATX Serverboard with 12 Hot-swap Drive Bays

NEW



Features

- 2U rackmount chassis supports EATX/ATX/uATX motherboard
- 12-bay hot-swappable 3.5"/2.5" SAS 12Gb/s drives or SATA 6Gb/s drives
- 4 x NVMe drives supported via an optional riser card
- Default 7x slots (low profile) rear panel, 3x slots (full height) optional
- Supports 80Plus redundant power supply

CE FCC

Specifications

		Front	Rear
Drive Bay	3.5"/2.5"	12 (Hot Swap)	-
	2.5"	-	2 (for R6A1E SKU)
Cooling	Fan	4 (8 cm)	-
	Air Filter	-	-
Front I/O Interface	USB	2	-
Miscellaneous	LED Indicators	LAN1, LAN2, HDD, Power, and Information LED	
Environment	Temperature	Operating 0 ~ 35 °C (32 ~ 95 °F)	Non-Operating -40 ~ 70 °C (-40 ~ 158 °F)
	Humidity	10 ~ 95% @ 40 °C, non-condensing	10 ~ 95% @ 60 °C, non-condensing
	Vibration (5 ~ 500 Hz)	0.25 Grms	2 G
	Shock	10 G (with 11 ms duration, half sine wave)	-
Physical Characteristics	Dimensions (W x H x D)	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")	
	Weight	25 kg (without hard drivers)	

Front View



Rear View

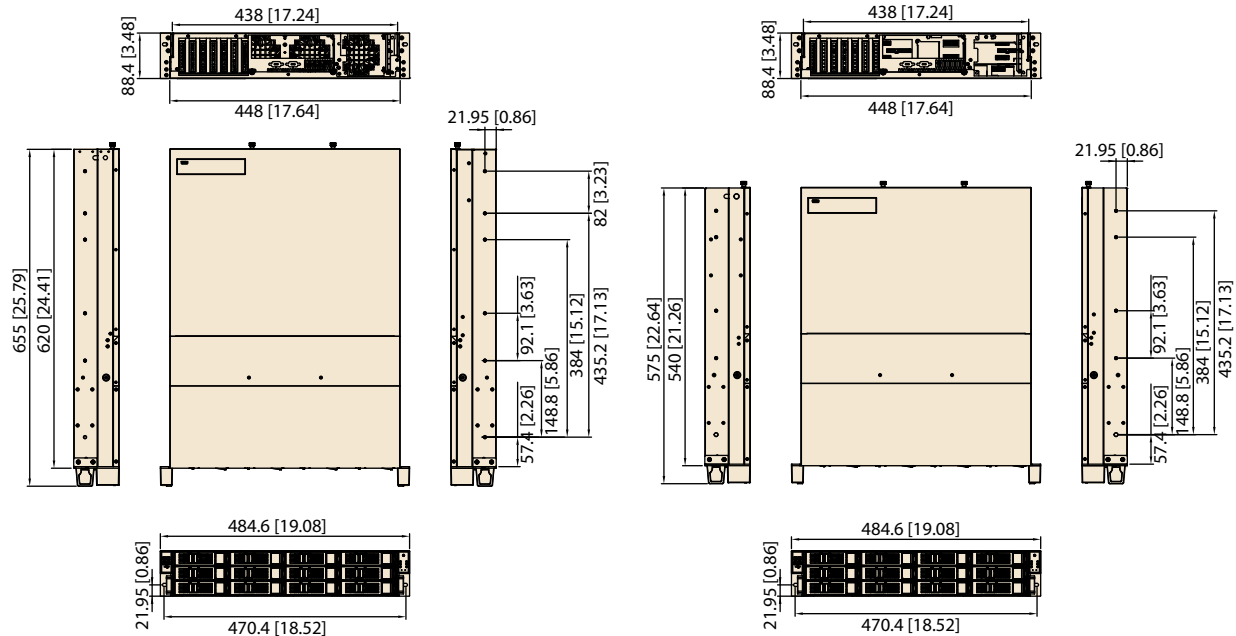


Optional full-height rear panel via
98R112SE00E & 98R112AE00E

1 Software and Industry Solutions
2 Industrial Server
3 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

Dimensions

Unit: mm [inch]



Ordering Information

Part Number	Chassis Depth	Built-in PSU	Front HDD Backplane	Rear HDDs (2 x 2.5")	Default Rail Kit	Motherboard Form-factor	Expansion Slots
HPC-8212SE-R8A1E	620mm	RPSU 800W	SAS12Gb/s	-	26"	EATX, ATX, uATX	x6* Low Profile
HPC-8212SE-R6A1E	620mm	RPSU 650W	SAS12Gb/s	Hot-swap	26"	EATX, ATX, uATX	x6* Low Profile
HPC-8212SA-R5A1E	540mm	RPSU 550W	SAS12Gb/s	-	22"	ATX, uATX	x6* Low Profile

Note: one slot will be occupied by SAS RAID card

Packing List

Part Number	Description	Quantity
9680017208	22" Slide Rail Kit for HPC-8212SA	1
9680017207	26" Slide Rail Kit for HPC-8212SE	1

Optional Accessories

Part Number	Description
98R112SE00E*	Rear Panel kit of Full-Height x3 slots for SE SKU
98R112SA00E*	Rear Panel kit of Full-Height x3 slots for SA SKU
9891821200E	PCIe x16 Riser card for 4-port NVMe drives
1700025064-01	Internal SAS cable (12G) SFF8643 to SFF8643, 60cm
1700025439-01	Internal SAS cable (6G) SFF8643 to SFF8087, 60cm
ASR-1000K-00A1E	JBOD module for SA SKU

Note: an additional ASMB riser card is required.

HPC-8104

1U Storage Chassis for MicroATX/ATX Serverboard with 4 Hot-swap Drive Bays

NEW



Features

- 1U rackmount chassis support ATX/uATX motherboard
- 4-bay hot-swappable 3.5"/2.5" SATA/SAS/SSD drive bays with ultra slim ODD
- Anti-vibration FAN design
- Two front USB3.0 ports

CE FCC

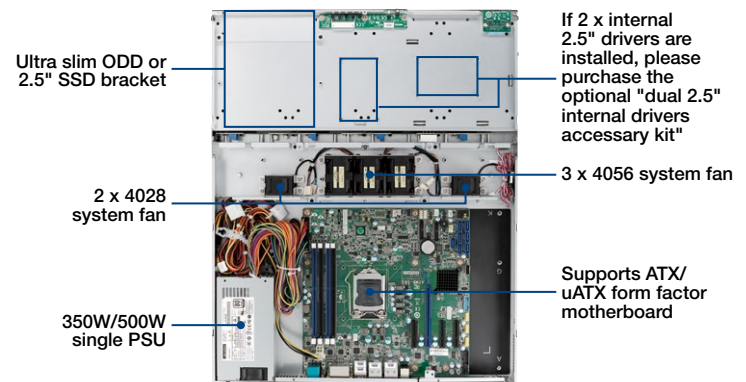
Specifications

		External	Internal
Drive Bay	Slim Optical Drive	1 (Ultra Slim Type Only)	-
	3.5"/2.5"	4 (Hot Swap)	-
	2.5"	-	2 or 3 (optional)
Cooling	Fan	3 (4056/34CFM) + 2 (4028/23CFM) high speed fan	
	Air Filter	-	
Front I/O Interface	USB	2 x USB3.0	
Miscellaneous	LED Indicators	LAN1, LAN2, HDD, Power, and Information LED	
Environment	Temperature	Operating 0 ~ 35 °C (32 ~ 95 °F)	Non-Operating -40 ~70 °C (-40 ~158 °F)
	Humidity	10 ~ 95% @ 40 °C, non-condensing	10 ~ 95% @ 60 °C, non-condensing
	Vibration (5 ~ 500 Hz)	0.25 Grms	2 G
	Shock	10 G (with 11 ms duration, half sine wave)	
Physical Characteristics	Dimensions (W x H x D)	438 x 43.9 x 530 (17.24" x 1.73" x 20.87")	
	Weight	9 kg (without hard drivers)	

Front View



Top View

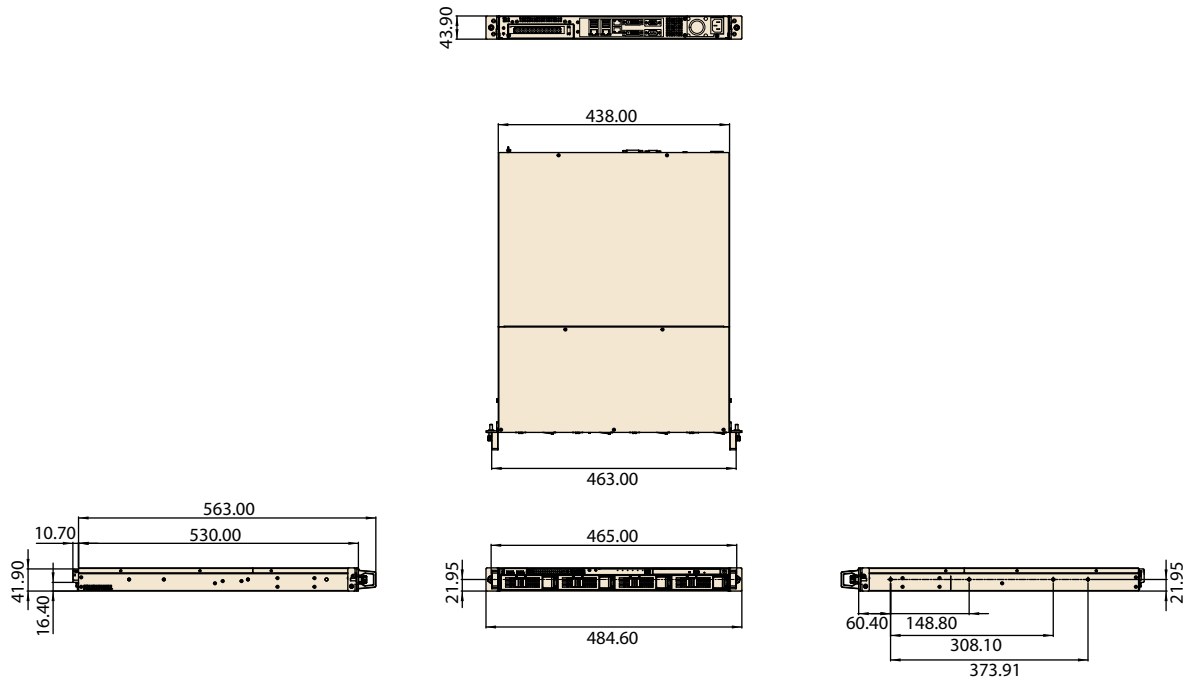


Rear View



Dimensions

Unit: mm



Ordering Information

Part Number	Built-in PSU	Front HDD Backplane without Expander
HPC-8104TA-35A1E	Single ATX 350W	SATA 6Gb/s
HPC-8104SA-50A1E	Single ATX 500W	SAS 12Gb/s

Packing List

Part Number	Description	Quantity
9680017208	22" Slide Rail Kit	1
9661831600E	3.5" HDD Trays (Pre-installed)	4
1700019127	4Pin extended FAN Cable (Accessory Box)	5
1700021733-01	SATA cable for HDD (65cm) (Only pre-installed in HPC-8104TA-35A1E)	2
1700021735-01	SATA cable for HDD (55cm) (Only pre-installed in HPC-8104TA-35A1E)	2
1750007501-01	40 x 40 x 56 System Fan (Pre-installed)	3
1750006764-01	40 x 40 x 28 System Fan (Pre-installed)	2
96PS-A350WFX-2	Single ATX 350W PSU (Only pre-installed in HPC-8104TA-35A1E)	1
TBD	Single ATX 500W PSU (Only pre-installed in HPC-8104SA-50A1E)	1

Optional Accessories

Part Number	Description
1700026158-01	Type-Y of system fan cable (4-pin)
1700003194	SATA ODD data cable
96CB-SATAPOWER-6P2	SATA ODD power cable
AIMB-RF10F-01A1E	1U riser card with 1 PCIe x16 expansion
1750007593-01	4028mm high speed system fan (61dB/28CFM)
98R18104000	HPC-8104 dual 2.5" internal drives accessory kit
1700025064-01	Internal SAS cable (12G) SFF8643 to SFF8643, 60cm
1700025439-01	Internal SAS cable (6G) SFF8643 to SFF8087, 60cm

HPC-8224

2U Storage Chassis for ATX/EATX Serverboard with 24 Hot-swap Drive Bays

NEW



Features

- 2U rackmount chassis supports EATX/ATX/uATX motherboard
- 24-bay hot-swappable 2.5" SAS 12Gb/s drives or SATA 6Gb/s drives
- 4 x NVMe drives supported via an optional riser card
- Default 7x slots (low profile) rear panel, 3x slots (full height) optional
- Supports 80Plus redundant power supply

CE FCC

Specifications

Drive Bay	2.5"	Front	Rear
		24 (Hot Swap)	-
Cooling	Fan	4 (8 cm)	
	Air Filter	-	
Front I/O Interface	USB	2	
Miscellaneous	LED Indicators	LAN1, LAN2, HDD, Power, and Information LED	
Environment	Temperature	Operating 0 ~ 35 °C (32 ~ 95 °F)	Non-Operating -40 ~ 70 °C (-40 ~ 158 °F)
	Humidity	10 ~ 95% @ 40 °C, non-condensing	10 ~ 95% @ 60 °C, non-condensing
	Vibration (5 ~ 500 Hz)	0.25 Grms	2 G
	Shock	10 G (with 11 ms duration, half sine wave)	
Physical Characteristics	Dimensions (W x H x D)	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")	
	Weight	25 kg (without hard drivers)	

Front View



Rear View

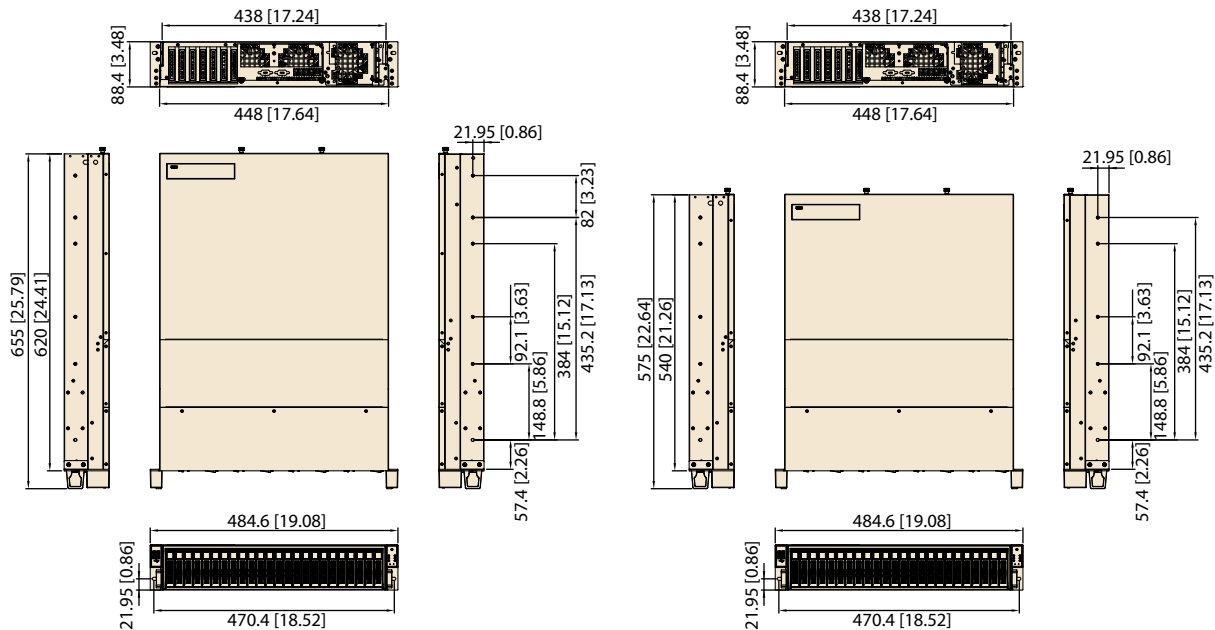


Optional full-height rear panel via
98R112SE00E & 98R112AE00E

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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

Dimensions

Unit: mm [inch]



Ordering Information

Part Number	Chassis Depth	Built-in PSU Configuration	Front HDD Backplane	Rear HDDs (2 x 2.5")	Default Rail Kit	Motherboard Form-factor	Expansion Slots
HPC-8224SE-R8A1E	620mm	RPSU 800W	SAS12Gb/s	-	26"	EATX, ATX, uATX	x6* Low Profile
HPC-8224SA-R5A1E	540mm	RPSU 550W	SAS12Gb/s	-	22"	ATX, uATX	x6* Low Profile

Note: one slot will be occupied by SAS RAID card

Packing List

Part Number	Description	Quantity
9680017208	22" Slide Rail Kit for HPC-8224SA	1
9680017207	26" Slide Rail Kit for HPC-8224SE	1

Optional Accessories

Part Number	Description
98R112SE00E*	Rear Panel kit of Full-Height x3 slots for SE SKU
98R112SA00E*	Rear Panel kit of Full-Height x3 slots for SA SKU
9891821200E	PCIe x16 Riser card for 4-port NVMe drives
1700025064-01	Internal SAS cable (12G) SFF8643 to SFF8643, 60cm
1700025439-01	Internal SAS cable (6G) SFF8643 to SFF8087, 60cm
ASR-1000K-00A1E	JBOD module for SA SKU

Note: an additional ASMB riser card is required

HPC-8316

3U Storage Chassis for ATX/EATX Serverboard with 16 Hot-swap Drive Bays

NEW



Features

- 3U rackmount chassis supports EATX/ATX/uATX motherboard
- 16-bay hot-swappable 3.5"/2.5" SAS 12Gb/s drives or SATA 6Gb/s drives
- Supports 2 hot-swappable 2.5" drive bays at the rear for SAS SKUs
- Eliminates the need for an additional HBA card for SATA SKUs
- Supports 80Plus redundant power supply

Quiet Specifications

CE FCC

		Front	Rear
Drive Bay	3.5/2.5"	16 (hot swappable)	-
	2.5"	-	2
Cooling	Fan	4 (8 cm)	
	Air Filter	-	
Front I/O	USB 3.0	2	
Miscellaneous	LED Indicators	LAN1, LAN2, HDD, Power, and Information	
Environment		Operating	Non-Operating
	Temperature	0 ~ 35 °C (32 ~ 95 °F)	-40 ~ 70 °C (-40 ~ 158 °F)
	Humidity	10 ~ 95% @ 40 °C, non-condensing	10 ~ 95% @ 60 °C, non-condensing
	Vibration	0.25 Grms, 5 ~ 500 Hz	2 Grms, 5 ~ 500 Hz
	Shock	10 G (with 11 ms duration, half sine wave)	
Physical Characteristics	Dimensions (W x H x D)	435 x 132 x 620 mm (17.13" x 5.2" x 24.41") / 435 x 132 x 540 mm (17.13" x 5.2" x 21.26")	
	Weight	28 kg (without hard drives)	

Front View



Rear View



HPC-8316SE-R8A1E, HPC-8316SA-R5A1E



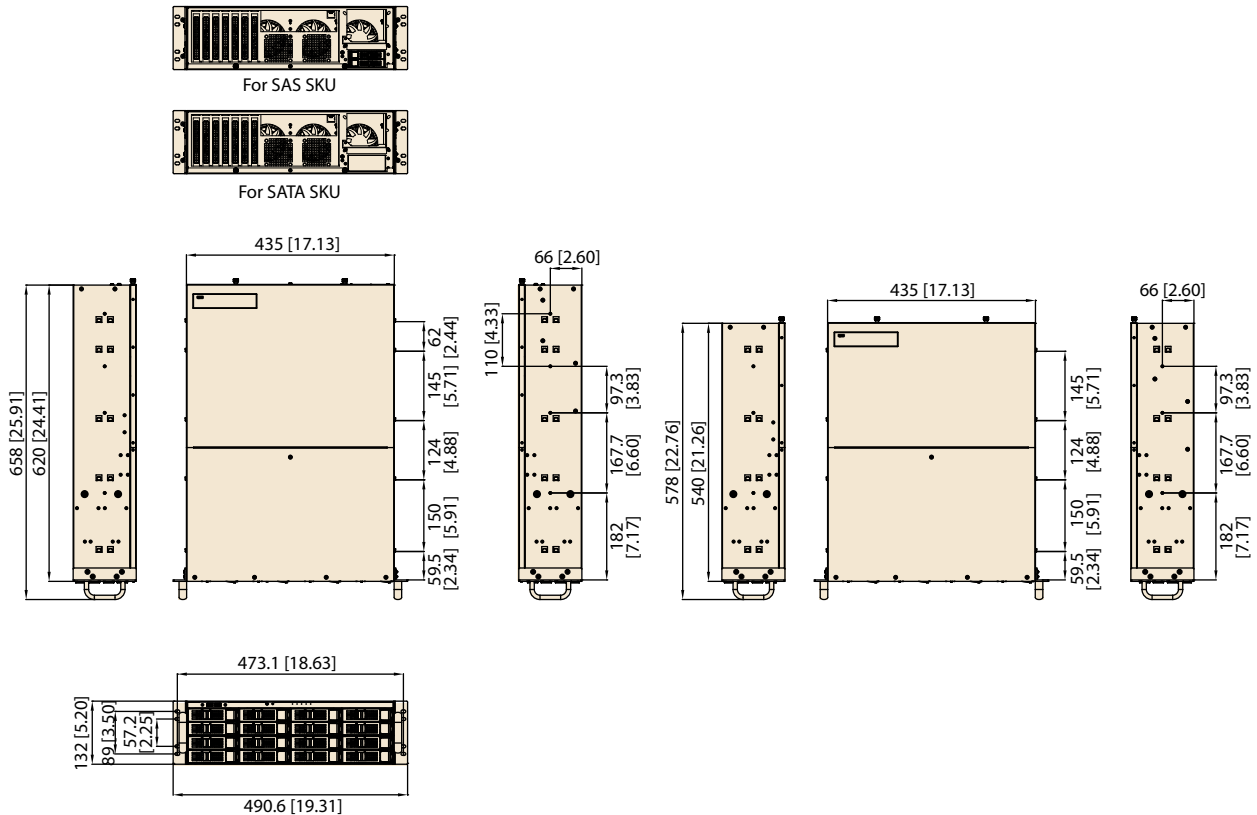
HPC-8316TE-00A1E, HPC-8316TA-00A1E

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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

HPC-8316

Dimensions

Unit: mm [inch]



Ordering Information

Part Number	Chassis Depth	Built-in PSU Configuration	Front HDD Backplane	Rear HDDs (2 x 2.5")	Default Rail Kit	Motherboard Form-factor	Expansion Slots
HPC-8316SE-R8A1E	620mm	RPSU 800W	SAS12Gb/s	Hot-Swap	26"	EATX, ATX, uATX	x6 ¹ Full Height
HPC-8316SA-R5A1E	540mm	RPSU 550W	SAS12Gb/s	Hot-Swap	26"	ATX, uATX	x6 ¹ Full Height
HPC-8316TE-00A1E	620mm	-	SATA6Gb/s	Internal	26"	EATX, ATX, uATX	x6 ² Full Height
HPC-8316TA-00A1E	540mm	-	SATA6Gb/s	Internal	26"	ATX, uATX	x6 ² Full Height

Note 1: One slot will be occupied by SAS Raid card.

Note 2: One slot will be occupied by Advantech proprietary SATA HBA card.

Power Supply Options

Part Number	80 Plus Grade	Description
96PSR-A800WCR	Platinum	Redundant (1+1) 800W for HPC-8316TE
96PSR-A550W2U	Silver	Redundant (1+1) 550W for HPC-8316TA
PS8-500U2-XE	Bronze	Single 500W SPS for HPC-8316TA

Optional Accessories

Part Number	Description
1700025064-01	Internal SAS cable (12G) SFF-8643 to SFF-8643, 60 cm
1700025065-01	Internal SAS cable (12G) SFF-8643 to SFF-8643, 85 cm
1700025439-01	Internal SAS cable (6G) SFF-8643 to SFF-8087, 60 cm
1700025440-01	Internal SAS cable (6G) SFF-8643 to SFF-8087, 85 cm
ASR-1000K-00A1E	JBOD module for SA SKU

Packing List

Part Number	Description	Quantity
9680016858	Slide Rail Kit	1

HPC-8424

4U Storage Chassis for ATX/EATX Serverboard with 24 Hot-swap Drive Bays

NEW



Features

- 4U rackmount chassis supports EATX/ATX/uATX motherboard
- 24-bay hot-swappable 3.5"/2.5" SAS 12Gb/s drives or SATA 6Gb/s drives
- 4 x NVMe drives supported via an optional riser card
- Supports 2 hot-swappable 2.5" drive bays at the rear
- Supports 80Plus redundant power supply

CE FCC

Specifications

		Front	Rear
Drive Bay	3.5"/2.5"	24 (Hot-Swap)	-
	2.5"	-	2
Cooling	Fan	4 (8 cm)	
	Air Filter	-	
Front I/O Interface	USB	2	
Miscellaneous	LED Indicators	LAN1, LAN2, HDD, Power, and Information LED	
Environment	Temperature	Operating 0 ~ 35 °C (32 ~ 95 °F)	Non-Operating -40 ~70 °C (-40 ~158 °F)
	Humidity	10 ~ 95% @ 40 °C, non-condensing	10 ~ 95% @ 60 °C, non-condensing
	Vibration (5 ~ 500 Hz)	0.25 Grms	2 G
	Shock	5 G (with 11 ms duration, half sine wave)	
Physical Characteristics	Dimensions (W x H x D)	438 x 176 x 620 mm (17.24" x 6.93" x 24.41") / 438 x 176 x 540 mm (17.24" x 6.93" x 21.26")	
	Weight	31 kg (without hard drivers)	

Front View



Rear View

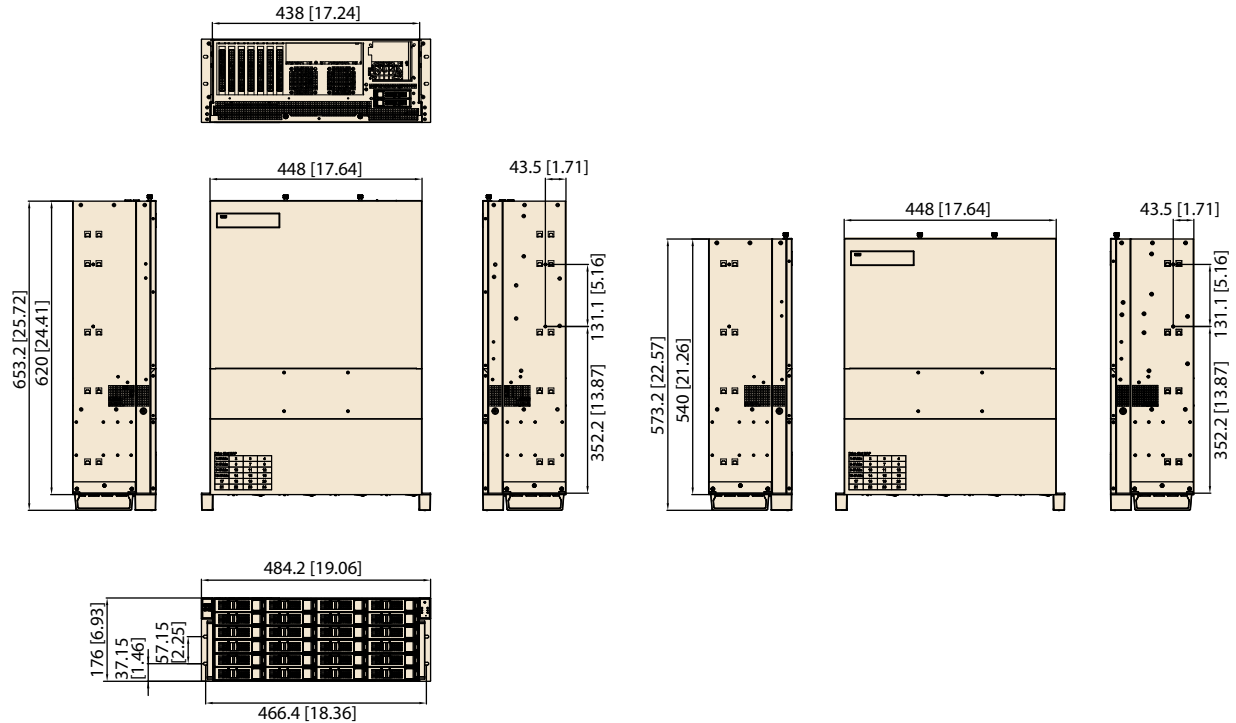


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Software and Industry Solutions
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Intelligent HMI and Monitors
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Automation Computers and Controllers
6
Industrial Communication
7
Remote I/O Modules
8
Industrial I/O and Video Solutions

HPC-8424

Dimensions

Unit: mm [inch]



Ordering Information

Part Number	Chassis Depth	Built-in PSU Configuration	Front HDD Backplane	Rear HDDs (2 x 2.5")	Default Rail Kit	Motherboard Form-factor	Expansion Slots
HPC-8424SE-R8A1E	620mm	RPSU 800W	SAS12Gb/s	Hot-Swap	26"	EATX, ATX, uATX	x6* Full Height
HPC-8424SA-R5A1E	540mm	RPSU 550W	SAS12Gb/s	Hot-Swap	26"	ATX, uATX	x6* Full Height

Note: one slot will be occupied by an SAS RAID card.

Packing List

Part Number	Description	Quantity
9680017375	26" Slide Rail Kit	1

Optional Accessories

Part Number	Description
9891821200E	PCIe x16 Riser card for 4-port NVMe drives
1700025064-01	Internal SAS cable (12G) SFF8643 to SFF8643, 60cm
1700025439-01	Internal SAS cable (6G) SFF8643 to SFF8087, 60cm
ASR-1000K-00A1E	JBOD module for SA SKU

ASR-1000K

Flexible Expansion Module Fulfilling Various JBOD Demands



Features

- Two Mini-SAS HD (SFF-8644) host ports
- Supports 12Gbps SAS protocol
- SES enclosure management & smart fan control
- Storage daisy chain & maximum 72 SAS/SATA HDDs
- Flexibly leverage HPC-8000 series chassis to build JBOD subsystems

Specifications

System	Form Factor	I/O module	
	Back Panel I/O Port	2 mini-SAS HD (SFF-8644)	
	Internal I/O Connector	2 mini-SAS HD (SFF-8643)	
	SAS Interlink	2 SAS 12Gbps cables	
	Smart Fan Control	Yes	
	Storage Daisy Chain	Yes, up to 72 drives	
Mechanical	Dimension (W x H x D)	175 x 53.2 x 181.77 mm (6.8" x 2" x 7.1")	
	Weight	500g	
Environment	Temperature	Operating	Non-operating
		System: 0 ~ 35 °C	-40 ~ 85 °C
	Humidity	Board: 0 ~ 40 °C	
Misc	Notification LED	10% ~ 95% (Non condensing)	
	Button	Power LED, System Alert LED, FAN Fault LED, Overheat LED	
		Power button, Mute Button	

I/O View



Top View



Ordering Information

Part Number	Description
ASR-1000K-00A1E	JBOD kit for enclosure expansion function

Packing List

Part Number	Description	Quantity
1700025064-01	Mini-SAS HD (SFF-8643) to mini-SAS HD (SFF-8643) 60cm cable	2

Optional Accessories

Part Number	Description
1700025067-01	Mini-SAS HD (SFF-8644) to mini-SAS HD (SFF-8644) 150cm cable
1700025066-01	Mini-SAS (SFF-8088) to mini-SAS HD (SFF-8644) 150cm cable

Compatible Enclosures

Part Number	Description
HPC-8316SA-R5A1E	3U-16 bay short-depth storage chassis
HPC-8212SA-R5A1E	2U-12 bay short-depth storage chassis
HPC-8224SA-R5A1E	2U-24 bay short-depth storage chassis
HPC-8424SA-R5A1E	4U-24 bay short-depth storage chassis

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Software and Industry Solutions

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Intelligent System

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Intelligent HMI and Monitors

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Automation Computers and Controllers

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Industrial Communication

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Remote I/O Modules

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Industrial I/O and Video Solutions