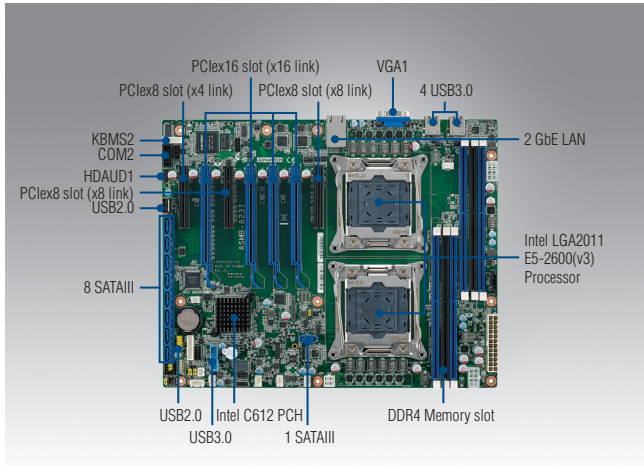


ASMB-823

**Dual LGA 2011-R3 Intel® Xeon® E5-2600 v3
ATX Server Board with DDR4, 4 PCIe x16, 6
USB 3.0, SATA3, Dual LAN, IPMI 2.0**



Features

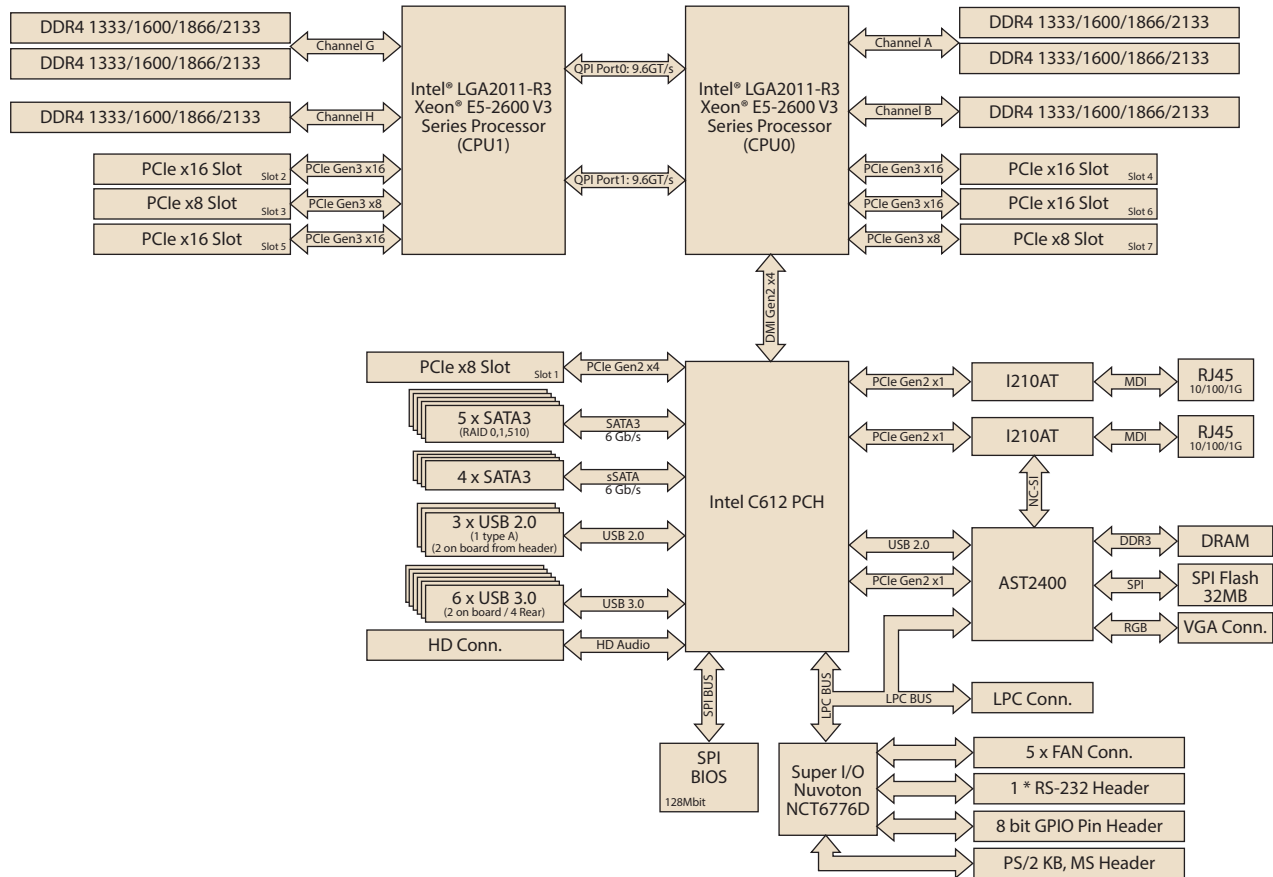
- ATX Server Board with dual Xeon® E5-2600 v3 processor
- DDR4 2133 MHz RDIMM up to 192 GB
- Four PCIe x16 slots (Gen3), two PCIe x8 (Gen3) and one PCIe x4 (Gen2) slots
- Nine SATA3 ports and six USB 3.0 ports
- 0 ~ 40° C ambient operation temperature range



Specifications

Form Factor	ATX form factor					
Processor System	Socket	Intel LGA 2011-R3				
	CPU type	Intel® Xeon® E5-2600 v3 dual processor (CPU cooler should be purchased separately and TDP up to 160W) Intel® Xeon® E5-1600 v3 Series (1S conditional support, please contact to Advantech application engineer)				
Core Logic	Chipset	Intel C612 chipset				
	Total slots	6 (Quad Channel)				
Memory	Capacity	Maximum 192 GB ECC RDIMM				
	Memory type	DDR4 ECC-REG 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	1 x PCIe x8 slot (x4 link), signal from PCH				
	Slot location 2	1 x PCIe x16 slot (x16 link), signal from CPU1				
	Slot location 3	1 x PCIe x8 slot (x8 link), signal from CPU1				
	Slot location 4	1 x PCIe x16 slot (x16 link), signal from CPU0				
	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				
Graphics	VGA	Aspeed AST2400/1400 64 MB				
	IDE controller	-				
Storage	SATA controller	Intel C610: 9 SATA3 6 Gb/s ports Intel Matrix Storage (for Windows only) (SATA0-SATA4 supports software RAID 0, 1, 10 & 5)				
	SAS controller	-				
Networking	GbE LAN	2 x Intel I210AT				
Onboard I/O Connectors	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				
	External serial port	-				
Rear I/O Connectors	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	5V	12V	5Vsb	-12V
		1.67A	0.85A	18.11A	0.05A	0.004A
Environment	Operating	Non-operating				
		-40 ~ 85° C				
		Humidity				
10% ~ 90%		10% ~ 95% (Non condensing)				
Physical Characteristics	Dimensions	304.8 x 244 mm (12" x 9.6")				

Block Diagram



Ordering Information

Part Number	Chipset	Memory	GbE LAN	IPMI	VGA Chip
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
2066823100	Driver CD	x 1
2006823110	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

Optional Accessories

Part Number	Description
PCA-AUDIO-HDA1E	HD Audio-card
PCA-TPM-00A1E	TPM Module
1960057226N001	LGA2011 square CPU heatsink for 1U chassis (95W)
1960055362N001	LGA2011 square CPU cooler for 2U/4U chassis (145W)
1960065684N001	LGA2011 square CPU cooler for 4U chassis (160W)
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 with bracket
19Z0000806T000	For 1U chassis IO shield
1700019127	FAN connector extended cable 1*4P-2.54/1*4P-2.54 35cm

I/O View



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

HPC-7282

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



CE FCC

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

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 (Lockable)
	3.5" (internal)	2
	2.5" (hot-swappable)	Optional
Cooling	2.5" (internal)	-
	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 Temperature	0 ~ 40° C (32 ~ 104° F)
	Non-Operating Temperature	-40 ~ 70° C (-40 ~ 158° F)
	Humidity	10 ~ 85% @ 40° C non-condensing
Physical Characteristics	Vibration (5-500 Hz)	0.25Grms
	Dimensions (W x H x D)	437 x 88.9 x 533.4 mm (17.2" x 3.5" x 21")

Front View

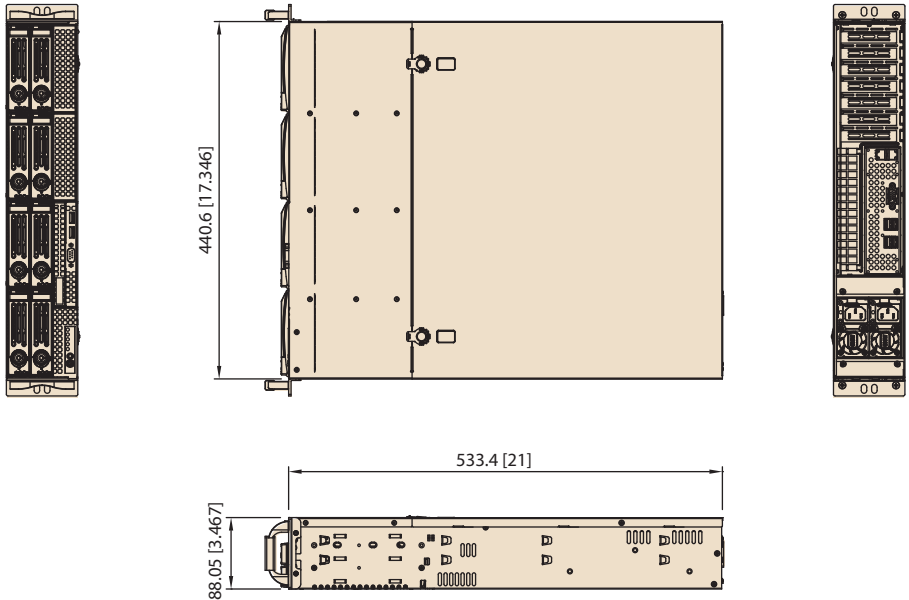


Rear View



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	Cable mini SAS to 4-port SATA*
96CB-SATAPOWER-6P1	SATA POWER ADAPTER 6PIN 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:
 1. When using add-on RAID card with mini-SAS connector(s), purchasing 96CB-SAS-SAS-0.8 cable is a MUST, single port RAID card needs 1 piece, dual port needs 2 pieces
 2. HPC-7282 does not support AIMB-701, AIMB-780, AIMB-781, AIMB-782, AIMB-784