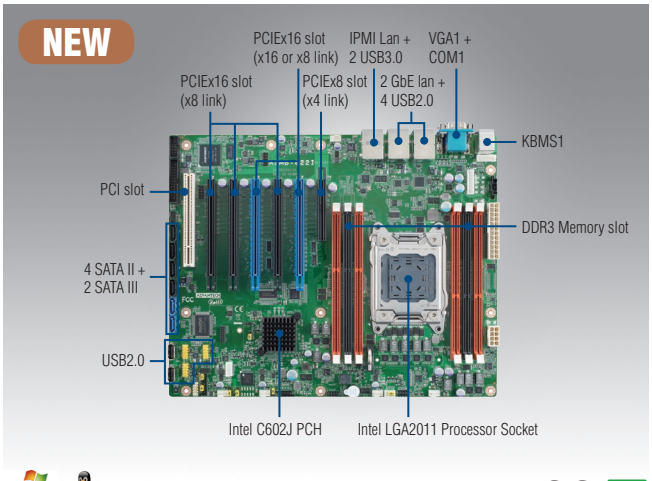
ASMB-822

Intel® LGA2011 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 operation temperature range

Software APIs: SMBus, H/W Monitor, Watchdog

Utilities: Monitoring

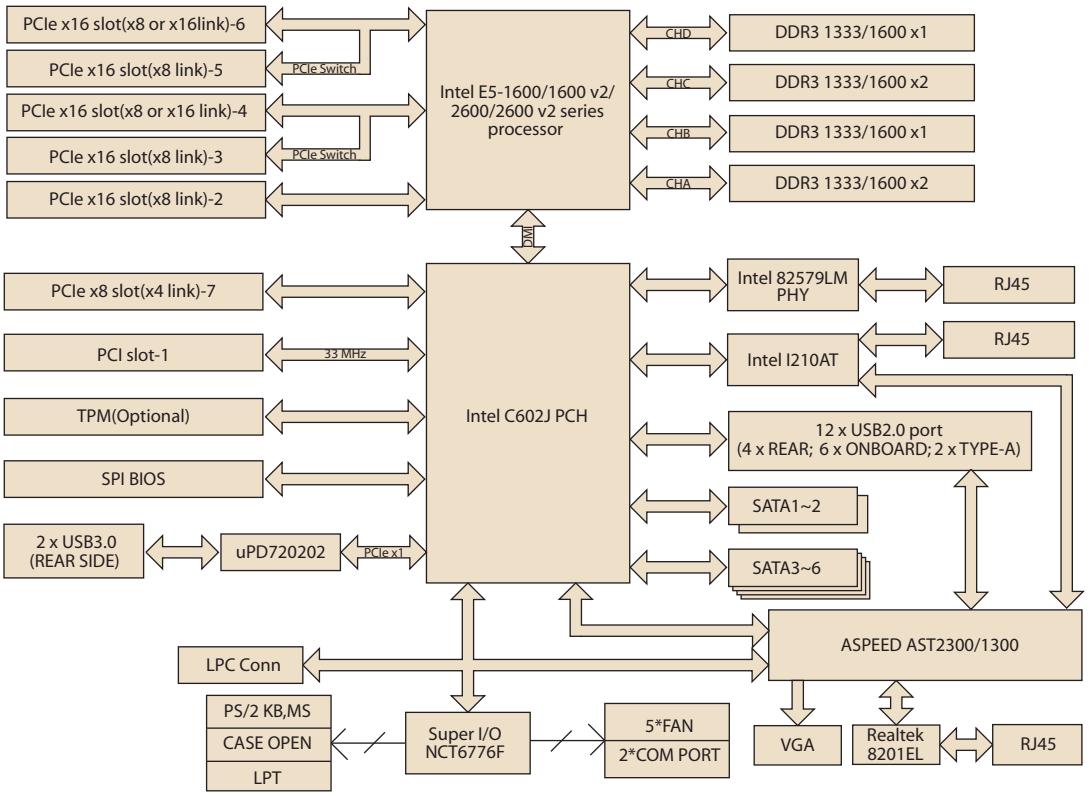
Specifications

Form Factor		ATX form factor				
Processor System	Socket	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 Connectors	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				
Rear I/O Connectors	External serial port	1				
	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	5 Vsb	-12 V
		13.69 A	7.77 A	33.48 A	2 A	0.5 A
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	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.

All product specifications are subject to change without notice

Block Diagram



Ordering Information

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

Bracket View

ASMB-822I-00A2E

ASMB-822-00A2E

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	I/O shield	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 heatsink (TDP up to 130W)
1960063011N001	ASMB-822I 2U/4U CPU cooler (TDP up to 130W)
ASMB-RF3X8-21A1E	2U Riser Card (2 x PCI-X + 1 x PCIe x8)
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

Mouser Electronics

Authorized Distributor

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Advantech:
1960060221N001