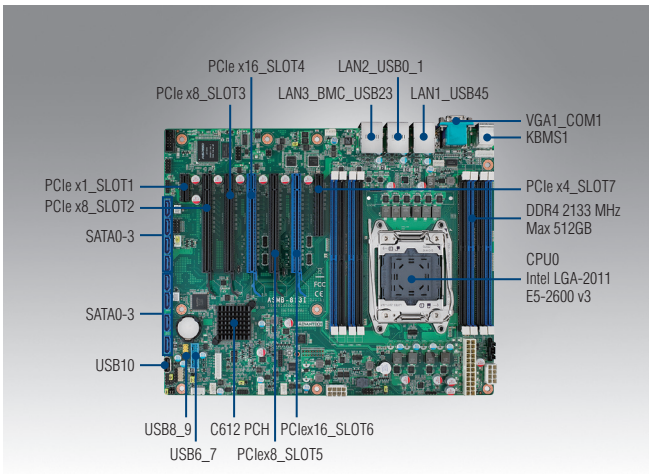
ASMB-813

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



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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

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)				
	Slot location 7	PCIe x8 slot (Gen2 x4 link), signal from PCH				
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-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				
Rear I/O Connector	External serial port	1				
	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
	120W CPU@2.5GHz DDR4 2133 4GB x8	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	
	Humidity	10% ~ 95%			10% ~ 95% (Non condensing)	
Physical Characteristics	Dimension (L x H)	304.8 x 244 mm (12" x 9.6")				

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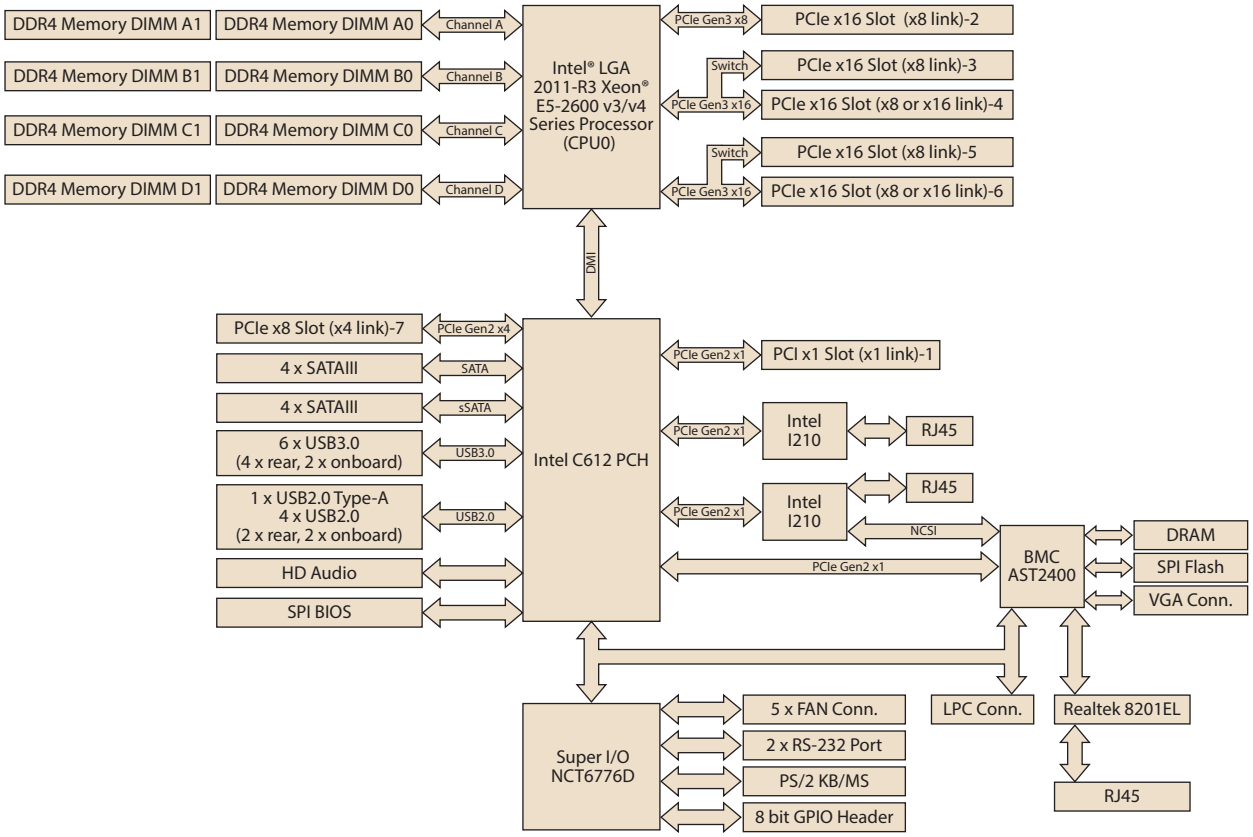
All product specifications are subject to change without notice.

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 160W)
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
19Z0000811N000	1U chassis IO shield
968EMLSAP2	SUSIAccess Pro 3.0

I/O View

ASMB-813-00A1E

ASMB-813I-00A1E