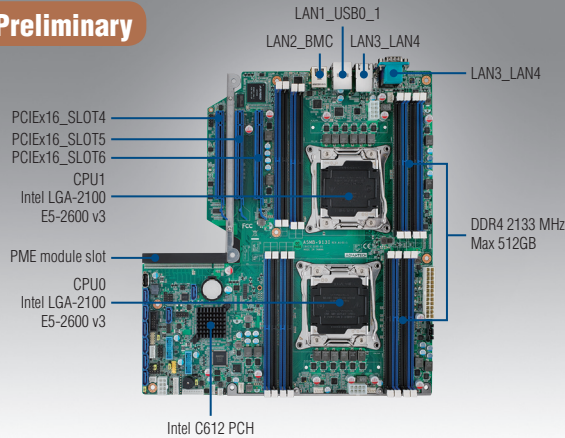


# ASMB-913

**Dual LGA 2011-R3 Intel Xeon® E5-2600 v3  
EATX Server Board with 16 x DDR4 DIMM,  
3 PCIe x16, 6 USB 3.0, PME support**

**Preliminary**



## Features

- EATX Server Board with dual Xeon® E5-2600 v3 processor
- 16 x DDR4 2133 MHz RDIMM up to 512 GB
- Three PCIe x16 slot (Gen3.0) and PME expansion slot
- 0 ~ 40° C ambient operation temperature range

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

### Software APIs:



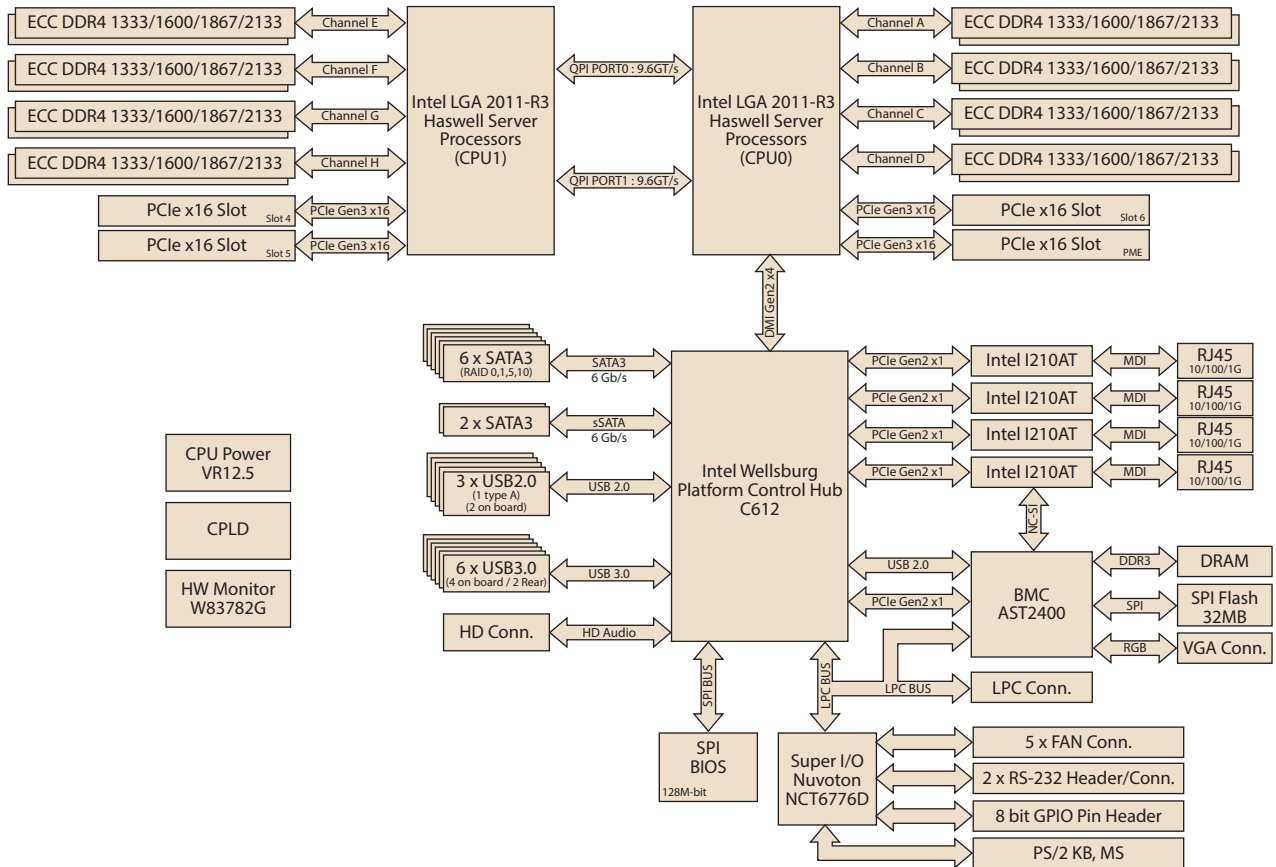
### Utilities:



## Specifications

Form Factor		Extended 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 E5-2600 v3 Series (1S conditional support, please contact to Advantech application engineer)					
Core Logic	Chipset	Intel C612 chipset					
Memory	Total slots	16 (Quad Channel)					
	Capacity	Maximum 512 GB ECC RDIMM					
	Memory type	DDR4 ECC-REG 2133/1866/1600 MHz DIMM					
	Memory size	4 GB, 8 GB, 16 GB, 32 GB					
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					
Graphics	VGA	Aspeed AST2400/1400 64 MB					
	IDE controller	-					
Storage	SATA controller	Intel C612: 8 SATA3 6 Gb/s ports Intel Matrix Storage (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 Connectors	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 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		4 (2*USB2.0 + 2*USB3.0)					
VGA port		1					
RJ-45		3 (1 port dedicated for IPMI function)					
PS/2 KB/mouse		-					
Infiniband		-					
Management Solution	Software	-					
	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	5V	12V	5Vsb	-12V	
		1.4A	0.5A	23.2A	0.09A	0.05A	
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	Dimensions	304.8 x 330.2 mm (12" x 13")					

### Block Diagram



### Ordering Information

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

### Bracket View



ASMB-913I-00A1E



ASMB-913-00A1E

### Packing List

Part Number	Description	Quantity
2061913100	Driver CD	x 1
2001913110	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

### 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-00A1E	TPM Module
1960057226N001	LGA-2011 CPU heatsink for 1U chassis (95W)
1960055362N001	LGA-2011 square CPU cooler for 2U/4U chassis (145W)
1960065684N001	LGA-2011 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
1701090401	COM port cable with bracket
1700020277-01	Dual port USB 3.0 cable (30 cm) with bracket



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