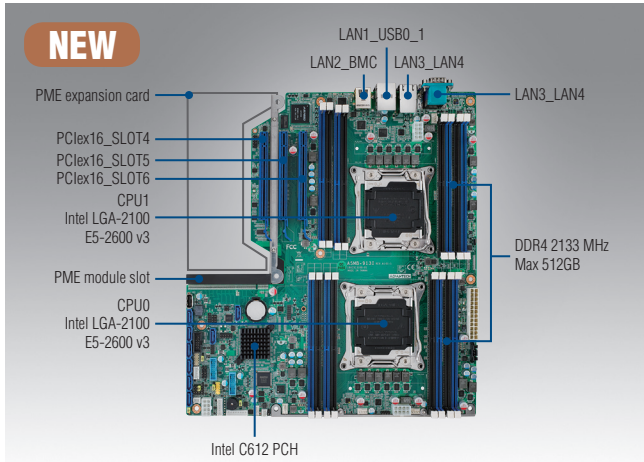


# ASMB-913

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



## Features

- EATX Server Board with dual Xeon® E5-2600 v3/v4 processor
- 16 x DDR4 2133 MHz RDIMM up to 512 GB
- Three PCIe x16 slot (Gen3.0) and PME expansion slot
- PME expansion cards supporting list is in page 5-24
- 0 ~ 40° C ambient operation temperature range

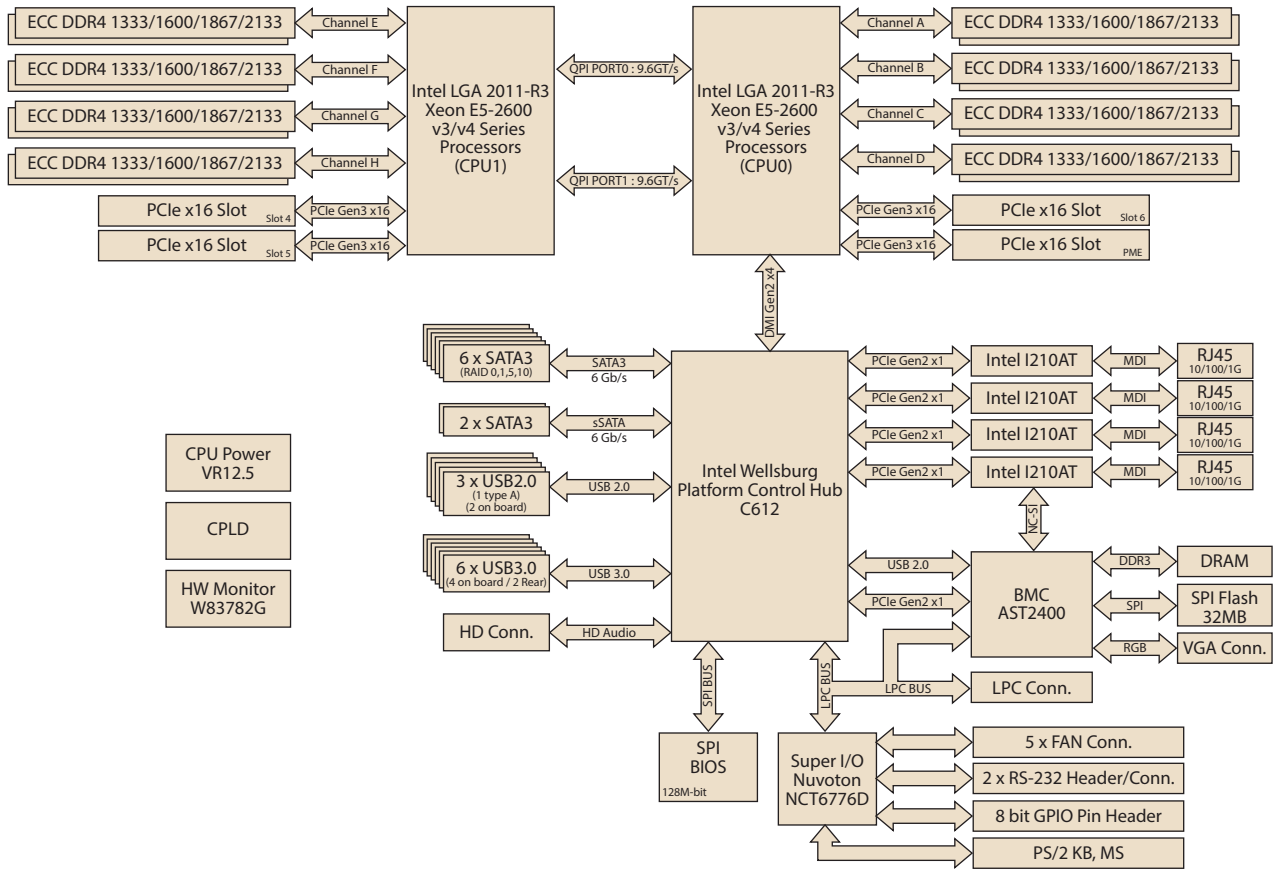
Note: ASMB-913I could enable PME slot when processor is installed in CPU0 socket.



## 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)				
Memory	Capacity	Maximum 512 GB ECC RDIMM				
	Memory type	DDR4 ECC-REG 2400/2133/1866/1600 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		4 (one sharing 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	Temperature	Operating			Non-operating	
		0 ~ 40° C, depends on CPU speed and cooler solution			-40 ~ 85° C	
Physical Characteristics	Humidity	10% ~ 95%			10% ~ 95% (Non condensing)	
		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

### Packing List

Part Number	Description	Quantity
2061913101	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

### 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-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
19Z0001086N000	1U chassis IO shield
968EMLSAP2	SUSIAccess Pro 3.0