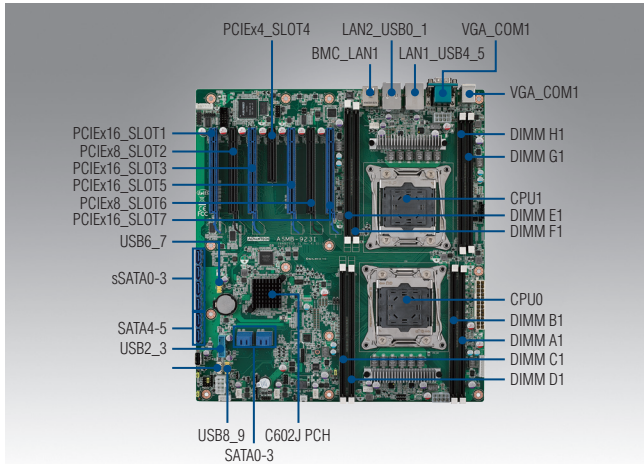


# ASMB-923

**Dual LGA 2011-R3 Intel Xeon®  
E5-2600v3 EATX Server Board with  
DDR4, 4 PCIe x16+ 2 PCIe x8(Gen 3.0),  
4 USB 3.0**



## Features

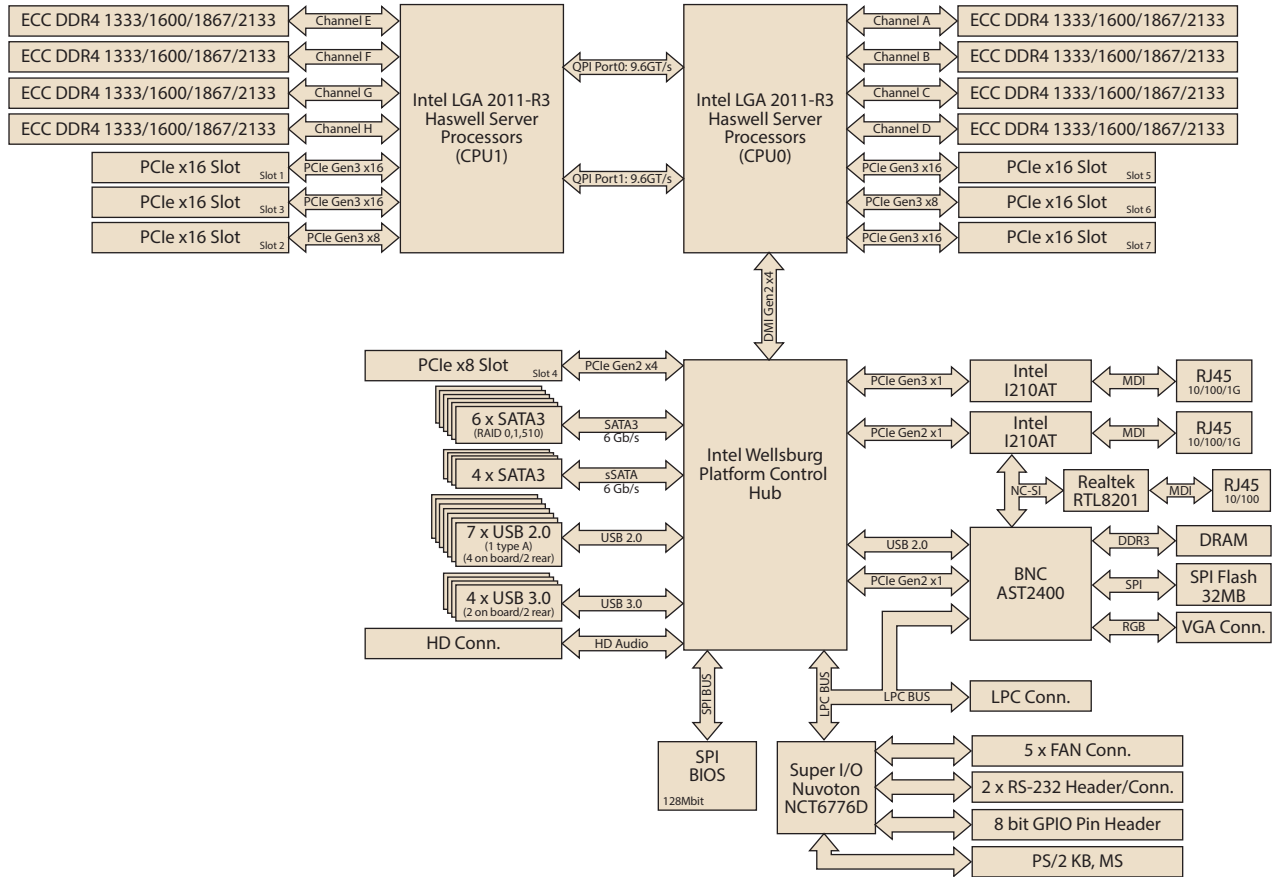
- EATX Server Board with dual Xeon® E5-2600 v3 processor, 8 DIMMs 256 GB memory capacity
- DDR4 2133 MHz RDIMM up to 256 GB
- Four PCIe x16 slots (Gen3) + two PCIe x8 slots (Gen3.0) and one PCIe x4 (Gen2.0)
- 0 ~ 40° C ambient operation temperature range



## 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 E5-1600 v3 Series (1S conditional support, please contact to Advantech application engineer)				
Core Logic	Chipset	Intel C612 chipset				
	Total slots	8 (Quad Channel)				
Memory	Capacity	Maximum 256 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 x16 slot (x16 link), signal from CPU1				
	Slot location 2	1 x PCIe x16 slot (x8 link), signal from CPU1				
	Slot location 3	1 x PCIe x16 slot (x16 link), signal from CPU1				
	Slot location 4	1 x PCIe x8 slot (x4 link), signal from PCH				
	Slot location 5	1 x PCIe x16 slot (x16 link), signal from CPU0				
	Slot location 6	1 x PCIe x16 slot (x8 link), signal from CPU0				
Graphics	VGA	Aspeed AST2400/1400 64 MB				
	IDE controller	-				
Storage	SATA controller	Intel C610: 10 SATA3 6 Gb/s ports Intel Matrix Storage (for Windows only) (SATA0-SATA5 and sSATA0-sSATA3 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 + 8-pin SSI 12 V power connector + 8-pin SSI 12 V power connector				
	USB connector	2 (supports 4 USB port), 1* Type-A , 1* USB3.0 20pin header (supports 2*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		1				
Infiniband		-				
Management Solution	Software	-				
	Out of band remote management	Yes (ASMB-923I 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
		1.69A	1.00A	17.42A	0.05A	0.01A
		Operating			Non-operating	
Environment	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-923-00A1E	C612	DDR4 RDIMM	2	-	AST 1400
ASMB-923I-00A1E	C612	DDR4 RDIMM	2	Yes	AST 2400

### Packing List

Part Number	Description	Quantity
2066923I00	Driver CD	x 1
2006923I10	Startup manual	x 1
1700003194	SATA data cables	x 2
1703150102	SATA power cables	x 2
1700019748	CPU power cable(8P)	x 2
1960052312T010	I/O shield	x 1

### Optional Accessories

Part Number	Description
PCA-AUDIO-HDA1E	HD Audio-card
PCA-TPM-00A1E	TPM Module
1960057226N001	LGA-2011 square 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
19Z0000406T000	For 1U chassis IO shield

### I/O View



ASMB-923-00A1E



ASMB-923I-00A1E



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