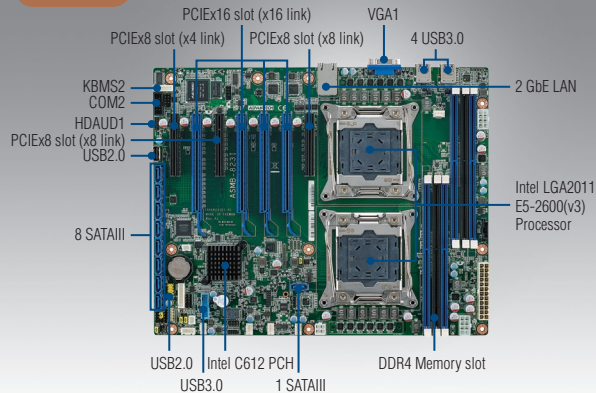


# ASMB-823

**Dual LGA 2011-R3 Intel® Xeon® E5-2600 v3  
ATX Server Board with DDR4, 4 PCIe x16, 6  
USB 3.0, SATA3, Dual LAN, IPMI 2.0**

**NEW**



## Features

- ATX Server Board with dual Xeon® E5-2600 v3 processor
- DDR4 2133 MHz RDIMM up to 192 GB
- Four PCIe x16 slots (Gen3), two PCIe x8 (Gen3) and one PCIe x4 (Gen2) slots
- Nine SATA3 ports and six USB 3.0 ports
- 0 ~ 40° C ambient operation temperature range

### Software APIs:



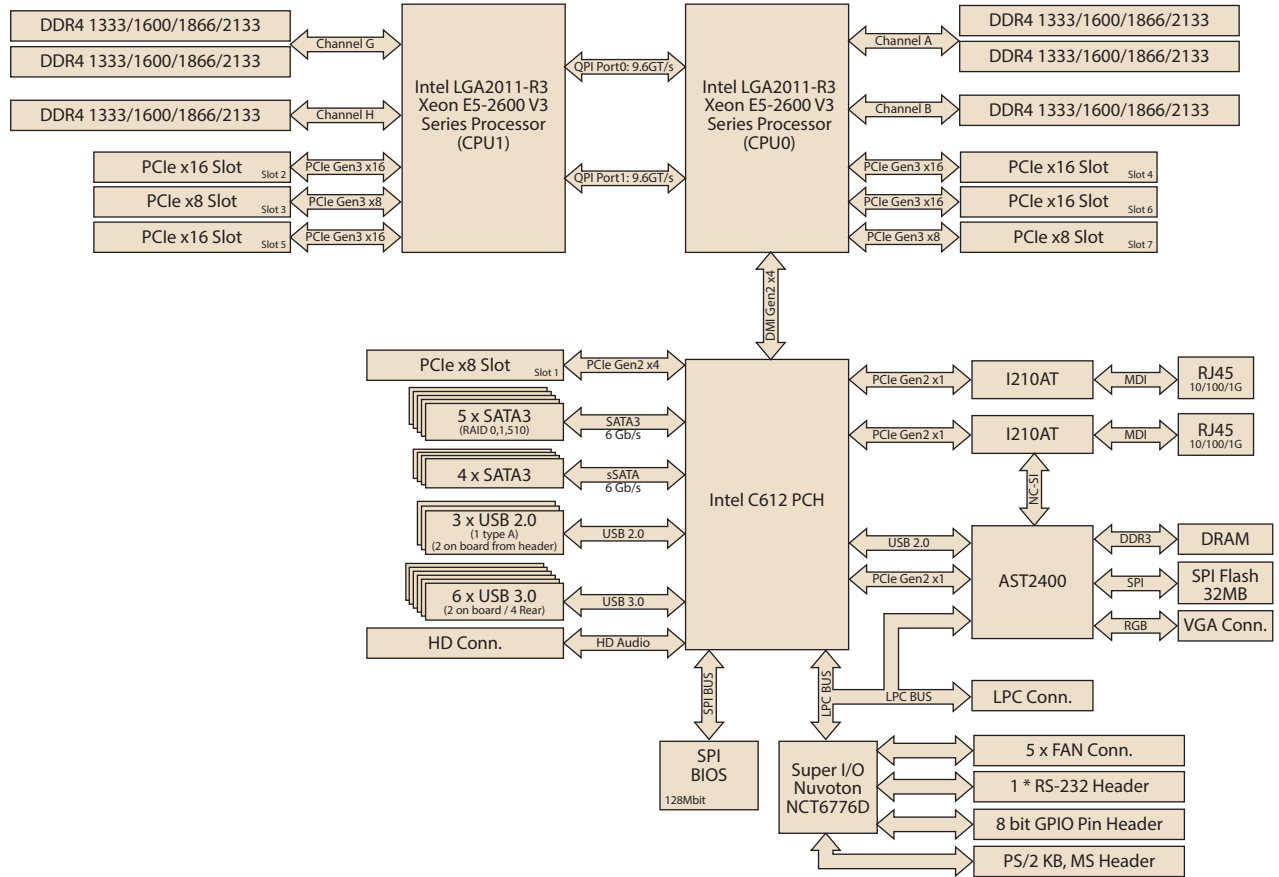
### Utilities:



## Specifications

Form Factor	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	6 (Quad Channel)				
Memory	Capacity	Maximum 192 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 x8 slot (x4 link), signal from PCH				
	Slot location 2	1 x PCIe x16 slot (x16 link), signal from CPU1				
	Slot location 3	1 x PCIe x8 slot (x8 link), signal from CPU1				
	Slot location 4	1 x PCIe x16 slot (x16 link), signal from CPU0				
	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 C610: 9 SATA3 6 Gb/s ports Intel Matrix Storage (for Windows only) (SATA0-SATA4 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 + 2 x 8-pin SSI 12 V power connector + 4-pin SSI 12 V power connector				
	USB connector	2 x USB2.0 ports (in one header) + 2 x USB3.0 ports (in one header) + 1*Type-A USB2.0 ports				
	Fan header	5 x 4-pin (2 for CPU + 3 for SYS)				
	SMBus	1				
	Chassis intruder	1				
	Front LAN LED	2				
	Audio Header	1				
	Serial port header	1				
Rear I/O Connectors	External serial port	-				
	External USB port	4 (USB 3.0)				
	VGA port	1				
	RJ-45	2 (one sharing IPMI function)				
	PS/2 KB/mouse	1 (by onboard connector)				
	Infiniband	-				
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	3.3V	5V	12V	5Vsb	-12V
		1.67A	0.85A	18.11A	0.05A	0.004A
Environment		Operating		Non-operating		
		0 ~ 40° C, depends on CPU speed and cooler solution		-40 ~ 85° C		
		Humidity		10% ~ 95% (Non condensing)		
Physical Characteristics	Dimensions	304.8 x 244 mm (12" x 9.6")				

### Block Diagram



### Ordering Information

Part Number	Chipset	Memory	GbE LAN	IPMI	VGA Chip
ASMB-823-00A1E	C612	DDR4 RDIMM	2	-	AST 1400
ASMB-823I-00A1E	C612	DDR4 RDIMM	2	Yes	AST 2400

### Bracket View



ASMB-823I-00A1E  
ASMB-823-00A1E

### Packing List

Part Number	Description	Quantity
2066823I00	Driver CD	x 1
2006823I01	Startup manual	x 1
1700003194	SATA data cables	x 2
1700022749-11	SATA power cables	x 2
1700019748	CPU power cable	x 2
19Z0000777T000	I/O shield	x 1

### Optional Accessories

Part Number	Description
PCA-AUDIO-HDA1E	HD Audio-card
PCA-TPM-00A1E	TPM Module
1960057226N001	LGA2011 square CPU heatsink for 1U chassis (95W)
1960055362N001	LGA2011 square CPU cooler for 2U/4U chassis (145W)
1960065684N001	LGA2011 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
1700020277-01	Dual port USB 3.0 cable (30 cm) with bracket
1701090401	COM port cable with bracket