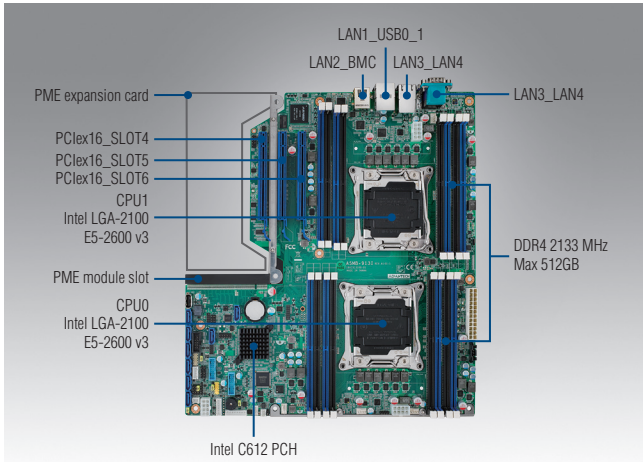


ASMB-913

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



Features

- EATX server board with dual Xeon® E5-2600 v3/v4 processor
- 16 x DDR4 2400 MHz RDIMM up to 512 GB
- Three PCIe x16 slot(Gen3.0) and PME expansion slot
- PME expansion cards supporting list is on page 9-32
- 0 ~ 40 °C ambient operating temperature range

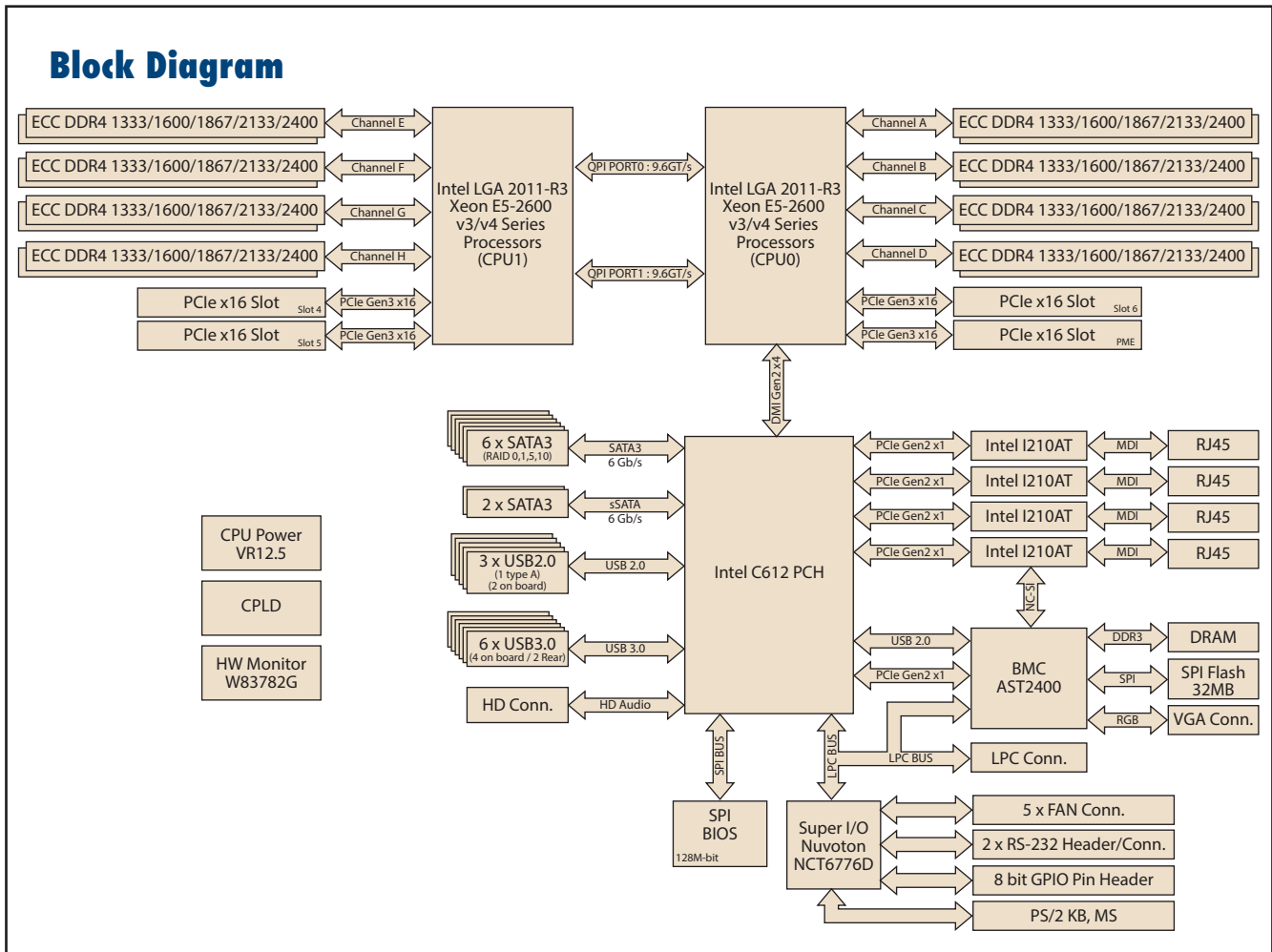
Note: ASMB-913I could enable PME slot when processor is installed in CPU0 socket.



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
Memory	Total slots	16 (Quad Channel)
	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
Slot location 7	-	
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-SATA5 and sSATA0-sSATA1 Supports software RAID 0, 1, 10 & 5)
	SAS controller	-
Networking	GbE LAN	4 x Intel I210AT
Onboard I/O Connector	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 4-pin
	SMBus	1
	Chassis intruder	1
	Front LAN LED	2
	Audio Header	1
	Serial port header	1
	External serial port	1
Rear I/O Connector	External USB port	2 (USB3.0)
	VGA port	1
	RJ-45	4 (one sharing IPMI function)
	PS/2 KB/mouse	-
	Infiniband	-
	Software	-
Management Solution	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 1.4A 5V 0.5A 12V 23.2A 5Vsb 0.09A -12V 0.05A
	Operating	Non-operating
Environment	Temperature	0 ~ 40 °C, depends on CPU speed and cooler solution
	Humidity	10% ~ 95%
Physical Characteristics	Dimension (L x H)	304.8 x 330.2 mm (12" x 13")

Block Diagram



Ordering Information

Part Number	Chipset	Memory	GbE LAN	IPMI	Graphics
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
1920000995T100	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-00B1E	TPM 2.0 Module by LPC
1960057226N001	LGA-2011 CPU heatsink for 1U chassis (95W)
1960055362N001	LGA-2011 square CPU cooler for 2U/4U chassis (145W)
1960065684N011	LGA-2011 square CPU cooler for 4U chassis (160W)
1700019127	FAN connector extended cable 1*4P-2.54/1*4P-2.54 35cm
1700028025-01	Dual port USB cable (45 cm) with bracket
1700028042-01	Four port USB cable (45 cm) with bracket
1700028024-01	Dual port USB 3.0 cable (45 cm) with bracket
1700019268-11	PS/2 cable (35 cm)
1701090401	COM port cable with bracket
1920001086T000	1U chassis IO shield
968EMLSAP2	SUSIAccess Pro 3.0

I/O View



ASMB-913-00A1E



ASMB-913I-00A1E