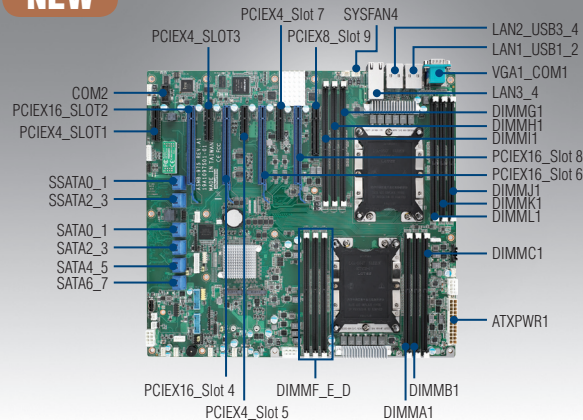


ASMB-975

Dual LGA 3647-P0 Intel® Xeon® Scalable Proprietary Server Board with 12 DDR4, 4 PCIe x16 + 1 PCIe x8+4 PCIe x4, 14 SATA3, 8 USB3.0, Dual 10GbE, IPMI

NEW



CE FCC

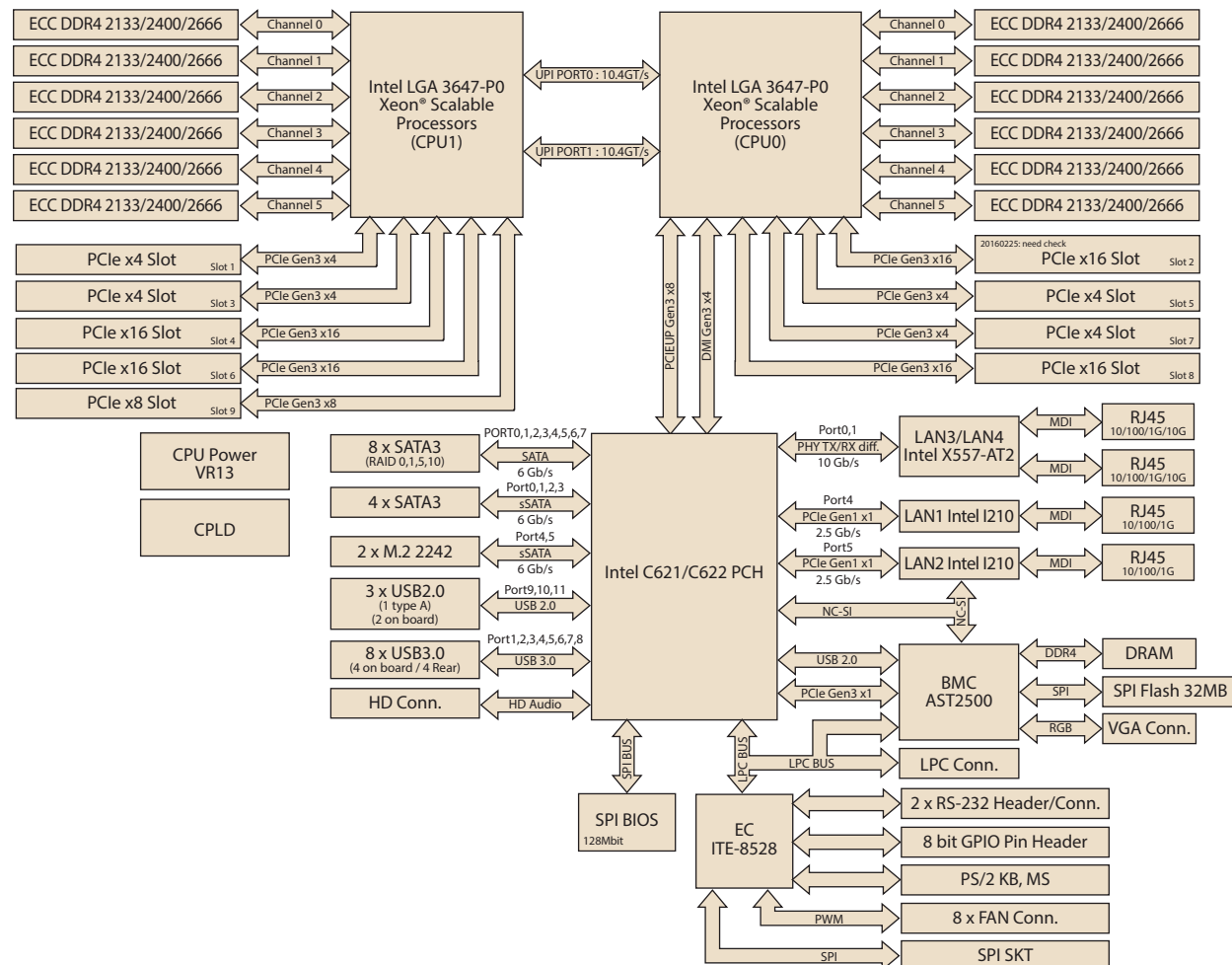
Features

- Proprietary Server Board with dual Xeon® Scalable processors
- DDR4 2666 MHz RDIMM up to 384 GB (12 DIMMs), support Apache Pass
- 14 SATA3 connectors (including 2 SATA M.2 2242)
- Four PCIe x16 slots (Gen3) for double-deck cards
- Intel® X557-AT2 dual 10GbE ports
- 0 ~ 40 °C ambient operation temperature range

Specifications

Form Factor		Proprietary (14.1" x 13")
Processor System	Socket	Intel LGA 3647-P0
	CPU type	Intel Xeon Scalable dual processors (CPU cooler should be purchased separately and TDP up to 205W)
Core Logic	Chipset	Intel C621/C622 chipset
Memory	Total slots	12 (1 DIMM per channel)
	Capacity	Maximum 384 GB ECC RDIMM
	Memory type	DDR4 ECC-REG 2133/2400 /2666 MHz DIMM, support Apache Pass
	Memory size	4 GB, 8 GB, 16 GB, 32 GB
Expansion Slots	Total PCIe slots	9
	Slot location 1	PCIe x4 slot (x4 link), signal from CPU1
	Slot location 2	PCIe x16 slot (x16 link), signal from CPU0
	Slot location 3	PCIe x4 slot (x4 link), signal from CPU1
	Slot location 4	PCIe x16 slot (x16 link), signal from CPU1
	Slot location 5	PCIe x4 slot (x4 link), signal from CPU0
	Slot location 6	PCIe x16 slot (x16 link), signal from CPU1
	Slot location 7	PCIe x4 slot (x4 link), signal from CPU0
	Slot location 8	PCIe x16 slot (x16 link), signal from CPU0
	Slot location 9	PCIe x8 slot (x8 link), signal from CPU1
Graphics	VGA	Aspeed AST 2500/2510
Storage	IDE controller	-
	SATA controller	Intel C621/C622: 12 x SATA3 + 2 x M.2 2242 6 Gb/s ports Intel Rapid Storage Technology (for Windows only)
	SAS controller	-
Networking	GbE/10GbE LAN	2 x Intel I210AT / Intel X557-AT2 (dual 10GbE ports)
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 (two onboard headers) + 4 x USB3.0 ports (two onboard headers) + 1 x Type-A USB2.0 port
	Fan header	8 (6 for system fan + 2 for CPU fan)
	SMBus	1
	Chassis intruder	1
	Front LAN LED	2
	Audio Header	1
	PS/2 KB/Mouse	1
	Serial port header	1
Rear I/O Connectors	External serial port	1
	External USB port	4 (USB3.0)
	VGA port	1
	RJ-45	4 (Lan2 sharing IPMI)
	PS/2 KB/mouse	-
	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 1.37A 5V 6.83A 12V 0.09A 5Vsb 0.14A -12V 0.03A 8P_0 4.4A 8P_1 4.2A
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	Dimension (L x H)	358.1 x 330.2 mm (14.1" x 13")

Block Diagram



Ordering Information

Part Number	Chipset	Memory	GbE/10GbE LAN	IPMI	VGA Chip
ASMB-975-00A1	C621	DDR4 RDIMM	2/-	-	AST 2510
ASMB-975I-00A1	C621	DDR4 RDIMM	2/-	Yes	AST 2500
ASMB-975T2-00A1	C622	DDR4 RDIMM	2/2	Yes	AST 2500

Packing List

Part Number	Description	Quantity
2066975I00	Driver CD	x 1
2001097500	Startup manual	x 1
1700003194	SATA data cables	x 2
1700022749-11	SATA power cables	x 2
1700019748	CPU power cable	x 2
1960076488T000	I/O shield	x 1

Optional Accessories

Part Number	Description
PCA-AUDIO-HDB1E	HD Audio-card
PCA-TPM-00B1E	TPM 2.0 Module by LPC
1960081603N001	LGA-3647 narrow CPU cooler for 2U/4U chassis
1960081155N001	LGA-3647 narrow CPU cooler for 1U chassis
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
1701090401	COM port cable with bracket

I/O View



ASMB-975-00A1
ASMB-975I-00A1



ASMB-975T2-00A1