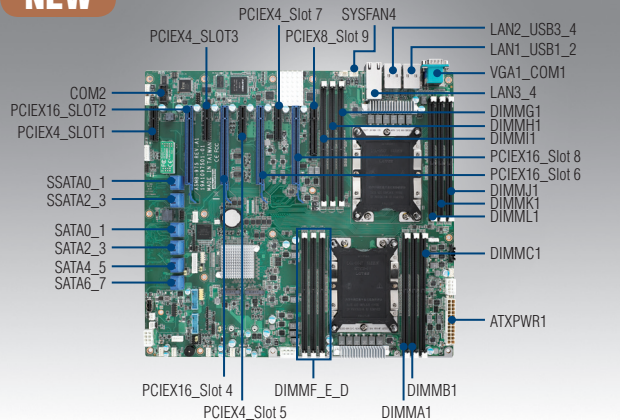


ASMB-975

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



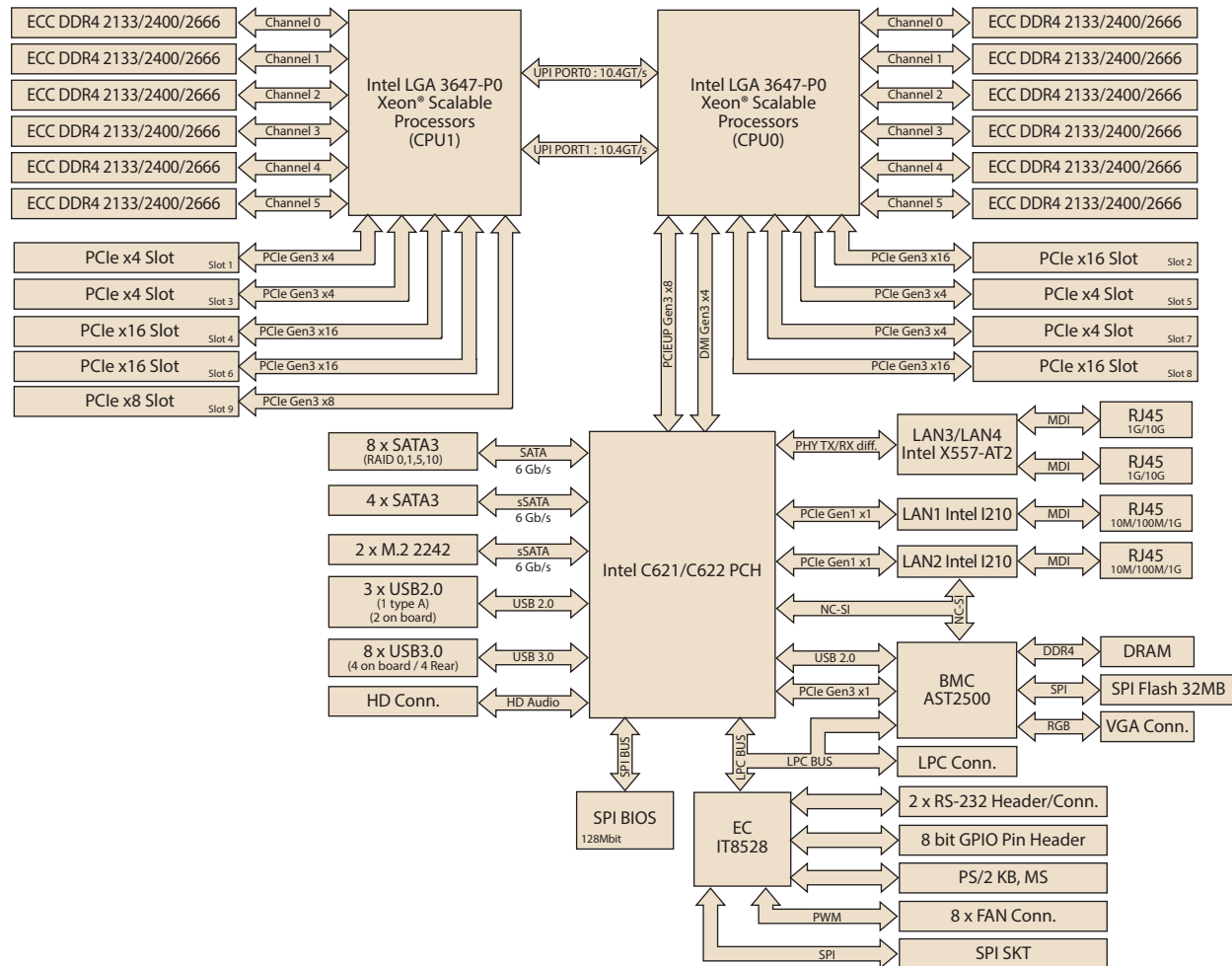
Features

- Proprietary server board with dual Xeon® Scalable processors
- DDR4 2666 MHz RDIMM up to 768 GB (12 LRDIMMs), 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 operating 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 768GB ECC LRDIMM Maximum 384GB 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, 64 GB (LRDIMM)
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
Graphics	VGA	Aspeed AST 2500/2510
	SATA controller	Intel C621/C622: 12 x SATA3 (600 MB/s) support software RAID 0,1,5,10
Onboard I/O Connector	SAS controller	-
	Networking	GbE/10GbE LAN 2 x Intel I210AT / Intel X557-AT2 (dual 10GbE ports)
	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)
	M.2	2 x M.2 2242 M key (SATA)
	SMBus	1
	Chassis intruder	1
	Front LAN LED	2
	Audio Header	1
Rear I/O Connector	PS/2 KB/Mouse	1
	Serial port header	1
	External serial port	1
	External USB port	4 (USB3.0)
	VGA port	1
	RJ-45	4 (Lan2 sharing IPMI)
	PS/2 KB/mouse	-
Management Solution	Infiniband	-
	Software	-
Monitoring	Out of band remote management	Yes
	CPU temperature	Yes
Watchdog Timer	System Monitoring	Yes
	Output	System reset
Power Requirement	Interval	Programmable 1 ~ 255 sec/min
	Power On	3.3V 5V 12V 5Vsb -12V 8P_0 8P_1
	(205W CPU@2.5GHz DDR4 2400 8G*12)	1.37A 6.83A 0.09A 0.14A 0.03A 20.11A 20.52A
	Operating	Non-operating
Environment	Temperature	0 ~ 40 °C, depends on CPU speed and cooler solution
	Humidity	-40 ~ 85 °C
Physical Characteristics	Humidity	10% ~ 95%
	Dimension (L x H)	10% ~ 95% (Non condensing)
		358.1 x 330.2 mm (14.1" x 13")

Block Diagram



Ordering Information

Part Number	Chipset	Memory	GbE/10GbE LAN	IPMI	Graphics
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
2066975100	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
1930008089	Screw for M.2 device	x 3
1960076488T000	I/O shield	x 1
1651003167-01	LGA3647 CPU clip	x 2

Optional Accessories

Part Number	Description
PCA-AUDIO-HDA1E	HD Audio-card
PCA-TPM-00B1E	TPM 2.0 Module by LPC
1960081155N001	LGA-3647 narrow CPU cooler for 1U chassis (85W)
1960081603N001	LGA-3647 narrow CPU cooler for 2U/4U chassis (150W)
1960081603N101	LGA-3647 narrow CPU cooler for 4U chassis (205W)
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