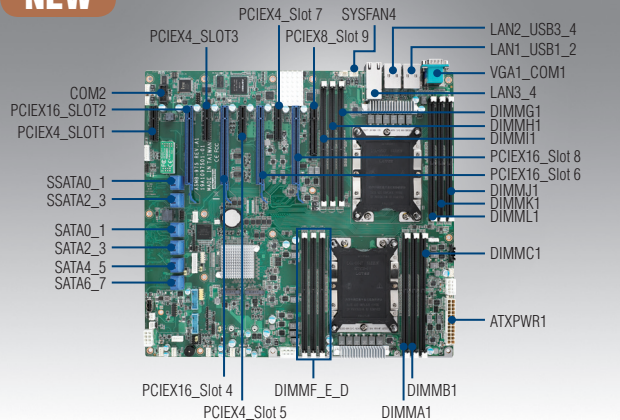


# ASMB-975

**Dual LGA 3647-PO 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**



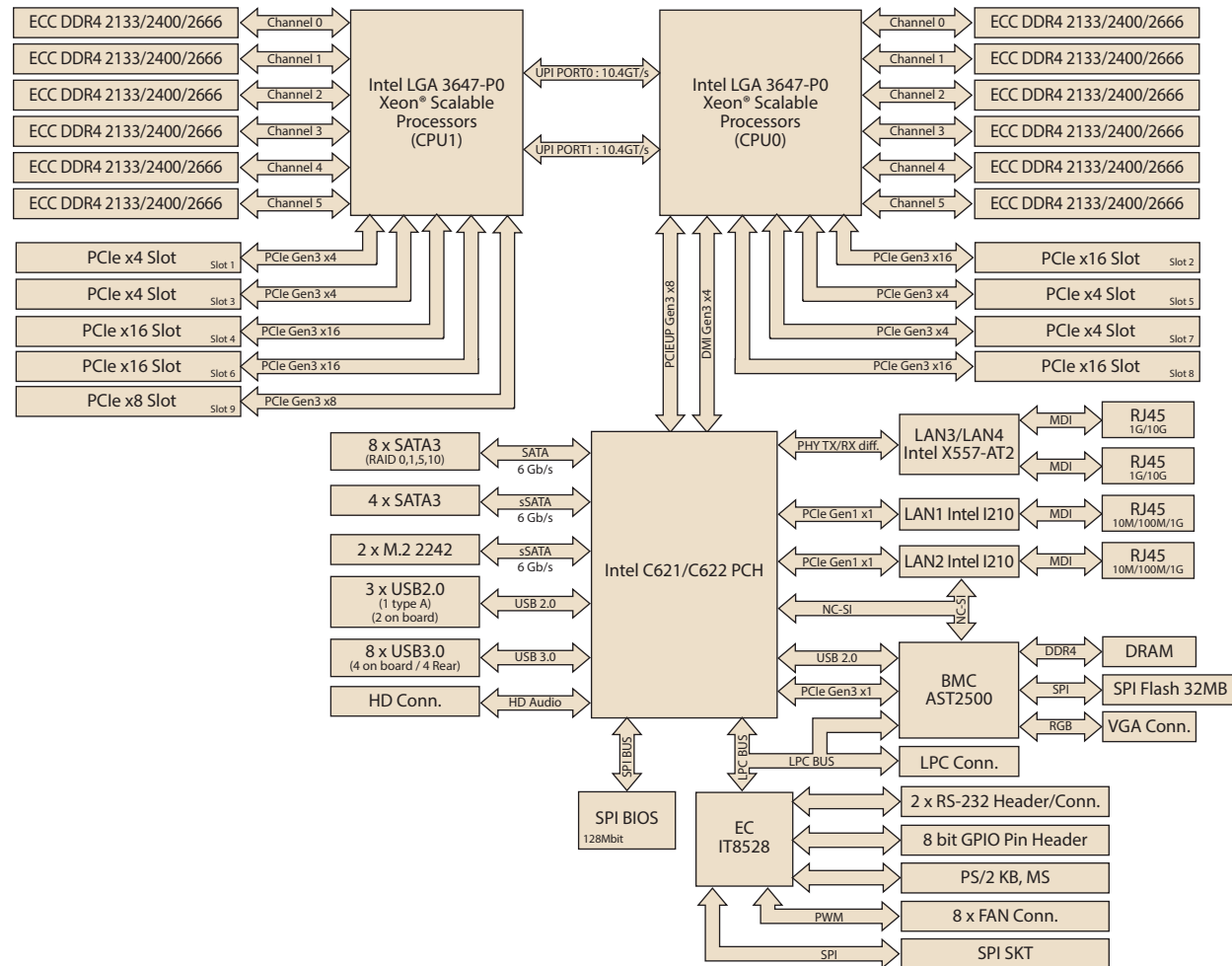
## Features

- Proprietary server board with dual Xeon® Scalable processors
- DDR4 2666 MHz RDIMM up to 786 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-PO	
	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	
Slot location 9	PCIe x8 slot (x8 link), signal from CPU1		
Graphics	VGA	Aspeed AST 2500/2510	
Storage	SATA controller	Intel C621/C622: 12 x SATA3 (600 MB/s) support software RAID 0,1,5,10	
	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	
Onboard I/O 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	
	PS/2 KB/Mouse	1	
	Serial port header	1	
	Rear I/O Connector	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      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	
Environment	Operating	Non-operating	
	Temperature	0 ~ 40 °C, depends on CPU speed and cooler solution	
Physical Characteristics	Humidity	-40 ~ 85 °C	
	Dimension (L x H)	10% ~ 95%      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