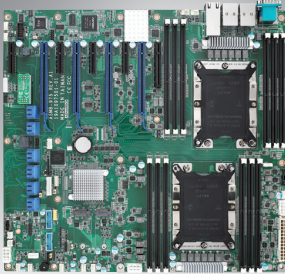


ASMB-975

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

Preliminary



CE FCC

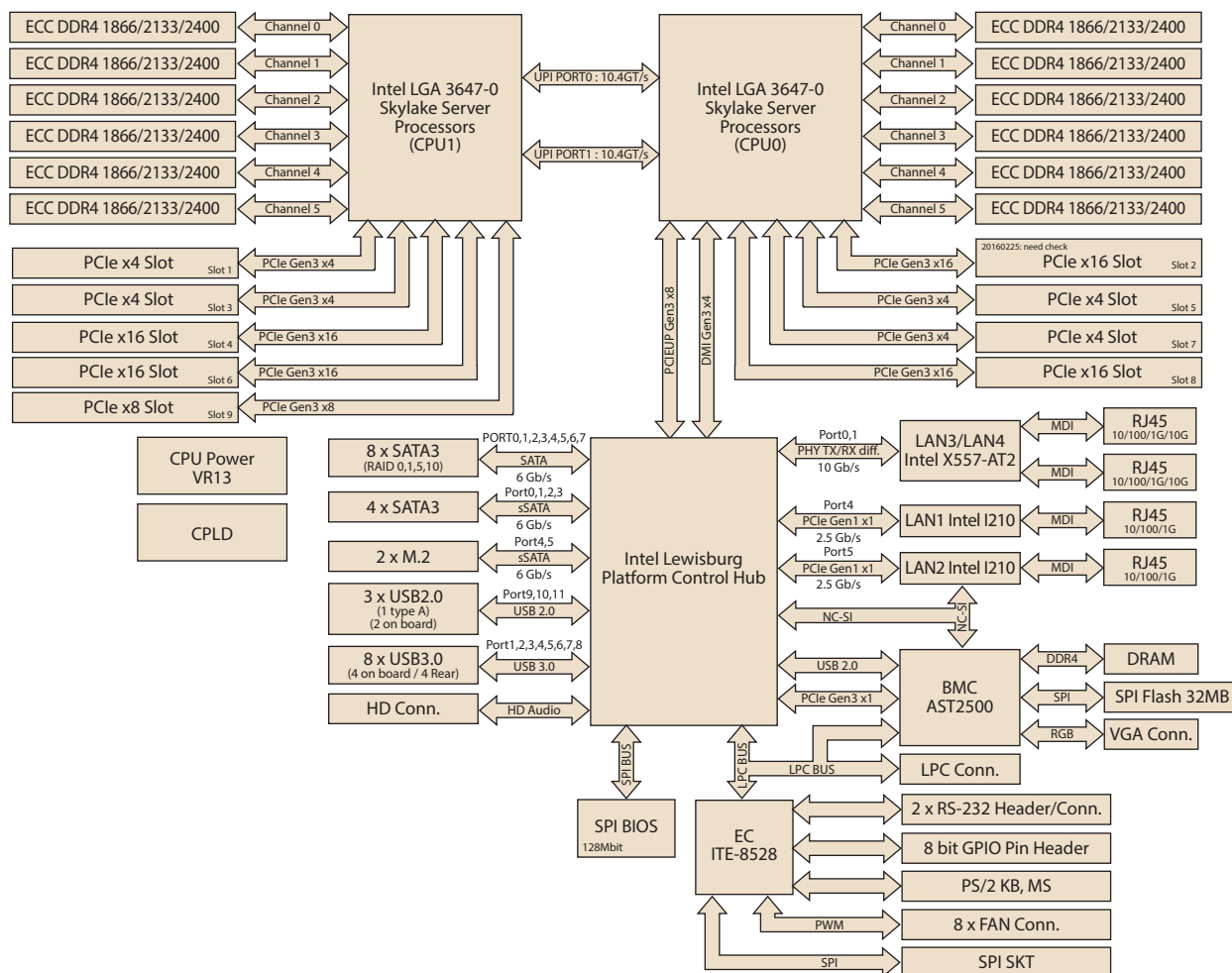
Features

- Proprietary Server Board with dual Skylake-SP processors
- DDR4 2666 MHz RDIMM up to 384 GB (12 DIMMs)
- 14 SATA3 connectors (including 2 SATA M.2)
- 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-PO				
	CPU type	Intel Skylake-SP dual processors (CPU cooler should be purchased separately and TDP up to 205W)				
Core Logic	Chipset	Intel C622 chipset				
	Total slots	12 (1 DIMM per channel)				
Memory	Capacity	Maximum 384 GB ECC RDIMM				
	Memory type	DDR4 ECC-REG 1866/2133/2400 /2666 MHz DIMM				
	Memory size	4 GB, 8 GB, 16 GB, 32 GB				
	Total PCIe slots	9				
Expansion Slots	Slot location 1	1 x PCIe x4 slot (x4 link), signal from CPU1				
	Slot location 2	1 x PCIe x16 slot (x16 link), signal from CPU0				
	Slot location 3	1 x PCIe x4 slot (x4 link), signal from CPU1				
	Slot location 4	1 x PCIe x16 slot (x16 link), signal from CPU1				
	Slot location 5	1 x PCIe x4 slot (x4 link), signal from CPU0				
	Slot location 6	1 x PCIe x16 slot (x16 link), signal from CPU1				
	Slot location 7	1 x PCIe x4 slot (x4 link), signal from CPU0				
	Slot location 8	1 x PCIe x16 slot (x16 link), signal from CPU0				
	Slot location 9	1 x PCIe x8 slot (x8 link), signal from CPU1				
Graphics	VGA	Aspeed AST 2500/2510				
	IDE controller	-				
Storage	SATA controller	Intel C622: 12 x SATA3 + 2 x M.2 6 Gb/s ports Intel Rapid Storage Technology (for Windows only)				
	SAS controller	-				
	GbE/10GbE LAN	2 x Intel I210AT + Intel X557-AT2 (dual 10GbE ports)				
Networking	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) + 8 x USB3.0 ports (four in rear + 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	5V	12V	5Vsb	-12V
		1.37A	6.83A	0.09A	0.14A	0.03A
	Operating				Non-operating	
Environment	Temperature	0 ~ 40 °C, depends on CPU speed and cooler solution			-40 ~ 85 °C	
	Humidity	10% ~ 95%			10% ~ 95% (Non condensing)	
	Dimensions	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	C622	DDR4 RDIMM	2/-	-	AST 2510
ASMB-9751-00A1	C622	DDR4 RDIMM	2/-	Yes	AST 2500
ASMB-975T2-00A1	C622	DDR4 RDIMM	2/2	Yes	AST2500

Packing List

Part Number	Description	Quantity
2066975100	Driver CD	x 1
2006975110	Startup manual	x 1
1700003194	SATA data cables	x 2
1700022749-11	SATA power cables	x 2
1700019748	CPU power cable	x 2
1960076489I000	I/O shield	x 1

Optional Accessories

Part Number	Description
PCA-AUDIO-HDA1E	HD Audio-card
PCA-TPM-00A1E	TPM Module
1960081603N001	LGA-3647 narrow CPU cooler for 2U/4U chassis
1960081155N001	LGA-3647 narrow CPU cooler for 1U chassis
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

I/O View



ASMB-975-00A1
ASMB-9751-00A1



ASMB-975T2-00A1