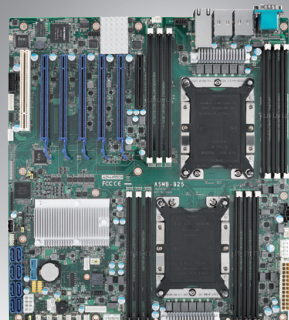


ASMB-925

**Dual LGA3647-PO Intel® Xeon®
Scalable EATX Server Board with
12 DDR4, 5 PCIe x16 + 1 PCIe x8 + 1 PCI,
8 SATA3.0, 6 USB3.0, Dual 10GbE, IPMI**



CE FCC

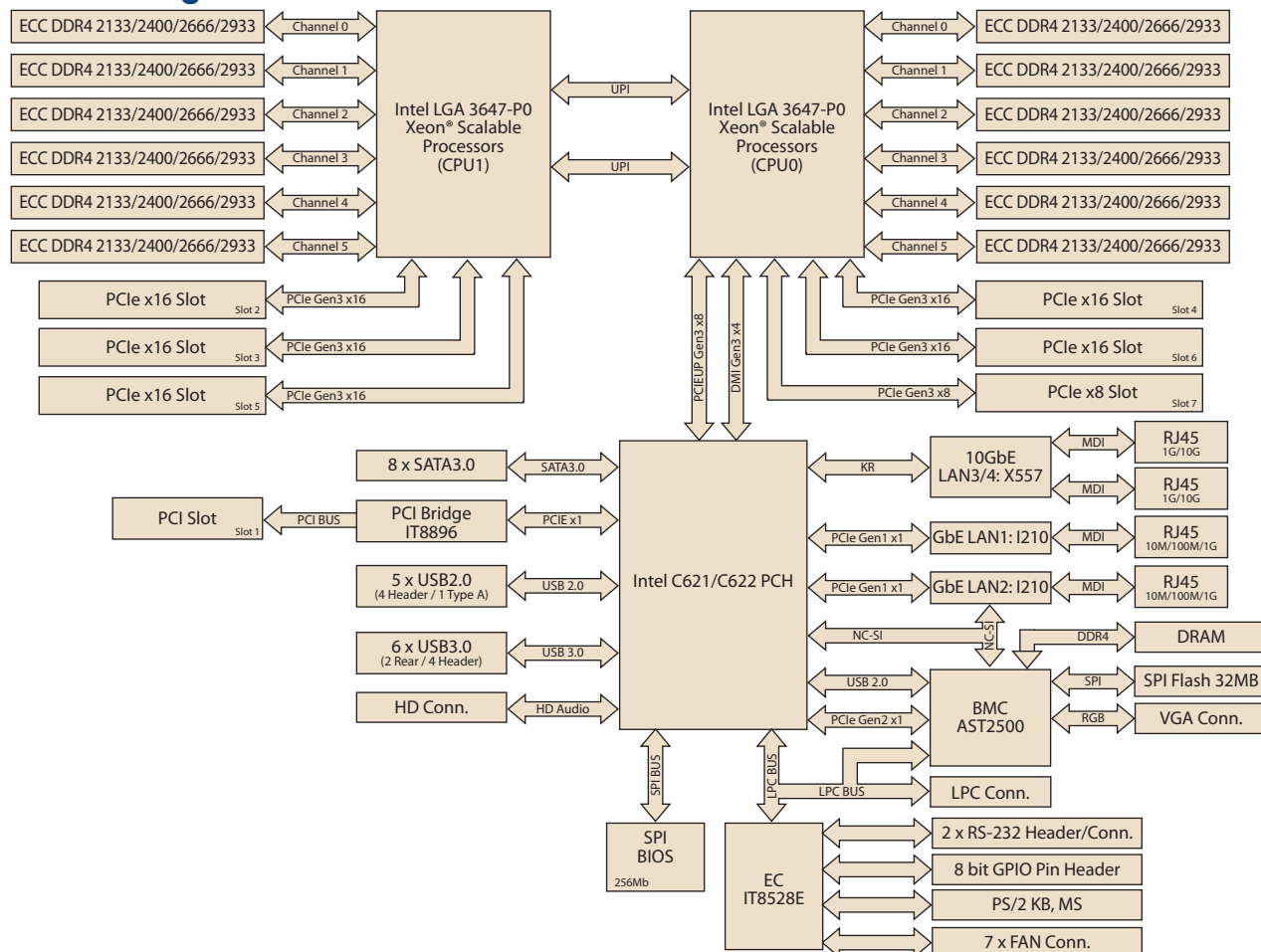
Features

- EATX server board with dual Xeon® Scalable processors
- DDR4 2933MHz RDIMM up to 1.5TB, support Intel Optane DC Persistent Memory
- Five PCIe x16 (Gen3), one PCIe x8 (Gen3), and one PCI slot
- Intel® X557-AT2 dual 10GbE ports
- Eight SATA3.0 and six USB3.0 ports
- 0 ~ 40 °C ambient operating temperature range

Specifications

Form Factor		EATX form factor
Processor System	Socket	Intel LGA3647
	CPU type	Intel Xeon 1st and 2nd Gen 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 1.5TB ECC LRDIMM Maximum 1.5TB ECC 3DS RDIMM Maximum 2TB Intel Optane DC Persistent Memory in memory mode
	Memory type	DDR4 2133/2400/2666/2933MHz RDIMM, LRDIMM
	Memory size	4GB, 8GB, 16GB, 32GB, 64GB, 128GB
	Total PCI/PCI-X/PCIe slots	7
Expansion Slots	Slot location 1	PCI, signal from PCH
	Slot location 2	PCIe x16 slot (x16 link), signal from CPU1
	Slot location 3	PCIe x16 slot (x16 link), signal from CPU1
	Slot location 4	PCIe x16 slot (x16 link), signal from CPU0
	Slot location 5	PCIe x16 slot (x16 link), signal from CPU1
	Slot location 6	PCIe x16 slot (x16 link), signal from CPU0
	Slot location 7	PCIe x8 slot (x8 link), signal from CPU0
Graphics	VGA	ASPEED AST2500/2510
Storage	SATA controller	Intel C621/C622: 8 x SATA3.0 (6 Gb/s) support software RAID 0,1,5,10
	SAS controller	-
Networking	GbE/10GbE LAN	2 x Intel I210AT / Intel X557-AT2 (dual 10GbE ports for ASMB-925T2 sku only)
Onboard I/O Connector	PSU connector	24-pin SSI power connector + 3 x 8-pin SSI 12 V power connector
	USB connector	4 x USB2.0 ports (two onboard headers) + 2 x USB3.0 ports (one onboard headers) + 1 x Type-A USB2.0 port
	Fan header	7 x 4pin (5 for system + 2 for CPU)
	SMBus	1
	Chassis intruder	1
	Front LAN LED	1
	Audio Header	1
	PS/2 Keyboard/Mouse header	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 and LAN3 shared with BMC)
	PS/2 Keyboard/Mouse	-
	Infiniband	-
	Software	-
Management Solution	Out of band remote management	Yes (ASMB-925I/ASMB-925T2)
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 12V_8P_0 12V_8P_1
	(205W CPU@2.5GHz DDR4 2400 4G*12)	1.51A 5.19A 0A 0.05A 0A 20.58A 20.08A
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)	304.8 x 330.2 mm (12" x 13")

Block Diagram



Ordering Information

Part Number	Chipset	Memory	GbE/10GbE LAN	IPMI	Graphics
ASMB-925-00A1	C621	12 x DDR4 RDIMM/LRDIMM	2/-	-	AST2510
ASMB-9251-00A1	C621	12 x DDR4 RDIMM/LRDIMM	2/-	Yes	AST2500
ASMB-925T2-00A1	C622	12 x DDR4 RDIMM/LRDIMM	2/2	Yes	AST2500

Packing List

Part Number	Description	Quantity
2061092500	Driver CD	x 1
2001092500	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
1651003167-01	LGA3647 CPU clip	x 2

Optional Accessories

Part Number	Description
PCA-AUDIO-HDB1E	HD audio card
PCA-TPM-00B1E	TPM 2.0 module
1960081155N001	LGA-3647 narrow CPU heatsink for 1U chassis (85W)
1960088272T001	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
1960082347T000	For 1U chassis IO shield

Note: PCA-AUDIO-HDB1E is not compatible with Advantech 3U chassis.

I/O View



ASMB-925T2-00A1



ASMB-925-00A1
ASMB-9251-00A1