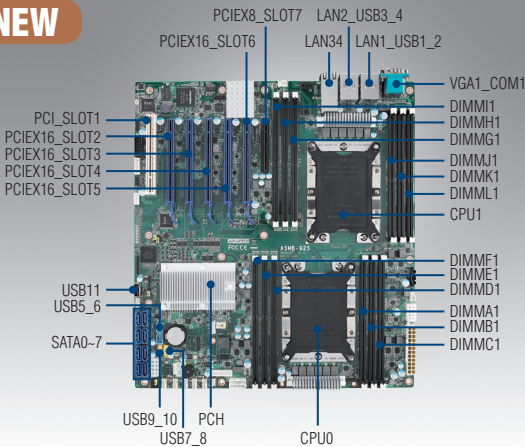


# ASMB-925

**Dual LGA3647-P0 Intel® Xeon® Scalable EATX Server Board with 12 DDR4, 5 PCIe x16 + 1 PCIe x8 + 1 PCI, 8 SATA3, 6 USB3.0, Dual 10GbE, IPMI**

**NEW**



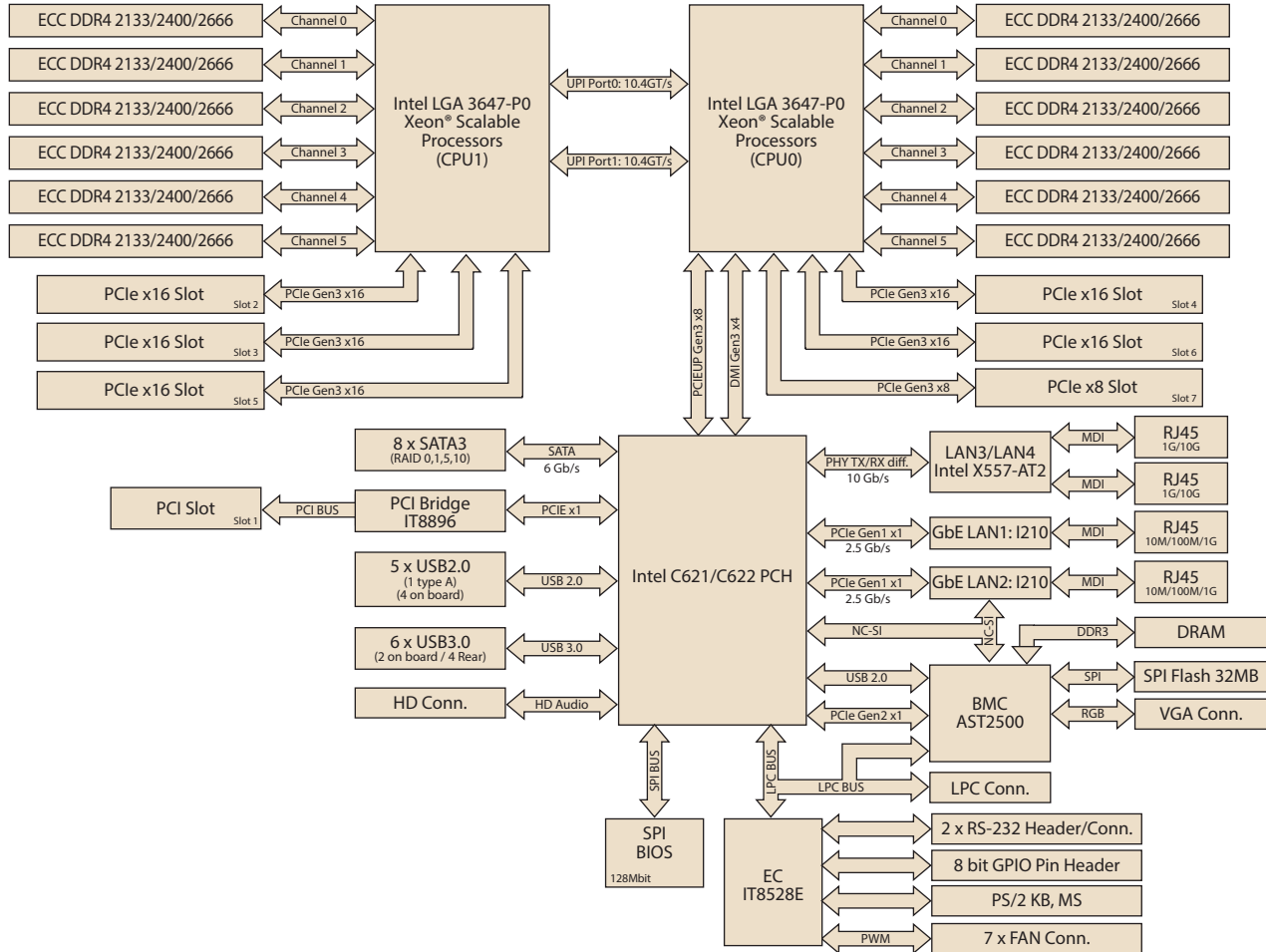
## Features

- EATX server board with dual Xeon® Scalable processors
- DDR4 2666 MHz RDIMM up to 786 GB (12 LRDIMMs), support Apache Pass
- Five PCIe x16 (Gen3), one PCIe x8 (Gen3), and one PCI slots
- Intel® X557-AT2 dual 10GbE ports
- Eight SATA3 and six USB3.0 ports
- 0 ~ 40 °C ambient operating temperature range

## Specifications

Form Factor	EATX form factor								
Processor System	Socket	Intel LGA3647-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							
	Total slots	12 (1 DIMM per channel)							
Memory	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 PCI/PCI-X/PCIe slots	7							
	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							
Graphics	VGA	ASPEED AST2500/2510							
	SATA controller	Intel C621/C622: 8 x SATA3 (600 MB/s) support software RAID 0,1,5,10							
Storage	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 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 with IPMI function)							
	PS/2 KB/mouse	-							
Management Solution	Infiniband	-							
	Software	-							
Monitoring	Out of band remote management	Yes (ASMB-925I/ASMB-925T2 sku only)							
	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	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	
	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)		-		-	
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	DDR4 RDIMM	2/-	-	AST2510
ASMB-925I-00A1	C621	DDR4 RDIMM	2/-	Yes	AST2500
ASMB-925T2-00A1	C622	DDR4 RDIMM	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-HDA1E	HD Audio-card
PCA-TPM-00A1E	TPM1.2 Module
PCA-TPM-00B1E	TPM2.0 Module
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
1960082347T000	For 1U chassis IO shield

### I/O View



ASMB-925T2-00A1



ASMB-925-00A1  
ASMB-925I-00A1