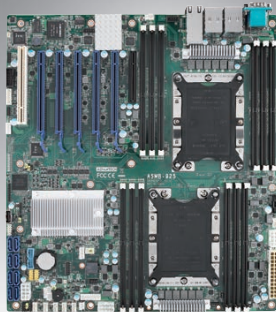


# ASMB-925

**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**



CE FCC

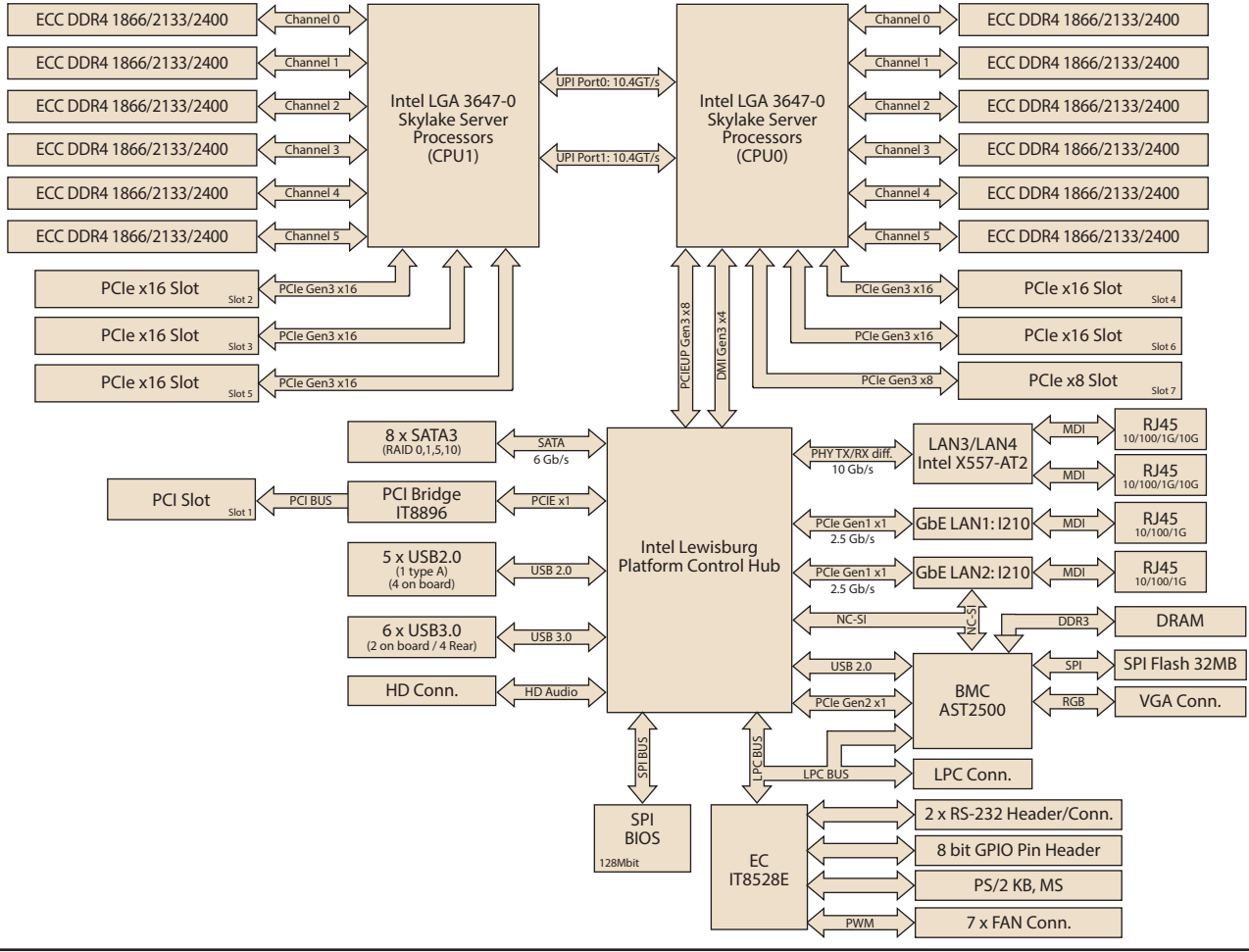
## Features

- EATX Server Board with dual Xeon Scalable processors
- DDR4 2666 MHz RDIMM up to 384 GB (12 DIMMs)
- 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 operation temperature range

## Specifications

Form Factor	EATX form factor	
Processor System	Socket	Intel LGA3647-P0
	CPU type	Intel Skylake-SP dual processors (CPU cooler should be purchased separately and TDP up to 205W)
Core Logic	Intel C622 chipset	
Memory	Total slots	12 (1 DIMM per channel)
	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
Expansion Slots	Total PCI/PCI-X/PCIe slots	7
	Slot location 1	1 x PCI, signal from PCH
	Slot location 2	1 x PCIe x16 slot (x16 link), signal from CPU1
	Slot location 3	1 x PCIe x16 slot (x16 link), signal from CPU1
	Slot location 4	1 x PCIe x16 slot (x16 link), signal from CPU0
	Slot location 5	1 x PCIe x16 slot (x16 link), signal from CPU1
	Slot location 6	1 x PCIe x16 slot (x16 link), signal from CPU0
	Slot location 7	1 x PCIe x8 slot (x8 link), signal from CPU0
Graphics	ASPEED AST2500/2510	
Storage	IDE controller	-
	SATA controller	Intel C622: 8 x SATA3 / 6 Gb/s ports Intel Rapid Storage Technology (for Windows only) (SATA0-SATA7 supports software RAID 0, 1, 10 & 5)
	SAS controller	-
Networking	2 x Intel I210AT + Intel X557-AT2 (dual 10GbE ports for ASMB-925T2 sku only)	
Onboard I/O Connectors	Floppy 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 Connectors	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	-
	Infiniband	-
Management Solution	Software	-
	Out of band remote management	Yes (ASMB-925I/ASMB-925T2 sku only)
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	Dimensions 304.8 x 330.2 mm (12" x 13")	

### Block Diagram



### Ordering Information

Part Number	Chipset	Memory	GbE/10GbE LAN	IPMI	VGA Chip
ASMB-925-00A1	C622	DDR4 RDIMM	2/-	-	AST2510
ASMB-925I-00A1	C622	DDR4 RDIMM	2/-	Yes	AST2500
ASMB-925T2-00A1	C622	DDR4 RDIMM	2/2	Yes	AST2500

### Packing List

Part Number	Description	Quantity
2061925100	Driver CD	x 1
2001925110	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

### Optional Accessories

Part Number	Description
PCA-AUDIO-HDA1E	HD Audio-card
PCA-TPM-00A1E	TPM1.2 Module
PCA-TPM-00B1E	TPM2.0 Module
1960081603N001	LGA-3647 narrow CPU cooler for 2U/4U chassis
(TBD)	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
(TBD)	For 1U chassis IO shield

### I/O View



ASMB-925T2-00A1



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

- Industrial I/O 1
- Intelligent Video Solution 2
- Intelligent Transportation Platforms 3
- Intelligent Inspection Systems 4
- Modular-IPCs 5
- Slot SBC & Passive Backplanes 6
- Industrial Motherboards 7
- Industrial Chassis 8
- Industrial Server Motherboards 9
- Industrial Server Chassis 10
- Industrial Storage 11
- GPU Servers 12
- Video Wall Controllers 13
- CompactPCI Platforms 14
- Industrial Computer Peripherals 15
- Industrial Ethernet Solutions 16