

TECH-4010-825

Dual LGA 3647-PO Intel® Xeon® Scalable ATX Server Board with 6 DDR4, 4 PCIe x16 + 2 PCIe x8, 8 SATA3.0, 6 USB3.0, Dual GbE



Features

- ATX server board with dual Xeon® Scalable processors
- DDR4 2933 MHz RDIMM up to 768GB, support Intel Optane DC Persistent Memory
- Four PCIe x16 slots (Gen3) and two PCIe x8 (Gen3)
- Intel® X557-AT2 dual 10GbE ports
- Eight SATA3.0 and one M.2 connectors (SATA / PCIe compatible)
- Supports Redundant ATX power supply.
- Easy to install front-accessible drive bays to hold two 5.25" and two 3.5" disk drives.
- Front-accessible USB interfaces.
- LED indicators and alarm notification for system fault detection
- Low noise system fans.
- Lockable front door prevents unauthorized access.

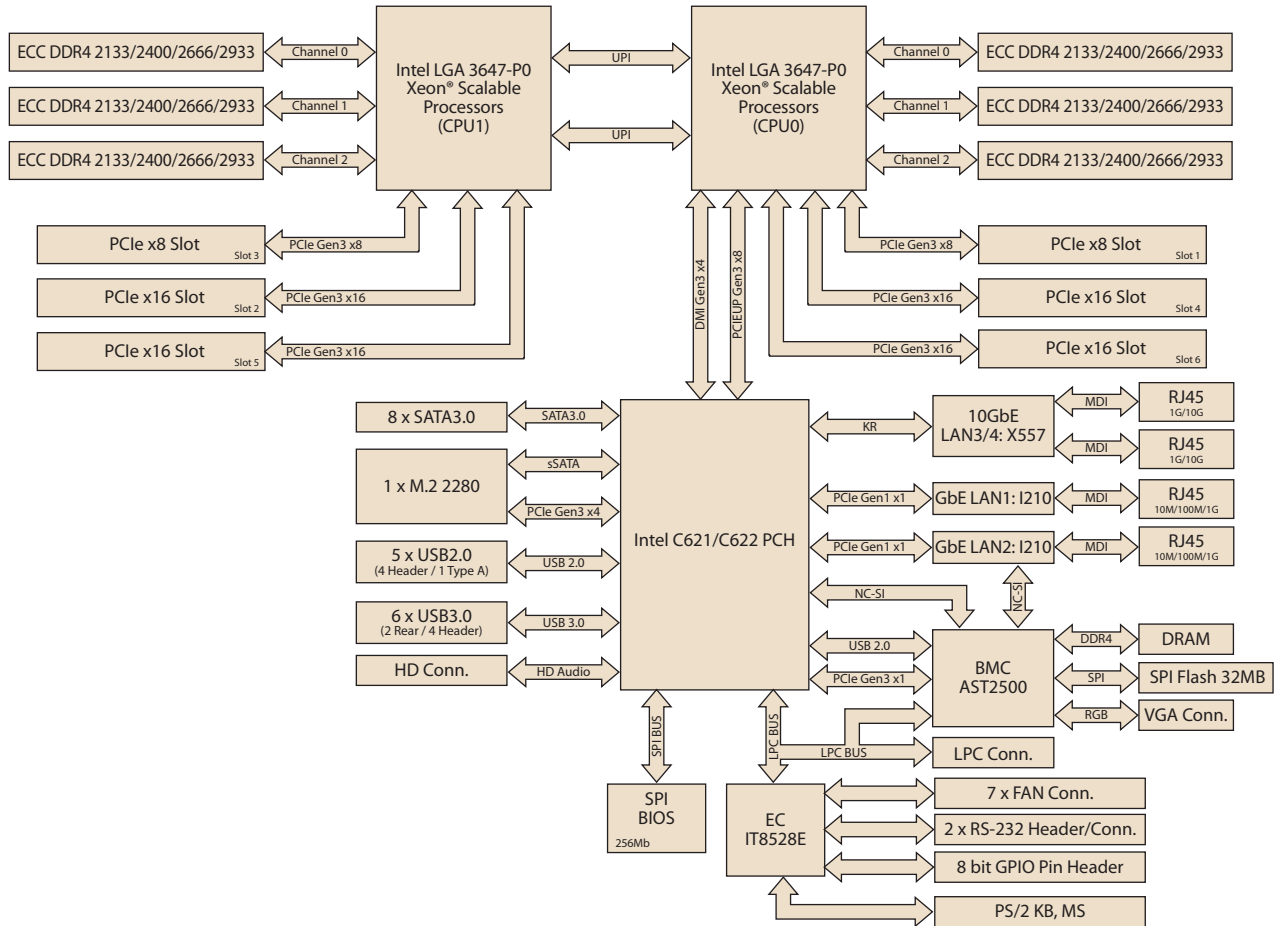
Specifications



CE FCC

Form Factor		19" 4U Rackmount
Processor System	Socket	Intel LGA 3647
	CPU type	Intel Xeon 1st and 2nd Gen Scalable dual processors (CPU cooler should be purchased separately and TDP up to 150W)
Core Logic	Chipset	Intel C621/C622 chipset
	Total slots	6 (1 DIMM per channel)
Memory	Capacity	Maximum 768GB ECC LRDIMM
		Maximum 768GB ECC 3DS RDIMM
	Memory type	DDR4 2133/2400/2666/2933MHz RDIMM, LRDIMM
	Memory size	4GB, 8GB, 16GB, 32GB, 64GB, 128GB
Expansion Slots	Total PCI/PCI-X/PCIe slots	6
	Slot location 1	PCIe x8 slot (x8 link), signal from CPU0
	Slot location 2	PCIe x16 slot (x16 link), signal from CPU1
	Slot location 3	PCIe x8 slot (x8 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
Graphics	VGA	Aspeed AST 2500/2510
	SATA controller	Intel C621/C622: 8 x SATA3.0 (6 Gb) support software RAID 0,1,5,10
Storage	SAS controller	-
	Networking	GbE/10GbE LAN
Onboard I/O 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	4 x USB2.0 ports (two onboard headers) + 4 x USB3.0 ports (two onboard headers) + 1 x Type-A USB2.0 port
	Fan header	7 x 4-pin (5 for system + 2 for CPU)
	M.2	1 x M.2 2280 B+M key (SATA and PCIe)
	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	2 (USB3.0)
	VGA port	1
	RJ-45	4 (LAN2 and LAN4 shared with BMC)
	PS/2 Keyboard/Mouse	-
	Infiniband	-
Management Solution	Software	-
	Out of band remote management	Yes (ASMB-8251 & ASMB-825T2)
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
	(150W CPU@2.6GHz DDR4 2400 8G*6)	1.32966A 4.31024A 0.68597A 0.25408A 0.056846A 21.5989A 17.5921A
Environment	Operating	Non-operating
	Temperature	0 ~ 40 °C, depends on CPU speed and cooler solution
	Humidity	10 ~ 95%
Physical Characteristics	Dimension (W x H x D)	482 x 177 x 479 mm (19" x 7" x 18.9")

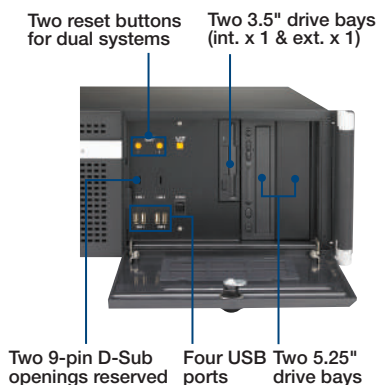
Block Diagram



Ordering Information

Part Number	Chipset	Memory	GbE LAN	IPMI	Graphics
TECH-4010-825	C621	6 x DDR4 RDIMM/LRDIMM	2	-	AST 2510

Front View



Inside View



I/O View

