

TECH-4010-815

LGA 3647-PO Intel® Xeon® Scalable ATX Server Board with 6 DDR4, 5 PCIe x8 or 2 PCIe x16 and 1 PCIe x8, 8 SATA3, 6 USB3.0, Dual 10GbE, IPMI



Features

- ATX server board with Xeon® Scalable processors
- DDR4 2933MHz RDIMM up to 768GB, support Apache Pass
- Five PCIe x8 or two PCIe x16 and 1 PCIe x8
- Intel® X557-AT2 dual 10GbE ports
- Eight SATA3 and one M.2 connectors (SATA / PCIe compatible)
- Supports Redundant ATX Power Supplies.
- 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.

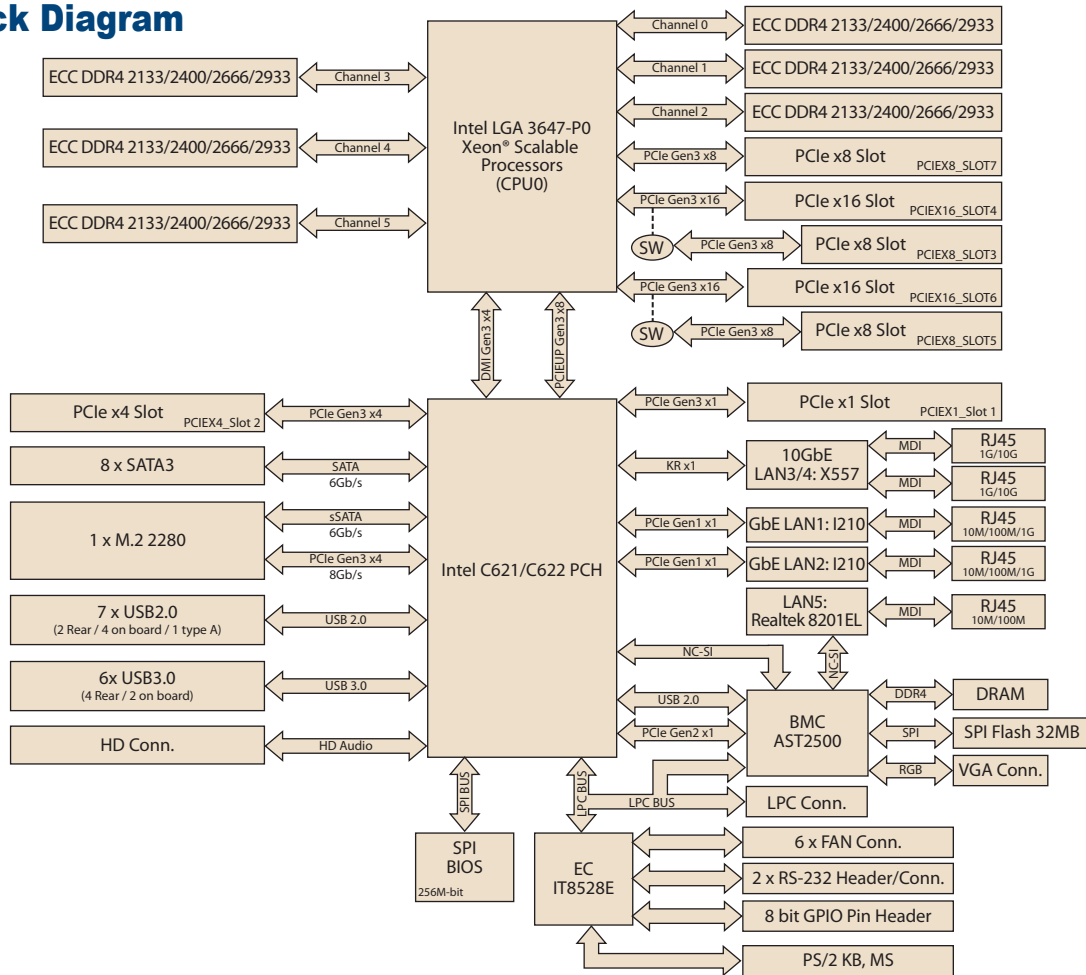
Specifications



CE FCC

Form Factor		19" 4U Rackmount
Processor System	Socket	Intel LGA 3647
	CPU type	Intel Xeon 1st and 2nd Gen Scalable processors (CPU cooler should be purchased separately and TDP up to 205W)
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	Maximum 1TB Intel Optane DC Persistent Memory in memory mode
	Memory size	DDR4 2133/2400/2666/2933MHz RDIMM, LRDIMM 4GB, 8GB, 16GB, 32GB, 64GB, 128GB
Expansion Slots	Total PCI/PCI-X/PCIe slots	7
	Slot location 1	PCIe x1 slot (x1 link), signal from PCH
	Slot location 2	PCIe x4 slot (x4 link), signal from PCH
	Slot location 3	PCIe x8 slot (0 or x8 link), signal from CPU
	Slot location 4	PCIe x16 slot (x8 or x16 link), signal from CPU
	Slot location 5	PCIe x8 slot (0 or x8 link), signal from CPU
	Slot location 6	PCIe x16 slot (x8 or x16 link), signal from CPU
Graphics	VGA	Asped AST 2500/2510
	SATA controller	Intel C621/C622: 8 x SATA3 (600 MB/s) support software RAID 0,1,5,10
Storage	SAS controller	-
	Networking	2 x Intel I210AT / Intel X557-AT2 (dual 10GbE ports)
Onboard I/O Connector	PSU connector	24-pin SSI power connector + 1 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) + 2 x USB3.0 ports (one onboard header) + 1 x Type-A USB2.0 port
	Fan header	6 x 4-pin (5 for system + 1 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	4 (USB3.0) + 2 USB (2.0)
	VGA port	1
	RJ-45	5 (1 port dedicated and 1 port shared with BMC)
	PS/2 Keyboard/Mouse	-
	Infiniband	-
Management Solution	Software	-
	Out of band remote management	Yes (ASMB-815I)
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
	(205W CPU@2.5GHz DDR4 2400 4G*6)	2.77127A 7.00549A 0.57829A 0.132880A 0.063951A 17.5801A
Environment	Operating	Non-operating
	Temperature	0 ~ 60 °C, depends on CPU speed and cooler solution
	Humidity	10% ~ 95% -40 ~ 85 °C 10% ~ 95% (Non condensing)
Physical Characteristics	Dimension (W x H x D)	482 x 177 x 479 mm (19" x 7" x 18.9")

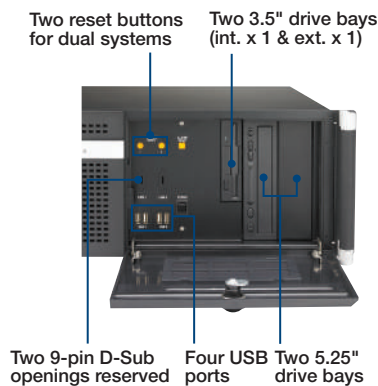
Block Diagram



Ordering Information

Part Number	Chipset	Memory	GbE/10GbE LAN	IPMI	Graphics
TECH-4010-815	C621	6 x DDR4 RDIMM/LRDIMM	2/-	Optional	AST 2510

Front View



Inside View



Bracket View

