

# TECH 4U 811-815

## 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



**BIS**  
Regn.No.  
R-85000140

Conforming to  
BIS Standard  
IS 13252  
(Part-1): 2010



CE FCC

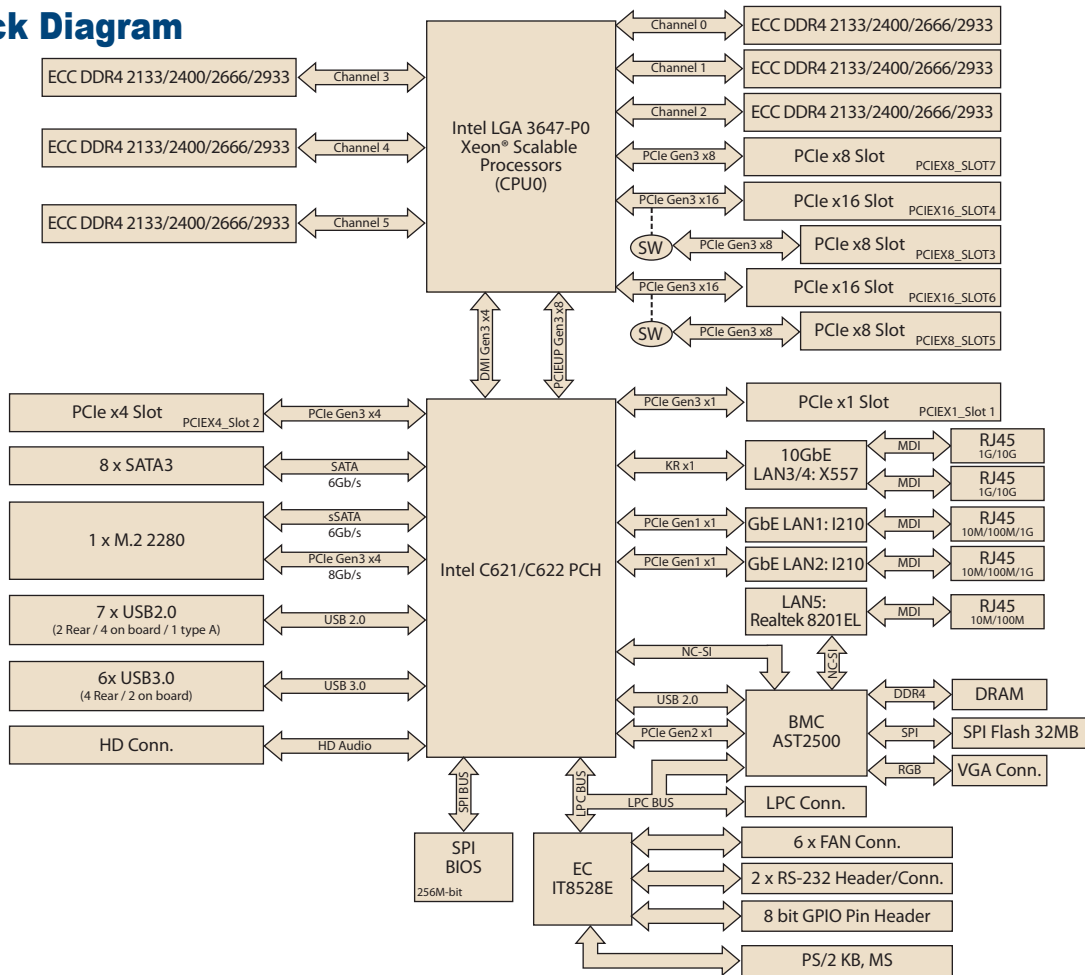
### Features

- 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 three 5.25" and one 3.5" disk drives.
- Front-accessible USB & PS/2 interfaces.
- Designed to withstand environmental extremes, such as shock, vibration and high temperature.
- Front LEDs indicate power status, and HDD activity. - Lockable front door prevents unauthorized access.
- Dual front-accessible filtered cooling fans provide optimized and streamlined airflow.
- Supports Internal 5.25" DVD-RW.

### Specifications

Form Factor		ATX form factor
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
Memory	Total slots	6 (1 DIMM per channel)
	Capacity	Maximum 768GB ECC LRDIMM Maximum 768GB ECC 3DS RDIMM Maximum 1TB 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
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
Slot location 7	PCIe x8 slot (x8 link), signal from CPU	
Graphics	VGA	Aspeed AST 2500/2510
Storage	SATA controller	Intel C621/C622: 8 x SATA3 (600 MB/s) support software RAID 0,1,5,10
	SAS controller	-
Networking	GbE/10GbE LAN	2 x Intel I210AT / Intel X557-AT2 (dual 10GbE ports)
	PSU connector	24-pin SSI power connector + 1 x 8-pin SSI 12 V power connector + 4-pin SSI 12 V power connector
Onboard I/O 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
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	Temperature	Operating 0 ~ 60 °C, depends on CPU speed and cooler solution Non-operating -40 ~ 85 °C
	Humidity	10% ~ 95%      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 4U 811-815	C621	6 x DDR4 RDIMM/LRDIMM	2/-	Optional	AST 2510

### Front View



### Rear View



### Bracket View

