

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

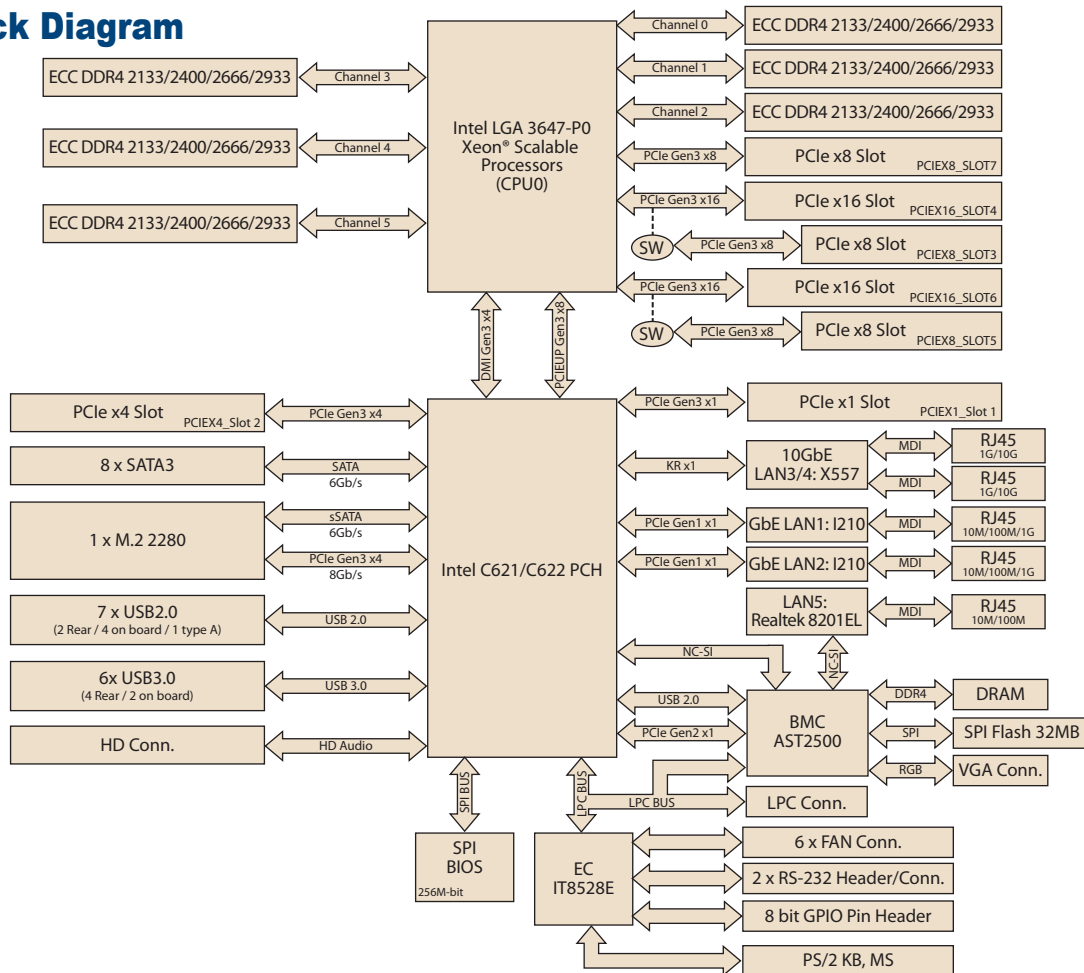
Features

- 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
	Total PCI/PCI-X/PCIe slots	7
Expansion Slots	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)
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	-
	Software	-
Management Solution	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 -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

