

TECH-4010-816

LGA 4189 Intel® 3rd Gen Xeon® Scalable ATX Server Board with 8x DDR4, 3x PCIe x16, 8x SATA 3, 6x USB 3.2 (Gen1), Dual 10GbE, and IPMI



Features

- LGA4189 ATX server board with 3rd Gen. Xeon® Scalable processor
- DDR4 3200 MHz RDIMM up to 512 GB (8 DIMMs) supports Intel® Optane™ Persistent Memory
- 3x PCIe x16, 1x PCIe x8, 2x PCIe x4, and 1x PCIe x1
- Intel® X550 dual 10GbE ports
- Eight SATA 3 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

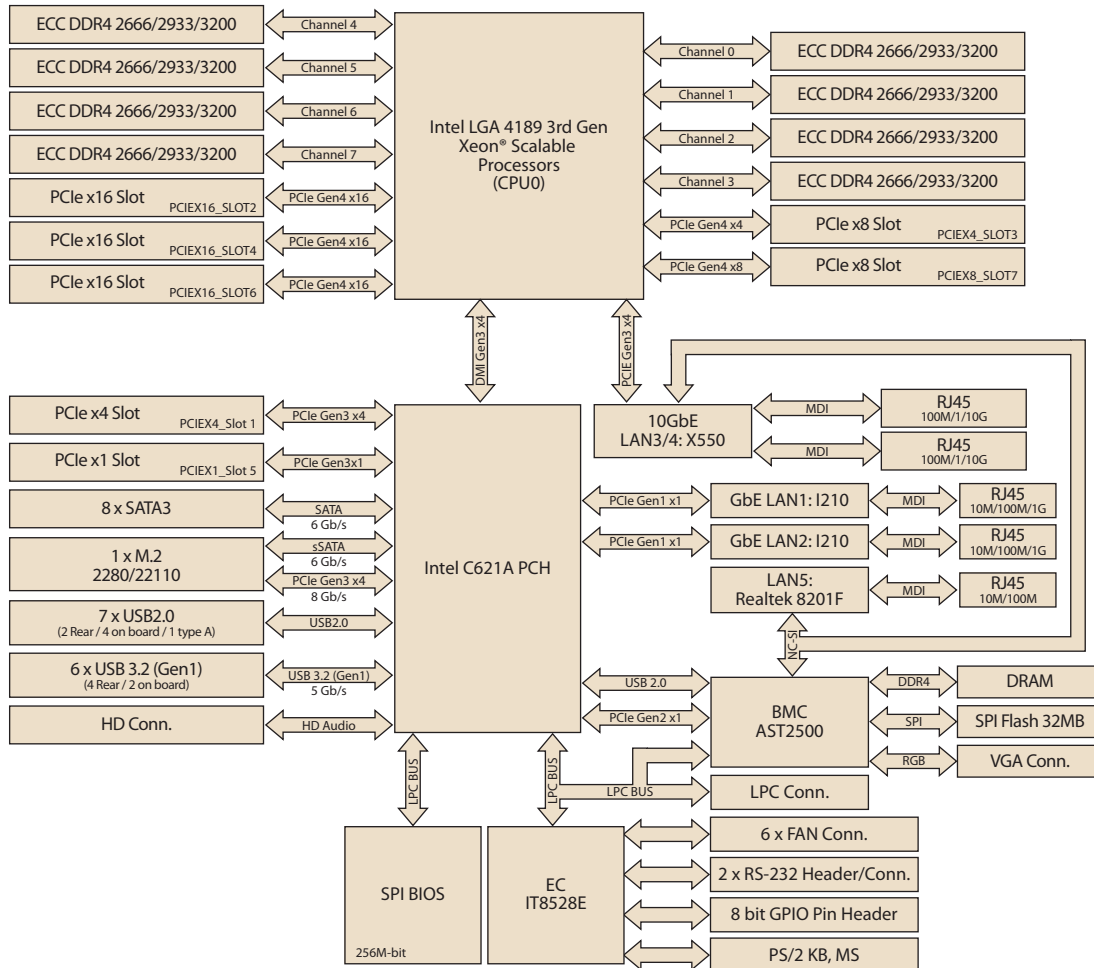


CE FCC

Form Factor		19" 4U Rackmount				
Processor System	Socket	Intel LGA4189 (Socket P+)				
	CPU type	Intel 3 rd Generation Xeon Scalable processors (CPU cooler should be purchased separately*)				
Core Logic	Chipset	Intel C621A chipset				
Memory	Total slots	8x (1 DIMM per channel)				
	Capacity	Maximum 512GB ECC RDIMM				
	Memory type	DDR4 ECC-REG 2666/2933/3200 MHz RDIMM/LRDIMM, supports Intel® Optane™ Persistent Memory				
	Memory size	8 GB, 16 GB, 32 GB, 64 GB, 128 GB (LRDIMM)				
Expansion Slots	Total PCI/PCI-X/PCIe slots	7				
	Slot location 1	PCIe x4 slot (x4 link), signal from PCH				
	Slot location 2	PCIe x16 slot (x16 link), signal from CPU				
	Slot location 3	PCIe x8 slot (x4 link), signal from CPU				
	Slot location 4	PCIe x16 slot (x16 link), signal from CPU				
	Slot location 5	PCIe x1 slot (x1 link), signal from PCH				
	Slot location 6	PCIe x16 slot (x16 link), signal from CPU				
Graphics	VGA	Aspeed AST 2500/2510				
	SATA controller	Intel® C621A: 8 x SATA 3 (600 MB/s) support software RAID 0,1,5,10				
Storage	SAS controller	-				
	Networking	GbE 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 USB 2.0 ports (two onboard headers) + 2 x USB 3.2 Gen1 ports (one onboard header) + 1 x Type-A USB 2.0 port				
	Fan header	6 x 4-pin (5 for system + 1 for CPU)				
	M.2	1 x M.2 2280/22110 B+M key (SATA and PCIe)				
	SMBus	1				
	Chassis intruder	1				
	Front LAN LED	1				
	Audio Header	1				
	PS/2 KB/Mouse	1				
	Serial port header	1				
	Rear I/O Connector	External serial port	1			
External USB port		4x (USB 3.2 Gen1) + 2x USB (2.0)				
VGA port		1				
RJ-45		2x				
PS/2 KB/mouse		-				
Management Solution	Software	-				
	Out of band remote management	Yes				
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
	(220W CPU@2.6GHz DDR4 2400 8G*8)	2.14	2.732	0.21	0.22	0.077 25.14
Environment	Operating Temperature	0 ~ 60 °C/32 ~ 140 °F, depends on CPU speed and cooling solution				Non-operating
	Humidity	10% ~ 95%				-40 ~ 85 °C/-40 ~ 185 °F
	Physical Characteristics	Dimension (W x H x D) 482 x 177 x 479 mm (19" x 7" x 18.9")				

*CPU power design support up to 270W TDP. Please consider extended air thermal solution while using CPU > 205W TDP.

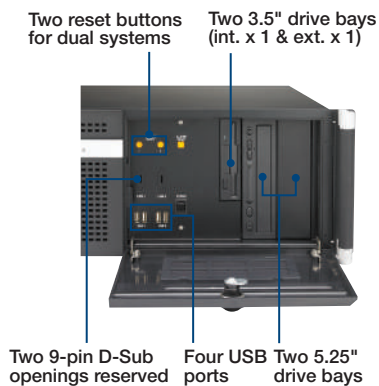
Block Diagram



Ordering Information

Part Number	Chipset	Memory	GbE LAN	IPMI	Graphics
TECH-4010-816	C621A	DDR4 RDIMM	2	-	AST2510

Front View



Inside View



I/O View

