

TECH4U-610-586

LGA 1151 Intel® Xeon® E & 8th/9th Generation Core™ MicroATX Server Board with 4 DDR4, 4 PCIe, 6 USB 3.1, 8 SATA3, Quad/Dual LANs, IPMI



BIS
Regn.No.
R-85000140

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

Features

- LGA 1151 Intel® Xeon® E and 8th/9th generation Core™ i7/i5/i3 processors with C246 chipset
- DDR4 ECC/Non-ECC 2666/2400/2133 MHz UDIMM up to 128GB One PCIe x16, two PCIe x4 and one PCIe x1 slots
- Triple displays - DVI-D, VGA and HDMI 2.0 ports
- Eight SATA3 ports and six USB 3.1 ports
- Supports Software RAID 0, 1, 5, 10.
- Supports 400 W ATX PFC PS/2 power supply.
- Easy to install front-accessible drive bays to hold three 5.25" and one 3.5" disk drives.
- Front-accessible USB & PS/2 interfaces.
- Front LEDs indicate power status, and HDD activity.
- Lockable front door prevents unauthorized access.
- Supports Internal 5.25" DVD-RW.

Note: Supported OS including Windows 10 (64-bit) and Server 2016 (64-bit) have been validated.

Specifications

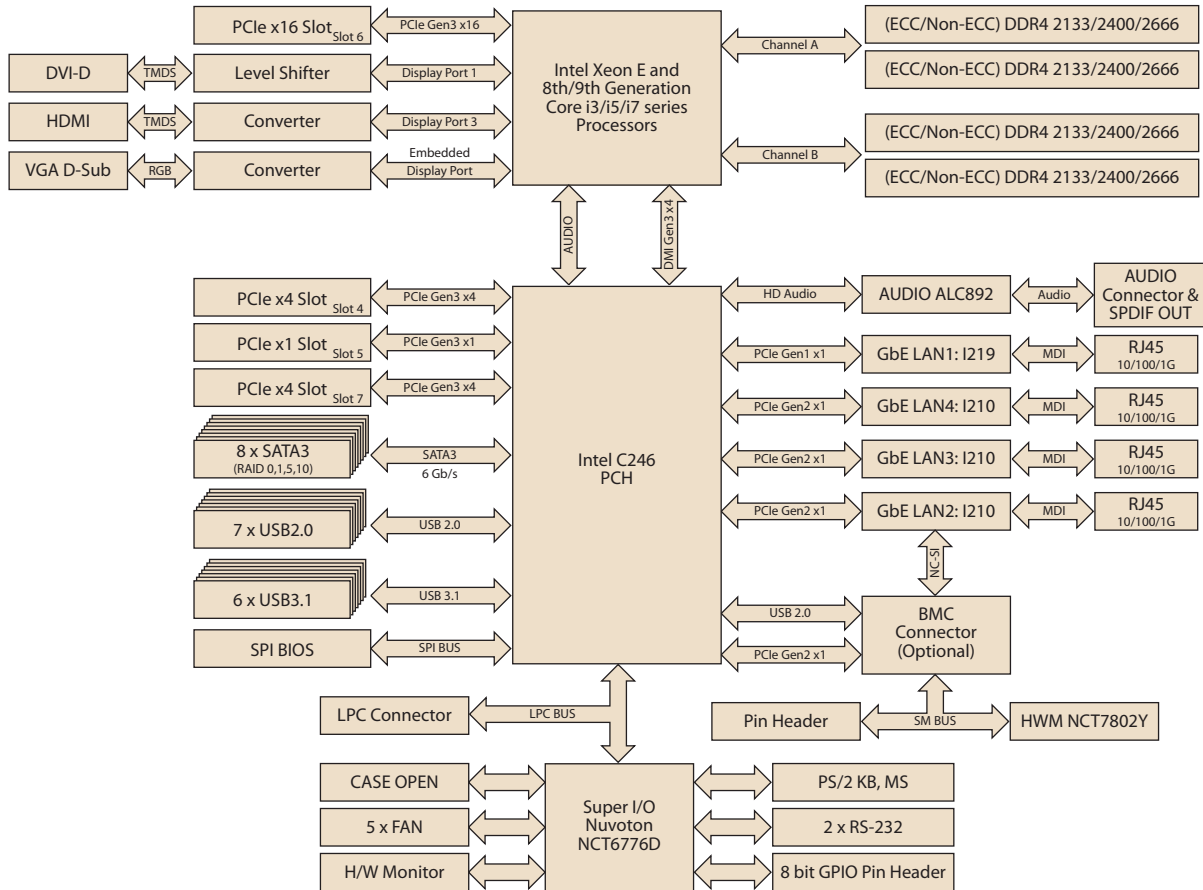


Form Factor	19" 4U Rackmount		
Processor System	Socket	Intel LGA 1151	
	CPU type	Intel® Xeon® E-21xx/E-22xx and 8th/9th Gen Core™ i3/i5/i7 series processors (TDP up to 95W)	
Core Logic	Chipset	Intel C246 chipset	
Memory	Total slots	4 (Dual Channel)	
	Capacity	Maximum 128 GB	
	Memory type	DDR4 ECC/Non-ECC 2666/2400/2133 MHz UDIMM (288-pin)*	
	Memory size	4 GB, 8 GB, 16 GB, 32GB	
Expansion Slots	Total PCIe slots	4	
	Slot location 1	-	
	Slot location 2	-	
	Slot location 3	-	
	Slot location 4	PCIe x4 slot (Gen3 x4 link)	
	Slot location 5	PCIe x1 slot (Gen3 x1 link)	
	Slot location 6	PCIe x16 slot (Gen3 x16 link)	
Graphics	Controller	Intel HD Graphics**	
	VRAM	1 GB maximum shared memory with 2 GB and above system memory installed	
Storage	SATA controller	Intel C246: 8 SATA3 6Gb/s Intel Rapid Storage Technology Enterprise (for Windows only) (Supports software RAID 0, 1, 10 & 5)	
	SAS controller	-	
Networking	GbE LAN	1 x Intel I219LM + 3 x Intel I210AT	
Onboard I/O Connector	LPT connector	-	
	PSU connector	24-pin SSI power connector + 8-pin SSI 12 V power connector	
	USB connector	1 USB 3.1 Gen 1 (2 ports), 3 USB 2.0 (6 ports), 1 USB Type-A	
	Fan header	5 (4-pin)	
	SMBus	1	
	Chassis intruder	1	
	Front LAN LED	2	
	Serial port header	2 (RS-232)	
	Audio Header	1 (ALC 892)	
	PS/2 KB/Mouse	1 (Optional PS/2 KB/Mouse cable and bracket required)	
	Rear I/O Connector	External serial port	- (via COM cable in the package)
		External USB port	4 (USB 3.1 Gen 2)
VGA port		1 (Resolution up to 1920 x 1200 @ 60 Hz)	
DVI port		1 (Resolution up to 1920 x 1200 @ 60 Hz)	
HDMI		1 (Resolution up to 4096 x 2160 @ 60 Hz)	
RJ-45		4	
PS/2 KB/mouse		-	
Audio		2 (Mic-in , Line-out)	
Watchdog Timer	Output	System reset	
	Interval	Programmable 1 ~ 255 sec/min	
Power Requirement	Power On	3.3 V 5 V 12 V 12V_8P 5 Vsb -12 V	
	(Xeon E-2176G 3.7GHz DDR4 2400 4G*4)	3.87A 4.11A 0.63A 6.28A 0.09A 0.238A	
Environment	Temperature	Operating: 0 ~ 60° C, depends on CPU speed and cooler solution Non-operating: -40 ~ 85° C	
	Humidity	0% ~ 95% 5% ~ 95% (Non condensing)	
Physical Characteristics	Dimensions (W x H x D)	482 x 177 x 466 mm (19" x 7" x 17.6")	

* ECC will not be supported when paired with Core i5/i7 processors.

** Some Xeon processors have no graphic support. Please check Intel specification for processor graphics availability.

Block Diagram



Ordering Information

Part Number	Chipset	Memory	Display	LAN	SATAIII	IPMI
TECH4U-610-586	C246	DDR4 ECC/Non-ECC	VGA + DVI-D + HDMI	2	8	Optional



USB & PS/2 Power LED



One 3.5" drive bay
Three 5.25" drive bays
One internal 3.5" drive bay space



Motherboard can fit in 450 mm (17.7") depth

I/O View

