

# TECH4U-610-587

## LGA 1200 Intel® Xeon® W & 10th Gen. Core™ MicroATX Server Board with 4 x DDR4, 3 x PCIe, 4 x USB 3.2, 5 x SATA3, Quad/Dual LANs, and IPMI



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

### : YUhi fYg

- LGA 1200 Intel® Xeon® W and 10th Gen. Core™ i9/i7/i5/i3 processor with W480E chipset
- DDR4 ECC/Non-ECC 2933/2666/2400 MHz UDIMM up to 128 GB
- One PCIe x16 and 2 x PCIe x4 slots
- Triple displays - DVI-D, VGA, and HDMI 2.0 ports
- Five SATA 3 ports and four USB 3.2 ports
- One M.2 22110/2280 (SATA / PCIe compatible)
- Supports Software RAID 0, 1, 5, 10 (for Windows only).
- 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 2019 (64-bit) have been validated.**

GdYVZVWhcbg



CE FCC

Form Factor		19" 4U Rackmount					
Processor System	Socket	Intel® LGA 1200					
	CPU type	Intel® Xeon® W-1270x/W-1290x and 10th Gen. Core™ i3/i5/i7/i9 series processors (TDP up to 125W)					
Core Logic	Chipset	Intel® W480E chipset					
Memory	Total slots	4 (Dual Channel)					
	Capacity	Maximum 128 GB					
	Memory type	DDR4 ECC/Non-ECC 2933/2666/2400 MHz UDIMM (288-pin)*					
	Memory size	4 GB, 8 GB, 16 GB, 32GB					
Expansion Slots	Total PCIe slots	3					
	Slot location 1	-					
	Slot location 2	-					
	Slot location 3	-					
	Slot location 4	PCIe x4 slot (Gen3 x4 link)					
	Slot location 5	-					
	Slot location 6	PCIe x16 slot (Gen3 x16 link)					
Graphics	Slot location 7	PCIe x4 slot (Gen3 x4 link)					
	Controller	Intel® HD Graphics**					
Storage	VRAM	1 GB maximum shared memory with 2 GB and above system memory installed					
	SATA controller	Intel® W480E: 5 SATA3 6Gb/s ports with Rapid Storage Technology support (for Windows only) (Supports software RAID 0, 1, 10 & 5)					
Networking	SAS controller	-					
	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 x USB 3.2 Gen 1 (2 ports), 3 x USB 2.0 (6 ports), 1 x USB Type-A					
	M.2 connector	1 x M.2 22110/2280 (PCIe/SATA)					
	Fan header	5 x (4-pin)					
	SMBus	1					
	Chassis intruder	1					
	Front LAN LED	2					
	Serial port header	2 x (RS-232)					
	Audio Header	1 x (ALC 892)					
	PS/2 KB/Mouse	1 x (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 x (USB 3.2 Gen 2)					
	VGA port	1 x (Resolution up to 1920 x 1200 @ 60 Hz)					
	DVI port	1 x (Resolution up to 1920 x 1200 @ 60 Hz)					
	HDMI	1 x (Resolution up to 4096 x 2160 @ 60 Hz)					
	RJ-45	4					
	PS/2 KB/mouse	-					
Audio	2 x (Mic-in , Line-out)						
Power Requirement	Power On	3.3 V	5 V	12 V	12V_8P	5 V <sub>SB</sub>	-12 V
	(Xeon W-1290E 3.5GHz DDR4 2666 32G*4)	0.75A	1.43A	0.66A	7.08A	0.13A	0.1A
Environment	Operating	Operating					Non-operating
	Temperature	0 – 60 °C, depends on CPU speed and cooler solution					-40 – 85 °C
Watchdog Timer	Humidity	40 °C @ 95% RH Non-condensing					60 °C @ 95% RH Non-condensing
	Output	System reset					
Physical Characteristics	Interval	Programmable 1 ~ 255 sec/min					
	Dimensions (W x H x D)	482 x 177 x 466 mm (19" x 7" x 17.6")					

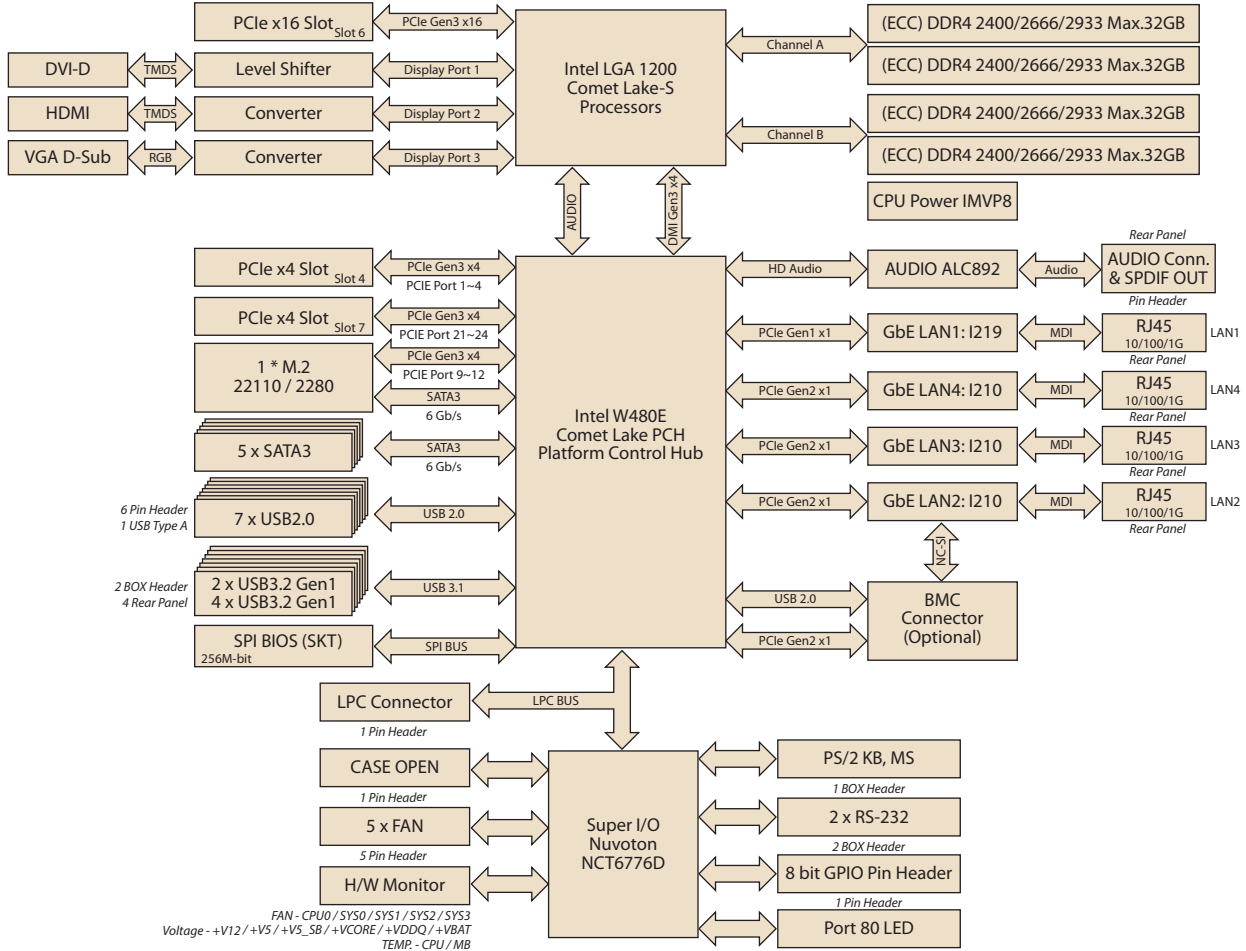
\* ECC will not be supported when paired with Core i5/i7/i9 processors.

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

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All product specifications are subject to change without notice.

**Block Diagram**



**Ordering Information**

Part Number	Chipset	Memory	Display	LAN	SATAIII	IPMI
TECH4U-610-587	W480E	DDR4 ECC/Non-ECC	VGA + DVI-D + HDMI	2	5	Optional



HDD LED    Power switch  
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**

