

# TECH-4010-586

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



### Features

- LGA 1151 Intel<sup>®</sup> Xeon<sup>®</sup> E and 8th/9th generation Core<sup>™</sup> 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 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.

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

### Specifications



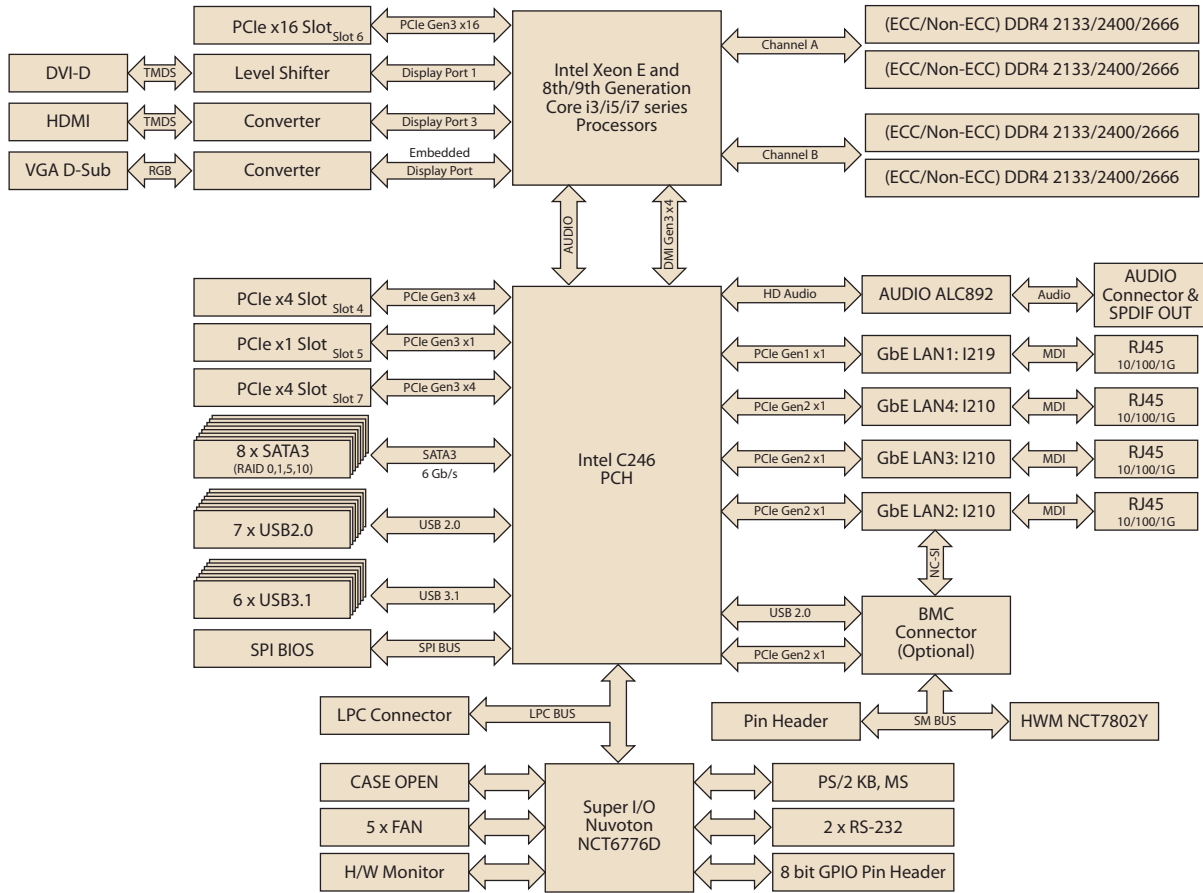
CE FCC

Form Factor		19" 4U Rackmount					
Processor System	Socket	Intel LGA 1151					
	CPU type	Intel <sup>®</sup> Xeon <sup>®</sup> E-21xx/E-22xx and 8th/9th Gen Core <sup>™</sup> 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	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 C246: 8 SATA3 6Gb/s Intel Rapid Storage Technology Enterprise (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 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		-					
Watchdog Timer	Audio	2 (Mic-in , Line-out)					
	Output	System reset					
Power Requirement	Interval	Programmable 1 ~ 255 sec/min					
	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	Operating	0 ~ 60° C, depends on CPU speed and cooler solution			Non-operating		
	Temperature				-40 ~ 85° C		
Physical Characteristics	Humidity	0% ~ 95%			5% ~ 95% (Non condensing)		
	Dimensions (W x H x D)	482 x 177 x 479 mm (19" x 7" x 18.9")					

\* 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.

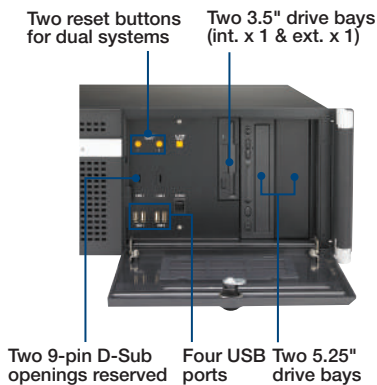
### Block Diagram



### Ordering Information

Part Number	Chipset	Memory	Display	LAN	SATAIII	IPMI
TECH-4010-586	C246	DDR4 ECC/Non-ECC	VGA + DVI-D + HDMI	2	8	Optional

### Front View



### Inside View



### I/O View

