

# TECH 4U 811

LGA 1151 Intel® Xeon® E3 v5/v6 & 6th/7th Generation Core™ i7/i5/i3 ATX Server Board with DDR4, 4 PCIe, 3 PCI, 6 USB 3.0, 6 SATA3, Quad/Dual LANs System



**BIS**  
Regn.No.  
R-85000140

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



CE FCC

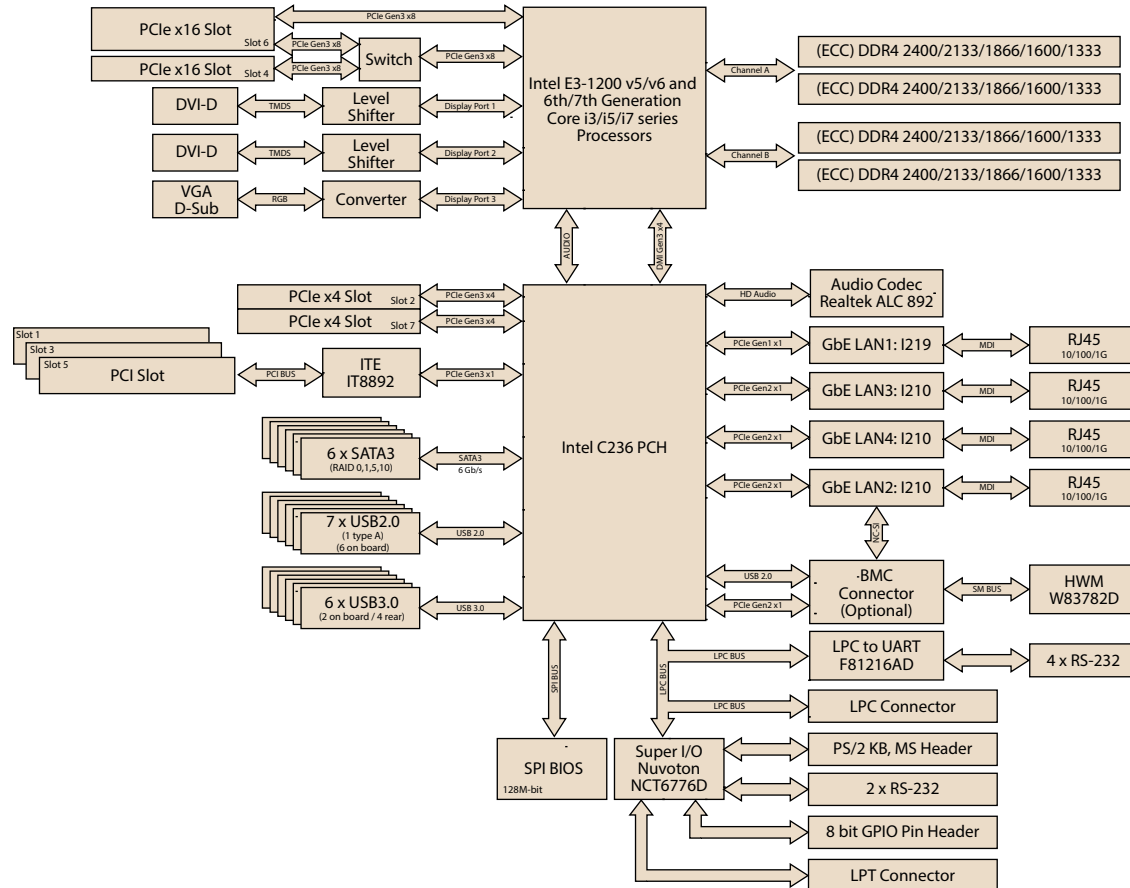
## Features

- Supports LGA 1151 Intel® Xeon® E3-1200 v5/v6 and 6th/7th Generation Core™ i7/i5/i3 processors.
- DDR4 2400/2133/1866/1600/1333 MHz ECC/Non-ECC UDIMM up to 64 GB
- One Gen 3.0 PCIe x16 link (or two PCIe x16 slots with x8 link), two PCIe x4, and three PCI slots.
- Rackmount optimized placement with positive air flow design
- 0 ~ 60° C ambient operation temperature range
- Supports 400 W ATX PFC PS/2 power supply and redundant ATX power supplies.
- Easy to install front-accessible drive bays to hold three 5.25" and two 3.5" 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 1151						
	CPU type	Intel® Xeon® E3-1200 v5/v6 and 6th/7th Generation Core™ i3/i5/i7 series (TDP up to 91W)						
Core Logic	Chipset	Intel C236 chipset						
Memory	Total slots	4 (Dual Channel)						
	Max. capacity	64 GB						
	Memory type	DDR4 ECC/Non-ECC 2400/2133/1866/1600 MHz UDIMM (288-pin)						
	Memory size	4 GB, 8 GB, 16 GB						
Expansion Slots	Total PCI/PCI-X/PCIe slots	7						
	Slot location 1	PCI						
	Slot location 2	PCIe x4 slot (Gen3 x4 link)						
	Slot location 3	PCI						
	Slot location 4	PCIe x16 slot (Gen3 x8 link)						
	Slot location 5	PCI						
	Slot location 6	PCIe x16 slot (Gen3 x8 or 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 C236: 6 SATA3 6 Gb/s ports with Intel Matrix Storage support (for Windows only) (Supports software RAID 0, 1, 10 & 5)						
Networking	SAS controller	-						
	Interface	10/100/1000 Mbps						
	Controller	GbE LAN1: Intel I219; GbE LAN 2-4: Intel I210-AT						
Onboard I/O Connectors	Connector	RJ-45 x 2 for G2 version; RJ-45 x 4 for G4 version						
	Printer Port connector	1						
	PSU connector	24-pin SSI power connector + 8-pin SSI 12V power connector						
	USB connector	1 USB 3.0 (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 (support 4 RS-232 ports) + 1 (support 1 RS-232 port)						
	Audio connector	1 (ALC 892)						
	PS/2 KB/Mouse	1						
	Rear I/O Connectors	External serial port	1					
		External USB port	4 (USB 3.0)					
VGA port		1						
DVI		2						
Display port		-						
RJ-45		2 for G2 version; 4 for G4 version						
Audio connector		2 (Mic-in, Line-out)						
PS/2 KB/Mouse		-						
Watchdog Timer	Output	System reset						
	Interval	Programmable 1 ~ 255 sec						
Power Requirement	Power On	3.3 V	5 V	12 V	12V_8P	5 Vsb	-12 V	
		0.96A	1.58A	0.32A	7.21A	0.11A	0.06A	
		Operating					Non-operating	
Environment	Temperature	0 ~ 60° C (32 ~ 140° F)					-40 ~ 85° C (-40 ~ 185° F)	
		Depends on CPU speed and cooler solution						
	Humidity	10 ~ 90%					10 ~ 95% (Non-condensing)	
Physical Characteristics	Dimensions (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	LAN	USB 3.0	DVI	SATAIII	IPMI
TECH 4U 811	C236	DDR4 Non-ECC/ECC UDIMM	2	6	2	6	Optional

### Front View



### Rear View



### Bracket View

