

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-65000140

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



CE FCC

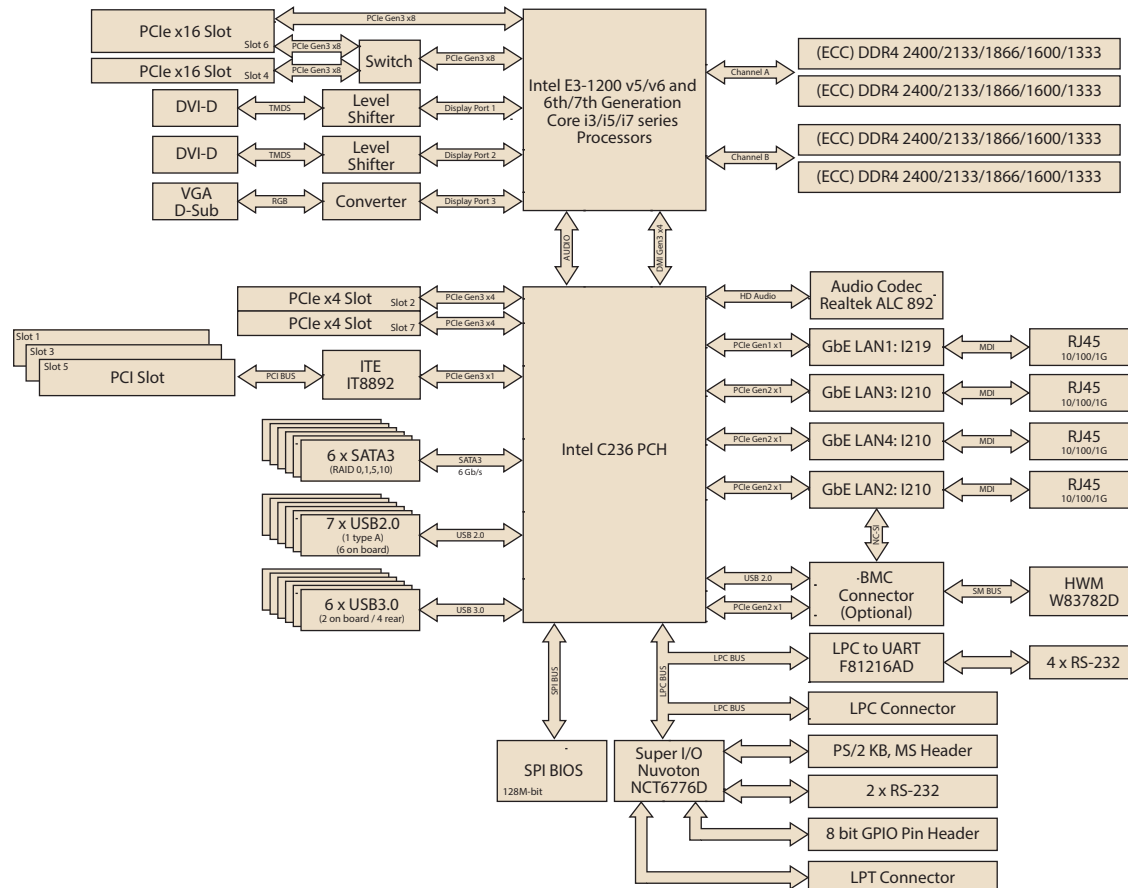
Features

- 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.

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)
	Slot location 7	PCIe x4 slot (Gen3 x4 link)
Graphics	Controller	Intel HD Graphics
	VRAM	1 GB maximum shared memory with 2 GB and above system memory installed
Storage	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)
	SAS controller	-
Networking	Interface	10/100/1000 Mbps
	Controller	GbE LAN1: Intel I219; GbE LAN 2-4: Intel I210-AT
	Connector	RJ-45 x 2 for G2 version; RJ-45 x 4 for G4 version
Onboard I/O Connectors	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
	External serial port	1
Rear I/O Connectors	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	Intel® Xeon® E3-1275 v5 3.60GHz; DDR4 8G x 4
		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
Environment	Operating	Non-operating
	Temperature	0 ~ 60° C (32 ~ 140° 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

