

# TECH 4U 611-823

**Dual LGA 2011-R3 Intel® Xeon® E5-2600 v3/v4 ATX Server Board with 6 DDR4, 4 PCIe x16, 6 USB 3.0, SATA3, Dual LAN, IPMI**



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

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



CE FCC

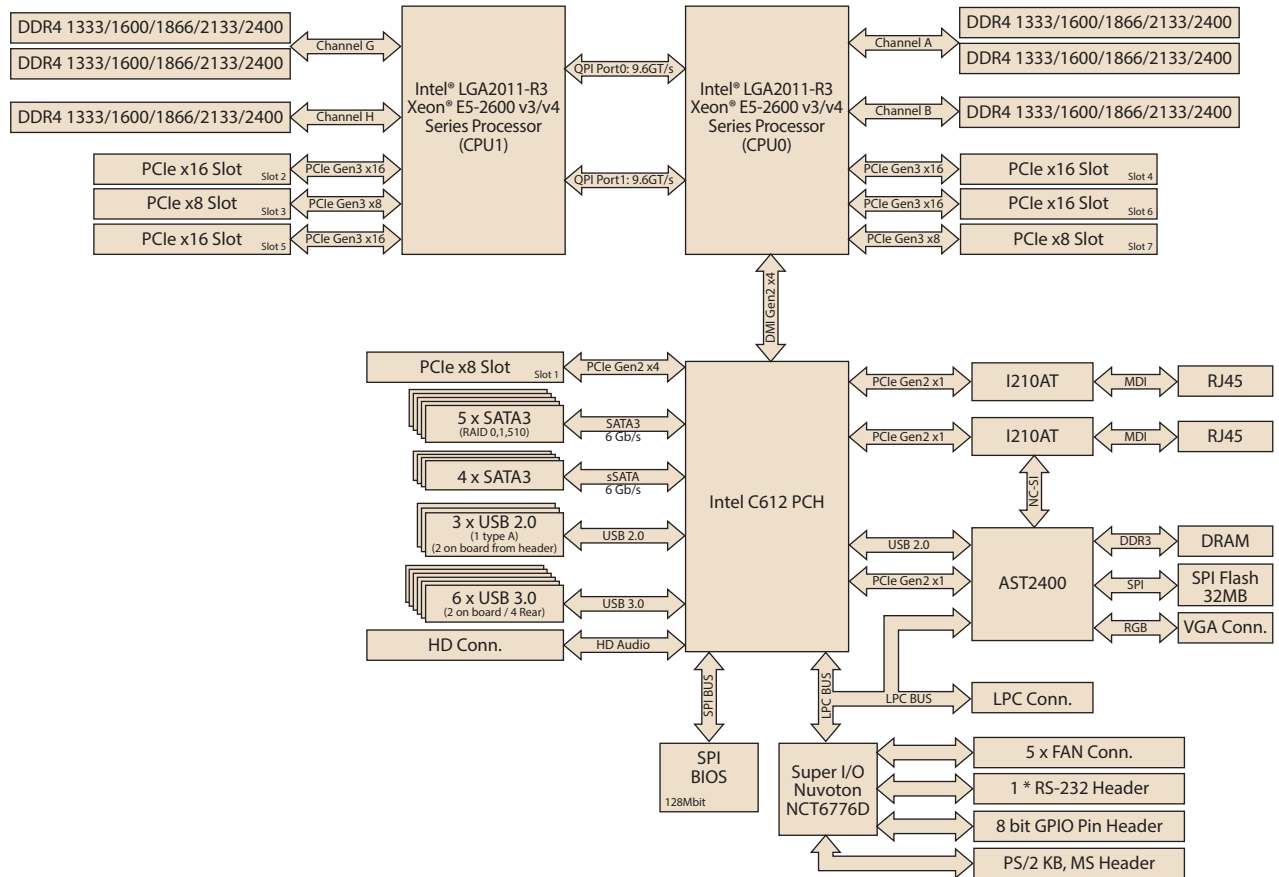
## Features

- ATX server board with dual Xeon® E5-2600 v3/v4 processors
- DDR4 2400 MHz RDIMM up to 192 GB
- Four PCIe x16 slots (Gen3), two PCIe x8 (Gen3) and one PCIe x4 (Gen2) slots.
  - Nine SATA3 ports and six USB 3.0 ports.
- 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 one 3.5" disk 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 2011-R3				
	CPU type	Intel® Xeon® E5-2600 v3/v4 dual processor (CPU cooler should be purchased separately and TDP up to 160W) Intel® Xeon® E5-1600 v3/v4 Series (1S conditional support, please contact to Advantech application engineer)				
Core Logic	Chipset	Intel C612 chipset				
Memory	Total slots	6 (Quad Channel)				
	Capacity	Maximum 192 GB ECC RDIMM				
	Memory type	DDR4 ECC-REG 2400/2133/1866/1600/1333 MHz DIMM				
	Memory size	1 GB, 2 GB, 4 GB, 8 GB, 16 GB, 32 GB				
Expansion Slots	Total PCI/PCI-X/PCIe slots	7				
	Slot location 1	PCIe x8 slot (x4 link), signal from PCH				
	Slot location 2	PCIe x16 slot (x16 link), signal from CPU1				
	Slot location 3	PCIe x8 slot (x8 link), signal from CPU1				
	Slot location 4	PCIe x16 slot (x16 link), signal from CPU0				
	Slot location 5	PCIe x16 slot (x16 link), signal from CPU1				
	Slot location 6	PCIe x16 slot (x16 link), signal from CPU0				
	Slot location 7	PCIe x8 slot (x8 link), signal from CPU0				
Graphics	VGA	Aspeed AST2400/1400 64 MB				
	IDE controller	-				
	SATA controller	Intel C610: 9 SATA3 6 Gb/s ports Intel Rapid Storage Technology (for Windows only) (SATA0-SATA4 supports software RAID 0, 1, 10 & 5)				
Storage	SAS controller	-				
	GbE LAN	2 x Intel I210AT				
Networking	Floppy connector	-				
	PSU connector	24-pin SSI power connector + 2 x 8-pin SSI 12 V power connector + 4-pin SSI 12 V power connector				
	USB connector	2 x USB2.0 ports (in one header) + 2 x USB3.0 ports (in one header) + 1* Type-A USB2.0 ports				
	Fan header	5 x 4-pin (2 for CPU + 3 for SYS)				
	SMBus	1				
	Chassis intruder	1				
	Front LAN LED	2				
	Audio Header	1				
	Serial port header	1				
	Rear I/O Connector	External serial port	-			
External USB port		4 (USB 3.0)				
VGA port		1				
RJ-45		2 (one sharing IPMI function)				
PS/2 KB/mouse		1 (by onboard connector)				
Infiniband		-				
Management Solution	Software	-				
	Out of band remote management	Yes				
Monitoring	CPU temperature	Yes				
	System Monitoring	Yes				
Watchdog Timer	Output	System reset				
	Interval	Programmable 1 ~ 255 sec/min				
Power Requirement	Power On	3.3V	5V	12V	5Vsb	-12V
		1.67A	0.85A	18.11A	0.05A	0.004A
Environment	Temperature	Operating			Non-operating	
		0 ~ 40 °C, depends on CPU speed and cooler solution			-40 ~ 85 °C	
		Humidity			10% ~ 95% (Non condensing)	
Physical Characteristics	Dimension (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	GbE LAN	IPMI	Graphics
TECH 4U 611-823	C612	DDR4 RDIMM	2	Optional	AST 1400

Front View



Rear View



Bracket View

