

# TECH 4U 511

## LGA1150 4th Generation Intel® Core™ i7/i5/i3/ Pentium ATX with DVI/VGA, DDR3, SATA III



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



### Features

- Supports LGA 1150 Intel® 4th Generation Core i7/i5/i3 processors.
- One PCIe x16, One PCIe x4, One PCIe x1 & Four PCI slots.
- Four DIMM sockets support up to 32 GB DDR3 1333/1600.
- Rackmount optimized placement with positive air flow design.
- Supports Intel vPro, iAMT 9.0 & TPM technologies
- Supports 400/300 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 (one front-accessible & one internal).
- 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 triple display VGA/2 DVI-D and dual GbE LAN
- Supports SATA RAID 0, 1, 5, 10, USB 3.0
- Supports Internal 5.25" DVD-RW.

### Specifications

Software APIs:



SMBus

H/W Monitor

Watchdog

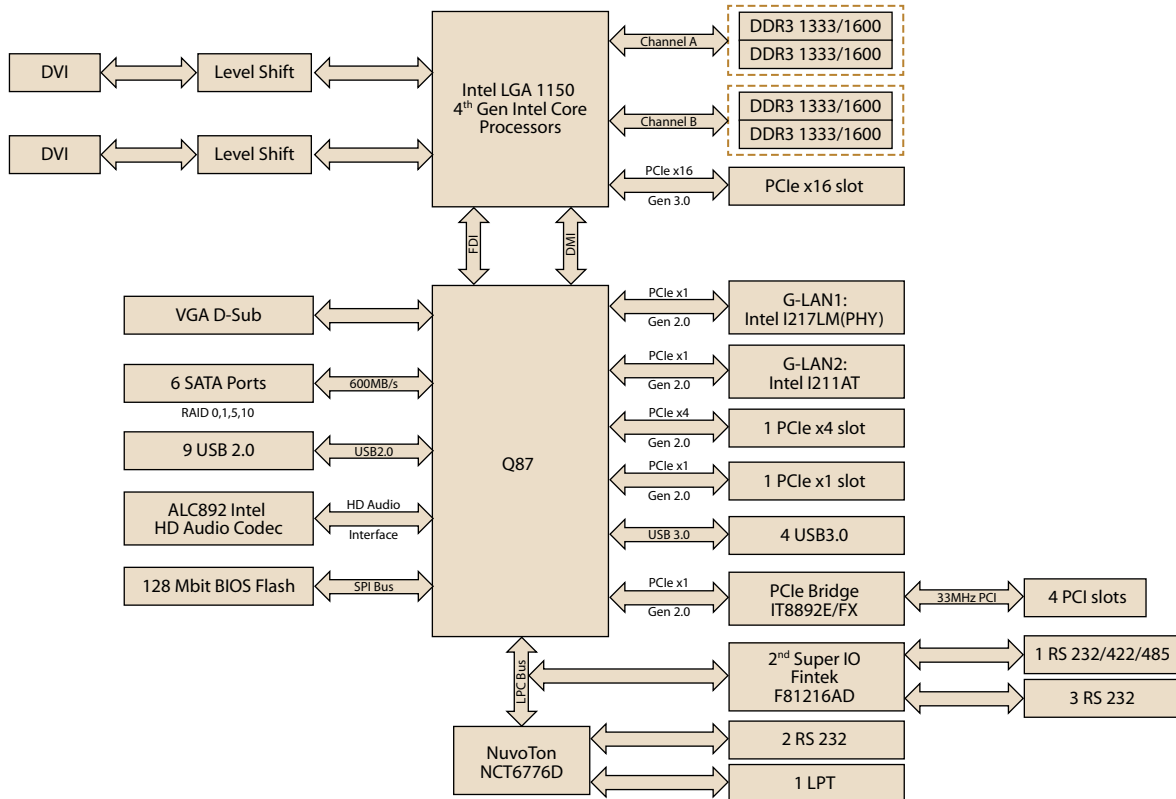
Utilities:



Monitoring

Processor System	CPU	i7-4790S	i7-4790T	i7-4770S	i7-4770TE	i5-4590S	i5-4590T	i5-4570	i3-4360	i3-4350T	i3-4330	i3-4330TE	
	Speed	3.2GHz	2.7GHz	3.1GHz	2.3GHz	3.0GHz	2.0GHz	3.2GHz	3.7GHz	3.1GHz	3.5GHz	2.4GHz	
	L3 Cache	8MB	8MB	8MB	8MB	6MB	6MB	6MB	4MB	4MB	4MB	4MB	
	Socket	LGA1150											
	Chipset	Q87											
	BIOS	AMI 128 Mbit SPI											
Expansion Slot	PCI	32-bit/33 MHz, 4 slots											
	PCIe x 1 (Gen2)	500 MB/s per direction, 1 slot											
	PCIe x 4 (Gen2)	2.0 GB/s per direction, 1 slot											
Memory	Technology	Dual Channel DDR3 1333/1600											
	Max. Capacity	32 GB											
	Socket	4 x 240-pin DIMM											
Graphics	Controller	Intel HD Graphics (Depends on processor)											
	VRAM	1 GB maximum shared memory with 2 GB and above system memory installed											
Ethernet	Interface	10/100/1000 Mbps											
	Controller	GbE LAN1: Intel I217LM, GbE LAN2: Intel I211AT											
	Connector	RJ-45 x 2											
SATA	Max Data Transfer Rate	600 MB/s											
	Channel	6											
Rear I/O	VGA	1											
	DVI	2											
	Ethernet	2 (GbE)											
	USB	4 (Two USB 3.0)											
	Audio	2 (Mic-in, Line-out)											
	Serial	1 (RS-232)											
	PS/2	2 (1 x keyboard and 1 x mouse)											
Internal Connectors	USB	9 (Two USB 3.0)											
	Serial	5 (4 x RS-232, 1x RS-232/422/485 with auto-flow control)											
	SATA	6											
	Parallel	1											
	Display Port	1											
	IrDA	-											
Watchdog Timer	Output	System reset											
	Interval	Programmable 1 ~ 255 sec											
Power Requirement	Power On	Intel Core i7-4790S processor; DDR3 8GB x4											
		3.3V		5V		12V		5VSB		-12V			
Environment		1.060		1.554		4.922		0.048		0.044			
	Operating	0 ~ 60° C (32 ~ 140° F), depends on CPU speed and cooler solution						Non-Operating					
Physical Characteristics	Temperature	-40 ~ 85° C (-40 ~ 185° F)											
	Dimensions (W x H x D)	482 x 177 x 479 mm (19" x 7" x 18.9")											

### Block Diagram



### Ordering Information

Part Number	Description
TECH 4U 511	4th Gen i7/i5/i3 based System

### Front View



### Rear View



### Bracket View

