

# TECH4U-510

## 4U Intel® Core™ i7/i5/i3/Pentium® ATX with DVI/VGA, Dual GbE LAN System



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



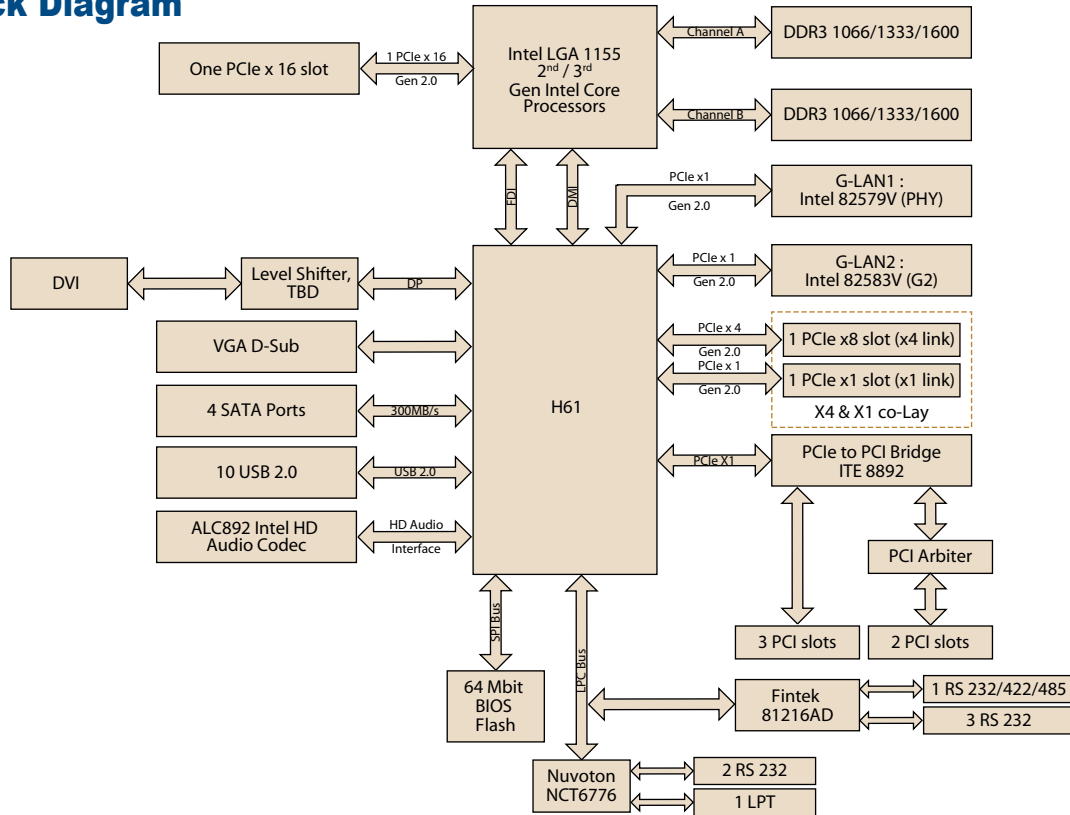
### Features

- Supports Intel® Core™ i7/i5/i3/Pentium® processor with H61 chipset
- Two DIMM sockets support up to 16 GB DDR3 1066/1333/1600
- Supports dual display VGA/DVI-D and dual GbE LAN
- Supports RS-232/422/485 with auto flow control
- Supports one PCIe x16 and 5 PCI expansion slots
- Supports 400W 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 Internal 5.25" DVD-RW.

### Specifications

Processor System	CPU	Core i7 3xxx/2xxx	Core i5 3xxx/2xxx	Core i3 3xxx/2xxx
	Speed	3.4 GHz	3.2/3.4 GHz	3.3 GHz
	L3 Cache	8 MB	6 MB	3 MB
	Socket	LGA1155		
	Chipset	H61		
	BIOS	AMI 64 Mbit SPI		
Expansion Slot	PCI	32-bit/33 MHz, 5 slots		
	PCIe x 1 (Gen2)	500 MB/s, 1 slot		
	PCIe x16 (Gen2)	8 GB/s, 1 slot		
Memory	Technology	Dual Channel DDR3 1066/1333/1600 (1600 is only supported by Core i7/i5/i3 3xxx series processors)		
	Max. Capacity	16 GB		
	Socket	2 x 240-pin DIMM		
Graphics	Controller	Intel HD Graphics		
	VRAM	1 GB maximum shared memory with 2 GB and above system memory installed		
Ethernet	Interface	10/100/1000 Mbps		
	Controller	GbE LAN1: Intel 82579V, GbE LAN2: Intel 82583V		
	Connector	RJ-45 x 2		
SATA	Max Data Transfer Rate	300 MB/s		
	Channel	4		
Rear/Front I/O	VGA	1		
	DVI	1		
	Ethernet	2		
	USB	4 Rear/2 Front		
	Audio	2 (Mic-in, Line-out)		
	Serial	2 (RS-232)		
	PS/2	2 (1 x keyboard and 1 x mouse) Rear/1 Front		
Internal Connectors	USB	6		
	Serial	4 (3 x RS-232, 1 x RS-232/422/485 with auto-flow control)		
	IDE	-		
	SATA	4		
	Parallel	1		
	IrDA	1		
	GPIO	8-bit		
Watchdog Timer	Output	System reset		
	Interval	Programmable 1 ~ 255 sec		
Power Requirement	Power On	Intel i7 2600 3.4 GHz processor, DDR3 4 GB x 2		
		3.3 V	5 V	12 V
		1.01 A	1.08 A	5.48 A
Environment				5 Vsb
				1.76 A
	Temperature	Operating 0 ~ 60° C (32 ~ 140° F)		Non-Operating -40 ~ 85° C (-40 ~ 185° F)
Physical Characteristics		(Depends on CPU speed and cooler solution)		
	Vibration (5 ~ 500 Hz)	1 Grms		2 G
	Shock	10 G (with 11 ms duration, half sine wave)		30 G
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	Display	USB 2.0	COM	GbE LAN	PCIe x1	PCIe x4	SW RAID
TECH4U-510	H61	Non-ECC	VGA + DVI	6	4	2	Yes	NA	NA

Front View



Rear View



Bracket View

