

TECH4U-510

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



BIS
Regn.No.
R-85000140

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 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



Specifications



Utilities:

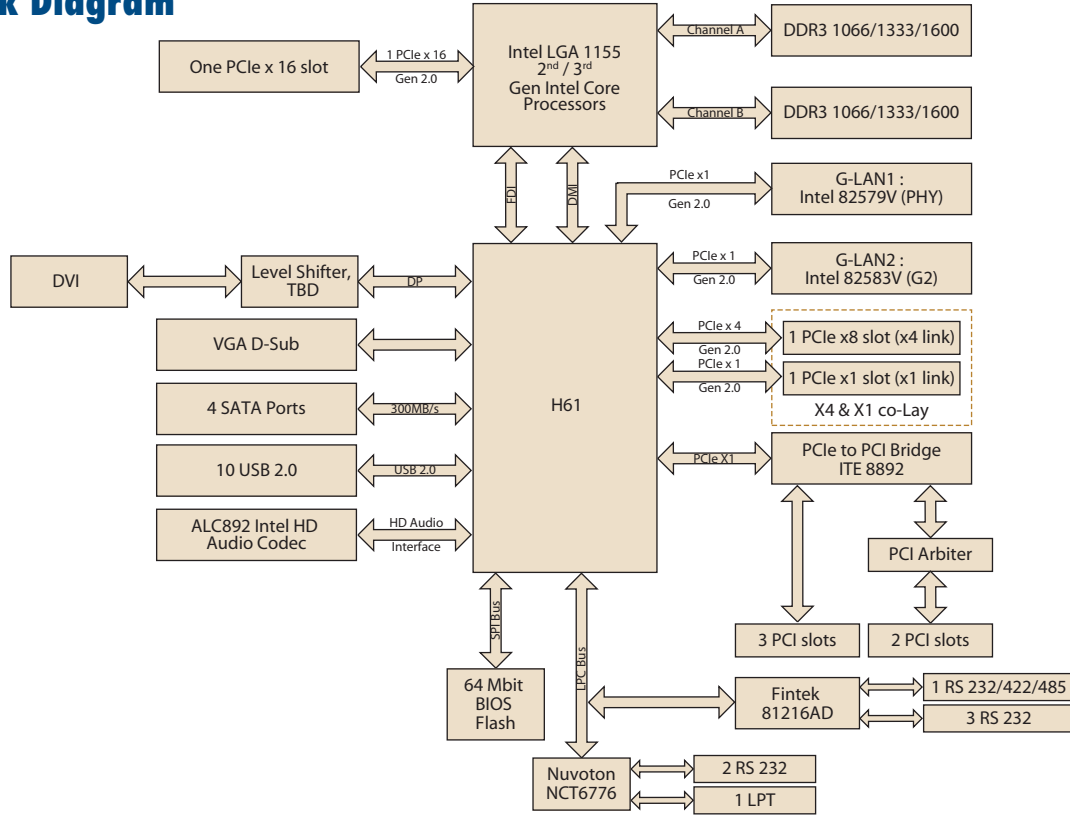


Software APIs:



Processor System	CPU	Core i7 3xxx	Core i5 3xxx	Core i3 3xxx	Pentium G8xx
	Speed	3.4 GHz	3.4/3.3 GHz	3.4 GHz	2.9 GHz
	L3 Cache	8 MB	6 MB	3 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			
Graphics	Socket	2 x 240-pin DIMM			
	Controller	Intel HD Graphics			
Ethernet	VRAM	1 GB maximum shared memory with 2 GB and above system memory installed			
	Interface	10/100/1000 Mbps			
SATA	Controller	GbE LAN1: Intel 82579V, GbE LAN2: Intel 82583V			
	Connector	RJ-45 x 2			
Rear/Front I/O	Max Data Transfer Rate	300 MB/s			
	Channel	4			
	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	5 Vsb
Environment		1.01 A	1.08 A	5.48 A	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

