

TECH4U-610

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

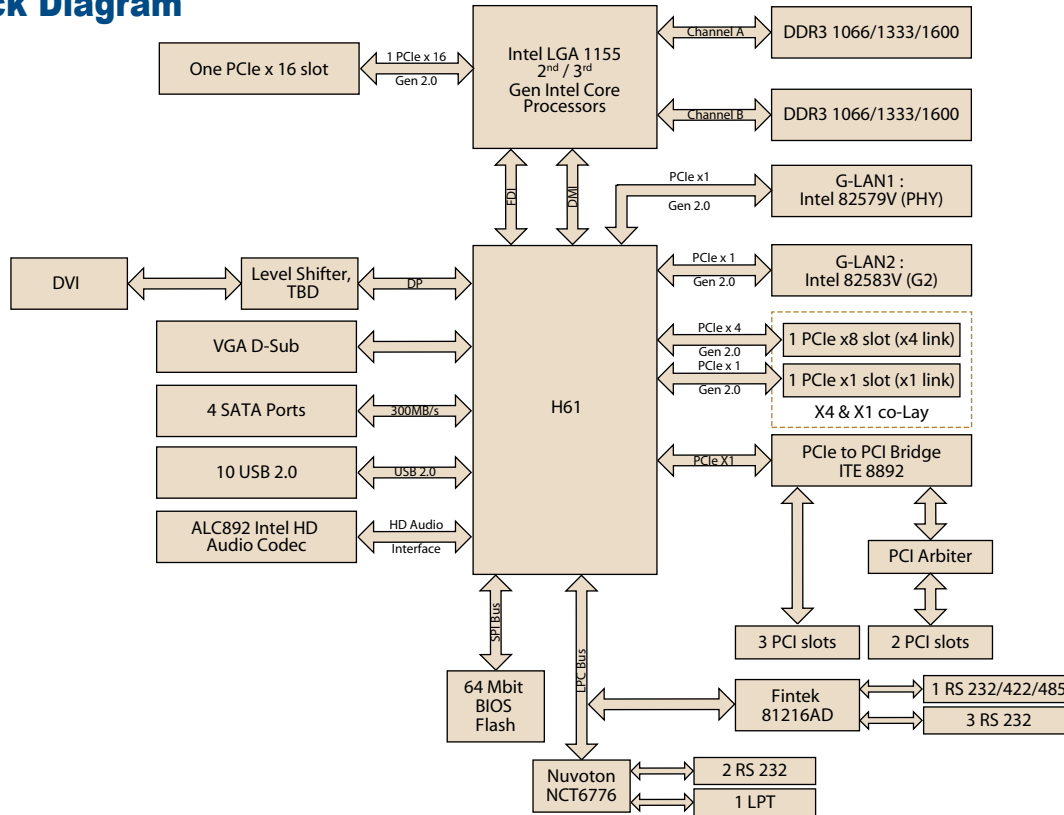
- Supports Intel® Core™ i7/i5/i3/Pentium® processor with H61 chipset
- Two DIMM sockets support up to 16 GB DDR3 1066/1333/1600
- Supports dual display VGA/DVI-D and dual GbE LAN
- Supports RS-232/422/485 with auto flow control
- Supports one PCIe x16 and 5 PCI expansion slots
- Supports 400/300 W ATX PFC PS/2 power supply
- 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
- Supports Internal 5.25" DVD-RW.

Specifications



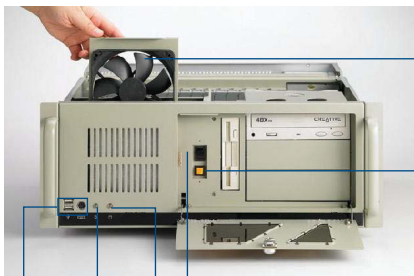
Processor System	CPU	Core i7 3xxx/2xxx	Core i5 3xxx/2xxx	Core i3 3xxx/2xxx
	Speed	3.4 GHz	3.4/3.2 GHz	3.3 GHz
	L3 Cache	8 MB	6 MB	3 MB
	Socket	LGA1155		
	Chipset	H61		
	BIOS	AMI 64 Mbit SPI		
Expansion Slot	PCI	32-bit/33 MHz, 5 slots		
	PCIe x1 (Gen2)	500 MB/s, 1 slot		
	PCIe x16 (Gen2)	8 GB/s, 1 slot		
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)			
Internal Connectors	PS/2	2 (1 x keyboard and 1 x mouse) Rear/1 Front		
	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		
Watchdog Timer	GPIO	8-bit		
	Output	System reset		
Power Requirement	Interval	Programmable 1 ~ 255 sec		
	Power On	Intel i7 2600 3.4 GHz processor, DDR3 4 GB x 2		
		3.3 V 1.01 A	5 V 1.08 A	12 V 5.48 A
Environment	Temperature	Operating	Non-Operating	
		0 ~ 60° C (32 ~ 140° F)	-40 ~ 85° C (-40 ~ 185° F)	
	Vibration (5 ~ 500 Hz)	(Depends on CPU speed and cooler solution)		
		1 Grms	2 G	
Shock	10 G (with 11 ms duration, half sine wave)		30 G	
	Physical Characteristics			
Dimensions (W x H x D)	482 x 177 x 446 mm (19" x 7" x 17.6")			

Block Diagram



Ordering Information

Part Number	Chipset	Memory	Display	USB 2.0	COM	GbE LAN	PCIe x1	PCIe x4	SW RAID
TECH4U-610	H61	Non-ECC	VGA + DVI	6	4	2	Yes	NA	NA



HDD LED Power switch
USB & PS/2 Power LED

Easy-to-maintain cooling fan
System reset switch



One 3.5" drive bay Three 5.25" drive bays
One internal 3.5" drive bay space



Motherboard can fit in 450 mm (17.7") depth

Bracket View

