

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



Specifications



Utilities:



Monitoring

Software APIs:



SMBus



H/W Monitor



Watchdog

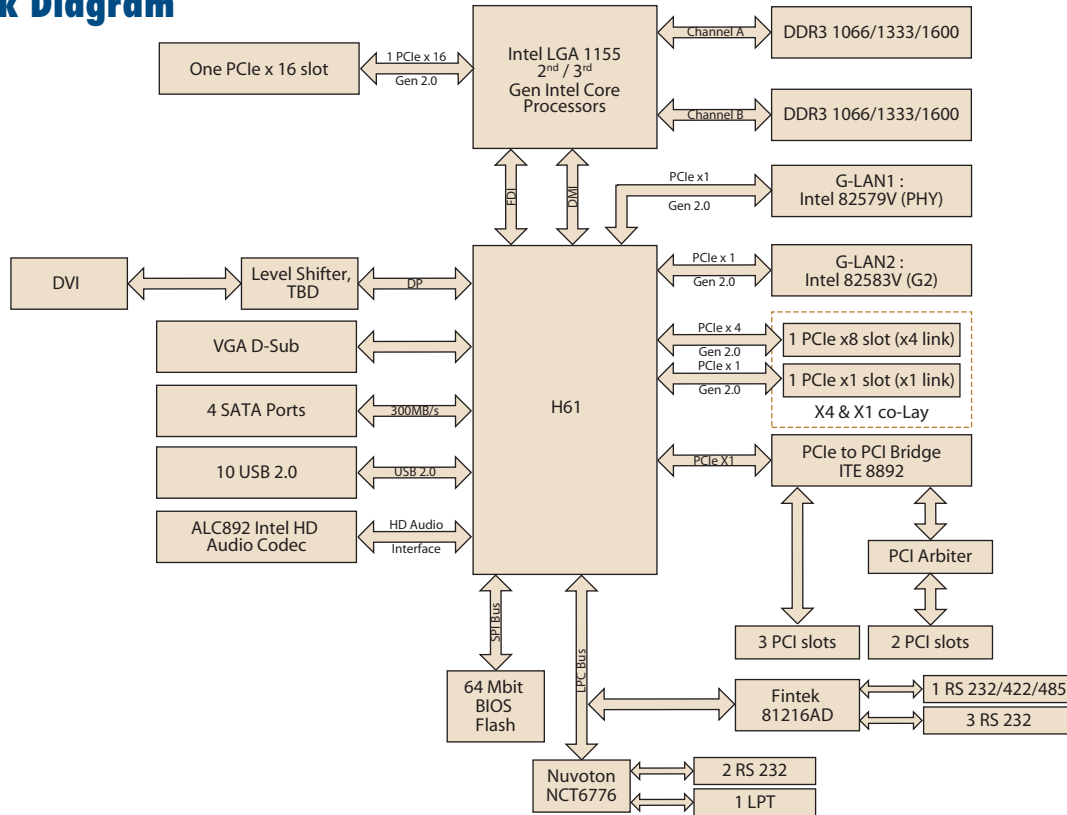
Processor System	CPU	Core i7 3xxx	Core i5 3xxx	Core i3 3xxx	Pentium G8xx
	Speed	3.4 GHz	3.4/3.3 GHz	3.4 GHz	2.9 GHz
	L3 Cache	8 MB	6 MB	3 MB	3 MB
	Socket	LGA1155			
	Chipset	H61			
	BIOS	AMI 64 Mbit SPI			
Expansion Slot	PCI	32-bit/33 MHz, 5 slots			
	PCIe x 1 (Gen2)	500 MB/s, 1 slot			
	PCIe x16 (Gen2)	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			
	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	5 Vsb
		1.01 A	1.08 A	5.48 A	1.76 A
Environment	Temperature	Operating		Non-Operating	
		0 ~ 60° C (32 ~ 140° F)		-40 ~ 85° C (-40 ~ 185° F)	
		(Depends on CPU speed and cooler solution)			
	Vibration (5 ~ 500 Hz)	1 Grms		2 G	
Physical Characteristics	Shock	10 G (with 11 ms duration, half sine wave)			30 G
	Dimensions (W x H x D)	482 x 177 x 446 mm (19" x 7" x 17.6")			

technics

Industrial computers

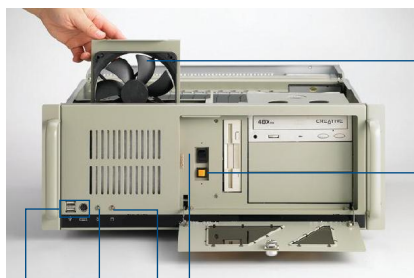
All product specifications are subject to change without notice

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

