

# TECH4U-610

## 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 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



CE FCC

Utilities:



Software APIs:



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 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		

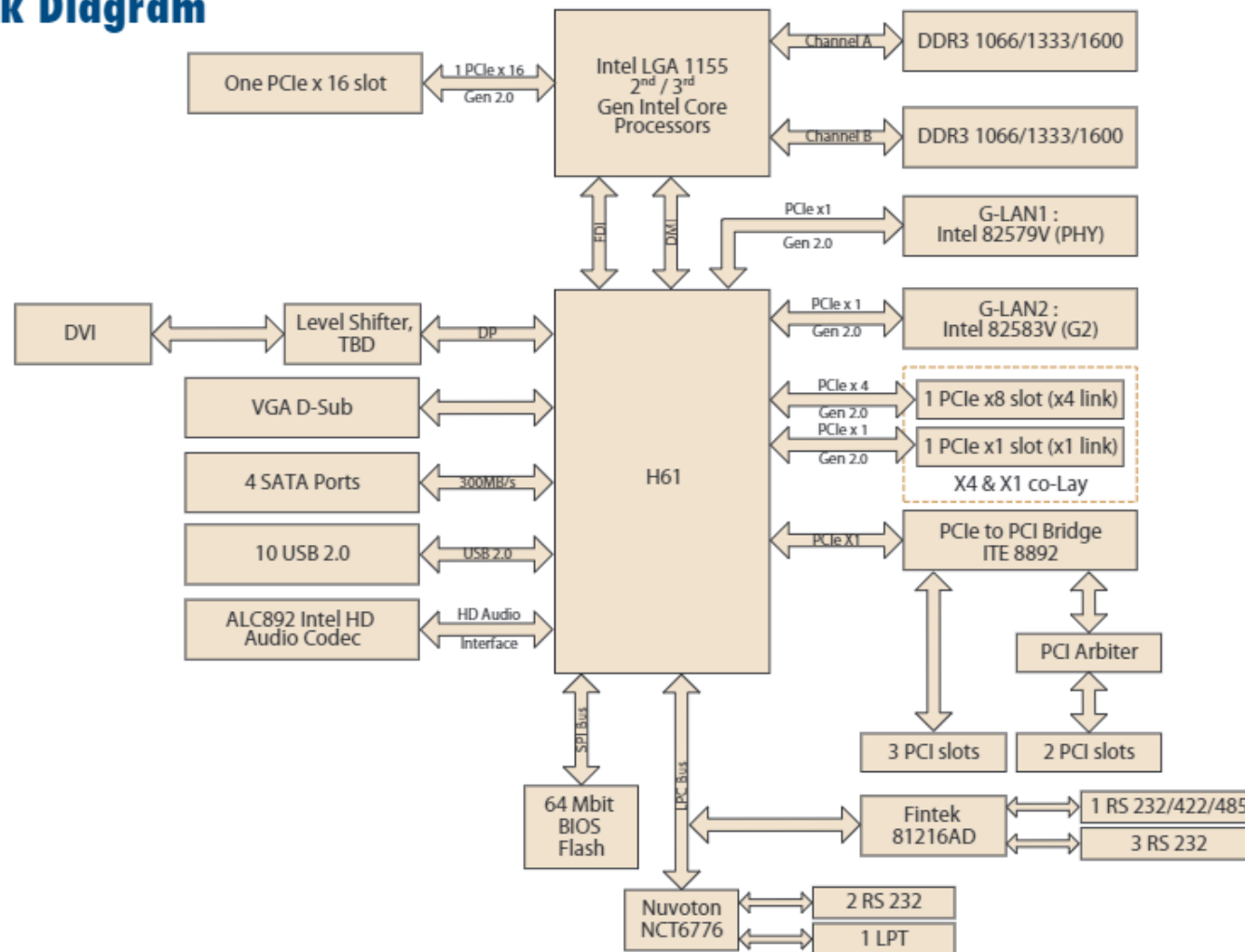
Ethernet	Interface	10/100/1000 Mbps			
	Controller	GbE LAN1: Intel 82579V, GbE LAN2: Intel 82583V			
SATA	Connector	RJ-45 x 2			
	Max Data Transfer Rate	300 MB/s			
Rear/Front I/O	Channel	4			
	VGA	1			
	DVI	1			
	Ethernet	2			
	USB	4 Rear/2 Front			
	Audio	2 (Mic-in, Line-out)			
	Serial	2 (RS-232)			
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 Interval	System reset 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**



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



USB & PS/2  
 HDD LED  
 Power LED  
 Power switch  
 System reset switch

Easy-to-maintain cooling fan  
 System reset switch



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



Motherboard can fit in 450 mm (17.7") depth

## Bracket View

