

TECH-7120

Desktop Intel® 3rd Gen Core™ i7/i5/i3® ATX with DVI/VGA, Dual GbE LAN System



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



CE FCC

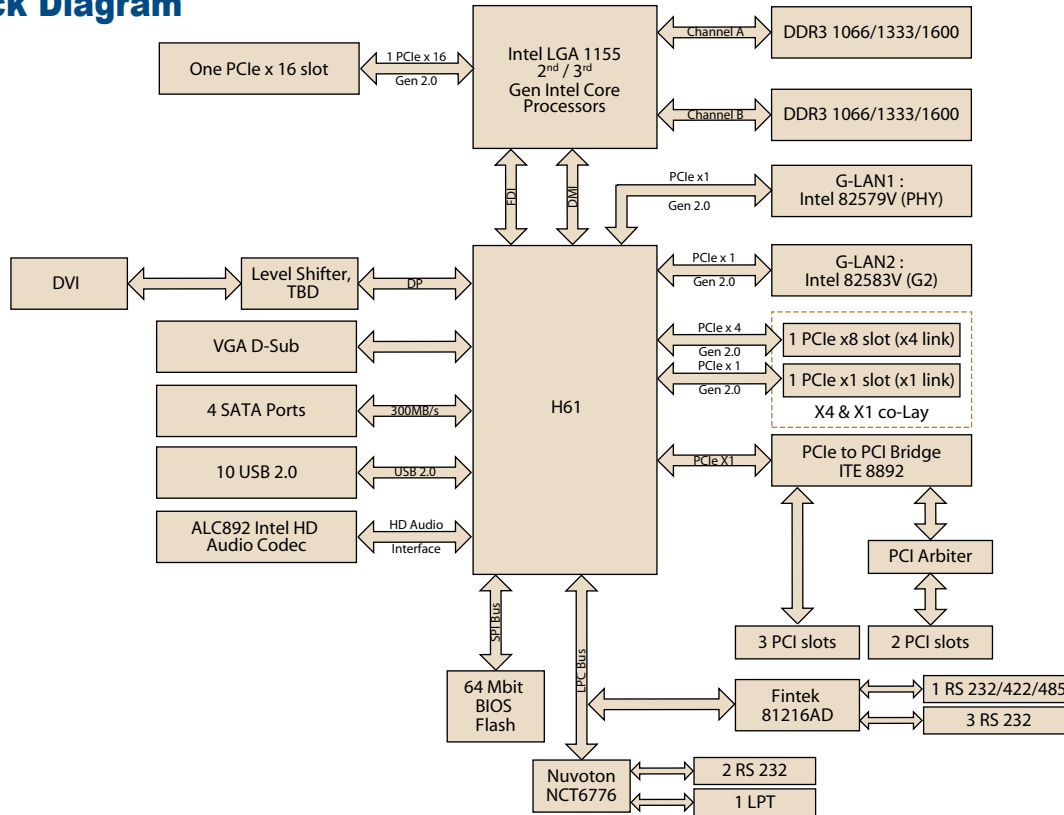
Features

- 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 one PCIe x16 and 5 PCI expansion slots.
- Supports 350 W ATX power supply.
- Easy to install drive bays to hold one 5.25" and one 2.5/3.5" drives (HDD/SSD).
- LED indicators for Power Status and HDD/SSD activity.
- Designed to withstand environmental extremes, such as shock, vibration and high temperature.
- 5.25" Internal DVD-RW (Optional).

Specifications

Processor System	CPU	Core i7 3xxx	Core i5 3xxx	Core i3 3xxx	
	Speed	3.4 GHz	3.4 GHz	3.4 GHz	
	L3 Cache	8 MB	6 MB	3 MB	
	Socket	LGA1155			
	Chipset/BIOS	H61/AMI 64 Mbit SPI			
	OS Support	Win 7 (32/64 bit)/WES7/Win 8.1/Win 10 Pro/ Win 10 IoT Ent LTSB/ Linux			
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			
Front I/O	VGA	1			
	DVI	1			
	Ethernet	2			
	USB	4			
	Audio	2 (Mic-in, Line-out)			
	Serial	2 (RS-232)			
	PS/2	2 (1 x keyboard and 1 x mouse)			
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 3770 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		
Shock	10 G (with 11 ms duration, half sine wave)		30 G		
Physical Characteristics	Dimensions (W x H x D)	380 x 164 x 316.5 mm (15" x 6.5" x 12.5")			

Block Diagram



Ordering Information

Part Number	Chipset	Memory	Display	USB 2.0	COM	GbE LAN	PCIe x1	PCIe x4	RAID
TECH-7120	H61	Non-ECC	VGA + DVI	6	4	2	Yes	NA	Optional

Front View



Inside View



Easy-to-maintain fan filter



User-friendly mechanical design for installing an add-on card