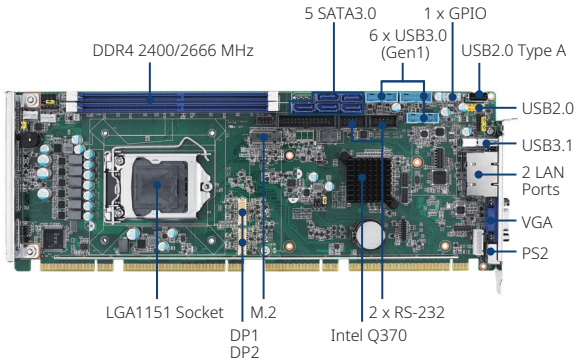


CPU-51

LGA1151 8th Generation Intel® Core™ i3 System Host Board with DDR4, SATA 3.0, USB 3.1 M.2, and Dual GbE



Features

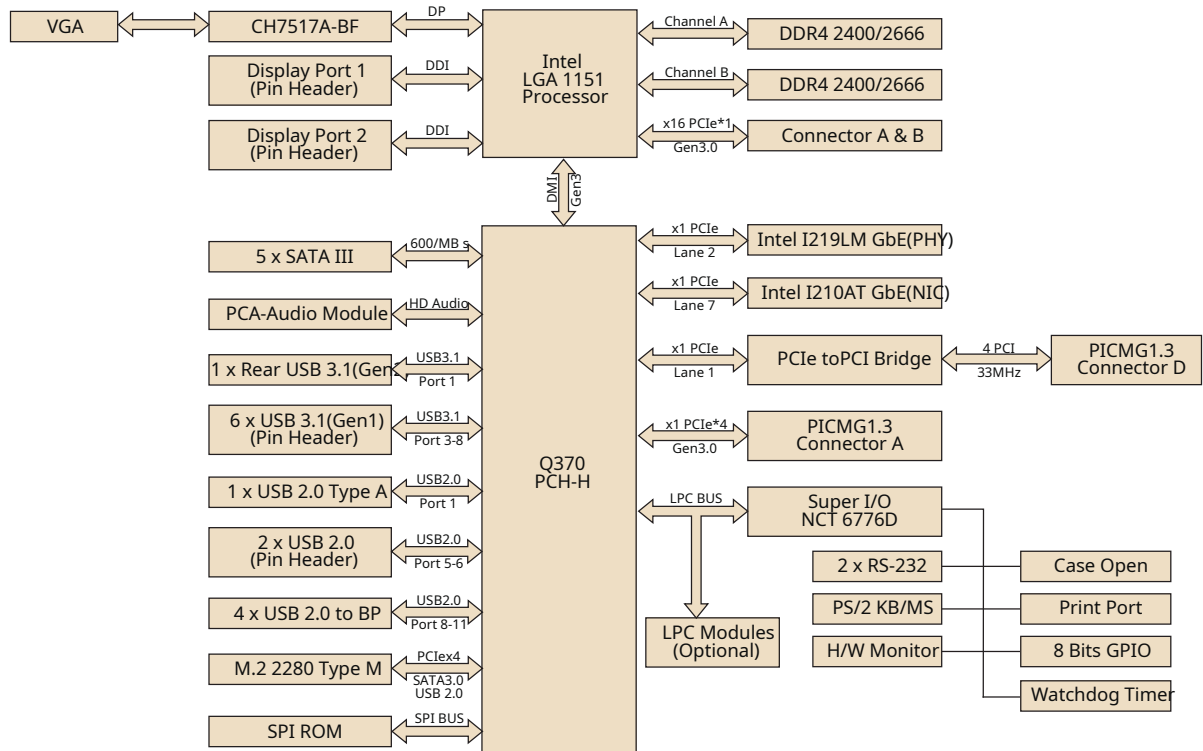
- › Intel® Core™ i3 LGA1151 processor with Q370 chipset
- › 8 GB of dual-channel (non-ECC) DDR4 2400/2666 MHz
- › PCIe 3.0, M.2, USB 3.0, SATA 3.0, and SW Raid 0, 1, 5, 10

Quiet Specifications



Processor System	CPU	i3-8100T
	Speed	3.1 GHz
	L3 Cache	6 MB
	Cores	4
	TDP	35 W
	Socket	LGA1151
	Chipset	Q370
Bus	BIOS	AMI 256 Mbit SPI
	PCI-Express	1 x PCIe x16 and 1 x PCIe x4 to backplane
Memory	PCI	4 x PCI master to backplane, 32-bit, 33 MHz
	Technology	Dual-channel (non-ECC) U-DIMM DDR4 2400/2666 MHz (supports x8 DDR4 1024 M)
	Max. Capacity	up to 64GB (standard 8GB)
Graphics	Socket	2 x DDR4 288-pin DIMM
	Controller	Chipset integrated with Intel® HD Graphics
	VRAM	Shared system memory is subject to OS
	VGA	Supports resolutions of up to 1920 x 1200 pixel @ 60 MHz
	DVI-D	Supports resolutions of up to 1920 x 1200 pixel @ 60 MHz
	Display Port	Supports resolutions of up to 1920 x 1080 pixel @ 60 Hz
Ethernet	Triple Display	CRT+DP/DVI-D+DP/DVI-D
	Interface	10/100/1000 Mbps
	Controller	LAN 1: Intel® I219-LM LAN 2: Intel® I210AT
Rear I/O	Connector with LED	2 x RJ45
	USB 3.1(Gen2)	1
	Ethernet	2
	VGA	1
Internal Connector	PS/2	1 (PS/2 Y cable supports 1 x keyboard and 1 x mouse)
	USB	7 x USB 2.0 (pin header*2 + USB Type A*1 + 4 on backplane) 6 x USB 3.1(Gen1) (pin header)
	SATA (SW Raid 0,1,5,10)	5
	M.2 (2280 Type M)	1 (supports SATA 3.0)
	DP/DVI-D	2 (Pin header)
	COM	2
	IrDA	1
Watchdog Timer	GPIO	8bit
	Output	System reset
Miscellaneous	Interval	Programmable 1-255 sec
	Audio	Intel® High Definition audio interface (requires audio extension module PCA-AUDIO-HDB1E)
Power Requirement	Test Environment	i7-8700, 3.4 GHz, 65 W, with 2 x 8-GB DDR4 2133
	Voltage	+12V +5V +3.3V
	Current	4.30A 2.15A 0.69A
Environment	Operating	Non-Operating
	Temperature	0 ~ 60 °C (dependent on CPU and cooler solution) -40 ~ 85 °C
Physical	Humidity	40 °C @ 85% relative humidity (non-condensing) 60 °C @ 95% relative humidity (non-condensing)
	Dimensions (L x H)	338 x 122 mm (13.3" x 4.8")

Block Diagram



I/O View



CPU-51 Back Plate