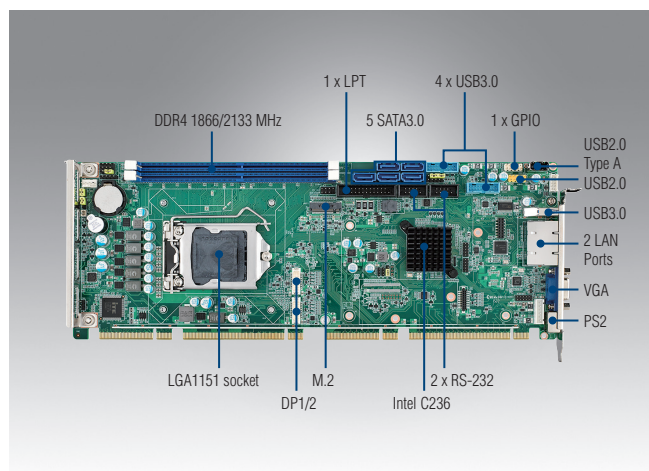


CPU-50

LGA1151 6th Generation Intel® Core™ Celeron System Host Board with DDR4, SATA 3.0, USB 3.0, M.2, Dual GbE



Features

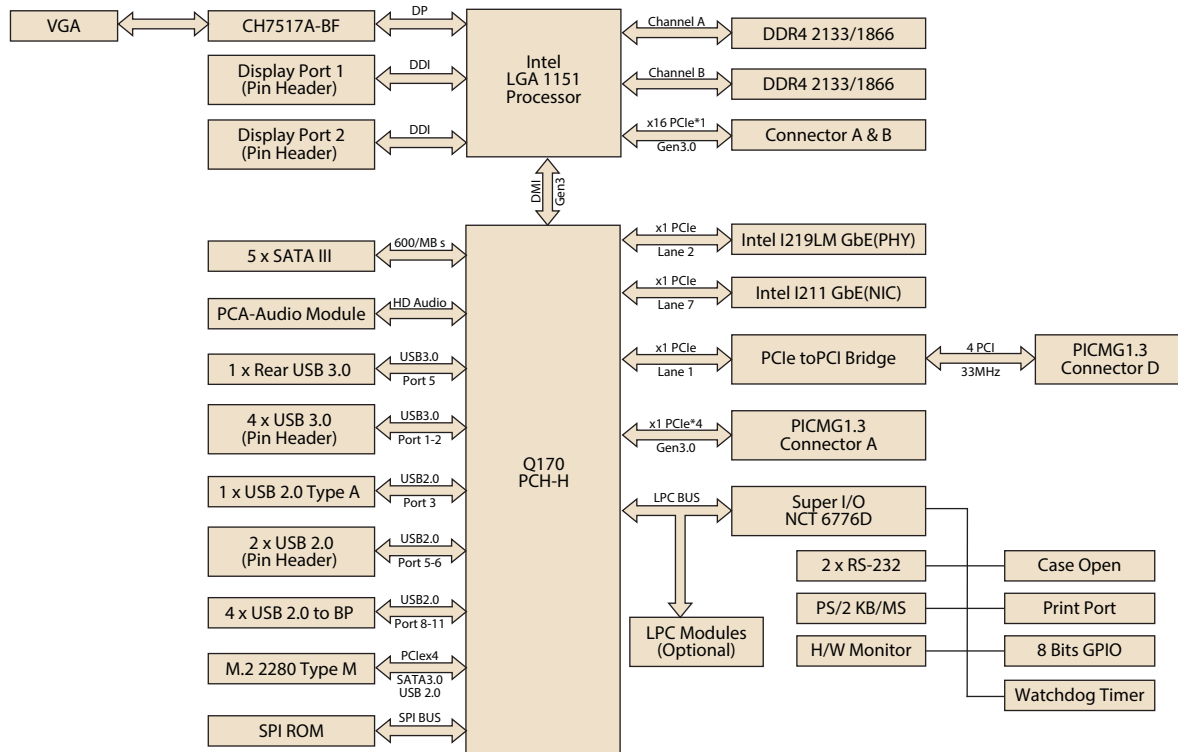
- Intel® Core™ Celeron LGA1151 processor with Q170 chipset
- 4 GB of dual-channel (non-ECC) DDR4 1866/2133 MHz
- PCIe 3.0, M.2, USB 3.0, SATA 3.0, and SW Raid 0, 1, 5, 10

Quiet Specifications

CE FCC

Processor System	CPU	Dual Core Celeron standard (other options available)			
	Speed	2.3GHz			
	L3 Cache	2MB			
	Socket	LGA1151			
	Chipset	Q170			
Bus	BIOS	AMI 128 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 1866/2133 MHz (supports x8 DDR4 1024 M)			
	Max. Capacity	32 GB (standard 4 GB)			
Graphics	Socket	2 x DDR4 288-pin DIMM			
	Controller	Chipset integrated with Intel® HD Graphics			
	VRAM	Shared system memory is subject to OS			
	CRT	Supports resolutions of up to 1920 x 1200 pixel @ 60 MHz			
	DVI-D	Supports resolutions of up to 1920 x 1200 pixel @ 60 MHz			
Ethernet	Display Port	Supports resolutions of up to 1920 x 1080 pixel @ 60 Hz			
	Triple Display	CRT+DP/DVI-D+DP/DVI-D			
	Interface	10/100/1000 Mbps			
Rear I/O	Controller	LAN 1: Intel® I219-LM LAN 2: Intel® I211			
	Connector with LED	2 x RJ45			
	USB 3.0	1			
Internal Connector	Ethernet	2			
	VGA	1			
	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) 4 x USB 3.0 (pin header)			
	SATA (SW Raid 0,1,5,10)	5			
	M.2 (2280 Type M)	1 (supports SATA 3.0 or PCIe x4)			
	DP/DVI-D	2 (Pin header)			
	COM	2			
	Parallel	1			
	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	i7-6700, 3.4 GHz, 65 W, with 2 x 8-GB DDR4 2133			
	Voltage	+12V	+5V	+3.3V	+5Vsb
	Current	2.64A	1.23A	0.19A	0.09A
Environment	Operating	0 ~ 60 °C (dependent on CPU and cooler solution)			
	Temperature	Non-Operating			
	Humidity	-40 ~ 85 °C			
Physical	Dimensions (L x H)	338 x 122 mm (13.3" x 4.8")			
		60 °C @ 95% relative humidity (non-condensing)			

Block Diagram



I/O View

