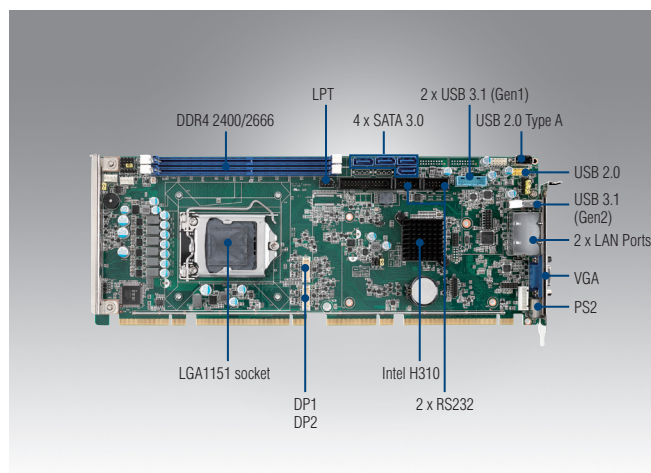


PCE-5031

LGA1151 8th Generation Intel® Core™ i7/i5/i3/Pentium/Celeron System Host Board with DDR4, SATA 3.0, USB 3.1, Dual GbE, and Dual Displays



CE FCC

Features

- Intel® Core™ i7/i5/i3 LGA1151 processor with H310 chipset
- Up to 32 GB of dual-channel (non-ECC) DDR4 2400/2666 MHz
- PCIe 3.0, USB 3.1, and SATA 3.0 slots
- Supports VGA and DVI-D/DP display (with optional cable)
- Supports Advantech's LPC modules, SUSIAccess, and embedded software APIs

Note 1: Intel 8th generation processors only support Windows 10 (64-bit).

Vertrieb durch



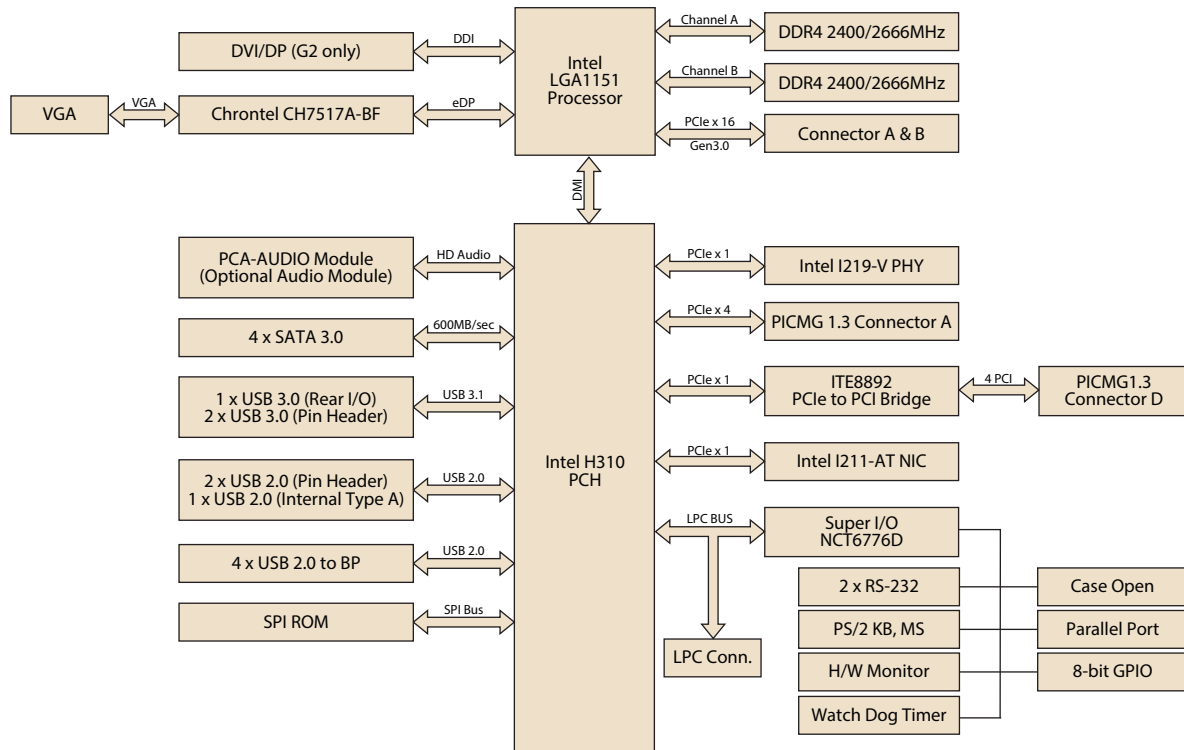
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Specifications

Processor System	CPU	i7-8700	i7-8700T	i5-8500	i5-8500T	i3-8100	i3-8100T	G5400	G5400T	G4900	G4900T
	Speed	3.2 GHz	2.4 GHz	3.0 GHz	2.1 GHz	3.6 GHz	3.1 GHz	3.7 GHz	3.1 GHz	3.1 GHz	2.9 GHz
	L3 Cache	12 MB	12 MB	9 MB	9 MB	6 MB	6 MB	4 MB	4 MB	2 MB	2 MB
	Socket	LGA 1151									
	Chipset	Intel H310									
	BIOS	AMI 256Mbit SPI Flash									
Bus	PCI-Express	1 x PCIe x16 and 1 x PCIe x4 to backplane									
	PCI	4 x PCI master to backplane, 32-bit, 33 MHz									
Memory	Technology	Dual-channel (non-ECC) U-DIMM DDR4 2400/2666 MHz									
	Max. Capacity	32 GB (16 GB per DIMM)									
	Socket	2 x DDR4 288-pin DIMM									
Graphics	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									
	Dual Display	CRT+DP/CRT+DVI									
Ethernet	Interface	10/100/1000 Mbps									
	Controller	LAN 1: Intel® I219-V LAN 2: Intel® I211-AT									
	Connector with LED	RJ45 x 2									
Rear I/O	USB 3.1(Gen2)	1 (G2 SKU)									
	Ethernet	2									
	VGA	1									
	PS/2	1 (PS/2 Y cable supports 1 x keyboard and 1 x mouse)									
Internal Connector	USB	7 x USB 2.0 (pin header*2 + USB Type A*1 + 4 on backplane) 2 x USB 3.1(Gen1) (pin header)									
	SATA	4									
	DP/DVI-D	1 (Pin header)									
	COM	2 (G2 SKU)									
	Parallel	1									
	GPIO	8 bits									
Watchdog Timer	Output	System reset									
	Interval	Programmable 1-255 sec									
Miscellaneous	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			
	Current	4.30A						2.15A 0.69A			
Environment		Operating						Non-operating			
	Temperature	0 ~ 60 °C (dependent on CPU and cooler solution)						-40 ~ 85 °C			
	Humidity	40 °C @ 85% relative humidity (non-condensing)						60 °C @ 95% relative humidity (non-condensing)			
Physical	Dimensions (L x H)	338 x 122 mm (13.3" x 4.8")									

Block Diagram



Ordering Information

Part Number	Chipset	Memory	Backplane	Display	USB 3.0	USB 2.0	COM	GbE LAN	AMT	SATA	SW RAID	Intelligent System Module Support
PCE-5031G2-00A1	H310	Non-ECC	PCE-5BXX	VGA + DVI/DP*	3	7	2	2	No	4	No	Yes

*Note: DP cable (P/N: PCE-DP10-00A1E) and DVI-D

Packing List

Part Number	Description	Quantity
1700003194	Serial ATA HDD data cable	x2
1700022749-11	Serial ATA HDD power cable	x1
1701260305	COM + printer ports cable kit	x1
1700060202	Keyboard and mouse Y-cable	x1
1700002204	2-port USB cable kit	x1
9689000068	Jumper package	x1
2190000902	Warranty card	x1
2001512910	Startup manual	x1
2061512900	Utility CD	x1

Optional Accessories

Part Number	Description
1700020277-01	2-port USB 3.0 cable w/ BKT (30 cm)
1700002204	2-port USB 2.0 cable w/ BKT (27 cm)
1700021831-01	DP to DVI-D cable w/ BKT for G2 SKU
1701090401	Single COM cable (40 cm)
1701092300	Dual COM cable (28.5 cm)
1960052651N021	CPU cooler for 2U, 4U, and wallmount chassis
1960049408N001	CPU cooler for 1U chassis
PCA-TPM-00A1E	TPM module
PCA-COM485-00A1E	4-port RS-422/485 LPC module
PCA-COM232-00A1E	4-port RS-232 LPC module
PCE-DP10-00A1E	DP redriver board (25 cm) for G2 SKU
PCA-AUDIO-HDB1E	Extension module for HD audio
PCA-TPM-00B1E	TPM 2.0 Module

I/O View



PCE-5031G2-00A1E