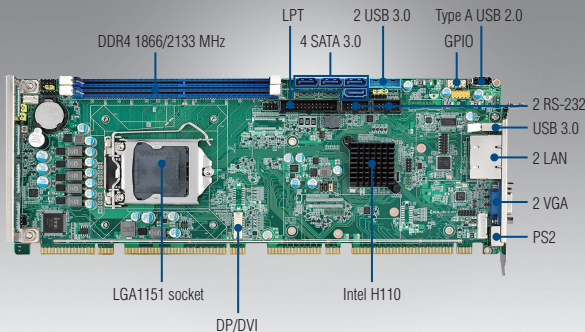


PCE-5029

LGA1151 Intel® Core™ i series SHB DDR4/SATA 3.0/USB3.0/Dual GbE/ Dual Displays

NEW



CE FCC

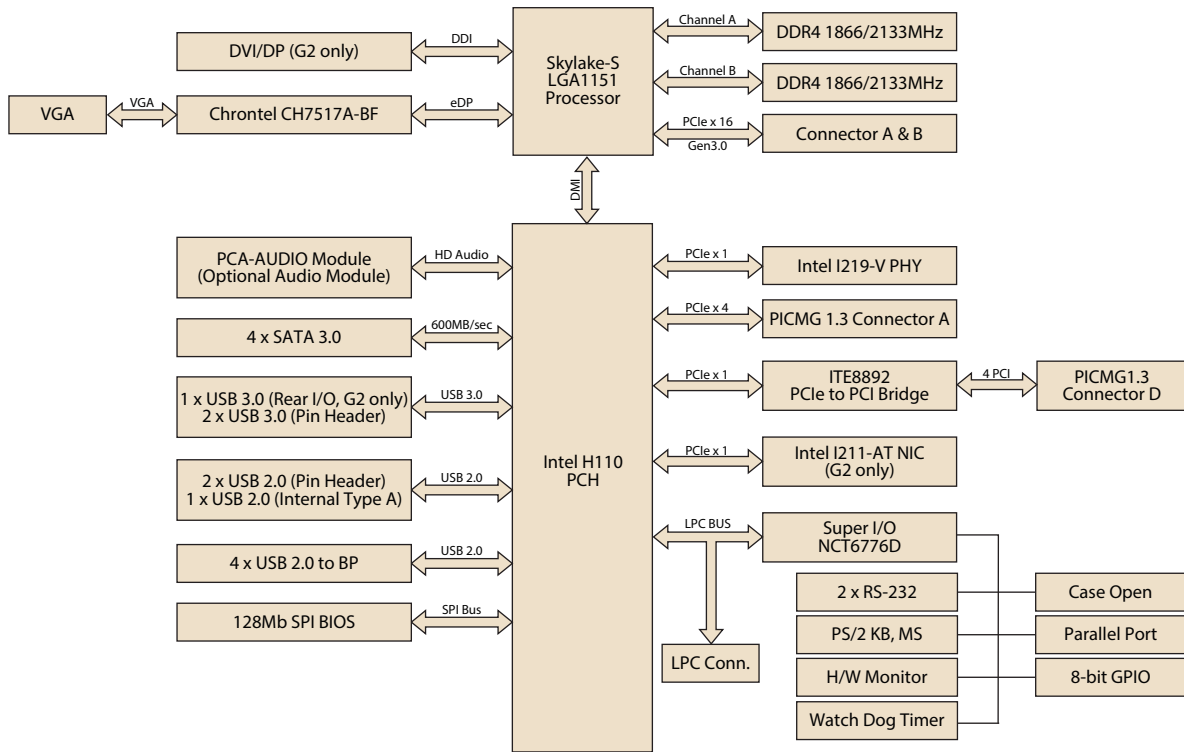
Features

- Supports Intel Core™ i7/i5/i3 LGA1151 processors with H110
- Dual Channel (Non-ECC) DDR4 1866/2133 MHz up to 32 GB
- Supports PCIe 3.0, USB 3.0, SATA 3.0
- Supports CRT and DVI-D/DP (cable optional) display
- Supports Advantech LPC modules
- Supports SUSIAccess and Embedded Software APIs

Specifications

Processor System	CPU	i7-6700	i7-6700TE	i5-6500	i5-6500TE	i3-6100	i3-6100TE	G4400	G4400TE	G3900	G3900TE	
	Speed	3.4 GHz	2.4 GHz	3.2 GHz	2.3 GHz	3.7 GHz	2.7 GHz	3.3 GHz	2.9 GHz	2.8 GHz	2.6 GHz	
	Cache	8 MB	8 MB	6 MB	6 MB	4 MB	4 MB	3 MB	3 MB	2 MB	2 MB	
	SKU/Chipset	Intel H110										
	BIOS	AMI 128Mbit SPI Flash										
Bus	PCI-Express	One x16 and one x4 to backplane										
	PCI	Four 32-bit 33 MHz PCI Masters to backplane										
Memory	Technology	Dual channel (Non-ECC) U-DIMM DDR4 1866/2133 MHz										
	Max. Cap.	32 GB (16 GB per DIMM)										
	Socket	DDR4 288 pins DIMM x 2										
Graphics	Controller	Chipset integrated Intel HD Graphics										
	VRAM	Shared system memory is subject to OS										
	CRT	Supports resolution up to 1920 x 1200 pixel @ 60MHz										
	DVI-D	Supports resolution up to 1920 x 1200 pixel @ 60MHz										
	Display Port	Supports resolution up to 4096x2304 @ 60Hz, 24bpp (Supporting 4K display required two DDR channels of same size)										
Ethernet	Dual Display	CRT+DP/CRT+DVI										
	Interface	10/100/1000 Mbps										
	Controller	LAN 1: Intel I219-V LAN 2: Intel I211-AT										
Rear I/O	Connector with LED	RJ45 x 2										
	USB 3.0	1 (G2 sku)										
	Ethernet	1 (VG sku); 2 (G2 sku)										
	VGA	1										
	Serial	1 (VG sku)										
Internal Connector	PS/2	1 (PS/2 Y cable supports 1 x keyboard and 1 x mouse)										
	USB	7 USB2.0 (Pin-header*2+USB Type A*1+ 4 on backplane); 2 USB3.0 (Pin header)										
	SATA	4										
	DP/DVI-D	1 (Pin header)										
	COM	2 (G2 sku) 1 (VG sku)										
	Parallel	1										
	GPIO	8 bits										
Watchdog Timer	Output	System reset										
	Interval	Programmable 1-255 sec										
Miscellaneous	Audio	Intel High Definition audio interface (required an audio extension module P/N: PCA-AUDIO-HDB1E)										
Power Requirement	Test environment	SKL 2.2G 65W; DDR4 2133 8GB x2										
	Voltage	+12V	+5V	+3.3V	+5Vsb	-12V	-5V					
	Current	2.64A	1.23A	0.19A	0.09A	0A	0A					
Environment	Temperature/Humidity	Operating					Non-operating					
		0 ~ 60° C(32~140° F); Depends on CPU and cooler solution					-40 ~ 85°C and 60° C @ 95% RH Non-Condensing					
Physical	Dimensions	Operating humidity: 40° C @ 85% RH Non-Condensing										
		338 mm (L) x 122 mm (W) (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-5029G2-00A1E	H110	Non-ECC	PCE-5BXX	VGA + DVI/DP*	3	7	2	2	No	4	No	Yes
PCE-5029VG-00A1E	H110	Non-ECC	PCE-5BXX	VGA	2	7	2	1	No	4	No	No

*Note: DP cable (P/N: PCE-DP10-00A1E) and DVI-D cable (1700021831-01) is optional.

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
-	Startup manual	x1
-	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 High Definition Audio

I/O View



PCE-5029G2-00A1E



PCE-5029VG-00A1E