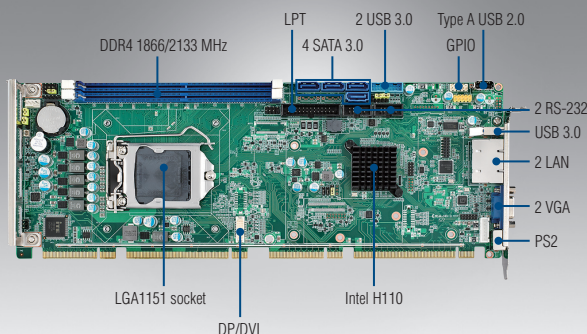


PCE-5029

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

Preliminary



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

Software APIs:



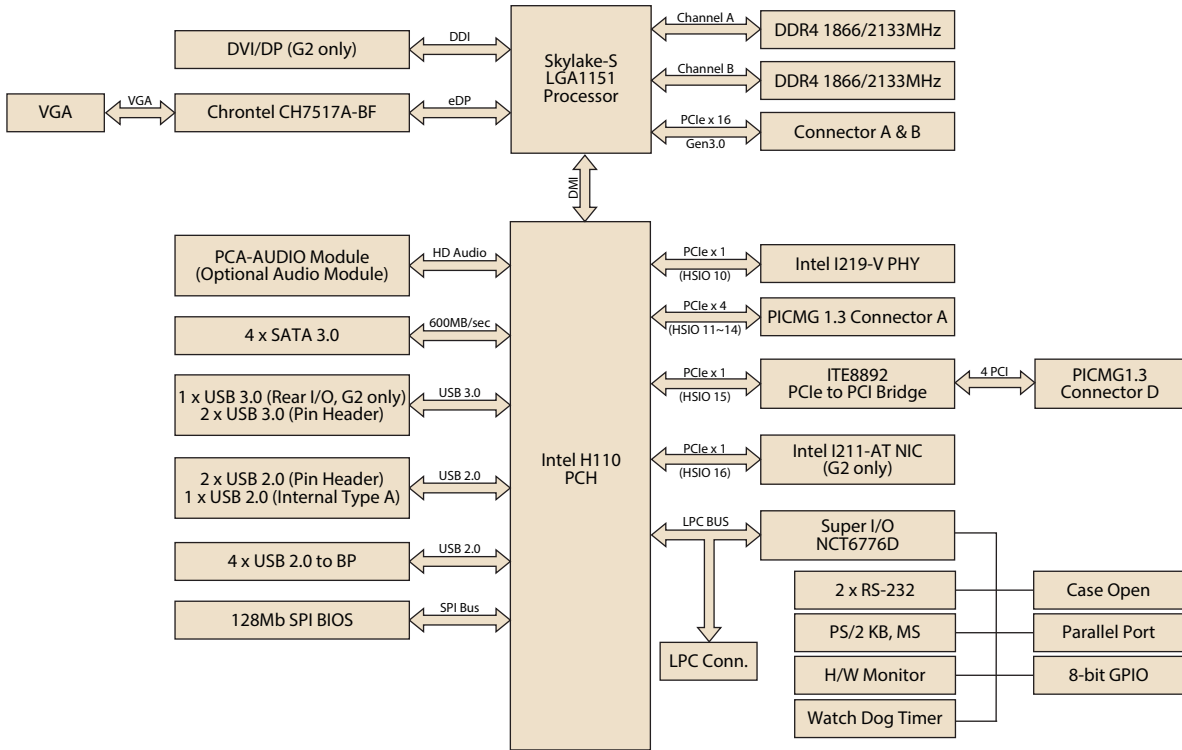
Utilities:



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	TBD	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									
Bus	BIOS	AMI 128Mbit SPI Flash									
	PCI-Express	One x16 and one x4 to backplane									
Memory	PCI	Four 32-bit 33 MHz PCI Masters to backplane									
	Technology	Dual channel (Non-ECC) U-DIMM DDR4 1866/2133 MHz									
	Max. Cap.	32 GB (16 GB per DIMM)									
Graphics	Socket	DDR4 288 pins DIMM x 2									
	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									
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									
	Parallel	1									
Watchdog Timer	GPIO	8 bit									
	Output	System reset									
Miscellaneous	Interval	Programmable 1-255 sec									
	Audio	Intel High Definition audio interface (required an audio extension module P/N: PCA-AUDIO-HDA1E)									
Power Requirement	Test environment	SKL 2.2G 65W DDR4 2133 8GB x 2									
	Voltage	+12V	+5V	+3.3V	+5Vsb	-12V	-5V				
	Current	2.64A	1.23A	0.19A	0.09A	0A	0A				
Environment	Operating	Non-operating									
	Temperature/Humidity	0 ~ 60° C(32~140° F); Depends on CPU and cooler solution					-40 ~ 85°C and 60° C @ 95% RH Non-Condensing				
Physical	Operating humidity:	40° C @ 85% RH Non-Condensing									
	Dimensions	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.

Optional Accessories

Part Number	Description
1700020277-01	2-port USB 3.0 cable w/ BKT(30cm)
1700002204	2-port USB 2.0 cable w/ BKT(27cm)
1700021831-01	DP to DVI-D cable w/ BKT for G2 sku
1701092300	Dual COM cable(2.54mm pitch), 28.5 cm
1960047831N001	CPU cooler for 2U and wallmount chassis
1960052651N001	CPU cooler for 2U and wallmount chassis (quiet version)
1960049408N001	CPU cooler for 1U and wallmount chassis
PCA-TPM-00A1E	TPM Module
PCA-COM485-00A1E	Quad COM-422/485 LPC module
PCA-COM232-00A1E	Quad COM-232 LPC module
PCE-DP10-00A1E	DP redriver board(25cm) for G2 sku
PCA-AUDIO-HDA1E	Extension module for High Definition Audio

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

Bracket View



PCE-5029G2-00A1E



PCE-5029VG-00A1E