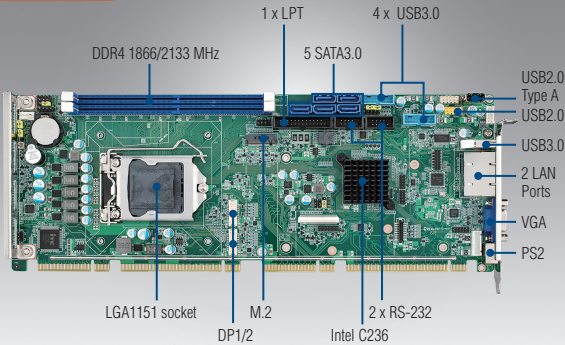


# PCE-7129

## LGA1151 6th Generation Intel® Xeon®/Core™i3/Pentium® SHB DDR4/SATA 3.0/USB3.0/M.2/Dual GbE /3 Displays

Preliminary



### Features

- Supports Intel Xeon E3-1200v5 series, Core™ i7/i5/i3 LGA1151 processors with C236
- Dual Channel (ECC/Non-ECC) DDR4 1866/2133 up to 32 GB
- Supports PCIE 3.0, M.2, USB 3.0, SATA3.0, SW Raid 0, 1, 5, 10
- Supports CRT and 2 x DVI-D/DP(cable optional) display
- Supports out-of-band remote management with AMT10
- Supports Advantech LPC modules
- Supports SUSIAccess and Embedded Software APIs

#### Software APIs:



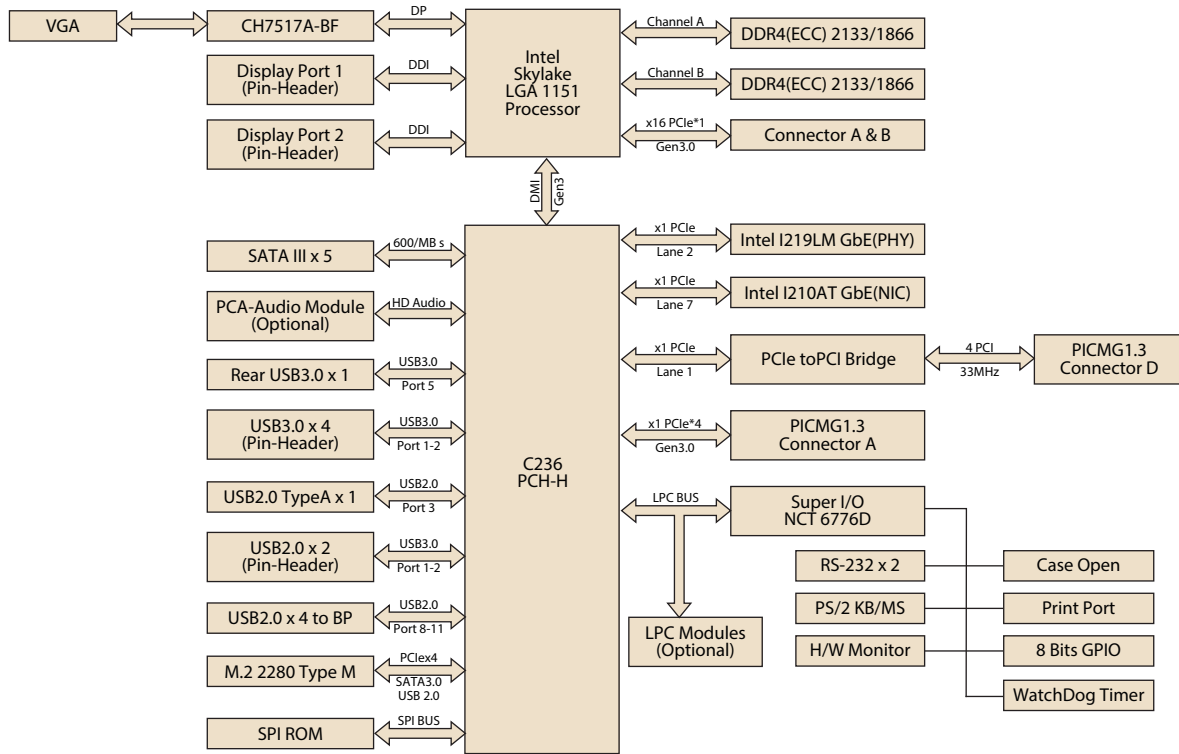
#### Utilities:



### Specifications

Processor System	CPU	E3-1275v5	E3-1225v5	E3-1268Lv5	i7-6700	i7-6700TE	i5-6500	i5-6500TE	i3-6100	i3-6100TE	G4400	G4400TE	G3900	G3900TE											
	Base Frequency	3.6GHz	3.3GHz	2.4GHz	3.4GHz	2.4GHz	3.2GHz	2.3GHz	TBD	2.7GHz	3.3GHz	2.9GHz	2.8GHz	2.6GHz											
	L3 Cache	8MB	6MB	8MB	8MB	8MB	6MB	6MB	4MB	4MB	3MB	3MB	2MB	2MB											
	SKU/Chipset	Intel C236																							
	BIOS	AMI 128Mbit SPI Flash																							
Bus	PCI-Express	One x16 or Two x8 and one x4 to backplane																							
	PCI	Four 32-bit 33 MHz PCI Masters to backplane																							
Memory	Technology	Dual channel (ECC/Non-ECC) U-DIMM DDR4 1866/2133 MHz (Note: Please select Intel ECC supported processor to enable ECC function; support DDR4 1024M x 8 memory technology)																							
	Max. Cap.	32 GB (16 GB per DIMM)																							
	Socket	DDR4 288 pins DIMM x 2																							
Graphics	Controller	Chipset integrated Intel Iris Pro or 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	Triple Display	CRT+DP/DVI-D+DP/DVI-D																							
	Interface	10/100/1000 Mbps																							
	Controller	LAN 1: Intel I219LM LAN 2: Intel I210AT																							
Rear I/O	Connector with LED	RJ45 x 2																							
	USB 3.0	1																							
	Ethernet	2																							
	VGA	1																							
	PS/2	1 (PS/2 Y cable supports 1 x keyboard and 1 x mouse)																							
Internal Connector	USB	7 USB2.0 (Pin-header*2+USB Type A*1+ 4 on backplane); 4 USB3.0 (Pin header)																							
	SATA (SW Raid 0,1,5,10)	5																							
	M.2 (2280 Type M)	1 (Support SATA3.0 or PCIe4x device)																							
	DP/DVI-D	2 (Pin header)																							
	COM	2																							
	Parallel	1																							
	IrDA	1																							
	GPIO	8bit																							
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-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				0.06A				0V			
Environment	Operating	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											
	Operating humidity:	40° C @ 85% RH Non-Condensing																							
Physical	Dimensions	338 mm (L) x 122 mm (W) (13.3" x 4.8")																							

## Block Diagram



## Ordering Information

Part Number	PCH	Memory	Backplane	LAN	VGA	DP/DVI-D	COM	SATA III	M.2	USB 2.0	USB 3.0	S/W Raid	AMT
PCE-7129G2-00A1E	C236	ECC/Non-ECC	PCE-5BXX PCE-7BXX	2	Yes	2*	2	5	1	7	5	Yes	Yes

Note: DP/DVI-D cable is optional

## Optional Accessories

Part Number	Description
1960052651N021	2U CPU cooler (PWM Fan)
PCA-AUDIO-HDA1E	Audio module
PCA-TPM-00A1E	TPM module(Trust Platform management)
PCA-COM232-00A1E	4 Ports RS-232 Module by LPC
PCA-COM485-00A1E	4 Ports RS-485/422 Module by LPC
1700020277-01	2 ports USB 3.0 cable w/ BKT(30cm)
1700021831-01	DP to DVI-D cable w/ BKT
PCE-DP10-00A1E	DP to DP cable w/ BKT

## 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

## Bracket View



PCE-7129G2-00A1E