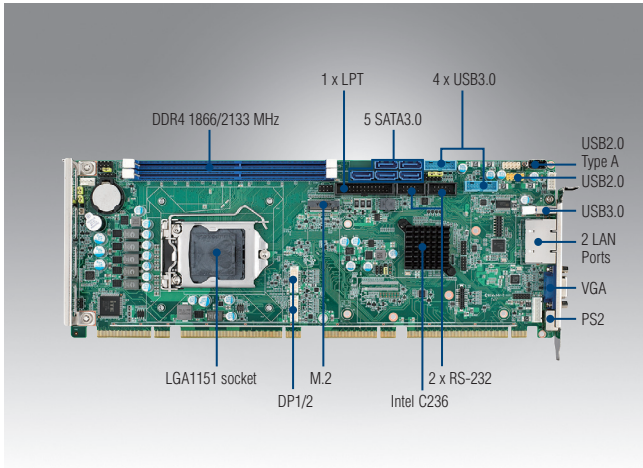


# PCE-7129

## LGA1151 6th and 7th Generation Intel® Xeon®/Core™ i7/i5/i3/Pentium® LGA1151 System Host Board with DDR4, SATA 3.0, USB 3.0, M.2, Dual GbE, and Triple Displays



### Features

- Intel® Xeon® E3-1200v5/Core™ i7/i5/i3 LGA1151 processor with C236 chipset
- Up to 32 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
- Supports CRT and 2 x DVI-D/DP display (with optional cable)
- Supports out-of-band remote management with AMT 11.0
- Supports Advantech's LPC modules, SUSIAccess, and embedded software APIs

Note: Intel 7th generation processors only support Windows 10 (64-bit)

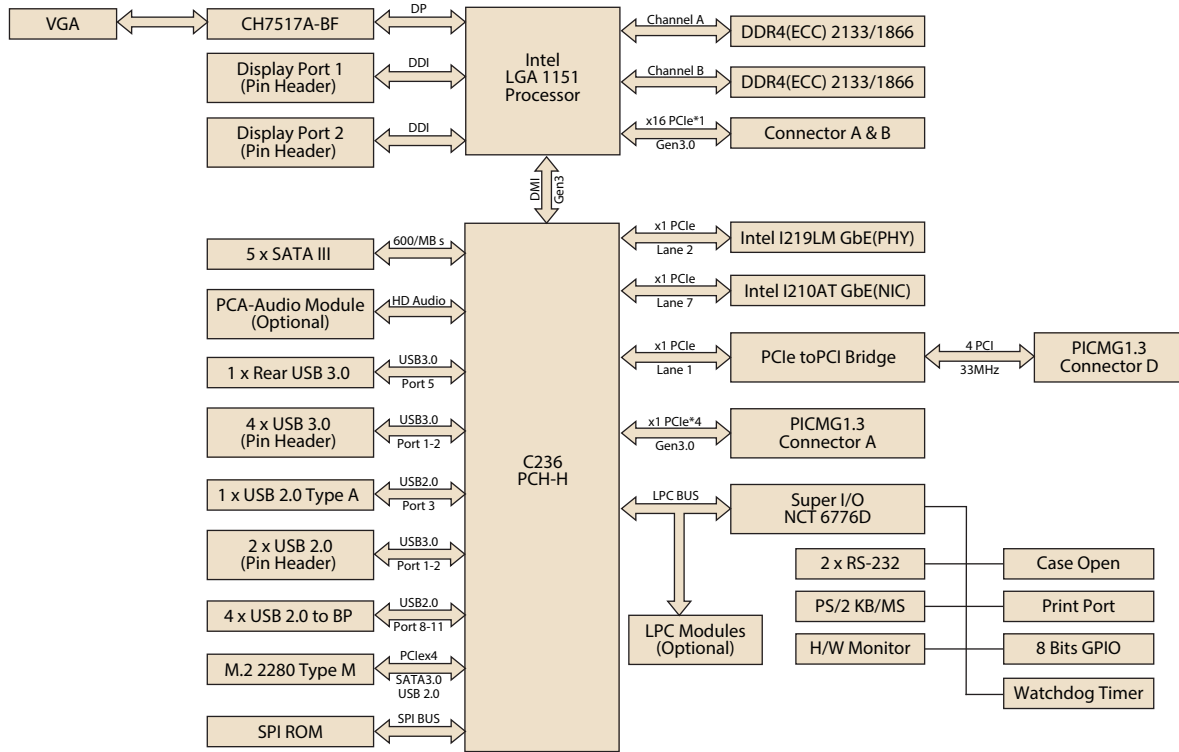
Quiet

CE FCC

### Specifications

Processor System	CPU	E3-1275v6	E3-1275v5	E3-1225v5	E3-1268Lv5	i7-7700	i7-7700T	i7-6700	i7-6700TE	i5-7500	i5-7500T	i5-6500	i5-6500TE	i3-7101E	i3-7101TE	i3-6100	i3-6100TE	G4400	G4400TE	G3900	G3900TE
	Base Frequency	3.8 GHz	3.6GHz	3.3GHz	2.4GHz	3.6 GHz	2.9 GHz	3.4GHz	2.4GHz	3.4 GHz	2.7 GHz	3.2GHz	2.3GHz	3.9 GHz	3.4 GHz	3.7GHz	2.7GHz	2.7GHz	3.3GHz	2.9GHz	2.8GHz
L3 Cache	8 MB	8MB	6MB	8MB	8MB	8 MB	8MB	8MB	8MB	6 MB	6 MB	6MB	6MB	3 MB	3 MB	4MB	4MB	3MB	3MB	2MB	2MB
SKU/Chipset	Intel® C236																				
BIOS	AMI® SPI Flash 128 Mbit																				
Bus	PCI-Express	1 x PCIe x16/2 x PCIe x8 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 1866/2133 MHz (supports x8 DDR4 1024 M) (Note: Intel ECC-supported processor must be selected to enable ECC function)																			
	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																			
	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																			
	Display Port	Supports resolutions of up to 1920 x 1080 pixel @ 60 Hz																			
Ethernet	Triple Display	CRT+DP/DVI-D+DP/DVI-D																			
	Interface	10/100/1000 Mbps																			
	Controller	LAN 1: Intel® I219-LM LAN 2: Intel® I210-AT																			
Rear I/O	Connector with LED	2 x RJ45																			
	USB 3.0	1																			
	Ethernet	2																			
	VGA	1																			
Internal Connector	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							
Environment	Current	2.64A				1.23A				0.19A				0.09A							
	Temperature	Operating 0 ~ 60 °C (dependent on CPU and cooler solution)																Non-Operating -40 ~ 85 °C			
Physical	Humidity	40 °C @ 85% relative humidity (non-condensing) 60 °C @ 95% relative humidity (non-condensing)																			
	Dimensions (L x H)	338 x 122 mm (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

## 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
1960047831N001	CPU cooler for 1U Chassis and 84W TDP
1960047831N001/ 1960077101N001	CPU cooler for 2U Chassis and 95W TDP
1960052651N021	CPU cooler for 2U/4U Chassis and 80W TDP
PCA-AUDIO-HDB1E	Audio module
PCA-TPM-00A1E	TPM 1.2 module
PCA-COM232-00A1E	4-port RS-232 LPC module
PCA-COM485-00A1E	4-port RS-422/485 LPC module
1700020277-01	2-port USB 3.0 cable w/ BKT (30 cm)
1700021831-01	DP to DVI-D cable w/ BKT
PCE-DP10-00A1E	DP to DP cable w/ BKT
PCA-TPM-00B1E	TPM 2.0 module

## I/O View



PCE-7129G2-00A1E