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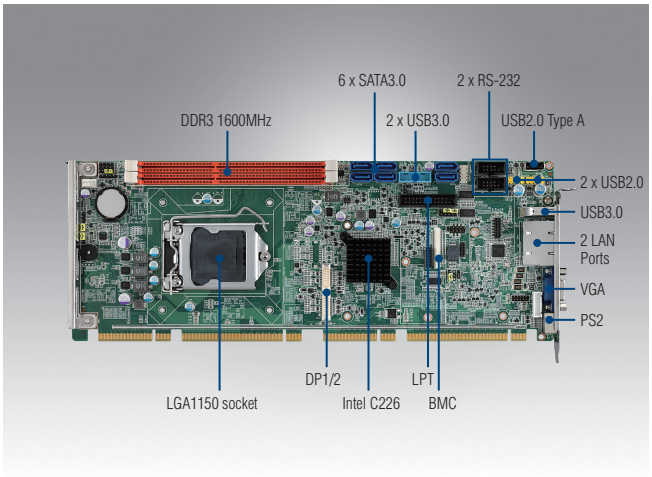
PCE-7128

LGA1150 Intel® Xeon®/Core™i3/ Pentium® SHB DDR3/SATA 3.0/USB3.0/ Dual GbE /3 Displays



Features

- Supports Intel® Xeon® E3 1200v3 series, Core™ i7/i5/i3 LGA1150 processors with C226
- Dual Channel (ECC/Non-ECC) DDR3 1333/1600 up to 16 GB
- Supports PCIE 3.0, USB 3.0, SATA3.0, SW Raid 0, 1, 5, 10
- Supports CRT and 2 x DP/DVI-D (optional) display
- Supports out-of-band remote management with AMT9.0 and IPMI
- Supports Advantech TPM module (LPC I/O)
- Supports SUSIAccess and Embedded Software APIs

Quiet

CE FCC

Specifications

Processor System	**Haswell refresh CPUs are supported from BIOS V2.xx**											
	CPU	i7-4790S	i5-4590S	i5-4590T	i3-4360	i3-4350T	i3-4340TE					
	Base Frequency	3.2GHz	3.0GHz	2.0GHZ	3.7GHz	3.1GHz	2.6GHz					
	L3 Cache	8MB	6MB	6MB	4MB	4MB	4MB					
	Haswell CPUs are supported by both BIOS V1.xx and V2.xx											
	CPU	E3-1275v3	E3-1225v3	E3-1268v3	i7-4770S	i7-4770TE	i5-4570S	i5-4570TE	i3-4330	i3-4330TE	G4320	G4320TE
	Base Frequency	3.5GHz	3.2GHz	2.3GHz	3.1GHz	2.3GHz	2.9GHz	2.7GHz	3.5GHz	2.4GHz	3.2GHz	2.3GHz
	L3 Cache	8MB	8MB	8MB	8MB	8M	6MB	4MB	3M	3M	3MB	3MB
	ECC Memory Supported	Yes	Yes	Yes	N/A	N/A	N/A	Yes	Yes	Yes	Yes	Yes
	SKU/Chipset	Intel C226										
	BIOS	AMI 128Mbit SPI Flash										
Bus	PCI-Express	One x16 or Two x8 plus four x1 to backplane										
	PCI	Four 32-bit 33 MHz PCI Masters to backplane										
Memory	Technology	Dual channel (ECC/Non-ECC) DDR3 1333/1600 UDIMM (Note: Please select Intel ECC supported processor to enable ECC function)										
	Max. Cap.	16 GB (8 GB per DIMM)										
	Socket	DDR3 240-pin 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 2000 pixel at 60Hz										
	DVI-D	Supports resolution up to 1920 x 1200 pixel at 60Hz										
	Triple Display	CRT+DP/DVI-D+DP/DVI-D										
Ethernet	Interface	10/100/1000 Mbps										
	Controller	LAN 1: Intel I217LM LAN 2: Intel I210AT										
	Connector with LED	RJ45 x 2										
SATA	S/W Raid 0, 1, 5, 10	SATA 3.0 x 6 (600 MB/sec)										
Rear I/O	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	Night USB2.0 (Pin-header*4+USB Type A*1+ 4 on backplane); Two USB3.0 (Pin header)										
	SATA	6										
	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	Core i7-4770S DDR3 1600 8GB x 2										
	Voltage	+12V	+5V	+3.3V	+5Vsb	-12V	-5V					
	Current	4.02A	1.36A	0.81A	0.09A	0A	0A					
Environment		Operating				Non-operating						
	Temperature/Humidity	0 ~ 60 °C (32~140 °F); Depends on CPU frequency and cooler solution Operating humidity: 40 °C @ 85% RH Non-Condensing				-40 ~ 85 °C and 60 °C @ 95% RH Non-Condensing						
Physical	Dimensions (L x H)	338 x 122 mm (13.3" x 4.8")										

All product specifications are subject to change without notice.

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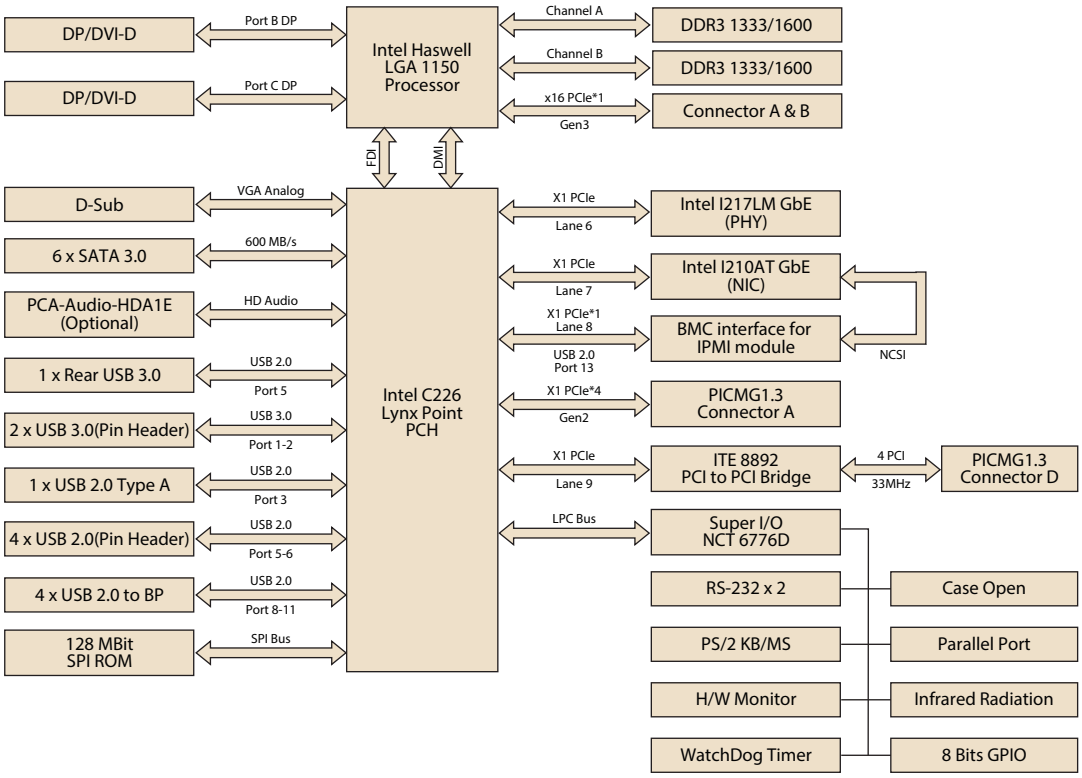
Block Diagram



Ordering Information

Part Number	PCH	Memory	Backplane	LAN	VGA	DP/ DVI-D	COM	SATA III	USB 2.0	USB 3.0	S/W Raid	AMT	IPMI
PCE-7128G2-00A1E	C226	ECC	PCE-5BXX PCE-7BXX	2	Yes	2*	2	6	10	3	Yes	Yes	Yes

Note: Both DP and DVI-D cable are 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
1700008461	4-port USB cable kit	x1
9689000068	Jumper package	x1
2190000902	Warranty Card	x1
2006512800	Startup manual	x1
2066512802	Utility CD	x1

Optional Accessories

Part Number	Description
1960047831N001	PCE-7128 optimized CPU Cooler (2U)
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
IPMI-1000-00A1E	IPMI2.0 module(Remote control management)
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

I/O View

PCE-7128G2-00A1E