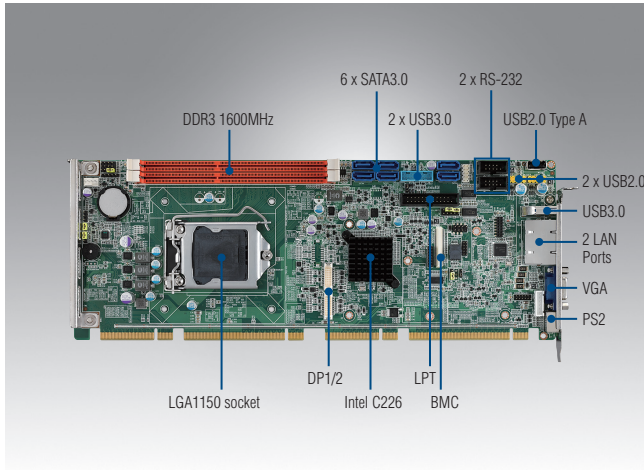


PCE-7128

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

Software APIs:



Watchdog H/W Monitor GPIO

Utilities:



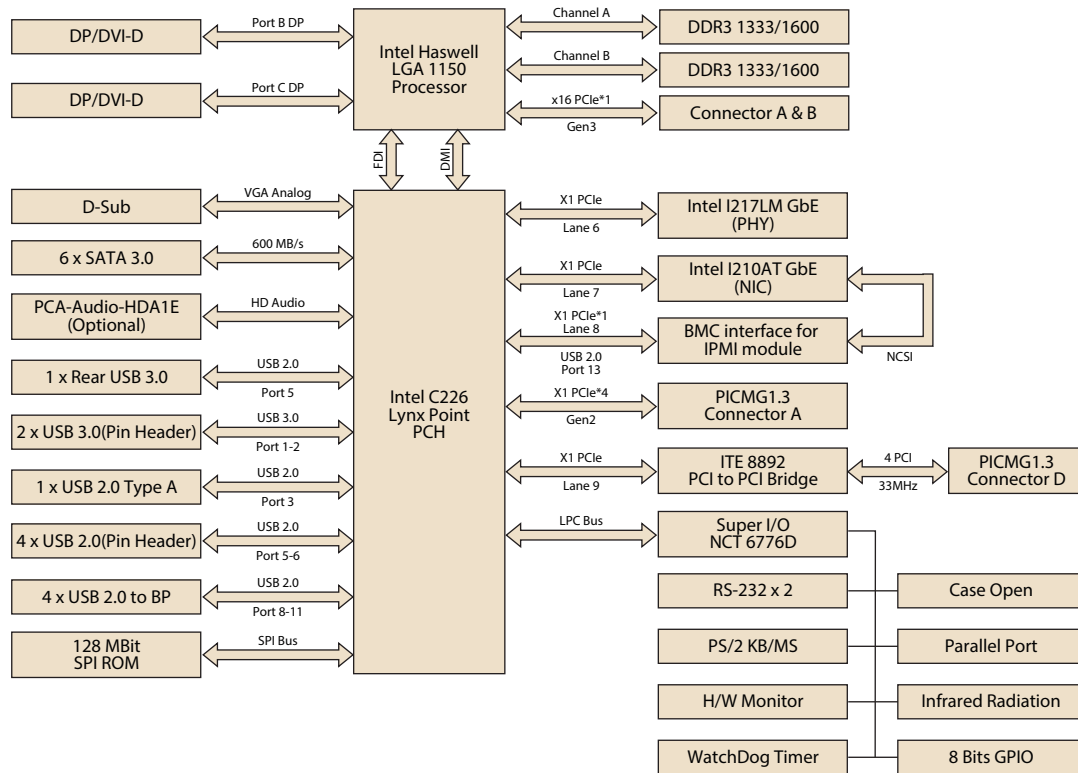
Monitoring



Specifications

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 E3-1225v3 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 (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 2048 x 1536 pixel at 60MHz
DVI-D	Supports resolution up to 1920 x 1200 pixel at 60MHz
Triple Display	CRT+DP/DVI-D+DP/DVI-D
Ethernet	
Interface	10/100/1000 Mbps
Controller	LAN 1: Intel I217LM LAN 2: Intel I210
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	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	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.

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

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
2066512800	Utility CD	x1

Bracket View



PCE-7128G2-00A1E