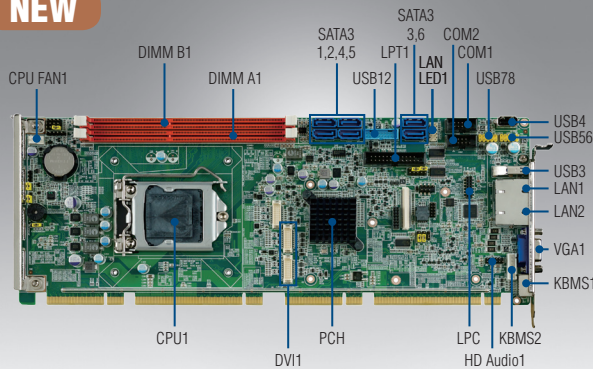


# PCE-5128

LGA1150 Intel® Core™ i7/i5/i3/Pentium® SHB  
DDR3/SATA 3.0/USB3.0/Dual GbE /3 Displays

**NEW**



## Features

- Supports Intel® Core™ i7/i5/i3 LGA1150 processors with Q87
- Dual Channel (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 DVI-D(optional) display
- Supports out-of-band remote management with AMT9.0
- Supports Advantech TPM module (LPC I/O)
- Supports SUSIAccess and Embedded Software APIs

### Software APIs:



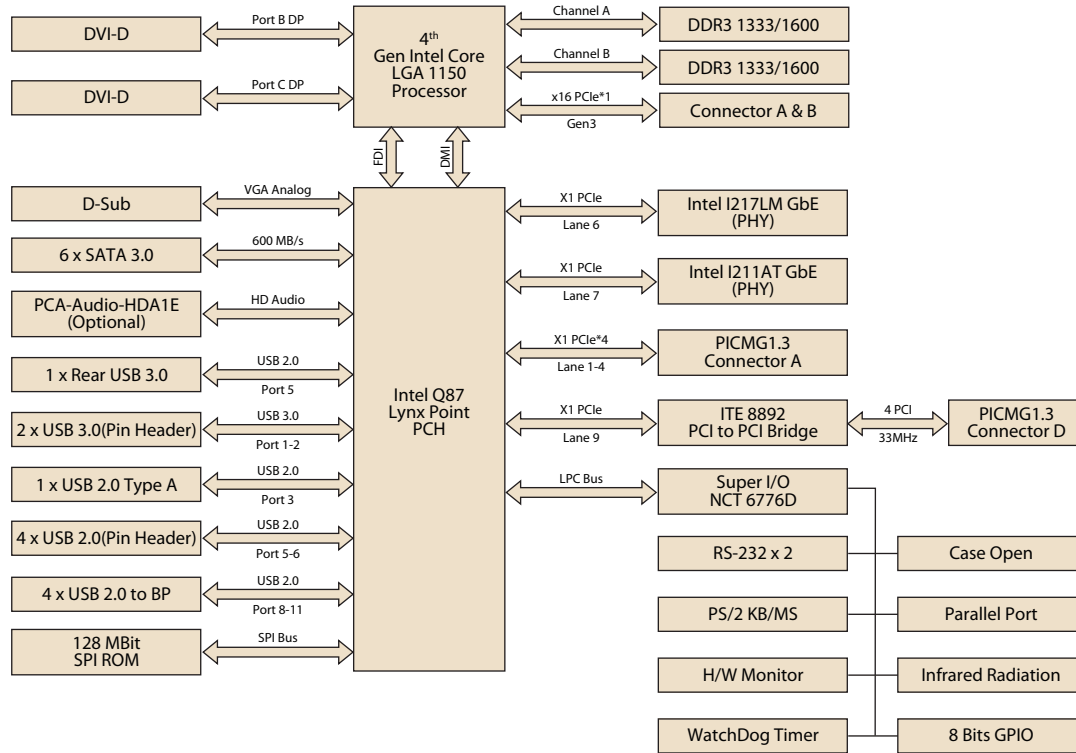
### Utilities:



## 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		
Processor System		Haswell CPUs are supported by both BIOS V1.xx and V2.xx							
CPU		i7-4770S	i7-4770TE	i5-4570S	i5-4570TE	i3-4330	i3-4330TE	G3420	G3320TE
Base Frequency		3.1GHz	2.3GHz	2.9GHz	2.7GHz	3.5GHz	2.4GHz	3.2GHz	2.3GHz
L3 Cache		8MB	8M	6MB	4MB	3MB	3MB	3MB	3MB
SKU/Chipset		Intel Q87							
BIOS		AMI 128Mbit SPI Flash							
Bus		PCI-Express							
		One x16 plus four x1 to backplane							
Bus		PCI							
		Four 32-bit 33 MHz PCI Masters to backplane							
Memory		Technology							
		Dual channel (Non-ECC) DDR3 1333/1600							
Memory		Max. Cap.							
		16 GB (8 GB per DIMM)							
Memory		Socket							
		DDR3 240-pin DIMM x 2							
Graphics		Controller							
		Chipset integrated Intel HD Graphics							
Graphics		VRAM							
		Shared system memory is subject to OS							
Graphics		CRT							
		Supports resolution up to 2048 x 1536 pixel at 60MHz							
Graphics		DVI-D							
		Supports resolution up to 1920 x 1200 pixel at 60MHz							
Graphics		Triple Display							
		CRT+DVI-D+ DVI-D							
Ethernet		Interface							
		10/100/1000 Mbps							
Ethernet		Controller							
		LAN 1: Intel I217LM LAN 2: Intel I211AT							
Ethernet		Connector with LED							
		RJ-45 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							
Rear I/O		Ethernet							
		2							
Rear I/O		VGA							
		1							
Rear I/O		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)							
Internal Connector		SATA							
		6							
Internal Connector		DVI-D							
		2 (Pin header)							
Internal Connector		COM							
		2							
Internal Connector		Parallel							
		1							
Internal Connector		IrDA							
		1							
Internal Connector		GPIO							
		8-bit							
Watchdog Timer		Output							
		System reset							
Watchdog Timer		Interval							
		Programmable 1-255 sec							
Miscellaneous		Audio							
		Intel High Definition audio interface (required an audio extension module P/N: PCA-AUDIO-HDA1E)							
Miscellaneous		Test Environment							
		Core i7-4770S DDR3 1600 8GB x 2							
Power Requirement		Voltage							
		+12V	+5V	+3.3V	+5Vsb	-12V	-5V		
Power Requirement		Current							
		4.02A	1.36A	0.81A	0.09A	0A	0A		
Environment		Operating							
		Non-operating							
Environment		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	DVI-D	COM	SATA III	USB 2.0	USB 3.0	S/W Raid	AMT
PCE-5128G2-00A1E	Q87	Non-ECC	PCE-5BXX	2	Yes	2*	2	6	10	3	Yes	Yes

Note: DVI-D cable is optional

## Optional Accessories

Part Number	Description
1960047831N001	PCE-5128 optimized CPU Cooler (2U)
PCA-AUDIO-HDA1E	Audio module
PCA-TPM-00A1E	TPM module(Trust Platform management)
1700020277-01	2 ports USB 3.0 cable w/ BKT(30cm)
1700021831-01	DP to DVI-D cable w/ BKT

## Packing List

Part Number	Description	Quantity
1700003194	Serial ATA HDD data cable	x2
1703150102	Serial ATA HDD power cable	x2
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-5128G2-00A1E