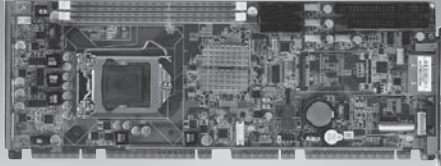


# PCE-5125

## Intel Core i7/i5/i3/Xeon SHB with DDR3/ Dual GbEs/SATA RAID/Dual Display

Preliminary



CE FCC

### Features

- LGA 1156 Intel® Core™ i7/i5/i3/Pentium/Xeon CPUs.
- Dual Channel (ECC) DDR3 1333 MHz up to 8 GB
- Support PCE-7000 and 5000 series backplanes
- VGA and DVI dual display
- Supports embedded software APIs and Utilities

Note: Purchasing PCE-5125's proprietary CPU cooler from Advantech is a must. Other brands' CPU coolers are NOT compatible with PCE-5125.

**Software APIs:**

- Watchdog
- H/W Monitor
- GPIO

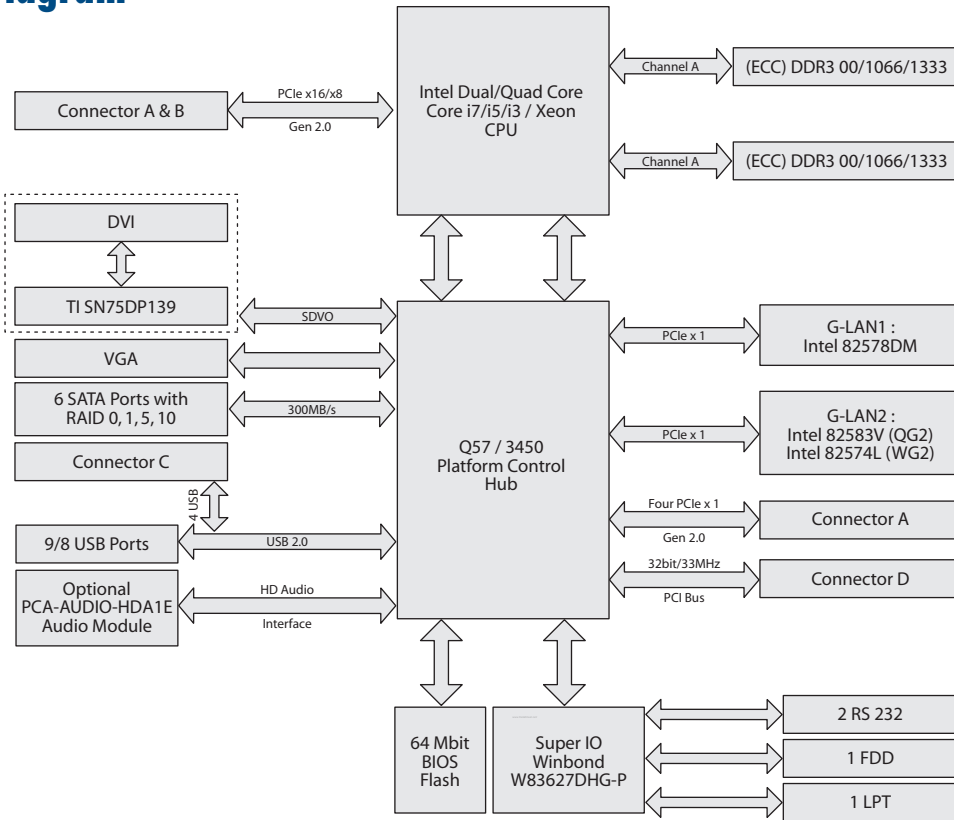
**Utilities:**

- BIOS flash
- eSOS
- Monitoring
- Flash Lock
- Embedded Security ID

### Specifications

Processor System	CPU	Xeon	Core i7	Core i5 700	Core i5 600	Core i3	Pentium	
	Core Number	4	4	4	2	2	2	
	Speed	2.93 GHz	2.93 GHz	2.66 GHz	3.33 GHz	3.06 GHz	2.8 GHz	
	L2 Cache	8 MB	8 MB	8 MB	4 MB	4 MB	3 MB	
	Integrated Graphic	Only those Core i5 600, Core i3 and Pentium CPUs with Clarkdale core are embedded with integrated graphics						
	Socket	LGA1156						
	Chipset	Q57 for QG2, QVG SKUs; 3450 for WG2 SKU						
	BIOS	AMI 64Mb SPI Flash						
	Note: Xeon 3400 series are only supported by WG2 SKU.							
	Bus	PCI-Express	One PCIe x16 or two x8, plus four x1 to backplane (Gen 2.0) (Only WG2 SKU supports two PCIe x8)					
PCI		Four 32bit/33MHz PCI Masters to Backplane						
Memory	Technology	Dual channel DDR3 800/1066/1333 MHz						
	Max. Cap.	4 GB per DIMM, total 8 GB, non-ECC for QG2, QVG SKUs; ECC for WG2 SKU						
	Socket	Two 240-pin DDR3 memory socket						
Graphic	On board	?? MHz ?? graphics engine, Direct X ??/Pixel Shader ?? compliant						
	VRAM	Max. 1 GB shared video memory with system memory ≥ 2 GB.						
	Video Output	15 pin VGA D-sub connector x1/On-board DVI pin header x 1						
Ethernet	Interface	10/100/1000Base-T						
	Controller	LAN1: Intel 82578DM LAN2: Intel 82583V for QG2, QVG SKUs; Intel 82574L for WG2 SKU						
	Connector	RJ45 with LED Connector x 2 for QG2, WG2 SKUs/x 1 for QVG SKU						
SATA 2	Max. transfer rate	300MB/s						
	Channel	6						
	RAID	0, 1, 5, 10						
EIDE	Mode	N/A						
	Channel	N/A						
I/O Interface	USB 2.0	Maximum 9 ports on the SHB, 4 ports to the BP						
	Serial	2 RS-232 with Pin Headers						
	Parallel	1 (EPP/ECP)						
	FDD	1						
	PS/2	1 (for mouse and keyboard, an Y cable is included in the package)						
Watchdog Timer	Output	System reset						
	Interval	Programmable 1, 2, 4, 8, ..., 256 sec						
Miscellaneous	Audio Output	Intel High Definition audio interface (requires an audio extension module, P/N: PCA-AUDIO-HDA1E)						
Power Requirement	Test Equipments	Core i7 ?? CPU ?? GHz, TDP ??W, 2 Piece of 8 GB DDR3 1333 MHz						
	Voltage	+12 V	+5 V	+3.3 V	+5 VSB	-12 V	-5 V	
	Current	TBD	TBD	TBD	TBD	N/A	N/A	
	Test Equipments	Xeon ?? CPU ?? GHz, TDP ??W, 2 Piece of 8GB ECC DDR3 1333 MHz						
	Voltage	+12 V	+5 V	+3.3 V	+5 VSB	-12 V	-5 V	
	Current	TBD	TBD	TBD	TBD	N/A	N/A	
Environment	Status	Operating			Non-Operating			
	Temperature	0 ~ 60° C (32 ~ 140° F) (operation humidity: 40° C @ 85% RH Non-Condensing)			-40 ~ 85° C and 60° C @ 95% RH Non-Condensing			
Physical	Dimensions	185 mm (L) x 122 mm (W) (7.3" x 4.8")						

## Board Diagram



## Ordering Information

Model Name	Memory	BP Support	LAN	VGA	DVI	USB	COM	Remote Management
PCE-5125QG2-00A1E	Non-ECC	PCE-5000	2 GbE	Yes	Yes	13	2	SNMP-1000
PCE-5125QVG-00A1E	Non-ECC	PCE-5000	1 GbE	Yes	-	13	2	SNMP-1000
PCE-5125WG2-00A1E	ECC/Non-ECC	PCE-5000/7000	2 GbE	Yes	-	12	2	IPMI

## Packing List

Part Number	Description	Quantity
1700340640	FDD cable	x 1
1700003194	Serial ATA HDD data cable	x 2
1703150102	Serial ATA HDD power cable	x 2
1701260305	COM + printer ports cable kit	x 1
1700060202	Keyboard and mouse Y-cable	x 1
1700008461	4-port USB cable kit	x 1
9689000068	Jumper package	x 1
2002721020	User Note for Full-Sized CPU Card	x 1
-	Warranty Card	x 1
-	Startup manual	x 1
-	Utility CD	x 1

## Bracket View



PCE-5125QG2-00A1E  
PCE-5125WG2-00A1E



PCE-5125QVG-00A1E

## Accessories

Part Number	Description
PCA-AUDIO-HDA1E	Audio extension module

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