

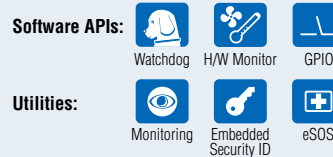
# PCE-5125

Intel® Core™ i7/i5/i3/Xeon® SHB with  
DDR3/Dual GbEs/SATA RAID



## Features

- LGA 1156 Intel® Core™ i7/i5/i3/Pentium®/Xeon® processors
- Dual Channel (ECC) DDR3 1333 MHz up to 8 GB
- Supports mini-PCIe expansion
- Supports embedded software APIs and Utilities



Note: eSOS need ODM BIOS by request



CE FCC

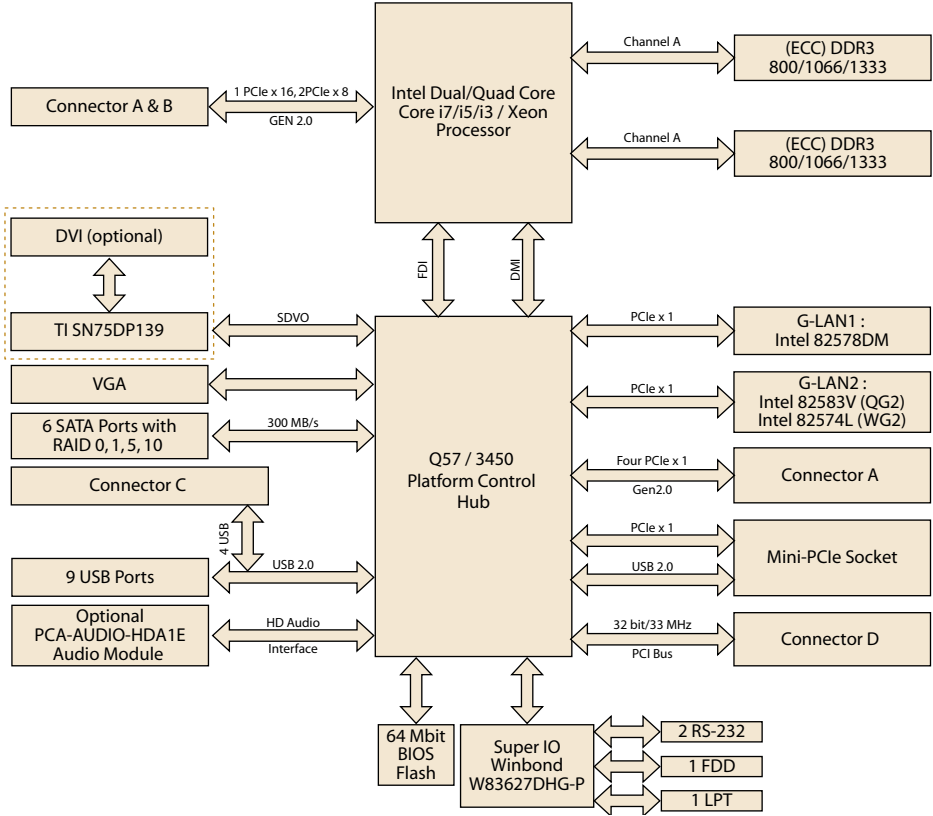
## Specifications

Processor System	CPU	Xeon 34XX	Core i7 8XX	Core i5 7XX	Core i5 6XX	Core i3 5XX	Pentium G69XX
	Speed	2.93 GHz	2.93 GHz	2.66 GHz	3.60 GHz	3.06 GHz	2.8 GHz
	Integrated Graphics	-	-	-	Yes	Yes	Yes
	L3 Cache	8 MB	8 MB	8 MB	4 MB	4 MB	3 MB
	Support Model	WG2	QG2	QG2	QG2/WG2	QG2/WG2	QG2/WG2
	Socket	LGA1156					
	Chipset	Q57 for QG2 version; 3450 for WG2 version (WG2 only supports Xeon 34xx, Core i5 6XX, Core i3 5XX, and Pentium G69XX CPUs)					
	BIOS	AMI 64 MB SPI Flash					
Bus	PCI-Express	One PCIe x16 or two x8, plus four x1 to backplane (Gen 2.0) (Only WG2 version supports two PCIe x8 to support PCE-7XXX backplanes)					
	PCI	Four 32-bit 33 MHz PCI Masters to Backplane					
Memory	Technology	Dual channel (ECC) DDR3 800/1066/1333 MHz (ECC is only for WG2 version)					
	Max. Cap.	4 GB per DIMM, total 8 GB, non-ECC for QG2 version; ECC for WG2 version					
	Socket	Two 240-pin DDR3 memory sockets					
Graphics	On board	Intel HD Graphics (Only the Core i5 6XX, Core i35XX and Pentium G69XX processors are embedded with Intel HD Graphics)					
	VRAM	1 GB maximum shared memory with 2 GB and above system memory installed					
	Video Output	15 pin VGA D-sub connector x1/onboard DVI pin header x 1 (DVI optional)					
Ethernet	Interface	10/100/1000 Mbps					
	Controller	LAN1: Intel 82578DM LAN2: Intel 82583V for QG2 version; Intel 82574L for WG2 version					
	Connector	RJ45 with LED Connector x 2 for QG2, WG2 versions					
SATA 2	Max. transfer rate	300 MB/s					
	Channel	6					
	RAID	0, 1, 5, 10					
EIDE	Mode	N/A					
	Channel	N/A					
I/O Interface	USB 2.0	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, a Y cable is included in the package)					
	Mini PCI Express Socket	1 (1 PCIe x 1 Gen 2.0 and 1 USB 2.0)					
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 Equipment	Intel Core i7-860 processor; DDR3 1333 MHz 2 GB x 2					
	Voltage	+12 V	+5 V	+3.3 V	+5 VSB	-12 V	-5 V
	Current	12.156 A	15.576 A	12.108 A	0.024 A	0 A	0 A
Environment	Status	Operating				Non-Operating	
	Temperature	0 ~ 60° C (32 ~ 140° F) (operating humidity: 40° C @ 85% RH Non-Condensing)				-40 ~ 85° C and 60° C @ 95% RH Non-Condensing	
Physical	Dimensions	338 x 122 mm (13.3" x 4.8")					



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### Board Diagram



### Ordering Information

Model Name	Chipset	Memory	Backplane	LAN	VGA	USB	COM
PCE-5125QG2-00A1E	Q57	Non-ECC	PCE-5XXX	2 GbE	Yes	13	2
PCE-5125WG2-00A1E	3450	ECC/Non-ECC	PCE-5XXX/7XXX	2 GbE	Yes	13	2

Note 1: Only the Core i5 6XX, Core i3 5XX and Pentium G69XX processors support on-board VGA output, others do not have VGA output and a discrete graphic card is necessary for graphic function.

Note 2: WG2 version supports all Advantech PCE-5XXX/7XXX backplanes EXCEPT PCE-7B10-04A1E.

### Bracket View



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

### Optional Accessories

Part Number	Description
PCA-AUDIO-HDA1E	Audio extension module
1960047831N001	PCE-5125 Proprietary CPU Cooler
PCA-5650-00A1E	Mini PCIe graphic card with Silicon Motion SM750 GPU
PCA-5612-00A1E	PCI graphic card with XGI Z9s GPU

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

### Packing List

Part Number	Description	Quantity
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
-	Warranty Card	x 1
-	Startup manual	x 1
-	Utility CD	x 1

