

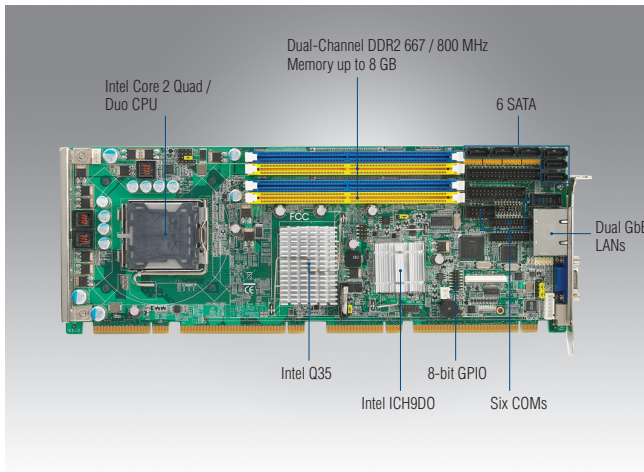


**THE DATASHEET OF  
PCE-5124G2-00A1E**



# PCE-5124

LGA775 Intel® Core™ 2 Quad SHB  
with VGA/Dual GbE/6 COM Ports



## Features

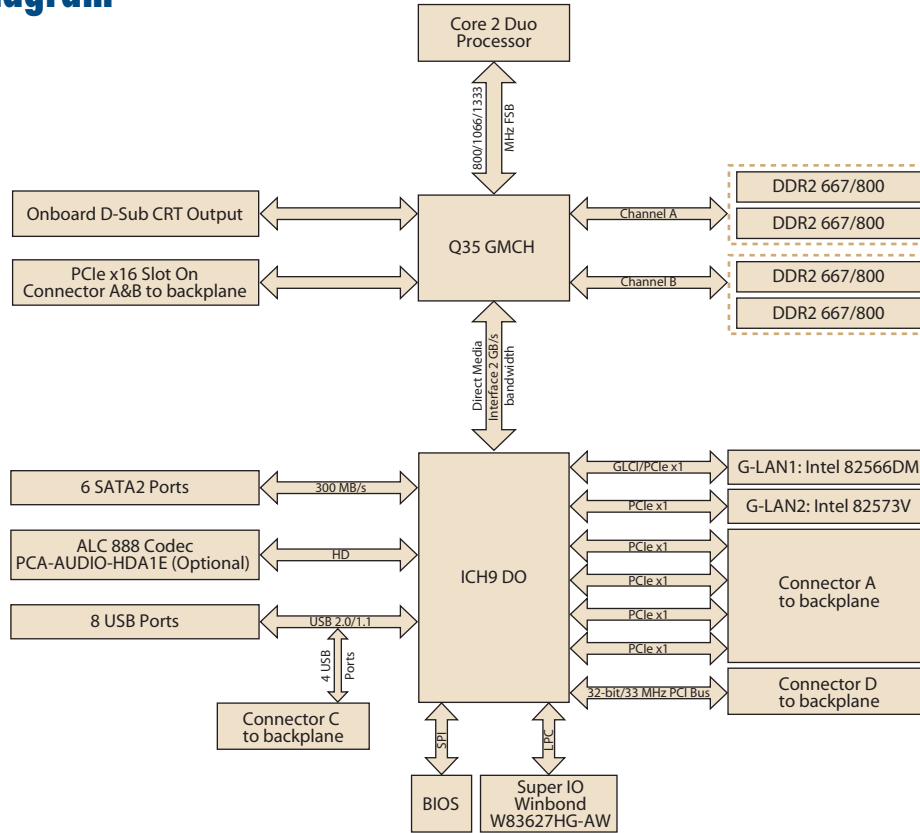
- Complies with PICMG 1.3
- Supports LGA 775 Intel® Core™2 Quad processors with FSB 1333 MHz
- Supports dual channel DDR2 667/800 SDRAM up to 8 GB
- One PCIe x16 and Four x1 to backplane
- Dual gigabit Ethernet via two PCIe x1 lanes
- Supports 6 COM ports
- 6 SATA2 ports supports S/W SATA Raid 0, 1, 10, 5



## Specifications

Processor System	CPU	Core 2 Quad	Core 2 Duo	Pentium Dual-Core	Celeron 400 Sequence
	Max. Speed	Q9650 (3.0 GHz)	E8600 (3.33 GHz)	E5400 (2.7 GHz)	440 (2 GHz)
	L2 Cache	12 MB	6 MB	2 MB	512 KB
	Chipset	Intel Q35 + ICH9DO			
	BIOS	AMI 16 Mb SPI Flash x 2			
	Front Side Bus	1333/1066/800 MHz			
Bus	PCIe	One x16 & Four x1 to backplane			
	PCI	Four 32-bit/33 MHz PCI Masters to backplane			
Memory	Technology	Dual-channel DDR2 667/800 MHz DIMMs			
	Max. Capacity	8 GB			
	Socket	240-pin DIMM x 4			
Graphics	External Card	PCIe x16 Graphics Card			
	Chipset Integrated	Intel Graphics Media Accelerator 3100			
	VRAM	Shared with 384 MB system memory			
	Video Output	15-pin D-sub Connector x1			
Ethernet	Interface	10/100/1000 Mbps			
	Controller	LAN1: Intel 82566DM LAN2: Intel 82573V			
	Connector	RJ-45 with LED Connector x 2			
SATA2	Max. Data Transfer Rate	300 MB/s			
	Channel	6 on SHB; support S/W RAID 0,1, 10, 5			
EIDE		This product does NOT supports EIDE port.			
I/O Interface	USB 2.0	8 ports on the SHB, 4 ports on the BP			
	Serial	5 RS-232 and 1 RS-232/422/485 with pin headers			
	Parallel	1 (EPP/ECP)			
	FDD	1			
	PS/2	1 (for mouse and keyboard, and Y-cable is included in the package)			
Watchdog Timer	Output	System reset			
	Interval	Programmable, 1~255 sec/min			
Miscellaneous	Audio Output	Intel High Definition audio interface (requires an audio extension module P/N: PCA-AUDIO-HDA1E)			
Power Requirement	CPU	Intel Core 2 Quad Desktop Processor Q6200; DDR2 800 MHz 1 GB x 4			
	Voltage	+12 V	+5 V	+3.3 V	+5 VSB -12 V -5 V
	Current	6.78 A	4.06 A	2.72 A	0.43 A 0 0
Environment	Temperature	Operating		Non-Operating (Storage)	
		0 ~ 60° C (32 ~ 140° F) (operation humidity: 40° C @ 85% RH Non-Condensing)		-40° C ~ 85° C and 60° C @ 95% RH Non-Condensing	
Physical	Dimensions	338.58 mm (L) x 126.39 mm (W) (13.3" x 4.98")			

## Board Diagram



## Ordering Information

Part Number	Gigabit LAN	VGA
PCE-5124G2-00A1E	Dual	Yes
PCE-5124VG-00A1E	Single	Yes

## Bracket View



PCE-5124VG-00A1E



PCE-5124G2-00A1E

## 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	Printer + COM cable	x 1
1700060202	Y-cable for PS/2 mouse & keyboard	x 1
1700008461	USB cable with 4 ports	x 1
9689000068	Jumper pack	x 1
2002721020	User Note for Full-Size CPU Card	x 1
2002775001	User Note for LGA775 CPU	x 1
2190000902	Warranty Card	x 1
2002512410	Startup manual	x 1
2062512401	Utility CD	x 1

## Optional Accessories

Part Number	Description
PCA-AUDIO-HDA1E	Audio extension module
1750000332	CPU cooler for LGA775 Pentium 4 processor up to 3.8 GHz (115 W), for 2U or higher chassis
1701092300	Dual-COM port cable kit for COM 1-2 (Only for G2 Version)
1700008762	Dual-COM port cable kit for COM 3-4 and COM 5-6

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