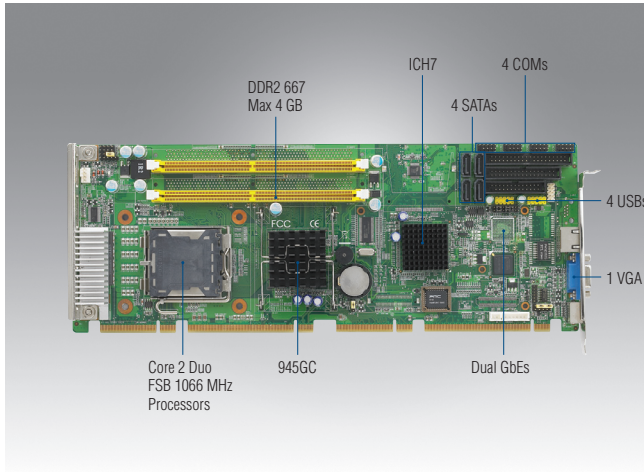


# PCE-5020

LGA775 Intel® Core™2 Duo SHB  
with VGA/Dual GbE



## Features

- Compliant with PICMG 1.3
- Supports LGA 775 Intel® Core™2 Duo processors with 1066 MHz FSB
- Supports Dual Channel DDR2 667 MHz SDRAM up to 4 GB
- One PCIe x16 and Four x1 to backplane
- Dual GbE LANs via PCIe x1 Lanes
- Supports 4 SATA2 Ports with S/W RAID 0, 1, 5, 10
- Supports Up To 4 Onboard COM ports

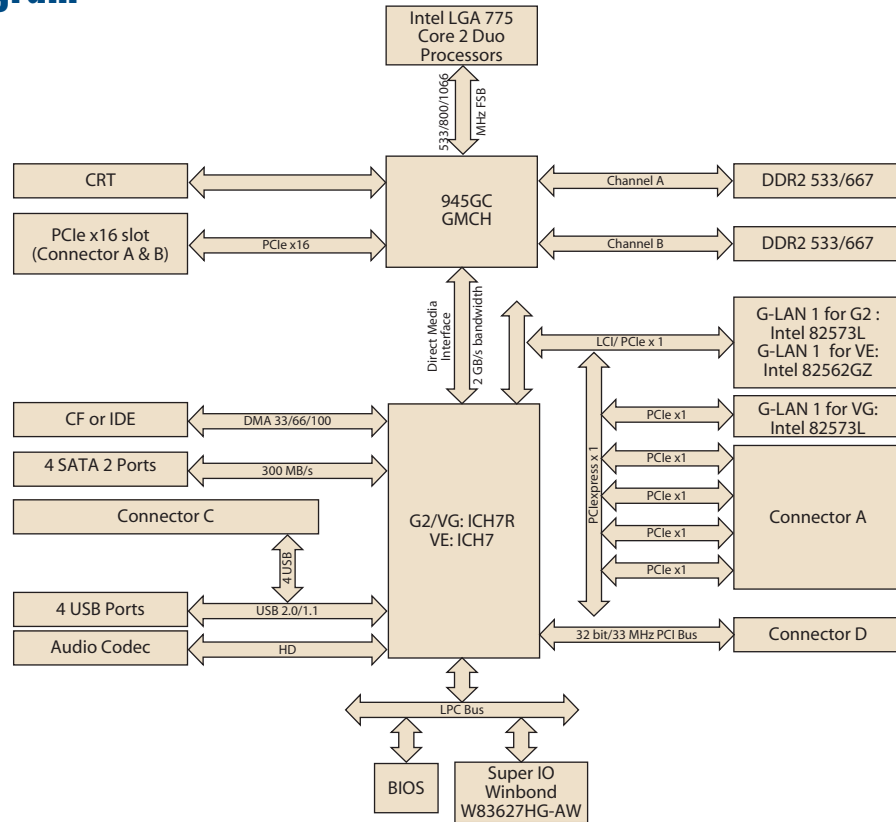
Note: Purchasing PCE-5020's proprietary CPU cooler from Advantech is a must. Other brands' CPU coolers are NOT compatible with PCE-5020.



## Specifications

Processor System	CPU	Intel Core2 Duo	Pentium Dual-Core	Intel Celeron D 440	Pentium 4	Celeron D	
	FSB	1066 MHz	800 MHz	800 MHz	800 MHz	533 MHz	
	Max Speed	2.93 GHz	2.7 GHz	2 GHz	3.4 GHz	3.6 GHz	
	L2 Cache	4 MB	2 MB	512 KB	2 MB	512 KB	
	Chipset	VG Sku: Intel 945GC + ICH7R VE Sku: Intel 945GC + ICH7					
	BIOS	AWARD 4 Mbit FWH					
Bus	PCIe	One x16 and Four x1 to backplane					
	PCI	Four 32-bit/33 MHz PCI Masters to backplane					
Memory	Technology	Dual-channel DDR2 400/533/667 MHz DIMMs					
	Max. Cap.	2 GB					
	Socket	240-pin DIMM x 2					
Graphics	Discrete	PCIe x16 Graphics Card					
	Integrated	Intel Graphics Media Accelerator 950					
	VRAM	Shared with 224 MB system memory					
	Video Output	15-pin D-sub Connector x1					
Ethernet	Interface	10/100/1000 Mbps					
	Controller	G2 Sku: 82573L x 2 VG Sku: 82573L x 1 VE Sku: 82562GZ x 1					
	Connector	RJ-45 with LED Connector x 1					
SATA	Bandwidth	300 MB					
	Channel	4 on SHB, G2/VG Sku supports S/W RAID 0, 1, 5, 10, VE Sku has NO S/W RAID					
EIDE	Mode	ATA 100/66/33					
	Channel	1 (Supports up to 2 IDE devices including 1 optional CF socket)					
I/O Interface	USB 2.0	4 ports on the SHB, 4 ports on the BP					
	Serial	G2 Sku: 1 RS-232/422/485 and 3 RS-232 with pin headers VG Sku: 1 RS-232/422/485 and 3 RS-232 with pin headers VE Sku: 1 RS-232/422/485 and 1 RS-232 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	Interrupt, system reset				
Miscellaneous	Interval	Programmable, 1~255 sec/min					
	Audio Output	Intel High Definition audio interface (requires an audio extension module P/N: PCA-AUDIO-HDA1E)					
Power Requirement	CPU	Pentium D 3.2 GHz / 2 MB L2/ 800 MHz FSB / 130 W TDP					
	Memory	DDR2 667 MHz 1 GB x 2					
	Voltage	+12 V	+5 V	+3.3 V	+5 VSB	-12 V	-5 V
	Current	15 A	2 A	20 A	0.7 A	0 A	0 A
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	LAN	S/W RAID	VGA	COM
PCE-5020G2-00A1E	Dual GbE	Yes	Yes	4
PCE-5020VG-00A1E	Single GbE	Yes	Yes	4
PCE-5020VE-00A1E	Single FE	-	Yes	2

## Bracket View



PCE-5020VG-00A1E  
PCE-5020VE-00A1E



PCE-5020G2-00A1E

## 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	COM + printer ports cable kit	x 1
1701092300	Dual COM cable kit (For G2 and VG Sku)	x 1
1700060202	Keyboard and mouse Y-cable	x 1
1700008461	4-port USB cable kit	x 1
1701400452	Ultra ATA 66/100 flat cable	x 1
9689000068	Jumper package	x 1
2002721020	User note for full-size CPU card	x 1
2190000902	Warranty card	x 1
2002502012	Startup manual	x 1
2062502000	Utility CD	x 1

## Optional Accessories

Part Number	Description
1701092300	Single COM cable kit
PCA-AUDIO-HDA1E	Audio extension module
1960021193T000	PCE-5020 proprietary CPU cooler for Core 2 Duo/Pentium Dual-Core/Celeron 400 CPUs (TDP=<65W)
1750000400	PCE-5020 proprietary CPU cooler for Pentium 4 CPUs (TDP=<115W)

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