

# PCE-5020

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

**NEW**



## 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

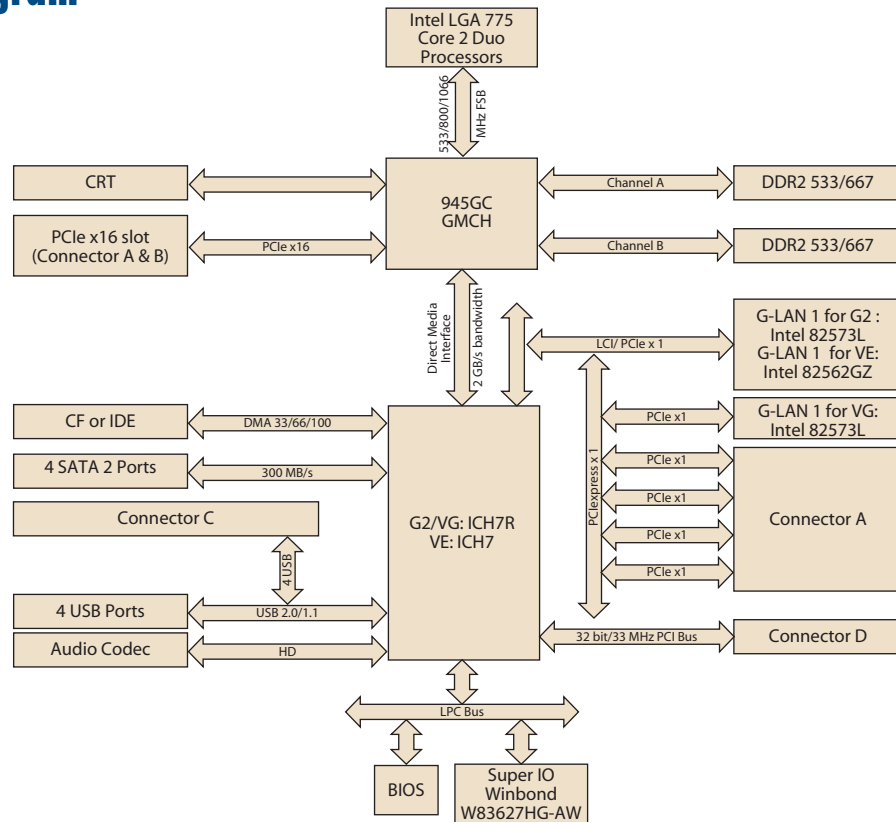
Note: Purchasing PCE-5020's proprietary CPU cooler from Advantech is a must. Other brands' CPU coolers are NOT compatible with PCE-5020.



## Specifications

Processor System	CPU	Intel Core 2 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.	4 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, 2, 4, 8, ..., 256 sec				
	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-Sized CPU Card	x 1
-	Warranty Card	x 1
-	Startup manual	x 1
-	Utility CD	x 1

## 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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