



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

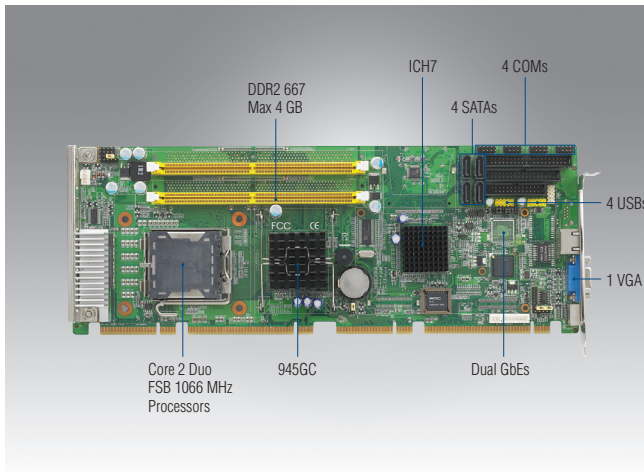
Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



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

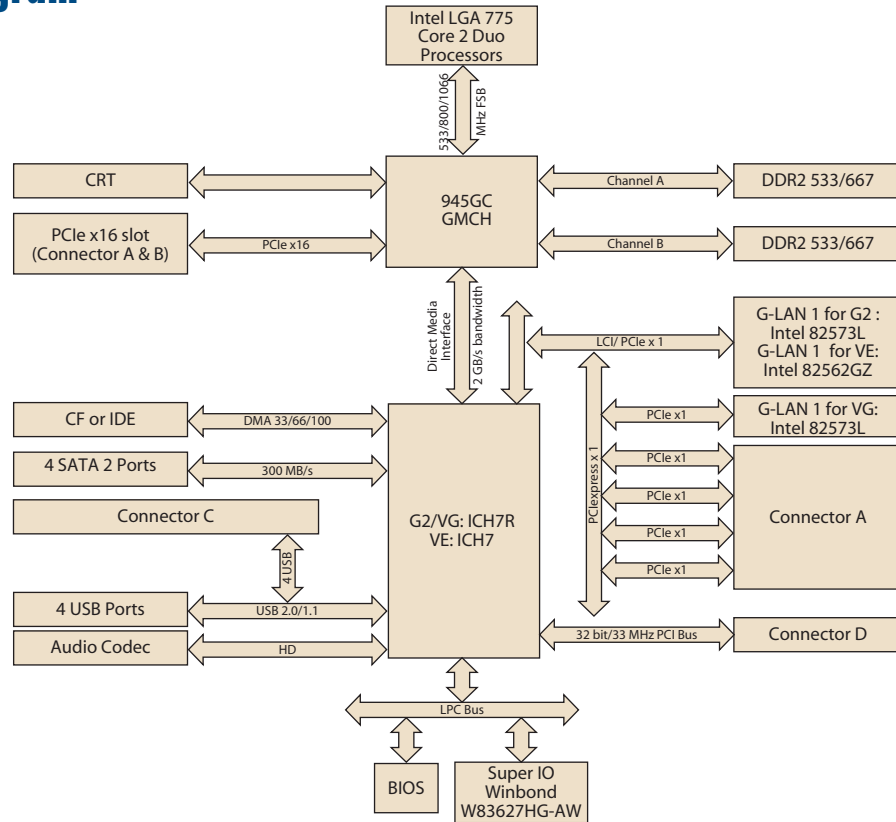
Note: Purchasing PCE-5020's proprietary CPU cooler from Advantech is a must. Other brands' CPU coolers are NOT compatible with PCE-5020.



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				
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	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)

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