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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

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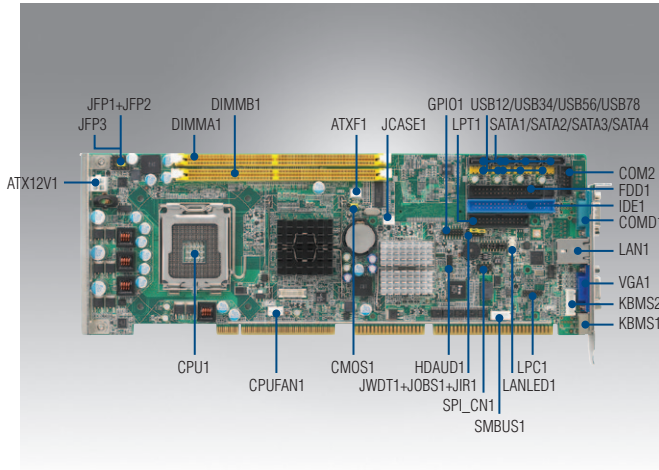
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# PCA-6010

LGA775 Intel® Core™2 Duo SBC  
with Dual GbE and DVI



## Features

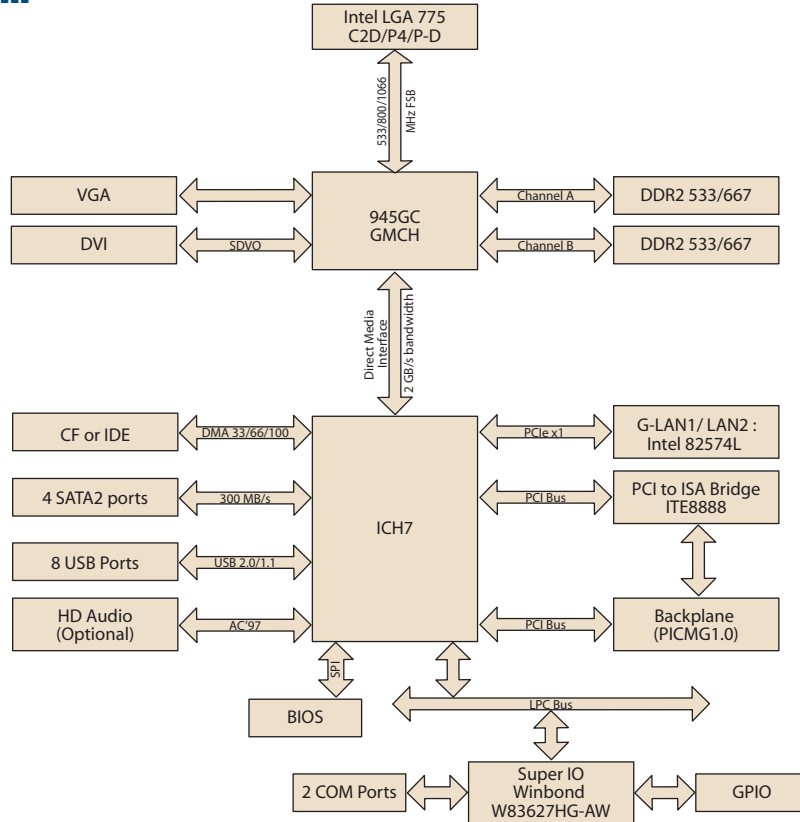
- Compliant with PICMG 1.0
- Supports LGA 775 Intel® Core™2 Duo FSB 1066 MHz processors
- Supports dual channel DDR2 667 SDRAM up to 4 GB
- Dual GbE LAN via PCIe x1 lane
- 2 COM ports, 4 SATA ports, 8 USB ports
- Supports CF socket and DVI interface for G2 sku



## Specifications

Processor System	CPU	Core 2 Duo	Pentium	Intel Celeron 440	Pentium 4	Celeron D
	Max Speed	3.06 GHz	3.06 GHz	2 GHz	3.4 GHz	3.6 GHz
	L2 Cache	4 M	2 M	512 KB	2 M	512 KB
	Chipset	Intel 945GC + ICH7				
	BIOS	Award 8 MB SPI Flash				
	Front Side Bus	533/800/1066 MHz				
Bus	PCI	32-bit/33 MHz PCI				
	ISA	HISA (ISA High Drive)				
Memory	Technology	Dual-channel DDR2 533/667 MHz DIMMs				
	Max. Cap.	4 GB				
	Socket	240-pin DIMM x 2				
Graphics	Integrated	Intel Graphics Media Accelerator 950				
	VRAM	Shared with 224 MB system memory				
	Video Output	15 Pin D-sub Connector x1/DVI connector x1 (only for G2 sku)				
Ethernet	Interface	10/100/1000 Mbps				
	Controller	Intel 82574L				
	Connector	RJ45 with LED Connector x 2				
SATA	Bandwidth	300 MB/s				
	Channel	4 ports				
EIDE	Mode	ATA 100/66/33				
	Channel	1 (Supports up to 2 IDE devices ; Master device is alternative for CF socket in G2 sku)				
I/O Interface	USB 2.0	8 ports by pin header (VG sku); 6 ports by pin header/ 1 port on bracket I/O (G2 sku)				
	Serial	2 RS-232				
	Parallel	1 (EPP/ECP/SPP)				
	FDD	1				
	PS/2	1 (for mouse and keyboard, a 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	Configuration 1: Core 2 Duo E4300 (1.8G, 65W) + DDRII 667 2G x 2				
	Voltage	+12 V	+5 V	+3.3 V	+5 VSB	-12 V -5 V
	Current	3.82 A	5 A	0 A	0.24 A	0 A 0 A
	CPU	Configuration 2: Pentium4 670 (3.8G, 115W) + DDRII 667 2G x 2				
	Voltage	+12 V	+5 V	+3.3 V	+5 VSB	-12 V -5 V
	Current	12.59 A	5.81 A	0 A	0.24 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 mm (L) x 122 mm (W) (13.3" x 4.8")				

## Board Diagram



## Ordering Information

Part Number	LAN	VGA	COM	SATA	USB	DVI	CF
PCA-6010G2-00A2E	Dual GbE	Yes	2	4	7	Yes	Yes
PCA-6010VG-00A1E	Single GbE	Yes	2	4	8	-	-

## Optional Accessories

Part Number	Description
1750000332	LGA 775 CPU cooler for 115 W TDP CPUs
PCA-AUDIO-HDA1E	Audio extension module
1701090401	Single COM cable kit
1700008822-11	DVI cable (Only needed when choosing G2 sku)

## Packing List

Part Number	Description	Quantity
1700340640	FDD cable	x 1
1701400452	IDE HDD cable	x 1
1700003194	Serial ATA HDD data cable	x 2
1700022749-11	Serial ATA HDD power cable	x 2
170304015K	ATX 12 V power converter cable	x 1
1701260305	Printer + COM cable	x 1
1700060202	Y-cable for PS/2 mouse & keyboard	x 1
1700008461-11	USB cable with 4 ports	x 1
9689000068	Jumper pack	x 1
2002721020	User note for full-size CPU card	x 1
-	User Note for LGA775 CPU	x 1
-	Warranty card	x 1
-	Startup manual	x 1
-	Utility CD	x 1

## Bracket View



PCA-6010G2-00A2E



PCA-6010VG-00A1E