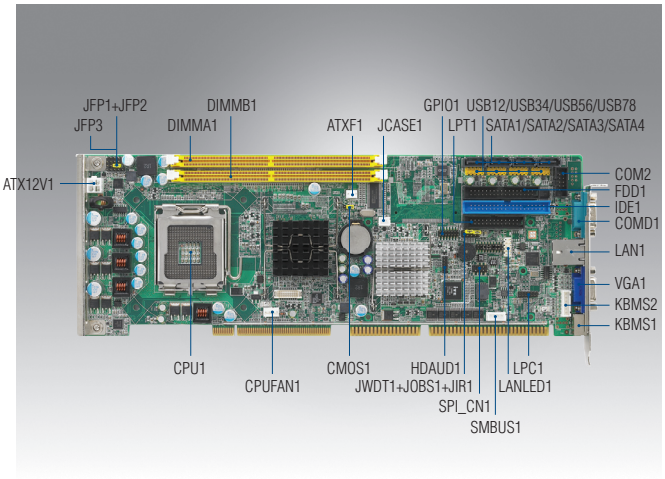
PCA-6010

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



Features

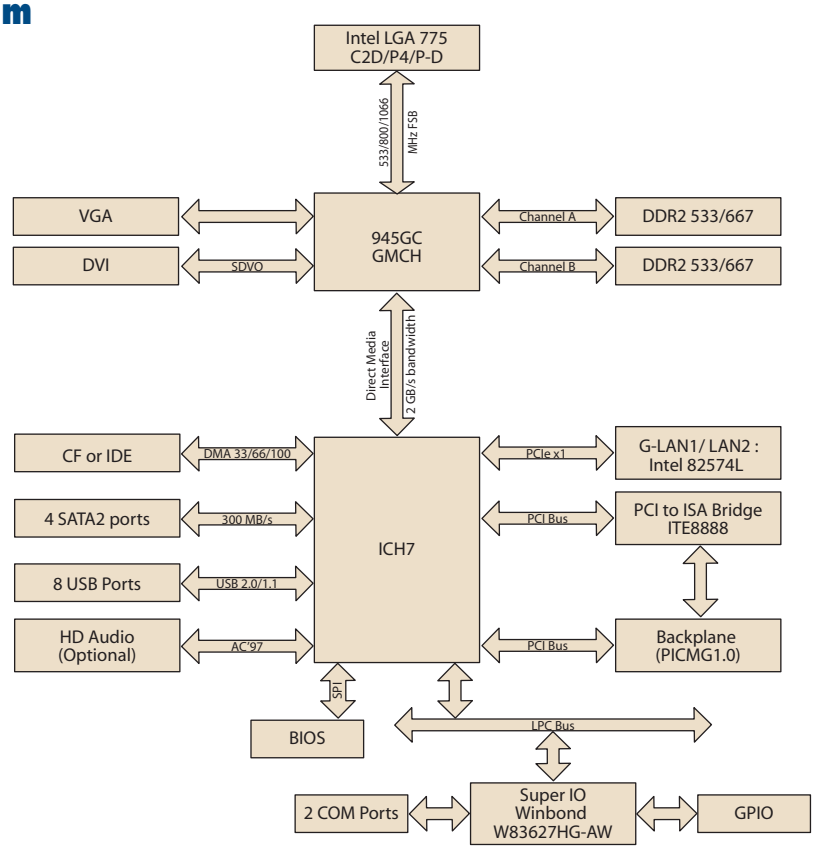
- Compliant with PICMG 1.0
- Supports LGA 775 Intel® Core™2 Duo FSB 1066 MHz processors
- Supports dual channel DDR2 667 SDRAM up to 4 GB
- Dual GbE LAN via PCIe x1 lane
- 2 COM ports, 4 SATA ports, 8 USB ports
- Supports CF socket and DVI interface for G2 sku

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		Operating			Non-Operating (Storage)		
	Temperature	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")					

All product specifications are subject to change without notice

Board Diagram



Ordering Information

Part Number	LAN	VGA	COM	SATA	USB	DVI	CF
PCA-6010G2-00A1E	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	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
1703150102	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	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-6010G2-00A1E

PCA-6010VG-00A1E

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