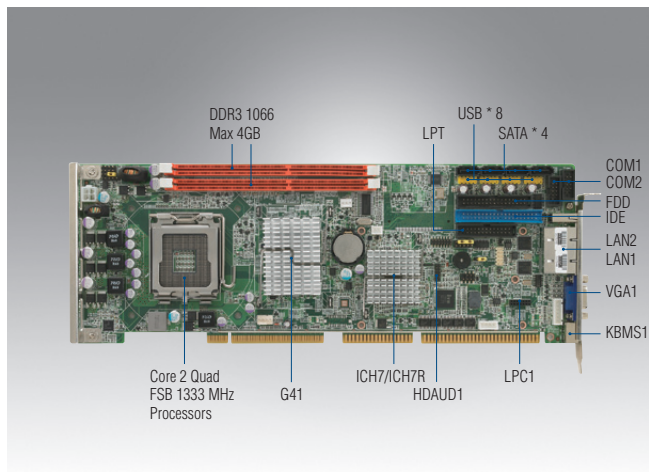


# PCA-6011

## LGA775 Intel® Core™2 Quad SBC with VGA/Dual GbE LAN



### Features

- Compliant with PICMG 1.0
- Supports LGA 775 Intel® Core™2 Quad FSB 1333 MHz processors
- Supports Dual Channel DDR3 1066 SDRAM up to 4 GB
- Dual GbE LAN via two PCIe x1 lane
- 2 COM ports, 4 SATA ports, 8 USB ports

#### Software APIs:



Watchdog H/W Monitor GPIO

#### Utilities:



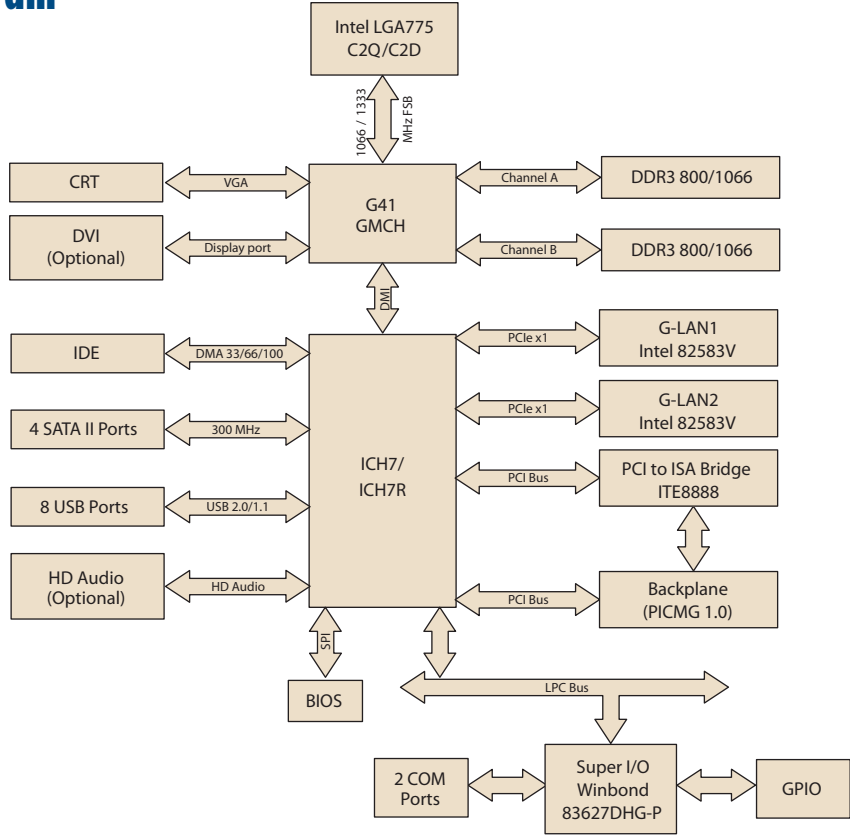
Monitoring Embedded Security ID eSOS (Requires BIOS customization)



### Specifications

Processor System	CPU (45nm/65nm)	Intel Core 2 Quad	Intel Core 2 Duo	Intel Pentium	Intel Celeron	
	Max Speed	Q9650 3.0 GHz	E8500 3.16 GHz	E6500 2.93 GHz	E1500 2.2 GHz	
	L2 Cache	12 MB	6 M	8 M	512 KB	
	Chipset	Intel G41 + ICH7/ICH7R (only for G2 SKU)				
	BIOS	AMI 16 Mb SPI Flash				
	FSB	800/1066/1333 MHz				
Bus	PCI	32 bit/33 MHz PCI				
	ISA	HISA (ISA High Driver)				
Memory	Technology	Dual-channel DDR3 800/1066 MHz DIMMs				
	Max. Cap.	4 GB				
	Socket	240-pin DIMM x 2				
Graphics	Controller	Intel Graphics Media Accelerator X4500				
	VRAM	Shared with system memory up to 352 MB				
	Video Output	15-Pin VGA D-sub Connector x1/DVI connector x1 (optional)				
Ethernet	Interface	10/100/1000 Mbps				
	Controller	Intel 82583 V				
	Connector	RJ-45 with LED Connector x 2 (G2 SKU), x1 (VG SKU)				
SATA	Bandwidth	300 MB/s				
	Channel	4 ports				
	RAID	0, 1, 5, 10 (only for G2 SKU)				
EIDE	Mode	ATA 100/66/33				
	Channel	1 (Supports up to 2 IDE devices; Master device is alternative for CF socket)				
	CF	(Optional)				
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 on board pin-headers, plus for ports of RS-485 with auto-flow control by module (optional, Advantech P/N: PCA-COM485-00A1E)				
	Parallel	1 (EPP/ECP/SPP)				
	FDD	1				
	PS/2	1 (for mouse and keyboard, Y cable is included in the package)				
Watchdog Timer	Output	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 Quad Q9400 (3.0 G, 95 W) + DDR3 1066 2 G x2					
	Voltage	+12 V	+5 V	+3.3 V	+5 VSB	-12 V -5 V
	Current	5.14 A	4.04 A	0 A	0.17 A	0 A
	CPU Configuration 2: Core2 Duo E8400 (3.0G, 65W) + DDR3 1066 2 GB x2					
	Voltage	+12 V	+5 V	+3.3 V	+5 VSB	-12 V -5 V
	Current	3.63 A	3.4 A	0 A	0.15 A	0 A
Environment	Operating	Non-Operating				
	Temperature	0 ~ 60° C (32 ~ 140° F), (operating humidity: 40° C @ 85% RH Non-Condensing) and 60° C @ 95% RH Non-Condensing				
Physical	Dimensions	338 mm (L) x 122 mm (W) (13.3" x 4.8")				

### Block Diagram



### Ordering Information

Part Number	LAN	VGA	COM	SATA	S/W RAID	USB	DVI	CF
PCA-6011VG-00A1E	Single GbE	Yes	2	4	-	8	No (Optional)	No (Optional)
PCA-6011G2-00A1E	Dual GbE	Yes	2	4	Yes	7	No (Optional)	No (Optional)

### 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 Kitt
PCA-COM485-00A1E	4 x 422/485 COM module

### Packing List

Part Number	Description	Quantity
1701400452	IDE HDD cable	x 1
1700008461	USB cable with 4 ports	x 1
1703150102	Serial ATA HDD power cable	x 2
1700003194	Serial ATA HDD data cable	x 2
1700060202	Y-cable for PS/2 mouse & keyboard	x 1
1701260305	Printer + COM cable	x 1
9689000068	Jumper pack	x 1
-	Warranty card	x 1
-	Startup manual	x 1
-	Utility CD	x 1

### Bracket View



PCA-6011G2-00A1E



PCA-6011VG-00A1E