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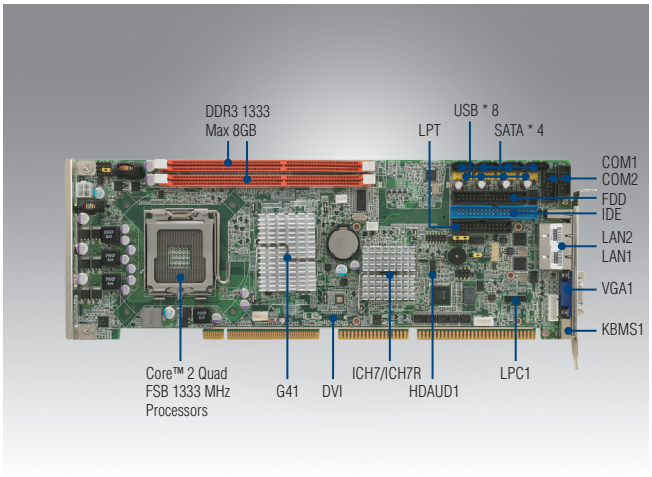
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# PCA-6011

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




## Features

- Compliant with PICMG 1.0
- Supports LGA 775 Intel® Core™2 Quad FSB 1333 MHz processors
- Supports Dual Channel DDR3 1333 SDRAM up to 8 GB
- Dual GbE LAN via two PCIe x1 lane
- 2 COM ports, 4 SATA ports, 8 USB ports
- Dual display with VGA and DVI-D (G2 only)

Quiet

CE FCC

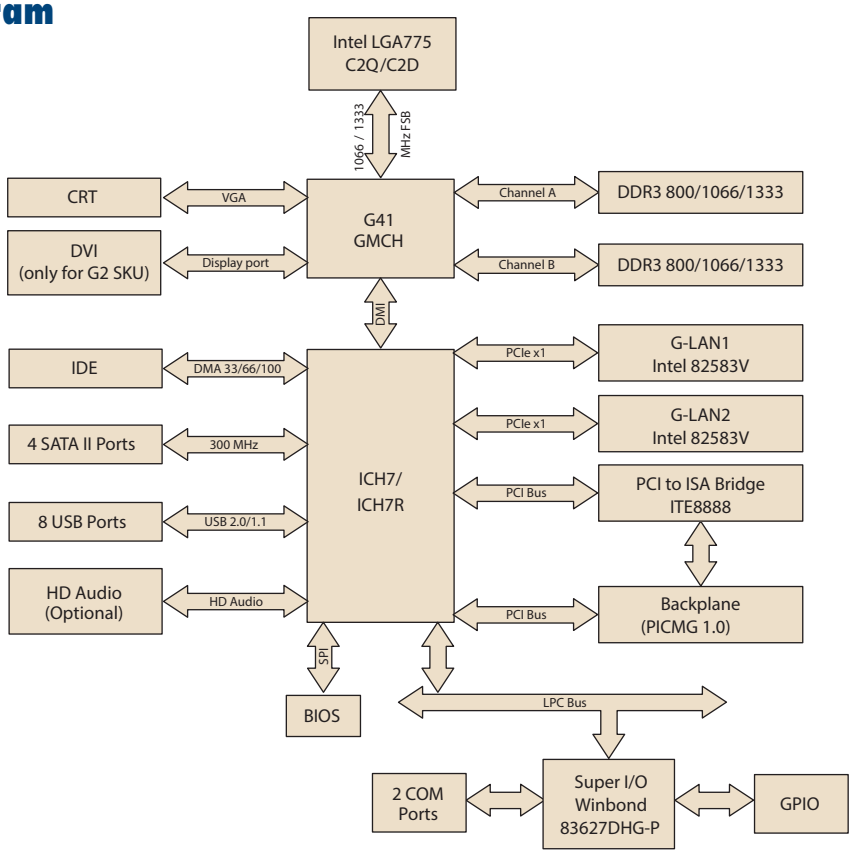
## Specifications

| | | | | | | |
|---|---|---|---|---|---|---|
| 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 800/1066/1333 DIMMs | | | | |
| | Max. Cap. | 8 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 (only for G2 SKU) | | | | |
| 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 | | | | |
| Miscellaneous | Audio Output | Intel High Definition audio interface (requires an audio extension module P/N: PCA-AUDIO-HDA1E) | | | | |
| Power Requirement | CPU | Configuration1: 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 |
| | Curent | 5.14 A | 4.04 A | 0 A | 0.17 A | 0 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 |
| | Curent | 3.63 A | 3.4 A | 0 A | 0.15 A | 0 A | 0 A |
| Environment | | Operating | | | Non-Operating | | |
| | Temperature | 0 ~ 60 °C (32 ~ 140 °F) (operating humidity: 40 °C @ 85% RH Non-Condensing) | | | -40 °C ~ 85 °C and 60 °C @ 95% RH Non-Condensing | | |
| Physical | Dimensions (L x H) | 338 x 122 mm (13.3" x 4.8") | | | | | |



All product specifications are subject to change without notice.

## 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 | Yes | No (Optional) |

## Packing List

| Part Number | Description | Quantity |
|---|---|---|
| 1701400452 | IDE HDD cable | x 1 |
| 1700008461-11 | USB cable with 4 ports | x 1 |
| 1700022749 | Serial ATA HDD power cable | x 1 |
| 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 |
| 2190000902 | Warranty card | x 1 |
| 2002601110 | Startup manual | x 1 |
| 2062601100 | Utility CD | x 1 |

## 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 |
| PCA-COM485-00A1E | 4 x 422/485 COM module |
| 1700008822-11 | DVI-D cable |

## I/O View



PCA-6011G2-00A1E



PCA-6011VG-00A1E

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