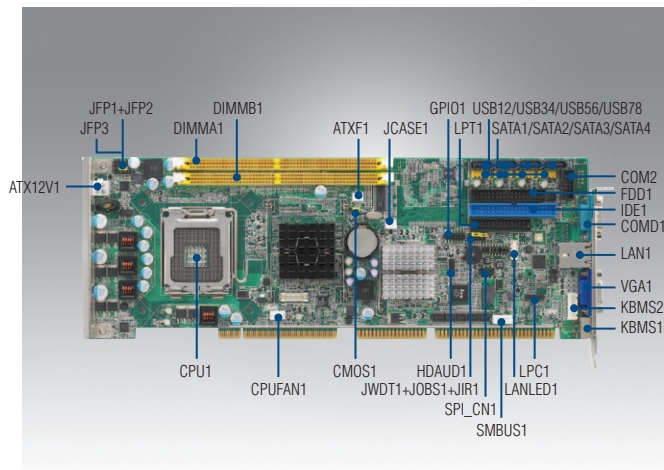


# PCA-6010

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



## Features

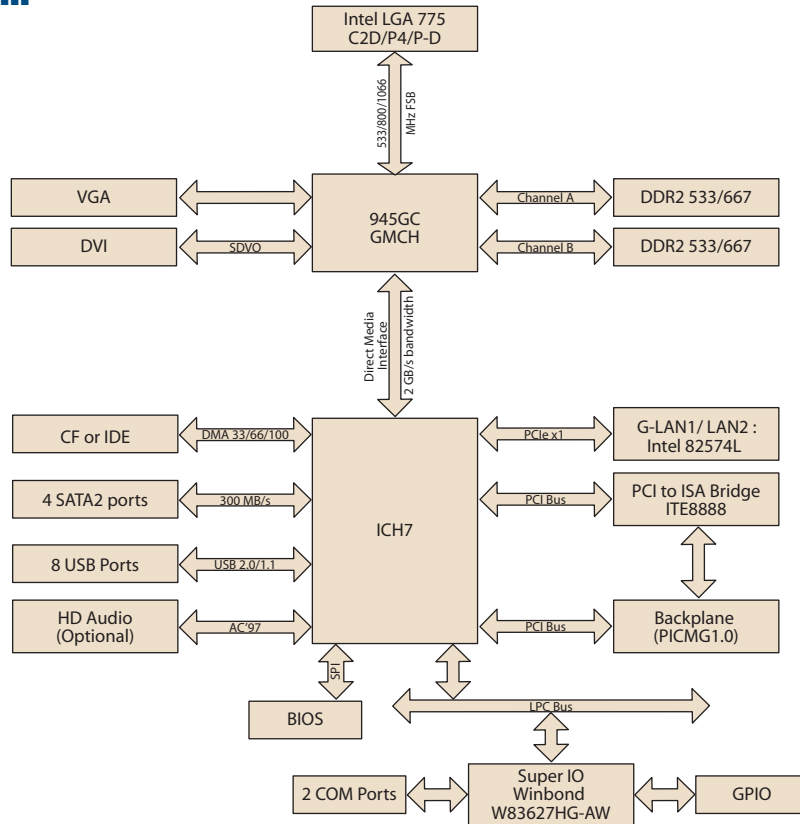
- Compliant with PICMG 1.0
- Supports LGA 775 Intel® Core™2 Duo FSB 1066 MHz processors
- Supports dual channel DDR2 667 SDRAM up to 4 GB
- Dual GbE LAN via PCIe x1 lane
- 2 COM ports, 4 SATA ports, 8 USB ports
- Supports CF socket and DVI interface for G2 sku



## 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