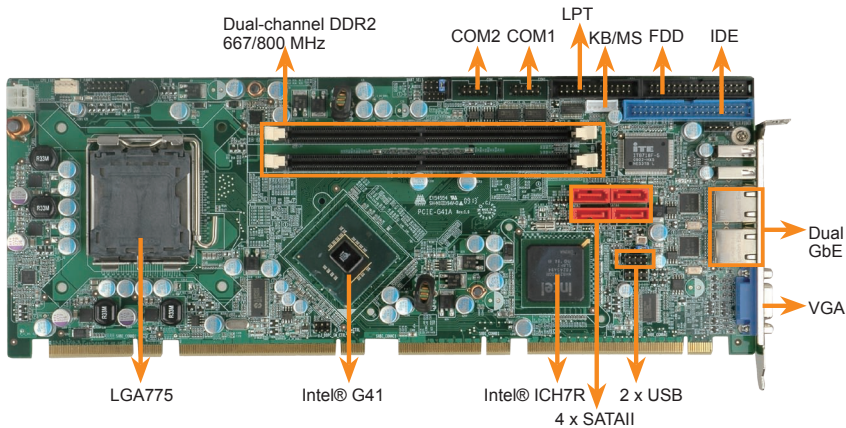


# PCIE-G41A

Full-size PICMG 1.3 CPU card supports LGA775 Intel® Core™2 Quad processor with VGA, Dual PCIe GbE, SATAII, COM and USB 2.0, RoHS



Support Quad Core CPU  
SATA RAID



| Model Name      | PCIE-G41A   | PCIE-Q350-R11  |
|-----------------|---|--|
| CPU Socket      | LGA 775   |  |
| CPU Type        | Intel® Core™2 Quad/Duo                                    |  |
| FSB             | 800/1066/1333MHz  |  |
| Chipset         | Intel® G41 + ICH7R  | Intel® Q35 + ICH9DO  |
| Memory          | 2 x 240-pin, Max.8GB, 667/800 MHz dual-channel DDR2 DIMMs | 4 x 240-pin, Max.8GB, 667/800 MHz dual-channel DDR2 DIMMs  |
| Ethernet        | Dual Realtek PCIe RTL8111CP GbE controller                | Dual Intel® GbE controllers LAN : Intel® 82566DM controllers LAN2: Intel® 82573L GbE controllers |
| iAMT support    | No  | Yes  |
| TPM support     | No  | Yes  |
| IDE             | Yes   | No   |
| USB2.0          | 8   | 12   |
| Drive Interface | 4 x SATA II (RAID 0/1/10/5)                               | 6 x SATA II (RAID 0/1/10/5)  |
| Digital I/O     | 8-bit Digital I/O (4-bit input / 4-bit output)            | 16-bit Digital I/O (8-bit input / 8-bit output)  |

## Specifications

- ◆ CPU  
LGA 775 Intel® Core™ 2 Extreme/Quad/Duo, Celeron with a 1333/1066/800MHz FSB support
- ◆ System Chipset  
Intel® G41+ ICH7R
- ◆ BIOS  
AMI Flash BIOS
- ◆ System Memory  
2 x 240-pin dual-channel DDR2 800/667 MHz up to 8GB
- ◆ Ethernet  
Dual PCIe Realtek RTL8111CP GbE controller
- ◆ I/O Interface  
1 x FDD  
2 x RS-232  
1 x IDE  
8 x USB2.0  
(2 on bracket, 2 on board by pin-header, 4 to backplane via Golden Finger)  
4 x SATAII with Intel RAID 0,1,5 and 10  
1 x LPT  
1 x 6 pin header for KB/MS
- ◆ Digital I/O  
8-bit digital I/O, 4 input/ 4 output
- ◆ Infrared Interface  
1 x Infrared by 5-pin pin header
- ◆ Super I/O  
ITE IT8718F
- ◆ Graphic  
Intel® Graphics Media Accelerator X4500 (Intel® GMA X4500)
- ◆ Display Interface  
Analog CRT  
VGA display output resolution up to 2048 x 1536
- ◆ Audio  
5.1 channel audio kit with Realtek ALC655 AC'97 codec  
7.1 channel HD audio kit with Realtek ALC883 codec supports dual audio streams
- ◆ Watchdog Timer  
Software programmable supports 1 ~255 sec. System reset
- ◆ Power Supply  
ATX Power
- ◆ Power consumption  
3.3V@0.3A, 5V@6.71A, 12V@0.27A, Vcore\_12V@1.91A (Intel® Core™2 Duo E8500 3.16GHz 1333MHz FSB CPU with 2\*2GB DDR2 800MHz)
- ◆ Temperature  
operation: 0°C~ 60°C ( 32°F~ 140°F)
- ◆ Humidity  
operation: 5% ~95 non-condensing
- ◆ Dimensions  
338 mm x 126 mm
- ◆ Weight  
GW: 1.1kg

FSB 1333

Dual DDR2  
800Intel® Matrix  
Storage Manager

## Features

1. PICMG 1.3 form factor
2. LGA775 Intel® Core™2 Extreme/Quad/Duo and Celeron processor supports up to 1333MHz FSB
3. Dual channel DDR2 800/667 MHz supports up to 8GB
4. High performance PCI-Express Gigabit Ethernet controller
5. 4 x SATAII with Intel® Matrix Storage Manager supported

## Packing List

- 1 x PCIE-G41A single board computer
- 1 x Mini jumper pack
- 4 x SATA cable (P/N: 32000-062800-RS)
- 1 x Dual RS-232 cable (P/N: 19800-000051-RS)
- 1 x USB cable (P/N: CB-USB02-RS)
- 1 x Utility CD
- 1 x QIG

## Ordering Information

| Part No.            | Description  |
|---------------------|--|
| PCIE-G41A-R10       | Full-size PICMG 1.3 CPU card supports LGA775 Intel® Core™2 Quad processor with VGA, Dual PCIe GbE, SATAII, COM and USB 2.0, RoHS |
| AC-KIT-883HD-R10    | 7.1 channel HD Audio Kit with Realtek ALC883 support dual audio streams  |
| AC-KIT08R-R10       | 5.1 channel AC'97 audio kit with Realtek ALC655  |
| 19800-000075-RS     | PS/2 KB/MS cable with bracket  |
| CF-520-RS-R11       | CPU cooler   |
| CF-775A-RS          | CPU cooler   |
| 32100-088600-RS     |  |
| 32102-000100-100-RS | SATA power cable   |
| 32102-000100-200-RS |  |
| 32200-000017-RS     | FDD cable  |
| 19800-000049-RS     | LPT cable with Bracket   |
| 32200-000052-RS     | ATA66 IDE flat cable   |

1

Industrial  
Computing  
Solutions

2

Embedded  
Computing  
Solutions

3

RISC-Based  
Embedded  
Solutions

4

Industrial  
Data  
Collector/  
Server  
Solutions

5

Video  
Capture  
Solutions

6

I/O  
Communication  
Solutions

7

Panel  
Solutions

8

Power Supply/  
Network  
Communication/  
Peripherals