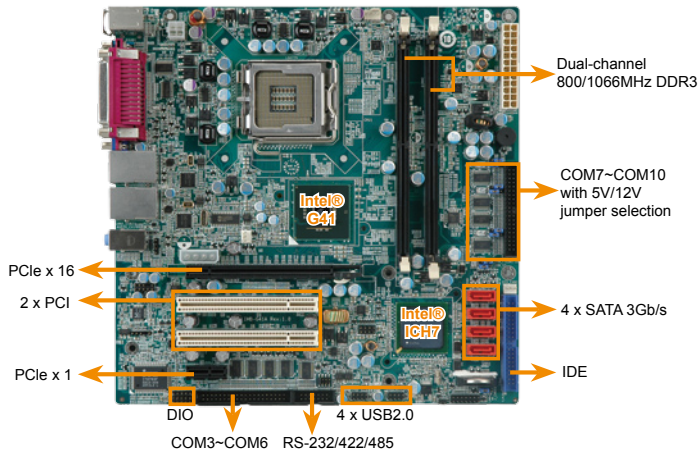
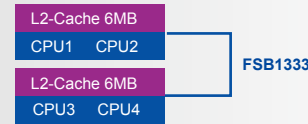


IMB-G41A

Micro ATX Motherboard supports 45nm LGA775 Intel® Core™2 Quad CPU with a 1333/1066/800MHz FSB, PCIe x16, PCIe x1, Two PCI, Ten COM, Dual PCIe GbE, SATA 3Gb/s and Audio



Intel® Core™2 Quad with a total of 12 MB L2 cache. Four processing units are packed inside a single CPU package.



Chipset and Processor Compatibility Matrix

Process	Chipset Compatibility Matrix	Processor Code name	Intel®	Intel®	Intel®
			945G	Q965	G41
45nm	Core™2 Extreme QX9650	Yorkfield			v
	Core™2 Quad Q9650	Yorkfield			v
65nm	Core™2 Extreme QX6700	Kentsfield		v	v
	Core™2 Quad Q6600	Kentsfield		v	v
65nm	Core™2 Duo E6xxx & E4xxx	Conroe	v	v	v
65nm	Pentium® 4 Processor 6x1	Cedar Mill	v	v	
65nm	Pentium® 4 Processor 5x1	Prescott	v		
65nm	Conroe-L Single Core Processor	Conroe	v	v	v
65nm	Celeron D Processor 352	Cedar Mill	v	v	

1 Industrial Computing Solutions

2 Embedded Computing Solutions

3 Industrial Data Collector and Controller

4 Video Capture Solutions

5 I/O Communication Solutions

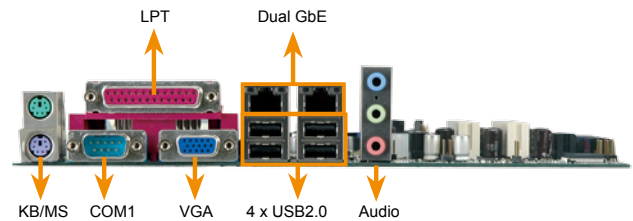
6 Panel Solutions

7 ORing Network Communication

8 Power Supply/Peripherals

Specifications

- ◆ CPU
LGA775 socket supports the Intel® Core™2 Duo and Intel® Core™2 Quad processors and Intel® Celeron® processor
- ◆ FSB
800/1066/1333MHz
- ◆ System Chipset
Intel® G41+ICH7
- ◆ Memory
Two 240-pin 2GB (max.) 800/1066MHz dual-channel DDR3 SDRAM DIMM supported (system max. 4GB)
- ◆ BIOS
AMI BIOS
- ◆ Ethernet
Dual Realtek RTL8111CP PCIe GbE Controllers
- ◆ Graphic Engine
Intel® GMA4500
Integrated Graphic Enhanced 5th Generation Core Supports DirectX 10 / OpenGL 1.5
- ◆ Display Output
One VGA supports analog CRT up to 2048x 1536 @ 75MHz
- ◆ Super I/O
ITE IT8783F
- ◆ Audio
Realtek ALC888 HD Audio Codec
- ◆ I/O interface
9 x RS-232 (COM7~COM10 with 5V/12V jumper selection)
1 x RS-232/422/485
8 x USB 2.0
1 x IDE
1 x LPT
4 x SATA 3Gb/s
2 x PS/2 for KB/MS
- ◆ Infrared Interface
1 x Infrared connector by 5-pin header
- ◆ Extension
1 x PCIe x16 Slot
1 x PCIe x1 Slot
2 x PCI Slot
- ◆ Watchdog Timer
Software Programmable support 1~255 sec. System reset
- ◆ Digital I/O
8-bit Digital I/O (4-bit input, 4-bit output)
- ◆ Fan connector
1 x 4-pin CPU fan connector
1 x 3-pin northbridge fan connector
1 x 3-pin system fan connector
- ◆ Power Supply
ATX Power
- ◆ Power Consumption
5V@7.42A, 3.3V@0.15A, 12V@0.27A
Vcore@3.03A 3.16GHz Intel® Core™ 2 Duo E8500 and 4GB 1066MHz DDR3
- ◆ Operating Temperature
0°C ~ 60°C (32°F ~ 140°F)
- ◆ Operating Humidity
5% ~95%, non-condensing
- ◆ Dimensions
244mm x 244mm
- ◆ Weight
GW: 1200g, NW: 700g



Features

- Support for the next-generation 45nm Intel® Core™2 processor family with faster system performance
- Intel® GMA 4500 delivers an excellent blend of graphics performance
- Integrated VGA and PCIe x16 interface for dual display
- Diverse I/O interfaces, including ten COM ports, four SATA 3Gb/s ports and a HD Audio connector
- Two 240-pin 2GB (max.) 800/1066MHz dual-channel DDR3 SDRAM DIMM supported (system max. 4GB)
- IEI One Key Recovery solution allows you to create rapid OS backup and recovery

Packing List

1 x IMB-G41A Single Board Computer	
2 x Quad ports RS-232 cable without bracket (P/N:32200-025400-RS)	
1 x I/O shielding (P/N: 45014-0017C0-00-RS)	
4 x SATA cable (P/N: 32000-062800-RS)	1 x Mini jumper pack
1 x Utility CD	1 x QIG

Ordering Information

Part No.	Description
IMB-G41A-R10	Micro ATX Motherboard supports 45nm LGA775 Intel® Core™2 Quad CPU with a 1333/1066/800MHz FSB, PCIe x16, PCIe x1, 2 PCI, 10 COM, Dual PCIe GbE, SATAII and Audio
CB-USB02-RS	Dual-port USB cable with bracket
32102-000100-100-RS	SATA power cable
32102-000100-200-RS	SATA power cable
32200-000063-RS	RS-232/422/485 cable
32200-000052-RS	ATA66 IDE flat cable
CF-775A-RS	CPU cooler for 130W
CF-520-RS-R11	CPU cooler for 115W
SDVO-100VGA-R10	PCIe x16 VGA Output SDVO card supports dual display (IEI CPU board only)
SDVO-100DVI-R10	PCIe x16 DVI Output SDVO card supports dual display (IEI CPU board only)