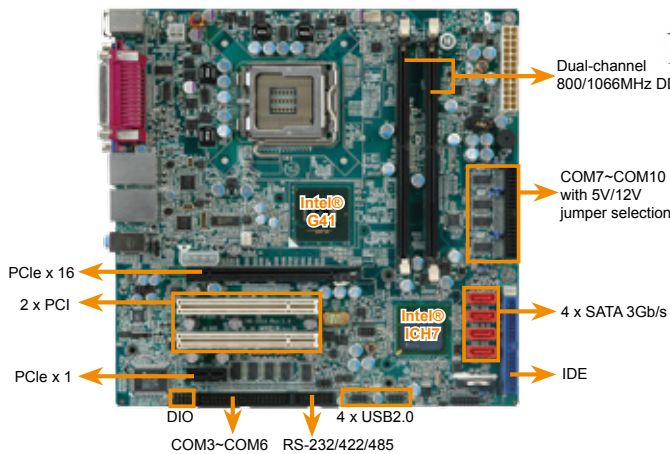


IMB-G41A

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



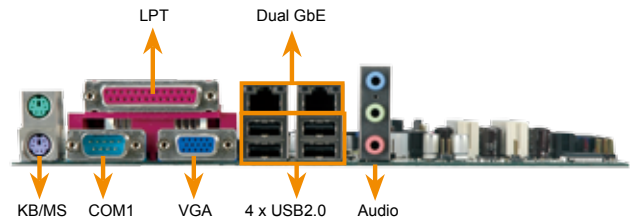
DDR3 and 10 COM port support

LGA775 Embedded CPU List for G41

Brand Name	CPU Code	CPU No.	Clock speed	FSB	L2 cache	TDP	Chipset		
							945G	Q965	G41
Core 2 Quad	Yorkfield	Q9400	2.66G	1333	6M	95W			v
		E8400	3.0G	1066	6M	65W			v
Core 2 Duo	Wolf dale	E7400	2.8G		3M	65W			v
		E6500	2.93G	1066	2M	65W			v
Pentium D Dual Core	Wolfdale	E5300	2.6G	800	2M	65W			v
		E6400	2.13G	1066	2M	65W	v	v	v
Core 2 Duo	Conroe	E4300	1.8G	800	2M	65W	v	v	v
		E2160	1.8G	800	1M	65W	v	v	v
Pentium D Dual Core	Conroe	E3400	2.4G	800	512K	65W		v	v
Dual Core	Conroe	E1500	2.2G		512K	65W	v	v	v
		Conroe L	440	2.00G	800	512K	35W	v	v

Specifications

- ◆ CPU
LGA775 socket supports the Intel® Core™2 Quad/ Duo and Celeron® processor, FSB up to 1333MHz
- ◆ 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
-10°C ~ 60°C
- ◆ Operating Humidity
5% ~95%, non-condensing
- ◆ Dimensions
244mm x 244mm
- ◆ Weight
GW: 1200g, NW: 700g



FSB 1333

DDR3 1066

10 COM



Features

1. Support for the next-generation 45nm Intel® Core™2 processor family with faster system performance
2. Intel® GMA 4500 delivers an excellent blend of graphics performance
3. Integrated VGA and PCIe x16 interface for dual display
4. Diverse I/O interfaces, including ten COM ports, four SATA 3Gb/s ports and a HD Audio connector
5. Two 240-pin 2GB (max.) 800/1066MHz dual-channel DDR3 SDRAM DIMM supported (system max. 4GB)
6. 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	
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)