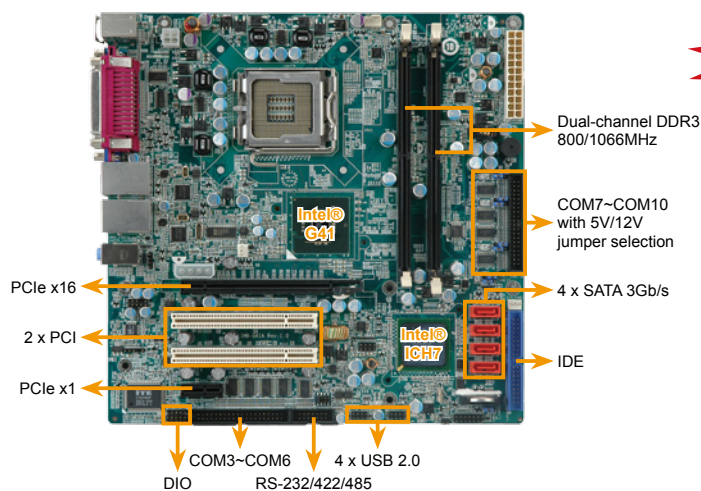


IMB-G41A

Micro ATX motherboard supports 45nm LGA775 Intel® Core™2 Quad CPU with a 1333/1066/800MHz FSB, PCIe x16, PCIe x1, two PCI, 10 COM, dual PCIe GbE, SATA 3Gb/s, audio and RoHS



DDR3 and 10 COM ports support

LGA775 Embedded CPU List for G41

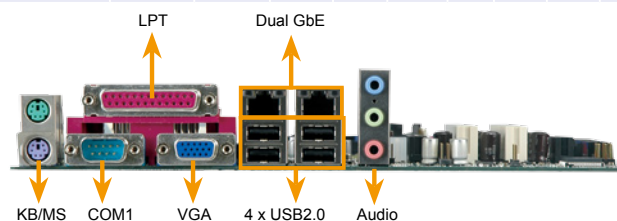
Brand Name	CPU Code	CPU No.	Clock Speed	FSB	L2 Cache	TDP	Chipset		
							945G	Q965	G41
Core™2 Quad	Yorkfield 45nm	Q9400	2.66G	1333	6M	95W			v
Core™2 Duo	Wolf dale 45nm	E8400	3.0G	1066	6M	65W			v
		E7400	2.8G		3M	65W			v
Pentium® D Dual Core	Wolfdale 45nm	E6500	2.93G	1066	2M	65W			v
		E5300	2.6G	800	2M	65W			v
Core™2 Duo	Conroe	E6400	2.13G	1066	2M	65W	v	v	v
		E4300	1.8G	800	2M	65W	v	v	v
Pentium® D Dual Core	Conroe	E2160	1.8G	800	1M	65W	v	v	v
Celeron® Dual Core	Conroe 45nm	E3400	2.4G	800	512K	65W		v	v
		E1500	2.2G		512K	65W	v	v	v
Celeron®	Conroe L	440	2.00G	800	512K	35W	v	v	v

Specifications



- ◆ CPU
LGA775 45nm Intel® Core™2 Quad, Core™2 Duo, Pentium® D, Celeron® at FSB 800/1066/1333MHz processors
- ◆ System Chipset
Intel® G41+ICH7
- ◆ Memory
Two 240-pin 4GB (max.) 800/1066MHz dual-channel DDR3 SDRAM DIMM supported (System max. 8GB)
- ◆ BIOS
AMI BIOS
- ◆ Ethernet
Dual Realtek RTL8111CP PCIe GbE controllers
- ◆ Display Interface
Intel® GMA X4500
Supports DirectX 10 / OpenGL 1.5
One VGA supports analog CRT up to 2048x1536 @ 75MHz
- ◆ Super I/O
ITE IT8783F
- ◆ Audio
Realtek ALC888 HD Audio codec
- ◆ I/O Interface

1 x IDE	8 x USB 2.0
1 x LPT	4 x SATA 3Gb/s
2 x PS/2 for KB/MS	1 x RS-232/422/485
9 x RS-232 (COM7~COM10 with 5V/12V jumper selection)	
- ◆ 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
- ◆ Temperature
Operation: -10°C ~ 60°C
- ◆ Humidity
Operation: 5% ~ 95%, non-condensing
- ◆ Dimensions
244mm x 244mm
- ◆ Weight
GW: 1200g / NW: 700g



Features

1. Support for the next-generation 45nm Intel® Core™2 processor family with faster system performance
2. Intel® GMA X4500 delivers an excellent blend of graphics performance
3. Integrated VGA and PCIe x16 SDVO add-on card for dual display
4. Diverse I/O interfaces, including 10 COM ports, four SATA 3Gb/s ports
5. Support dual-channel DDR3 SDRAM DIMM up to 8GB (max.)
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: 32205-001203-100-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, two PCI, ten COM, dual PCIe GbE, SATA 3Gb/s and audio, RoHS
19800-003100-100-RS	Dual-port USB cable with bracket
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
CF-775B-RS	1U CPU cooler for 90W
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)