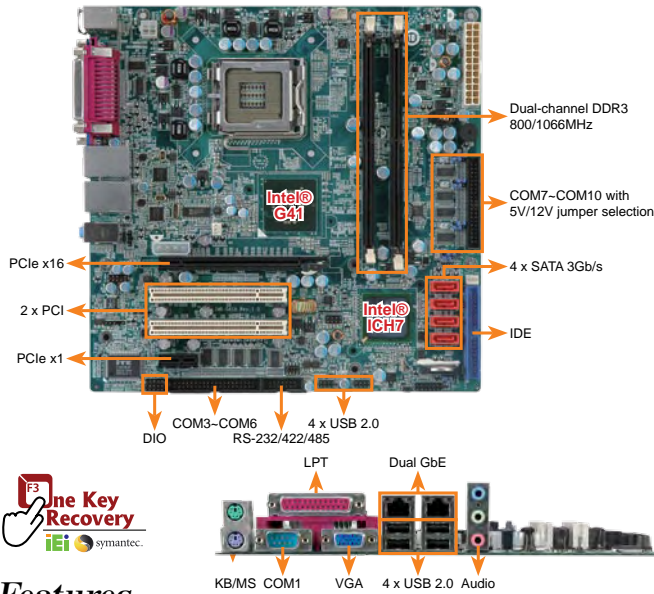


# IMB-G41A

microATX 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



## Features

- Support for the next-generation 45nm Intel® Core™2 processor family with faster system performance
- Intel® GMA X4500 delivers an excellent blend of graphics performance
- Integrated VGA and PCIe x16 SDVO add-on card for dual display
- Diverse I/O interfaces, including 10 COM ports, four SATA 3Gb/s ports
- Support dual-channel DDR3 SDRAM DIMM up to 8GB (max.)
- IEI One Key Recovery solution allows you to create rapid OS backup and recovery

## Specifications

- CPU**  
LGA775 45nm Intel® Core™2 Quad, Core™2 Duo, Pentium® D, Celeron® processor with a 800/1066/1333MHz FSB
- 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 RTL8111PC PCIe GbE controller
- Display Interface**  
Intel® GMA X4500  
Supports DirectX 10/OpenGL 1.5  
One VGA supports analog CRT up to 2048x1536@75MHz
- Super I/O:** ITE IT873F
- 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
- Digital I/O:** 8-bit digital I/O, 4-bit input/4-bit output
- Expansions**
  - 1 x PCIe x16 slot
  - 1 x PCIe x1 slot
  - 2 x PCI slot
- Watchdog Timer**  
Software programmable supports 1~255 sec. system reset
- 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
- Humidity**  
Operating: 5% ~ 95%, non-condensing
- Dimensions:** 244mm x 244mm
- Weight:** GW: 1200g/NW: 700g

## Packing List

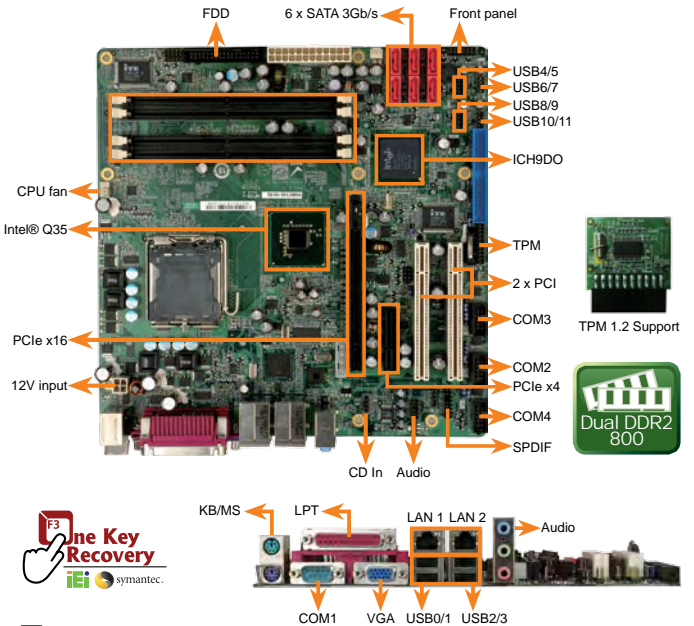
1 x IMB-G41A single board computer	
2 x Quad-port RS-232 cable (P/N: 32205-001203-100-RS)	
1 x I/O shielding (P/N: 45014-0017C0-00-RS)	1 x Mini jumper pack
4 x SATA cable (P/N: 32801-000703-200-RS)	1 x Utility CD
1 x One Key Recovery CD	1 x QIG

## Ordering Information

Part No.	Description
IMB-G41A-R10	microATX 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
19800-003100-200-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)

# IMB-Q354

microATX motherboard supports 45nm LGA775 Intel® Core™2 Duo CPU with a 800/1066/1333 MHz FSB, Intel® Q35 & ICH9DO platform, dual Intel® PCIe GbE, SATA 3Gb/s with RAID functions



## Features

- microATX and RoHS compliant
- Supports LGA775 Intel® Core™2 Duo, Core™2 Duo, 45 nm processor with a 1333/1066/800 MHz FSB
- Intel® Q35 & ICH9DO platform
- Six SATA 3Gb/s with Intel® Matrix Storage Technology supported
- Intel® PCIe GbE with Intel® AMT 3.0 supported
- TPM1.2 IT security solution supported
- IEI One Key Recovery solution allows you to create rapid OS backup and recovery

## Specifications

- CPU**  
LGA775 45nm Intel® Core™2 Duo, Core™2 Duo, Celeron® CPU with a 800/1066/1333 MHz FSB
- System Chipset:** Intel® Q35 + ICH9DO
- BIOS:** AMI BIOS
- System Memory**  
4 x 240-pin 2 GB (max.) 800/667 MHz dual-channel DDR2 SDRAM DIMM (system max. 8 GB)
- Ethernet**  
Dual GbE  
LAN1: Intel® 82573L (MAC + PHY)  
LAN2: Intel® 82566DM (PHY) with Intel® AMT support
- I/O Interface**
  - 4 x RS-232
  - 12 x USB 2.0
  - 1 x LPT
  - 1 x FDD
  - 2 x PS/2 for KB/MS (external)
  - 6 x SATA 3Gb/s with RAID 0, 1, 5, 10 support
- Digital I/O:** 8-bit digital I/O, 4-bit input/4-bit output
- Infrared Interface:** One Infrared Interface by pin header
- Audio:** Realtek ALC883 HD Audio codec
- Graphics:** VGA integrated in Intel® Q35
- Super I/O:** ITE IT8712F
- Expansions**
  - 1 x PCIe x16
  - 1 x PCIe x4
  - 2 x PCI
- TPM1.2**  
1 x 20-pin header on-board for TPM (Trusted Platform Module)
- Watchdog Timer**  
Software programmable supports 1~255 sec. system reset
- Power Supply:** ATX
- Power Consumption**  
3.3V@2.41A, 5V@5.71A, 5Vsb@0.13A, 12V@3.69A (2DMark 2001)  
Intel® Core™2 Duo E6850 3.0GHz, 8GB DDR2 800MHz, 3DMark 2001
- Temperature**  
Operating: 0°C ~ 60°C (32°F~140°F)
- Humidity**  
Operating: 5% ~ 95%, non-condensing
- Dimensions:** 244 mm x 244 mm
- Weight:** GW: 1100 g

## Packing List

1 x IMB-Q354 single board computer	
3 x SATA power cable (P/N: 32102-000100-200-RS)	
1 x Dual RS-232 cable (P/N: 19800-000051-RS)	1 x One Key Recovery CD
1 x I/O shielding (P/N: 45014-0017C0-00-RS)	1 x Mini jumper pack
1 x USB cable (P/N: 19800-003100-200-RS)	1 x Utility CD
6 x SATA cable (P/N: 32801-000703-200-RS)	1 x QIG

## Ordering Information

Part No.	Description
IMB-Q354-R10	microATX motherboard supports 45 nm LGA775 Intel® Core™2 Duo CPU with a 800/1066/1333 MHz FSB, Intel® Q35 & ICH9DO platform, dual Intel® PCIe GbE, six SATA 3Gb/s with RAID functions
CF-520-RS-R11	High performance CPU cooler, (115mm x 115mm x 67mm, 115W)
TPM-IN01-R11	20-pin Infineon TPM module, software management tool, firmware V3.17
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)

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