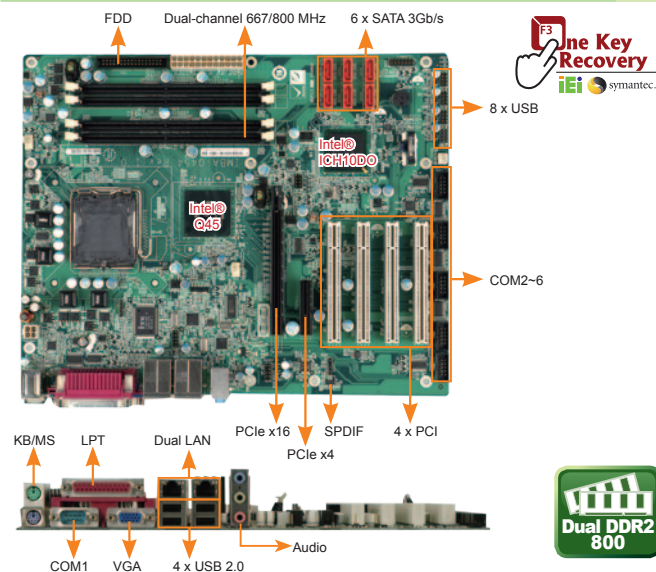


# IMBA-Q454

ATX motherboard supports 45nm LGA775 Intel® Core™2 Duo/Quad with a 1333/1066/800 MHz FSB, dual Intel® GbE, six SATA 3Gb/s with RAID, six COM ports, USB and Audio



## Features

- Designed for Intel® Core™2 Quad/Duo processor Q9000/E8000/E7000 series in the LGA775 with a 1333/1066/800 MHz FSB
- Intel® GbE LAN with Intel® AMT 5.0 supported
- Intel® Q45 chipset integrating high-performance graphics with DX10 and OpenGL 2.1. External graphics card with PCIe 2.0 and 1x16 PEG support
- PCIe x16 expansion slot and VGA output for dual display support
- IEI One Key Recovery solution allows you to create rapid OS backup and recovery

## Specifications

- ◆ CPU: LGA775 45nm Intel® Core™2 Duo/Quad, Celeron® CPU with a 1333/1066/800 MHz FSB
- ◆ System Chipset: Intel® Q45 + Intel® ICH10DO
- ◆ BIOS: AMI BIOS
- ◆ System Memory: Four 240-pin 800/667 MHz dual-channel DDR2 SDRAM DIMMs support up to 16 GB
- ◆ Ethernet Chipset: LAN1: Intel® 8257LM (Intel® AMT 5.0 supported) LAN2: Intel® 82574L
- ◆ IO Interface: 6 x RS-232, 1 x VGA, 1 x LPT, 2 x RJ-45, 12 x USB 2.0, 2 x PS/2 for KB & MS, 1 x Audio jack for line-in, line-out and mic-in
- ◆ Expansion: One PCIe x16, One PCIe x4, Four PCI
- ◆ Graphics Integrated: Intel® GMA 4500 support for Microsoft DirectX® 10, Shader Model 4.0 and OpenGL® 2.0
- ◆ Display Output: Analog CRT and PEG x16, Digital I/O: 8-bit digital I/O (2x5 pin)
- ◆ Storage: 1 x FDD, 6 x SATA 3Gb/s (with RAID 0, 1, 5, 10 function)
- ◆ Audio: Realtek ALC888
- ◆ Watchdog Timer: Software programmable supports 1~255 sec. system reset
- ◆ Power Supply: ATX supported
- ◆ Fan Connector: 1 x CPU smart fan (1x4 pin), 1 x System fan (1x3 pin), 1 x Chipset fan (1x4 pin)
- ◆ Power Consumption: 3.3V@2.64A, 5V@5.4A, 12V@0.28A, Vcore@3.45 (Intel® Core™ 2 Duo E8500 3.16 GHz with four 800 MHz 2 GB DDR2)
- ◆ Operating Temperature: -10°C ~ 60°C
- ◆ Storage Temperature: -20°C ~ 70°C
- ◆ Operating Humidity: 5% ~ 95%, non-condensing
- ◆ Dimensions: 305 mm x 244 mm
- ◆ Weight: GW: 1200 g/NW: 600 g

## Packing List

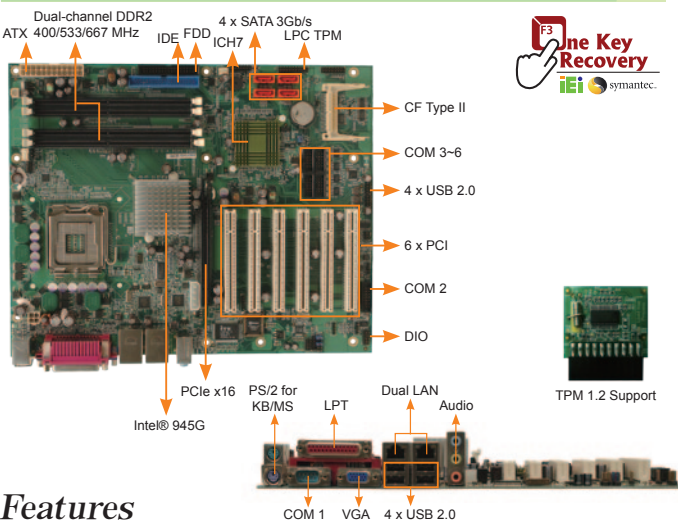
1 x IMBA-Q454 single board computer	1 x Mini jumper pack
1 x I/O shielding	1 x One Key Recovery CD
2 x Dual RS-232 cable	1 x QIG
6 x SATA cable	1 x Utility CD

## Ordering Information

Part No.	Description
IMBA-Q454-R10	ATX motherboard supports 45nm Core™2 Duo/Quad with a 1333/1066/800 MHz FSB, Intel® Q45 & ICH10DO platform, dual Intel® GbE, six SATA 3Gb/s with RAID, six COM ports, USB and audio
19800-000100-200-RS	Four USB cable
19800-003100-300-RS	Dual USB cable
32102-000100-100/200-RS	SATA power cable
32200-000017-RS	FDD cable
CF-520-RS-R11	CPU cooler
SDVO-100DVI-R10	PCIe x16 DVI output SDVO card support dual display (IEI CPU board only)
SDVO-100VGA-R10	PCIe x16 VGA output SDVO card support dual display (IEI CPU board only)

# IMBA-9454-R40

ATX form factor with Intel® Core™2 Duo, Pentium® D/Pentium® 4/Celeron® D CPU FSB 533/800/1066 MHz, VGA, dual-channel DDR2, FDD, LPT, four SATA 3Gb/s, eight USB 2.0 and six COM



## Features

- Intel® Core™2 Duo, Pentium® D, Pentium® 4, Celeron® D processor in a LGA775 package
- Integrated Intel® GMA950 graphics engine that offers adequate display quality via VGA interface
- Dual-channel 400/533/667 MHz DDR2 SDRAM socket supports up to 4 GB
- TPM 1.2 hardware security function supported
- Four SATA 3Gb/s, eight USB 2.0, audio and ATX power only
- IEI One Key Recovery solution allows you to create rapid OS backup and recovery

## Specifications

- ◆ CPU: LGA775 Intel® Core™2 Duo, Pentium® 4/ Celeron® D processor, FSB 533/800/1066 MHz
- ◆ System Chipset: Intel® 945G + ICH7
- ◆ BIOS: AMI BIOS
- ◆ System Memory: 4 x 240-pin dual-channel 400/533/667 MHz DDR2 (system max. 4 GB)
- ◆ Ethernet: Dual PCIe Realtek RTL8111E GbE controller
- ◆ External I/O Interface: 1 x KB/MS, 1 x RS-232, 1 x LPT, 4 x USB 2.0
- ◆ Internal I/O Interface: 1 x CF Typell, 1 x FDD, 1 x LPC for TPM (1x20 pin), 1 x RS-232/422/485, 4 x RS-232 (2x5 pin, P=2.54), 4 x SATA 3Gb/s, 4 x USB 2.0 (2x4 pin, P=2.54)
- ◆ Expansions: One PCIe x16 (Support PCIe x1/x16 PCIe add-on cards), 6 x PCI
- ◆ Infrared Interface: 1 x Infrared (1x5 Pin)
- ◆ Digital I/O: 8-bit digital I/O (2x5 pin)
- ◆ Audio: Realtek ALC655 with AC'97 codec
- ◆ Display: VGA integrated in Intel® 945G
- ◆ Watchdog Timer: Software programmable supports 1~255 sec. system reset
- ◆ Power Supply: ATX support
- ◆ Power Consumption: 5V@2.86A, 12V@0.39A, 3.3V@6.24A, Vcore@1.05A (Intel® Core™2 Duo E7400 2.8 GHz/1066 MHz CPU with two 800 MHz 2 GB DDR2)
- ◆ Operating Temperature: 0°C ~ 60°C (32°F ~ 140°F)
- ◆ Storage Temperature: -10°C ~ 70°C
- ◆ Operating Humidity: 5% ~ 95%, non-condensing
- ◆ Dimensions: 305 (L) mm x 244 (W) mm
- ◆ Weight: GW: 1200 g/NW: 650 g

## Packing List

1 x IMBA-9454 single board computer	2 x SATA cable
1 x I/O shielding	1 x Mini jumper pack
1 x IDE cable	1 x One Key Recovery CD
1 x SATA power cable	1 x QIG
2 x Dual RS-232 cable	1 x Utility CD

## Ordering Information

Part No.	Description
IMBA-9454G-R40	ATX motherboard with Intel® LGA775 Core™2 Duo, Pentium® D/Pentium® 4/Celeron® D processor FSB 533/800/1066 MHz, PCIe GbE, SATA 3Gb/s and audio
19800-000100-200-RS	Four USB cable
19800-003100-300-RS	Dual USB cable
32200-000017-RS	FDD cable
32200-000063-RS	RS-232/422/485 cable
CF-775A-RS/CF-520-RS-R11	CPU cooler
SDVO-100DVI-R10	PCIe x16 DVI output SDVO card supports dual display (IEI CPU board only)
SDVO-100VGA-R10	PCIe x16 VGA output SDVO card supports dual display (IEI CPU board only)
TPM-IN01-R11	20-pin Infineon TPM module, software management tool, firmware v3.17