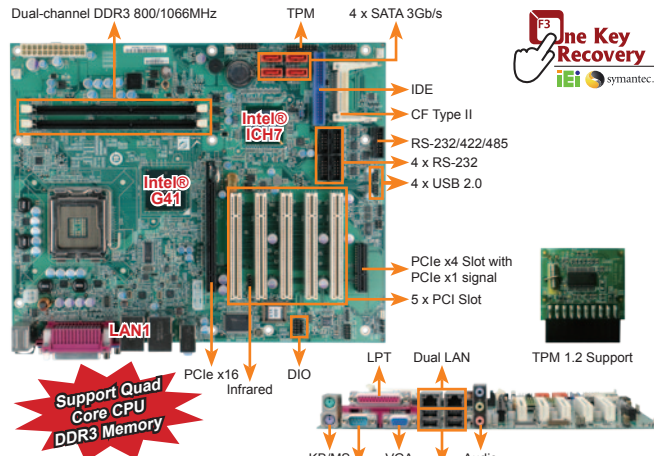


# IMBA-G410-R20

ATX motherboard supports Intel® LGA775 Core™2 Duo/Quad processor with 1333 MHz FSB, including VGA, Dual PCIe GbE, USB 2.0, COM, CF, SATA 3Gb/s and audio, RoHS



## Features

1. Supporte Intel® Core™2 Quad/Core™2 Duo/Pentium®4/Celeron® processor
2. Dual-channel 1066MHz DDR3 supports up to 8GB
3. Intel® GMA X4500 delivers an excellent blend of graphics performance
4. TPM V1.2 hardware security function supported by TPM module
5. 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® processors at FSB 800/1066/1333MHz
- ◆ 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: LAN1: Realtek RTL8111E PCIe GbE controller with ASF 2.0 support; LAN2: Realtek RTL8111E PCIe GbE controller
- ◆ Display Interface: Intel® GMA X4500; Supports DirectX 10/OpenGL 1.5; VGA display supports analog CRT up to 2048x1536 @75MHz
- ◆ Super I/O: Fintek F81865
- ◆ I/O Interface: 5 x RS-232, 8 x USB 2.0, 1 x LPT, 1 x IDE, 2 x PS/2 KB/MS, 4 x SATA 3Gb/s, 1 x CF Type II slot, 1 x RS-232/422/485 with auto flow control
- ◆ Audio: Realtek ALC888 HD Audio codec
- ◆ TPM: 1 x TPM connector (2x10 pin)
- ◆ Infrared Interface: 1 x 5-pin header
- ◆ Expansion: 1 x PCIe x16 slot (supports PCIe x1/x16 add-on card and SDVO card), 1 x PCIe x4 slot (with x1 signal), 5 x PCI slot
- ◆ Watchdog Timer: Software programmable supports 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, 3 x 3-pin system fan connector
- ◆ Power Supply: ATX power supply
- ◆ Power Consumption: 12V@4.80A, -12V@0.06A, 5V@5.45A, 3.3V@0.16A (Intel® Q9550 2.83GHz with 2GB 1333MHz DDR3 memory)
- ◆ Operating Temperature: -10°C ~ 60°C
- ◆ Storage Temperature: -20°C ~ 70°C
- ◆ Operating Humidity: 5% ~ 95%, non-condensing
- ◆ Dimensions: 244mm x 305mm
- ◆ Weight: GW:1200g/NW: 650g

## Packing List

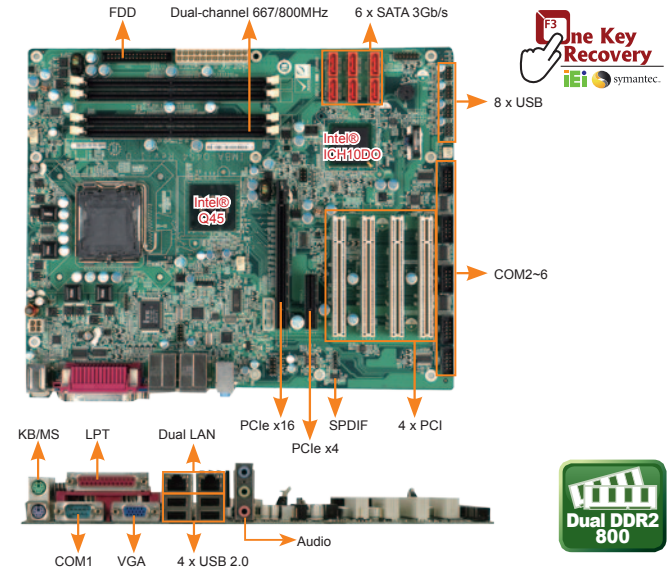
1 x IMBA-G410 single board computer	
2 x Dual RS-232 cable (P/N: 19800-003600-100-RS)	
1 x I/O shielding (P/N: 45014-0017C0-00-RS)	1 x Mini jumper pack
2 x SATA cable (P/N: 32000-062800-RS)	1 x Utility CD
1 x One Key Recovery CD	1 x QIG

## Ordering Information

Part No.	Description
IMBA-G410-R20	ATX motherboard supports Intel® LGA775 Core™2 Duo/Quad processor with 1333 MHz FSB, VGA, PCIe x16, PCIe x4 (x1 signal), PCI, dual PCIe GbE, USB 2.0, COM, CF, SATA 3Gb/s and audio, RoHS
32225-002000-200-RS	IDE cable
32102-000100-200-RS	SATA power cable
19800-000100-200-RS	Quad ports USB cable with bracket
19800-003100-300-RS	Dual ports USB cable with bracket
19800-004400-200-RS	RS-232/422/485 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-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

# IMBA-Q454

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



## Features

1. Designed for Intel® Core™2 Quad/Duo processor Q9000/E8000/E7000 series in the LGA775 with a 1333/1066/800 MHz FSB
2. Intel® GbE LAN with Intel® AMT 5.0 supported
3. Intel® Q45 chipset integrating high-performance graphics with DX10 and OpenGL 2.1. External graphics card with PCIe 2.0 and 1x16 PEG support
4. PCIe x16 expansion slot and VGA output for dual display support
5. 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 DIMM support up to 16 GB
- ◆ Ethernet Chipset: LAN1: Intel® 82567LM (Intel® AMT 5.0 supported); LAN2: Intel® 82574L
- ◆ IO Interface: 6 R 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/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 x 16
- ◆ Super I/O: ITE IT8718F
- ◆ Digital I/O: 8-bit (4-bit input/4-bit output)
- ◆ 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 4-pin CPU fan, 1 x 4-pin chipset fan, 1 x 3-pin system fan
- ◆ 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 One Key Recovery CD
2 x Dual RS-232 cable (P/N: 19800-000051-RS)	1 x Mini jumper pack
1 x I/O shielding (P/N: 45002-450903-00-RS)	1 x Utility CD
6 x SATA cable (P/N: 32000-062800-RS)	1 x QIG

## 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
CF-775A-RS	CPU cooler
CF-520-RS-R11	CPU cooler
19800-003100-300-RS	Dual USB cable
19800-000100-200-RS	Four USB cable
SDVO-100VGA-R10	PCIe x16 VGA output SDVO card support dual display (IEI CPU board only)
SDVO-100DVI-R10	PCIe x16 DVI output SDVO card support dual display (IEI CPU board only)
32200-000017-RS	FDD cable
32102-000100-100/200-RS	SATA power cable

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