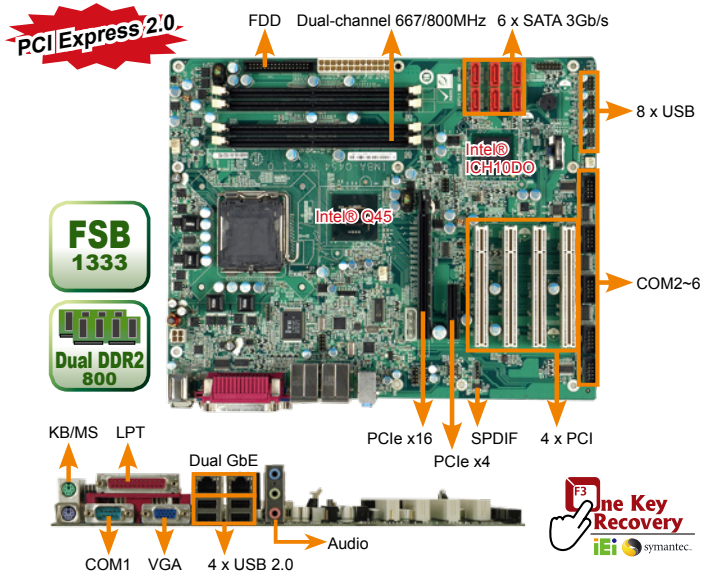


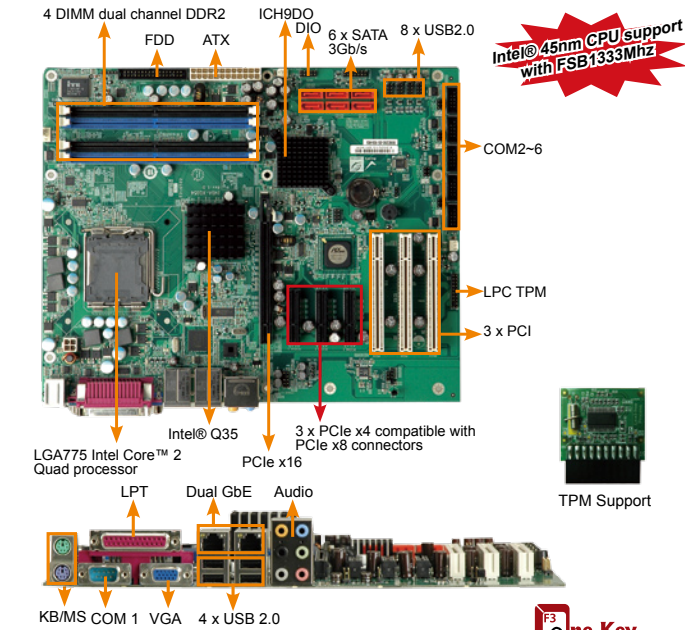
IMBA-Q454

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



IMBA-XQ354-R11

LGA 775 45nm Intel® core™2 Quad, Core™2 Duo, Celeron® CPU with a 1333/1066/800MHz FSB



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. Q45 chipset integrated high performance graphic with DX10 and OpenGL 2.1 supported, external graphic card PCIe 2.0 PEG 1X16 supported
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
LGA 775 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
LAN 1: Intel® 82567LM (Intel® AMT 5.0 supported)
LAN 2: Intel® 82574L
- ◆ I/O Interface
6 x RS-232 1 x VGA
1 x LPT 2 x RJ-45
12 x USB2.0 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 IO
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
- ◆ TPM
iTPM1.2
- ◆ 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 (Intel® Core 2 Duo E8500 3.16 GHz with DDR2 800 MHz 2 GB x 4)
- ◆ Temperature
Operation: 0°C ~ 60°C (32°F ~ 140°F)
- ◆ Humidity
Operation: 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	6 x SATA cable (P/N: 32000-062800-RS)
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 QIG (quick installation guide)
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
CF-775A-RS	CPU cooler
19800-003100-100-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
32100-000100-200-RS	SATA power cable

Features

1. ATX form factor supports Intel® Q35/ICH9DO
2. Supports Intel® Core™2 Quad/Duo 45nm processor with 1333/1066/800 MHz FSB (FSB1066 MHz for IMBA-X9654)
3. PLX PCIe switch for three PCIe x4 add-on cards
4. Six SATA 3Gb/s with Intel® Matrix Storage Technology supported
5. Intel® PCIe GbE with Intel® AMT 3.0 supported
6. TPM1.2 IT security solution supported
7. IEI One Key Recovery solution allows you to create rapid OS backup and recovery

Specifications

- ◆ CPU
LGA 775 45nm Intel® core™2 Quad, Core™ 2 Duo, Celeron® CPU with a 1333/1066/800 MHz FSB
- ◆ FSB
1333/1066/800 MHz
- ◆ System Chipset
Intel® Q35
Intel® ICH9DO
- ◆ BIOS
AMI BIOS
- ◆ Memory
4 x 240-pin 800/667 MHz dual-channel DDR2 SDRAM DIMM support up to 8 GB
- ◆ Graphic
Integrated Graphics Device from Q35
- ◆ Display Output
Analog display (VGA)
- ◆ Ethernet
Intel® 82566DM (PHY) + ICH9-DO (MAC) for Intel® AMT support
Intel® 82573L (MAC+PHY)
Interface PCI-Ex1
- ◆ Super IO
ITE IT8718F
- ◆ Audio
Realtek ALC888 HD Audio codec
- ◆ Digital I/O
8-bit digital I/O 4-bit input/4-bit output
- ◆ IO Interface
1 x KB/MS 1 x LPT
1 x FDD 12 x USB2.0
6 x SATA 3Gb/s
6 x RS-232 COM Port (2 by super IO, 4 by Fintek F81216DG)
- ◆ Expansions
1 x PCIe x 16
3 x PCIe x 4 (by PLX PEX8518)
3 x PCI
- ◆ Watchdog Timer
Software Programmable supports 1~255 sec. system reset
- ◆ TPM
- ◆ Graphic
1 x 4-pin CPU fan and 2 x 3pin system fan
- ◆ Power Consumption
3.3V@2.96A, 5V@6.92A, 12V@2.77A (Intel® Core™2 Duo E8500 CPU with 800 MHz 8GB DDR2 DIMM)
- ◆ Temperature
Operation: 0°C ~ 60°C (32°F ~ 140°F)
- ◆ Humidity
Operation: 5% ~ 95%, non-condensing
- ◆ Dimensions: 305 mm x 244 mm
- ◆ Weight: GW: 1200 g / NW: 600 g

Packing List

1 x IMBA-XQ354 single board computer	2 x Dual RS-232 cable (P/N: 19800-000113-RS)
1 x I/O shielding (45014-0025C0-00-RS for IMBA-XQ354-R11)	1 x Mini jumper pack
6 x SATA cable (P/N: 32102-000100-100/200-RS)	1 x QIG (quick installation guide)
1 x RS-232 cable (P/N: 19800-000114-RS)	
1 x Utility CD	

Ordering Information

Part No.	Description
IMBA-XQ354-R11	ATX motherboard with Intel® LGA775, Core™2 Quad CPU, Celeron® with a 1333/1066/800 MHz FSB, PCIe x16, PCIe x4, PCIe GbE, SATA 3Gb/s and audio
19800-003100-100-RS	Dual USB cable
19800-000100-200-RS	Four USB cable
32200-000063-RS	RS-232/422/485 cable
CF-775A-RS	CPU cooler
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)