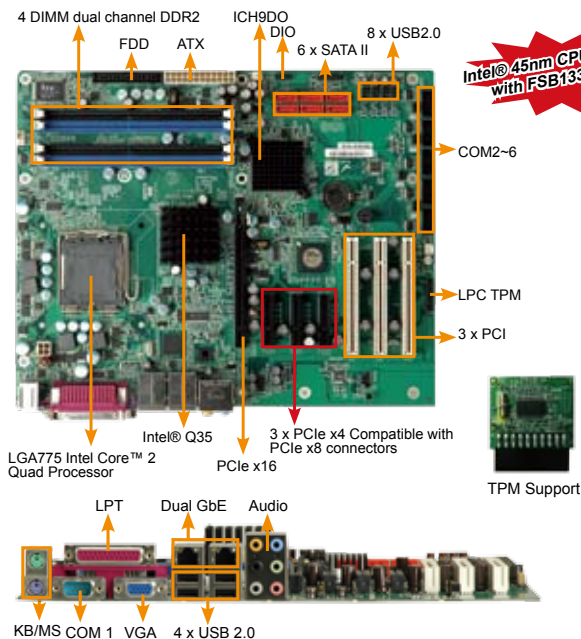


# IMBA-XQ354

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



Intel® 45nm CPU support with FSB1333MHz

## Features

1. ATX form factor support Intel® Q35/ICH9DO platform
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 3x PCIe x4 add on Card
4. Six SATAII with Intel Matrix storage technology supported
5. Intel® PCIe GbE with iAMT 3.0 supported
6. TPM1.2 IT security solution supported

## Specifications

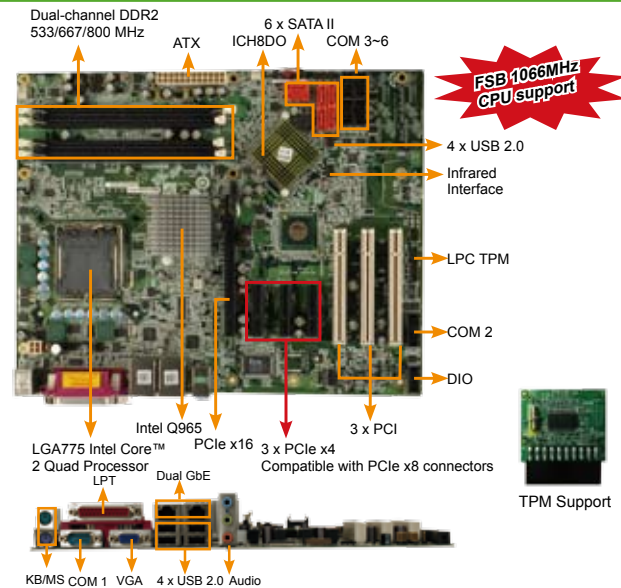
- ◆ CPU  
LGA 775 45nm Intel® core™2 Quad, Core™2 Duo, Celeron® CPU with a 1333/1066/800 MHz FSB
- ◆ FSB  
1333/1066/800 MHz
- ◆ System Chipset  
Intel® Q35  
Intel® ICH9DO
- ◆ BIOS  
AMI BIOS Label
- ◆ Memory  
4 x 240-pin 800/667 MHz dual-channel DDR2 SDRAM DIMM support up to 8 GB
- ◆ Graphic  
Integrated Graphics Device from Q35
- ◆ Display Output  
Analog display (VGA)
- ◆ Ethernet  
Intel® 82566DM (PHY) + ICH9-DO (MAC) for iAMT support  
Intel® 82573L (MAC+PHY)  
Interface PCI-Ex1
- ◆ Super IO  
ITE IT8718F
- ◆ KB/MS  
1 x KB/MS
- ◆ COM PORT  
6 x RS-232 COM Port  
(2 by super IO, 4 by Fintek F81216DG)
- ◆ LPT  
1 x LPT
- ◆ FDD  
1 x FDD
- ◆ USB  
12 x USB2.0
- ◆ Audio  
Realtek ALC888 HD Audio codec
- ◆ SATA  
6 x SATA II
- ◆ Digital I/O  
8-bit digital I/O 4-bit input/4-bit output
- ◆ 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  
Support TPM1.2
- ◆ Power Supply  
ATX supported
- ◆ FAN Connector  
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 E6850 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:1.2 kg / NW:0.6 kg

## Packing List

|                                                                                                     |         |
|-----------------------------------------------------------------------------------------------------|---------|
| 1 x IMBA-XQ354 / IMBA-X9654 single board computer                                                   |         |
| 2 x Dual RS-232 cable (P/N: 19800-000113-RS)                                                        |         |
| 1 x RS232 cable (P/N: 19800-000114-RS)                                                              |         |
| 6 x SATA cable (P/N: 32000-062800-RS)                                                               |         |
| 1 x I/O shielding<br>(45014-0025C0-00-RS for IMBA-XQ354-R10, 45014-0017C0-00-RS for IMBA-X9654-R10) |         |
| 1 x Mini jumper pack                                                                                |         |
| 1 x Utility CD                                                                                      | 1 x QIG |

# IMBA-X9654

ATX Form Factor with Intel® Core™2 Quad CPU FSB 533/800/1066 MHz, VGA, Dual-channel DDR2, LPT, 6 x SATA II, 8 x USB 2.0 and 6 x COM



FSB 1066MHz CPU support

## Three PCIe x4 expansion by switch IC solution



## Specifications

- ◆ CPU  
LGA 775 Intel® Core™2 Quad/Duo, Pentium® D/4 , and Celeron® D with 533/800/1066 MHz FSB
- ◆ System Chipset  
Intel® Q965 + ICH8DO
- ◆ BIOS  
AMI Flash BIOS
- ◆ System Memory  
4 x 240-pin dual-channel DDR2 533/667/800 MHz up to 8 GB
- ◆ Ethernet  
Dual Broadcom BCM5787M PCIe GbE chipset with ASF 2.0 support
- ◆ I/O Interface  
5 x RS-232, 1 x RS-232/422/485  
1 x 20-pin LPC for TPM  
1 x LPT  
8 x USB 2.0  
6 x SATA II with RAID 0,1,5 and 10  
2 x PS/2 for KB/MS
- ◆ Expansions  
1 x PCIe x16  
3 x PCIe x4 by PLX PEX8518  
3 x PCI
- ◆ Digital I/O  
8-bit digital I/O, 4-bit input/ 4-bit output
- ◆ Infrared Interface  
1 x Infrared Interface by pin header
- ◆ Super I/O  
IT8712F
- ◆ Display Interface  
VGA Integrated in Intel® Q965
- ◆ Audio  
Realtek ALC883 HD audio
- ◆ Watchdog Timer  
Software programmable supports 1 ~255 sec. system reset
- ◆ Power Supply  
ATX Power
- ◆ Power consumption  
5V@4.62A, 12V@9.71A, 3.3V@ 5.74A (Pentium® 4 3.73GHz/1066 MHz CPU with 1 GB DDR2 667 MHz)
- ◆ Temperature  
Operating: 0°C ~ 60°C ( 32°F ~ 140°F)
- ◆ Humidity  
Operating: 5% ~95% non-condensing
- ◆ Dimensions  
305 mm x 244 mm
- ◆ Weight  
GW: 1.35 kg / NW: 0.75 kg

## Ordering Information

| Part No.               | Description                                                                                                                                           |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| IMBA-X9654-R10         | ATX motherboard with Intel® LGA 775, Core™2 Quad/Duo, Pentium® D/4, Celeron® D processor FSB 533/800/1066 MHz, PCIe x16 , PCIe GbE, SATA II and audio |
| IMBA-XQ354-R10         | ATX motherboard with Intel® LGA775, Core™2 Quad CPU, Celeron® with a 1333/1066/800 MHz FSB, PCIe x16, PCIe x4, PCIe GbE, SATAII and audio             |
| CB-USB02-RS            | Dual USB cable                                                                                                                                        |
| CB-USB14-RS            | Four USB cable                                                                                                                                        |
| 32200-000063-RS        | RS-232/422/485 cable                                                                                                                                  |
| CF-775A-RS / CF-520-RS | CPU cooler                                                                                                                                            |
| TPM-WI01-R10           | 20-pin WINBOND TPM module, S/W management                                                                                                             |
| TPM-IN01-R10           | 20-pin INFINEON TPM module, S/W management                                                                                                            |
| 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)                                                                              |