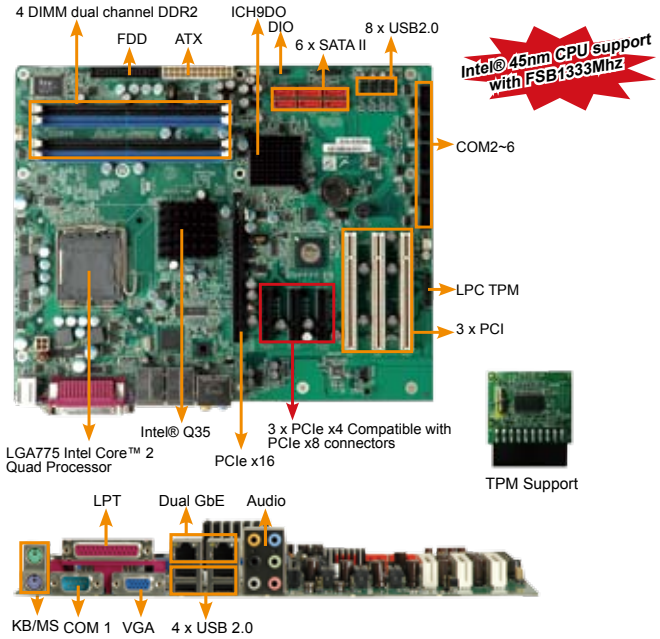
IMBA-XQ354

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



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 technoloty supported
5. Intel® PCIe GbE with iAMT 3.0 supported
6. TPM1.2 IT security solution supported

Specifications

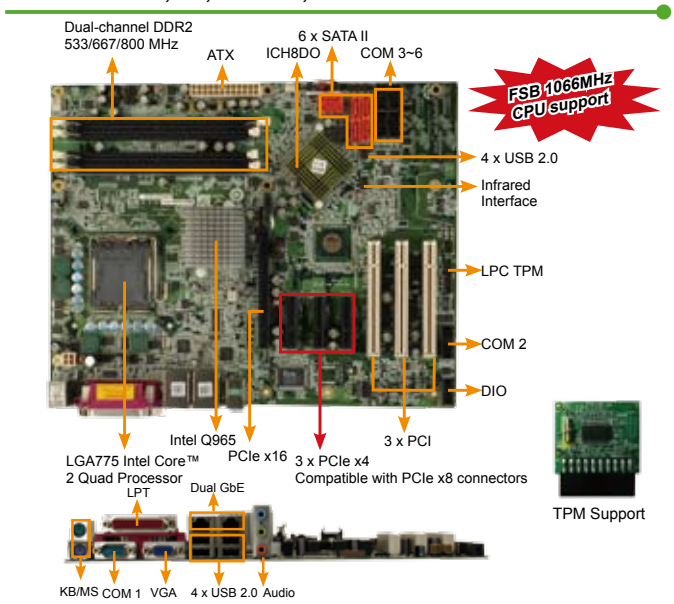
- CPU
  LGA 775 45nm Intel® core™2 Quad,Core™2 Duo, Celeron® CPU with a 1333/1066/800 MHz FSB
- FSB
  1333/1066/800 MHz
- System Chipset
  Intel® Q35
  Intel® ICH9DO
- BIOS
  AMI BIOS Label
- Memory
  4 x 240-pin 800/667 MHz dual-channel DDR2 SDRAM DIMM support up to 8 GB
- Graphic
  Integrated Graphics 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
  Reltek 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

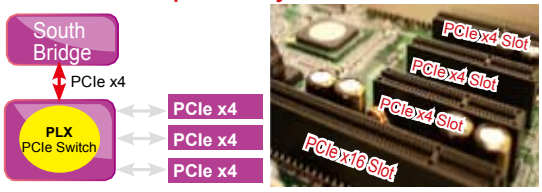
1 x IMBA-XQ354 / IMBA-X9654 single board computer	
2 x Dual RS-232 cable (P/N: 19800-000113-RS)	
1 x RS232 cable (P/N: 19800-000114-RS)	
6 x SATA cable (P/N: 32000-062800-RS)	
1 x I/O shielding (45014-0025C0-00-RS for IMBA-XQ354-R10,45014-0017C0-00-RS for IMBA-X9654-R10)	
1 x Mini jumper pack	
1 x Utility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



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 Intgrated 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)