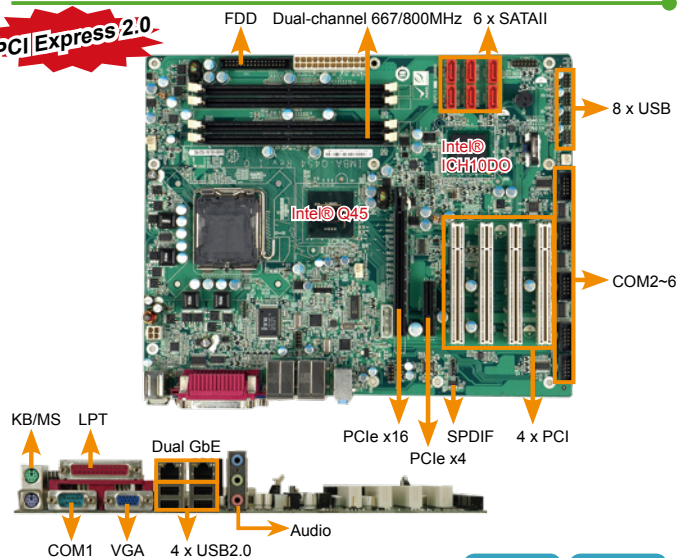


IMBA-Q454

One Key Recovery
iEi

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

PCI Express 2.0



Features

1. Designed for use with the Intel® Core™2 Duo/Quad processor Q9000/E8000/E7000 series in the LGA775 with a 1333/1066/800 MHz FSB
2. Intel® GbE LAN with iAMT5.0 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 supported
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 (iAMT 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 8718F
- ◆ Digital I/O
8-bit (4-bit input / 4-bit output)
- ◆ Storage
1 x FDD
6 x SATA II (with RAID 0, 1, 5, 10 function)
- ◆ Audio
Realtek ALC888
- ◆ TPM
iTTPM1.2
- ◆ Watchdog Timer
Software programmable supports 1~255 sec. system reset
- ◆ Power Supply
ATX connector
- ◆ 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:1.2 kg / NW:0.6 kg

Packing List

1 x IMBA-Q454 single board computer	
2 x Dual RS-232 cable (P/N: 19800-000051-RS)	6 x SATA cable (P/N: 32000-062800-RS)
1 x I/O shielding (P/N: 45002-450903-00-RS)	1 x Mini Jumper Pack
1 x Utility CD	1 x QIG (quick installation guide)

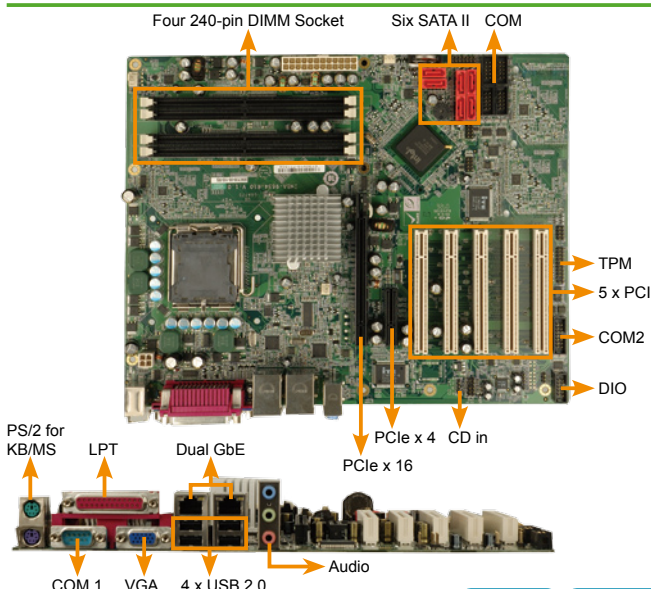
Ordering Information

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 II with RAID, six COM ports, USB and audio
CF-775A-RS	CPU cooler
CF-520-RS-R11	CPU cooler
CB-USB02-RS	Dual USB cable
CB-USB14-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-RS	SATA power cable
32100-000100-200-RS	SATA power cable

IMBA-9654

One Key Recovery
iEi

ATX form factor mother board supports Intel® LGA775 Core™2 Duo, Core™2 Quad, Pentium® D, Processor at FSB1066/800/533 FSB, dual channel DDR2, dual GbE, six SATA II, six COM ports, USB, audio, and 5 PCI slots.



Features

1. Intel® LGA775 Core™2 Duo / Quad Processor at FSB1066 / 800 MHz supported
2. Dual Broadcom PCIe BCM5787M GbE
3. Six SATA II with Intel® Matrix Storage Technology supported
4. One PCIe x16 / One PCIe x4 / Five PCI expansion slots
5. IEI One Key Recovery solution allows you to create rapid OS backup and recovery

Specifications

- ◆ CPU
LGA 775 Intel® Core™2 Duo/Quad, Pentium® D/4, and Celeron® D with 533/800/1066MHz FSB
- ◆ FSB
1066/800/533 MHz
- ◆ System Chipset
Intel® Q965 + ICH8-DO
- ◆ BIOS
AMI Flash BIOS
- ◆ System Memory
Four 240-pin 800/667/533 MHz dual-channel DDR2 SDRAM DIMM supported (system max. 8.0 GB)
- ◆ Ethernet
Dual Broadcom PCIe BCM5787M GbE controller
- ◆ I/O Interface
5 x RS-232 1 x RS-232/422/485
1 x LPT 1 x SPDIF
2 x PS/2 for KB/MS 1 x 20-pin LPC for TPM
8 x USB 2.0 (4 on the edge, 4 on board by pin header)
6 x SATA II with RAID 0, 1, 10, 5, JBOD support
- ◆ Expansion
One PCIe x16 slot One PCIe x4 slot
Five PCI slots (33 MHz/32 bit)
- ◆ Digital I/O
8-bit digital I/O, 4 input/ 4 output
- ◆ Infrared Interface
1 x 5-pin pin header
- ◆ Display Interface
Analog CRT output
- ◆ Audio
Realtek ALC883 HD audio codec
- ◆ Watchdog Timer
Software programmable supports 1 ~255 sec. system reset
- ◆ Power Supply
ATX Power
- ◆ Super I/O
ITE8712F
- ◆ Power consumption
5V@6.03A, 12V@3.51A, 3.3V@4.43A
(Intel® Core™ 2 Duo E6400 2.13GHz/ 1066MHz 6GB DDR2 800Mhz)
- ◆ Temperature
Operation: 0°C ~ 60°C (32°F ~ 140°F)
- ◆ Humidity
Operation: 5% ~95% non-condensing
- ◆ Dimensions
305 mm x 244 mm
- ◆ Weight
GW:1.5 kg

Packing List

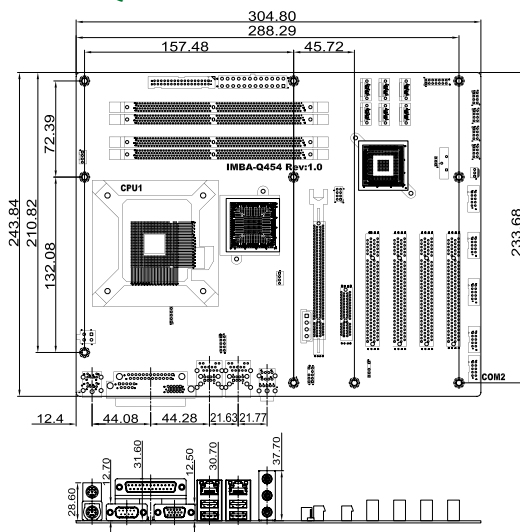
1 x IMBA-9654 single board computer	
2 x Dual RS-232 cable (P/N: 19800-000113-RS)	
3 x SATA power cable (P/N: 32102-000100-100/200-RS)	
1 x RS-232 cable (P/N: 19800-000114-RS)	1 x Mini jumper pack
6 x SATA cable (P/N: 32000-062800-RS)	1 x I/O shielding (P/N: 45014-0017C0-00-RS)
1 x Utility CD	1 x QIG (Quick Installation Guide)

Ordering Information

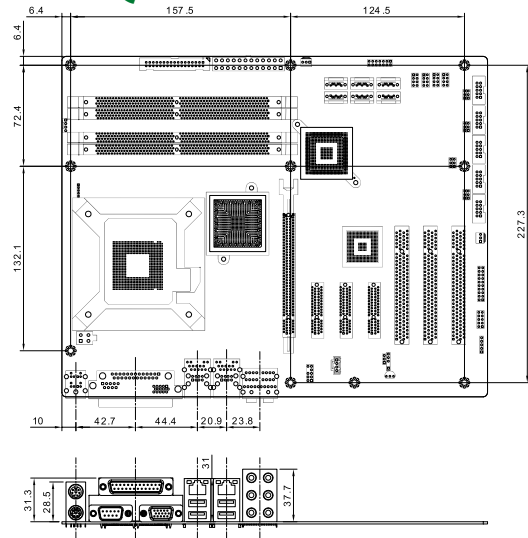
Part No.	Description
IMBA-9654-R10	ATX form factor mother board supports Intel® LGA775 Core™2 Duo, Core™2 Quad, Pentium® D, Processor at FSB1066/800/667 FSB, dual channel DDR2, dual GbE, six SATA II, six COM ports, USB, audio, and 5 PCI slots.
CF-775A-RS	CPU cooler
TPM-WI01-R10	20-pin Winbond TPM with software management tool
TPM-IN01-R10	20-pin Infineon TPM with software management tool
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)
32200-000063-RS	RS-232/422/485 cable

■ Dimensions (Unit : mm)

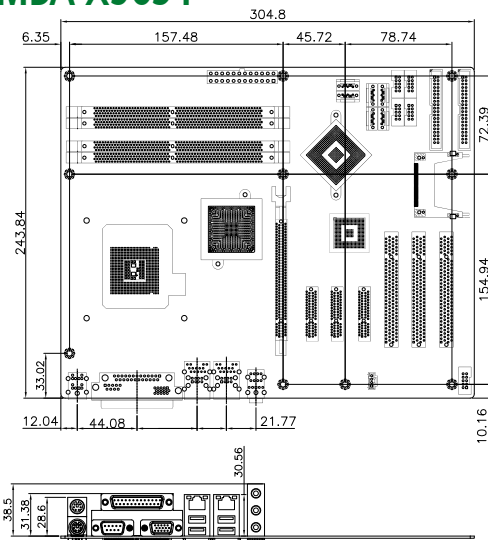
■ IMBA-Q454



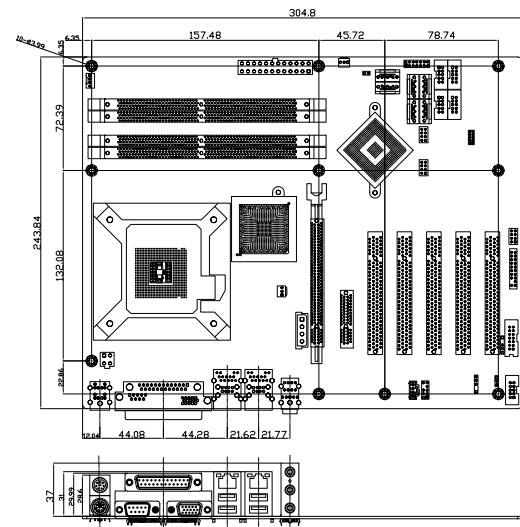
■ IMBA-XQ354



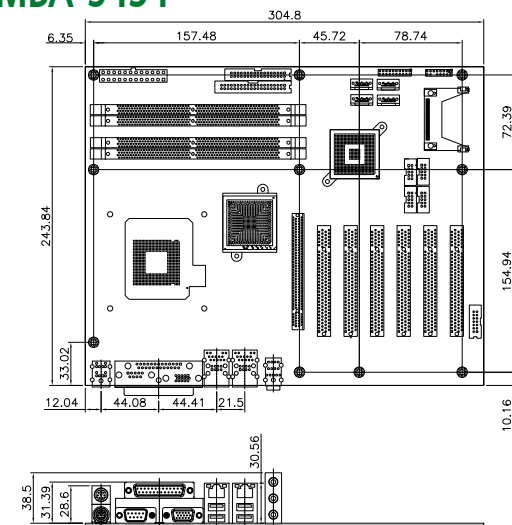
■ IMBA-X9654



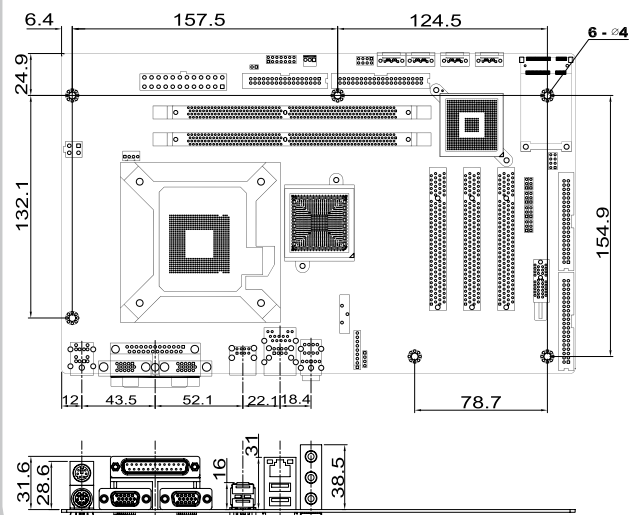
■ IMBA-9654



■ IMBA-9454



■ IMBA-9454B



1

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Solutions

7

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Communication

8

Power Supply/
Peripherals