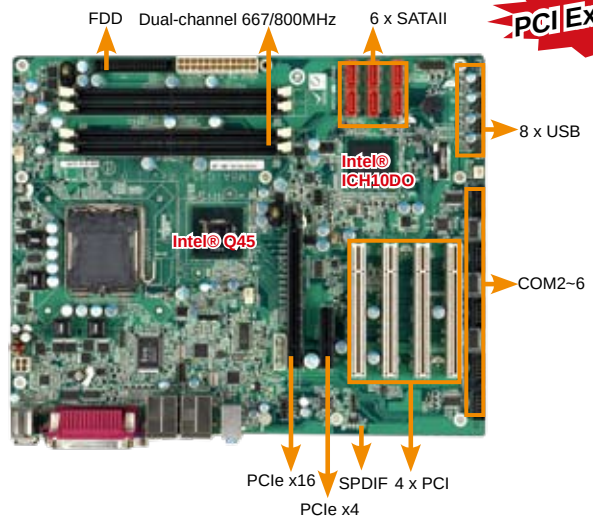
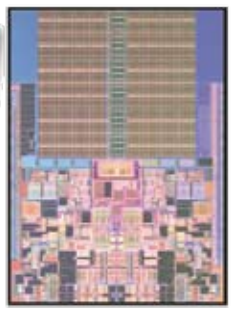
IMBA-Q454

ATX motherboards 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



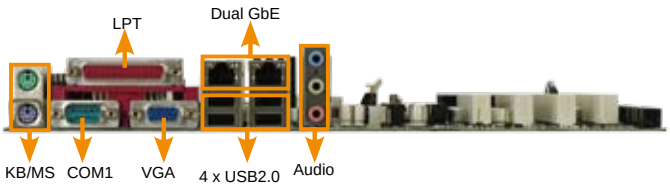
PCI Express 2.0



Intel® Core™2 Quad 45nm Yorkfield/ Wolfdale Processor supported

Benefit

- Higher frequency and larger cache within the same power and thermal envelopes as 65nm products
- SSE4 New multimedia instructions
- Enhancements to the Intel®Core™Microarchitecture



Dual DDR2 800 | FSB1333 | SERIAL ATA 3Gb/s | HI-SPEED USB | Gigabit Ethernet PCIe | Intel® Matrix Storage Manager

Specifications

- CPU
  Intel® Core™ 2 Duo/Quad, Pentium®4/D, Celeron®D processor with 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 8 GB
- Ethernet Chipset
  LAN 1: Intel® 82567LM (iAMT 5.0 supported)
  LAN2: Intel® 82574L
- IO Interface
  6 x RS-232 1 x VGA
  1 x LPT 2 x RJ-45
  12 x USB2.0 1 x Audio Jack for Line in/Line out/Mic in
  2 x PS/2 for KB & MS
- 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
- Storage
  1 x FDD
  6 x SATA II (with RAID 0, 1, 5, 10 function)
- Digital I/O
  8-bit (4-bit input / 4-bit output)
- 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:1.2 kg, NW:0.6 kg

Features

1. Designed for use with the 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 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

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/CF-520-RS	CPU cooler
CB-USB02-RS	Dual 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
32100-088600-RS	SATA power cable