

# IMB-Q354

Micro ATX Motherboard Supports 45nm LGA775 Intel® Core™2 Duo CPU with a 800/1066/1333 MHz FSB, Intel® Q35 & ICH9DO platform, Dual Intel PCIe GbE, SATA II with RAID Functions.

1 Industrial Computing Solutions

2 Embedded Computing Solutions

3 RISC-Based Embedded Solutions

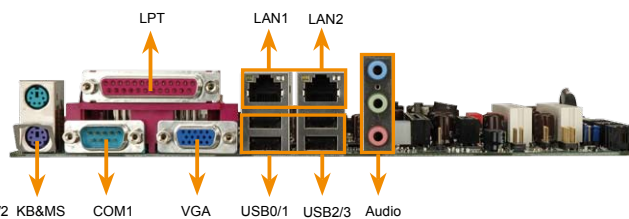
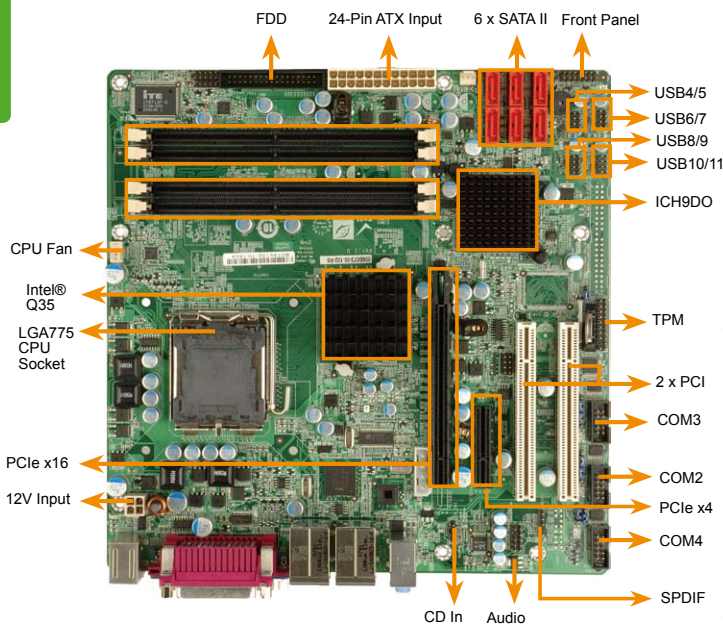
4 Industrial Data Collector/Server Solutions

5 Video Capture Solutions

6 I/O Communication Solutions

7 Panel Solutions

8 Power Supply/Network Communication/Peripherals



| Generation | Core™ Duo / Core™2 Duo / Core™2 Quad   |                               |
|------------|--|-------------------------------|
| Process    | 45nm   |                               |
| CPU        | <p>Quad Core</p> <ul style="list-style-type: none"> <li>• Quad Core</li> <li>• Up to 12MB L2</li> <li>• 95W/130W TDP</li> <li>• FSB1333/1066/800MHz</li> </ul> | <p>PCIe-Q350<br/>IMB-Q354</p> |
|            | <p>Dual Core</p> <ul style="list-style-type: none"> <li>• Dual Core</li> <li>• Up to 6MB L2</li> <li>• 65W TDP</li> <li>• FSB1333/1066/800MHz</li> </ul>       | <p>PCIe-Q350<br/>IMB-Q354</p> |
| FSB        | 1333 / 1066 / 800MHz   |                               |

## Specifications

- ◆ CPU  
LGA775 45nm Intel® Core™2 Quad, Core™ 2 Duo, Celeron® CPU with a 1333/1066/800 MHz FSB
- ◆ System Chipset  
Intel® Q35 + ICH9DO
- ◆ BIOS  
AMI BIOS Label with 4MB SPI EEPROM
- ◆ System Memory  
4 x 240-pin 2 GB (max.) 800/667 MHz dual-channel DDR2 SDRAM DIMM (system max. 8 GB)
- ◆ Ethernet  
Dual GbE  
LAN1: Intel® 82573L (MAC + PHY)  
LAN2: Intel® 82566DM (PHY) with iAMT support
- ◆ IO Interface  
4 x RS-232  
12 x USB 2.0  
1 x LPT  
1 x FDD  
2 x PS/2 for KB/MS (external)  
6 x SATA II with RAID 0,1,5,10 support
- ◆ Digital I/O  
8-bit Digital I/O, 4-bit input / 4-bit output
- ◆ Infrared Interface  
1 x Infrared Interface by pin header
- ◆ Expansions  
1 x PCIe x16  
1 x PCIe x4  
2 x PCI
- ◆ Audio  
Realtek ALC883 HD audio codec
- ◆ Graphic  
VGA intergated in Intel® Q35
- ◆ TPM1.2  
1 x 20-pin header on-board for TPM (Trusted Platform Module)
- ◆ Watchdog Timer  
Software Programmable supports 1~255sec. system reset
- ◆ Power Supply  
ATX
- ◆ Power Consumption  
3.3V@2.41A, 5V@5.71A, 5Vsb@0.13A, 12V@3.69A(2DMark 2001)  
Intel® Core™2 Duo E6850 3.0GHz, 8GB DDR2 800MHz, 3DMark 2001
- ◆ Temperature  
Operating: 0°C ~ 60°C (32°F ~ 140°F)
- ◆ Humidity  
Operating: 5% ~95% non-condensing
- ◆ Dimensions  
244 mm x 244 mm
- ◆ Weight  
GW:1.1 kg

## Features

1. Micro ATX and RoHS compliant
2. Supports Intel® LGA775 Intel® Core™2 Quad, Core™ 2 Duo, 45 nm processor with 1333/1066/800 MHz FSB
3. Intel® Q35 & ICH9DO platform
4. Six SATA II with Intel® Matrix Storage Technology supported
5. Intel® PCIe GbE with iAMT 3.0 supported
6. TPM1.2 IT security solution supported

## Packing List

- 1 x IMB-Q354 single board computer
- 1 x mini jumper pack
- 6 x SATA cable (P/N: 32000-062800-RS)
- 3 x SATA power cable (P/N: 32100-088600-RS)
- 1 x Dual RS-232 cable (P/N:19800-000051-RS)
- 1 x USB cable (P/N: CB-USB02-RS)
- 1 x Utility CD
- 1 x I/O shielding (P/N:45002-450903-00-RS)
- 1 x QIG

## Ordering Information

| Part No.        | Description  |
|-----------------|--|
| IMB-Q354-R10    | Micro ATX motherboard supports 45 nm LGA775 Intel® Core™2 Duo CPU with a 800/1066/1333 MHz FSB, Intel® Q35 & ICH9DO platform, dual Intel® PCIe GbE, six SATA II with RAID functions. |
| CF-520-RS       | High performance CPU cooler, (115mm x 115mm x 67mm, 115W)  |
| TPM-IN01-R10    | Infineon 20-pin Trusted Platform Module with S/W management tool   |
| TPM-WI01-R10    | Winbond 20-pin Trusted Platform Module with S/W 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)   |