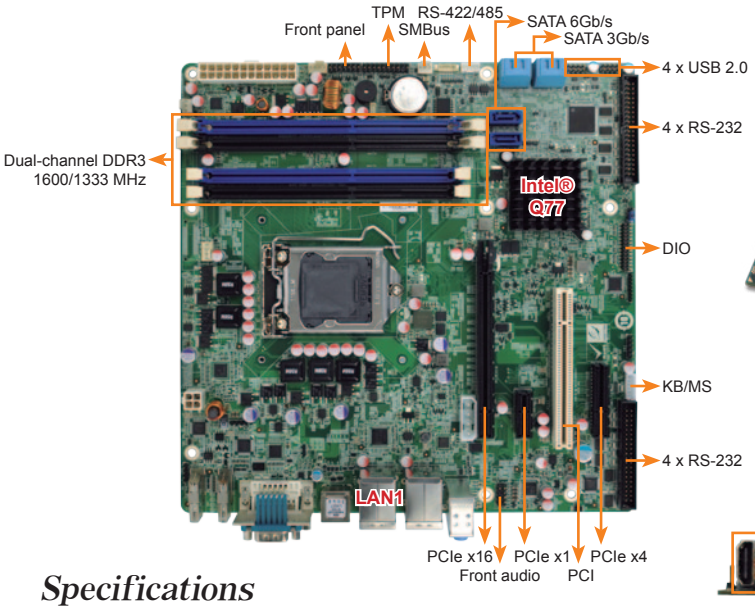
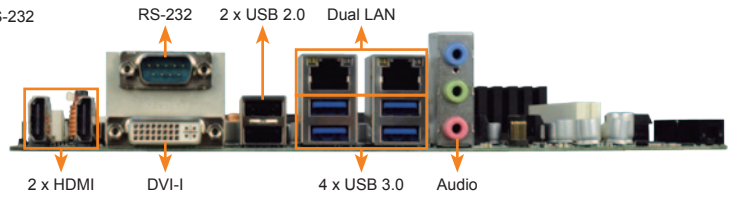
IMB-Q770

microATX motherboard supports 22nm LGA1155 Intel® Core™ i7/i5/i3 CPU with Intel® Q77, DDR3, triple independent display via Dual HDMI/DVI-I, dual Intel® PCIe GbE, USB 3.0, SATA 6Gb/s, ten serial ports, HD Audio and RoHS



LGA1155 CPU cross compatibility

The LGA1155 socket is compatible with 3rd (IVB) and 2nd (SNB) CPU. It can get one year expanded product lifespan and the new technologies when you use backward 2nd CPU on Intel® 7 series platform.



Specifications

- CPU
  LGA1155 socket supports Intel® Core™ i7/i5/i3 quad/dual core processor
- System Chipset
  Intel® Q77
- Memory
  Four 240-pin 1600/1333 MHz dual-channel DDR3 SDRAM unbuffered DIMMs supported (system max. 32 GB)
- BIOS
  UEFI BIOS
- Ethernet
  LAN1: Intel® 82583V PCIe controller
  LAN2: Intel® 82579 PHY with Intel® AMT 8.0 support
- Graphics Engine
  Intel® HD Graphics Gen 7 supports DX11 and OpenCL 1.1
  Full MPEG2, VC1, AVC Decode
- Display Output
  Dual HDMI (HDMI signal only) integrated in Intel® Q77 (up to 1920x1200@60Hz)
  DVI-I integrated in Intel® Q77 (up to 1920x1200@60Hz)
- Audio
  Realtek ALC662 HD Audio codec supports 5.1-channel
  3 x Audio jacks (line-out, line-in, mic-in) on rear IO
  1 x Front audio (2x5 pin)
- External I/O Interface
  1 x RS-232
  2 x USB 2.0
  4 x USB 3.0
- Internal I/O Interface
  1 x KB/MS (1x6 pin)
  1 x RS-422/485 (1x4 pin, P=2.00)
  4 x USB 2.0 (2x4 pin, P=2.54)
  8 x RS-232 (2x20 pin, p=2.54, COM3~6, COM7~10)
  2 x SATA 3Gb/s (RAID 0/1/5/10 support)
  2 x SATA 6Gb/s (RAID 0/1/5/10 support)
- Front Panel
  1 x Front panel (2x7 pin, power LED, HDD LED, speaker, power button, reset button)
- TPM
  1 x TPM connector (2x10 pin)
- SMBus
  1 x SMBus (1x4 pin)
- I²C
  1 x I²C (1x4 pin)
- Infrared Interface
  1 x Infrared (1x5 pin)
- Expansions
  1 x PCIe x16 slot
  1 x PCIe x1 slot
  1 x PCIe x4 slot
  1 x PCI slot
- Watchdog Timer
  Software programmable supports 1~255 sec. system reset
- Digital I/O: 24-bit digital I/O (2x13 pin)
- Fan Connector
  1 x CPU smart fan (1 x 4 pin)
  2 x System smart fan (1 x 3 pin)
- Power Supply: ATX power supply
- Power Consumption
  3.3V@0.31A, 5V@2.91A, 12V@0.51A, 12V@2.12A, -12V@0.10A
  (Intel® Core™ i3 3200 3.2GHz CPU with four 1333 MHz 1 GB DDR3 memory)
- Operating Temperature: -10°C ~ 60°C
- Storage Temperature: -20°C ~ 70°C
- Operating Humidity: 5% ~ 95%, non-condensing
- Dimensions: 244 mm x 244 mm
- Weight: GW: 1200g/NW: 700g

Features

- LGA1155 Intel® Core™ i7/i5/i3 processor supported
- Dual-channel DDR3 1600/1333 MHz supports up to 32 GB
- Intel® PCIe GbE with Intel® AMT 8.0 supported
- Supports 3 displays with 2 displays in combination of HDMI, DVI and VGA
- Supports PCI Express generation 3.0 at 8GT/s I/O bandwidth
- USB 3.0 and SATA 6Gb/s supported
- Supports multiple scalable serial ports
- IEI One Key Recovery solution allows you to create rapid OS backup and recovery

Packing List

1 x IMB-Q770 single board computer	1 x Mini jumper pack
1 x DVI-I to VGA adapter	1 x One Key Recovery CD
1 x I/O shielding	1 x QIG
4 x SATA cable	1 x Utility CD

Ordering Information

Part No.	Description
IMB-Q770-R10	microATX motherboard supports 22nm LGA1155 Intel® Core™ i7/i5/i3 CPU with Intel® Q77, DDR3, three independent displays via dual HDMI/DVI-I, dual Intel® PCIe GbE, USB 3.0, ten serial ports, SATA 6Gb/s, HD Audio and RoHS
19800-000075-RS	PS/2 KB/MS Y-cable with bracket, 220mm
19800-003100-300-RS	Dual-port USB cable with bracket
32102-000100-200-RS	SATA power cable
32205-001203-200-RS	Quad-port RS-232 cable without bracket, 400/400/400/400mm
32205-003800-300-RS	RS-422/485 cable, 200mm
CF-1156A-RS-R11	High performance LGA1155/LGA1156 cooler kit, 1U chassis compatible, 73W
CF-1156C-RS	LGA1155/LGA1156 cooler kit, 1U chassis compatible, 45W
CF-1156D-RS	LGA1155/LGA1156 cooler kit, 1U chassis compatible, 65W
CF-1156E-R11	High performance LGA1155/LGA1156 cooler kit, 95W
TPM-IN01-R11	20-pin Infineon TPM module, software management tool, firmware v3.17