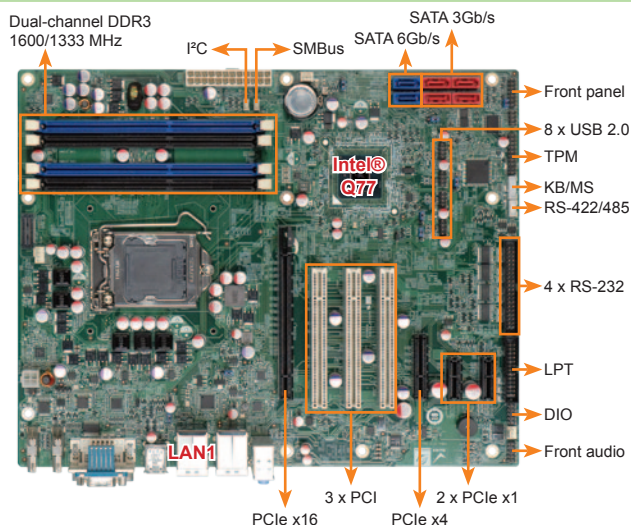


IMBA-Q770

ATX 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, HD Audio and RoHS



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® 82579L PHY with Intel® AMT 8.0 support
- ◆ Graphics Engine
Intel® HD Graphics Gen 7 supports DX11 and OpenCL 1.1
Full MPEG-2, 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 KB/MS | 4 x USB 2.0 |
| 1 x RS-232 | 4 x USB 3.0 |
- ◆ Internal I/O Interface

| | |
|----------------------------------|--|
| 1 x KB/MS (1x6 pin) | 2 x SATA 6Gb/s (RAID 0/1/5/10 support) |
| 1 x LPT(2x13 pin, P=2.54) | 4 x SATA 3Gb/s (RAID 0/1/5/10 support) |
| 1 x RS-422/485 (1x4 pin, P=2.00) | 8 x USB 2.0 (2x4 pin, P=2.54) |
| 4 x RS-232 (2x20 pin, P=2.54) | |
- ◆ 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)
- ◆ Expansions

| | |
|-------------------|------------------|
| 1 x PCIe x16 slot | 2 x PCIe x1 slot |
| 1 x PCIe x4 slot | 3 x PCI slot |
- ◆ Watchdog Timer
Software programmable supports 1~255 sec. system reset
- ◆ Digital I/O
8-bit digital I/O (2x5 pin)
- ◆ Fan Connector
1 x CPU smart fan (1x4 pin)
2 x System fan (1x3 pin)
- ◆ Power Supply
ATX power supply
- ◆ Power Consumption
3.3V@1.39A, 5V@4.63A, Vcore@2.25A, 12V@0.47A, 5VSB@0.14A
(Intel® 2.4GHz CPU with four 1333 MHz 2 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 305 mm
- ◆ Weight: GW:1200g/NW: 700g

Evolutionary I/O Features for Display and USB Capabilities

1. Three independent displays improve multimedia application with different contents.
2. More compatibility support for USB devices with the innovation native USB 3.0 interface.

Configuration of three independent displays



| # | 1 | 2 | 3 | 4 |
|----|------|------|------|-------|
| #1 | HDMI | HDMI | HDMI | VGA |
| #2 | HDMI | HDMI | HDMI | DVI-D |

Native USB 3.0 Interface



Features

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

Packing List

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

Ordering Information

| Part No. | Description |
|---------------------|--|
| IMBA-Q770-R10 | ATX 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, SATA 6Gb/s, HD Audio and RoHS |
| 19800-000049-RS | LPT cable |
| 19800-000075-RS | PS/2 KB/MS Y-cable with bracket, 220mm |
| 19800-003100-300-RS | Dual-port USB cable 300/300mm |
| 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 |