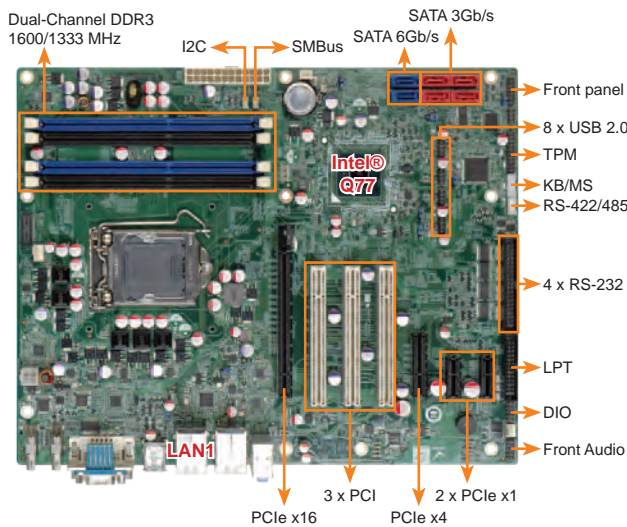


IMBA-Q770

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



Specifications

- ◆ CPU
LGA1155 socket supports Intel® Core™ i7/i5/i3 quad/dual core processor
- ◆ System Chipset
Intel® Q77
- ◆ Memory
Four 240-pin 1600/1333MHz dual-channel DDR3 SDRAM unbuffered DIMMs supported (system max. 32GB)
- ◆ BIOS
UEFI BIOS
- ◆ Ethernet
LAN1: Intel® 82583V PCIe controller
LAN2: Intel® 82579L PHY with Intel® AMT 8.0 supported
- ◆ 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 the Intel® Q77 (up to 1920 x 1200 @60Hz)
DVI-I integrated in the Intel® Q77 (up to 1920 x 1200 @60Hz)
- ◆ Super I/O
Fintek F81866
- ◆ Audio
Realtek ALC662 HD audio codec (Line-in, Line-out, Mic)
- ◆ I/O interface
 - 5 x RS-232 1 x RS-422/485
 - 1 x LPT 1 x 6-pin wafer for PS/2 KB/MS
 - 4 x USB 3.0 (rear I/O) 10 x USB 2.0 (2 on rear, 8 by pin header)
 - 2 x SATA 6Gb/s (RAID 0/1/5/10 support)
 - 4 x SATA 3Gb/s (RAID 0/1/5/10 support)
- ◆ Front Audio
2 x 5-pin header
- ◆ Front Panel
1 x Front panel connector (power LED, HDD LED, speaker, power button, reset button)
- ◆ TPM
2 x 10-pin header
- ◆ SMBus
1 x 4-pin wafer
- ◆ I2C
1 x 4-pin wafer
- ◆ Expansions
 - 1 x PCIe x16 slot 1 x PCIe x4 slot
 - 2 x PCIe x1 slot 3 x PCI slot
- ◆ Watchdog Timer
Software programmable supports 1~255 sec. system reset
- ◆ Digital I/O
8-bit Digital I/O (4-bit input, 4-bit output)
- ◆ Fan Connector
1 x 4-pin CPU fan connector
2 x 3-pin system fan connector
- ◆ 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 1333MHz 2GB 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

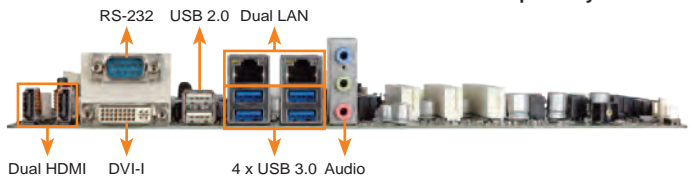
1. Three independent displays improve multimedia application with different contents.
2. More compatibility support for USB devices with the innovation native USB 3.0 interface.

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



Intel®
AMT 8.0

DDR3
1333

Triple
Display

USB
3.0

SATA 6Gb/s

Gigabit
Ethernet
PCIe GbE

Features

1. LGA1155 Intel® Core™ i7/i5/i3 processor supported
2. Dual-channel DDR3 1600/1333MHz supports up to 32GB
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 (P/N: 33Z00-000031-RS) | |
| 4 x SATA cable (P/N: 32000-062800-RS) | 1 x Mini jumper pack |
| 1 x I/O shielding | 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 |
| 19800-003100-300-RS | Dual-port USB cable 300/300mm |
| 32205-003800-300-RS | RS-422/485 cable, 200mm |
| 32205-001203-200-RS | Quad-port RS-232 cable without bracket, 400/400/400/400mm |
| 32102-000100-200-RS | SATA power cable |
| 19800-000075-RS | PS/2 KB/MS Y-cable with bracket, 220mm |
| 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 |
| 19800-000049-RS | LPT cable |
| TPM-IN01-R11 | 20-pin Infineon TPM module, SW management tool, firmware V3.17 |

1
 Industrial Computing Solutions

2
 Video Capture Solutions

3
 Embedded Computing Solutions

4
 Automation Control

5
 ORing Network Communication

6
 Power Supply/ Peripherals

7
 Panel Solutions Introduction