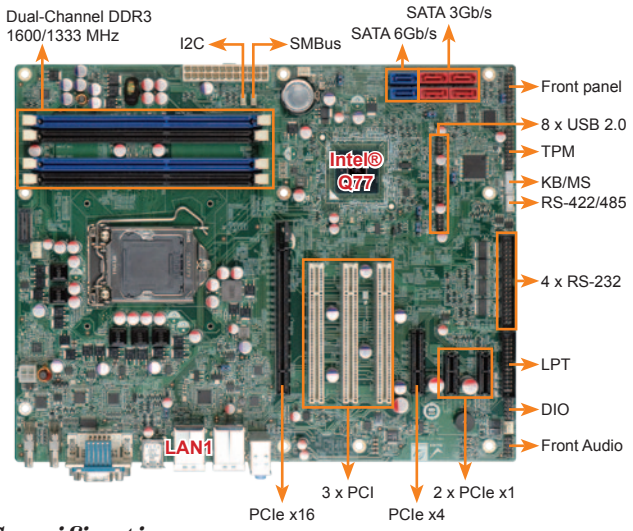
IMBA-Q770

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



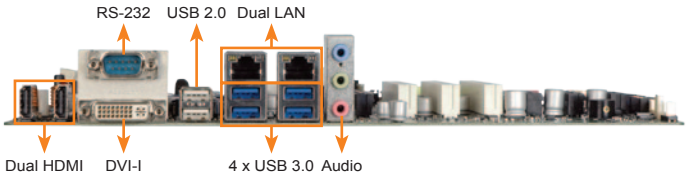
Evolutionary I/O features for display and USB capabilities

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

3 Displays Combination Table			
#1	HDMI	HDMI	VGA
#2	HDMI	HDMI	DVI-D

Native USB 3.0 Interface



One Key Recovery | Native PCIe Gen.3 | Intel® AMT 8.0 | DDR3 1333 | Triple Display | USB 3.0 | SATA 6Gb/s | PCIe GbE

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
  1 x TPM connector (2x10 pin)
- 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

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