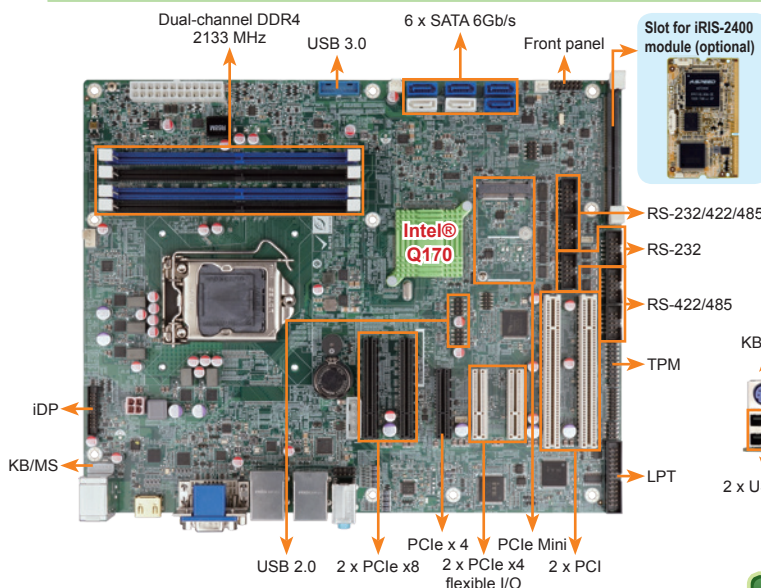


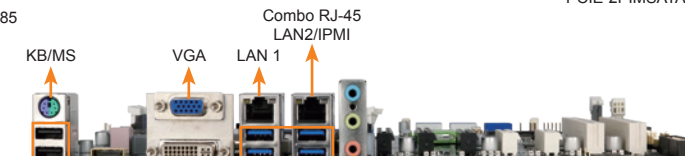
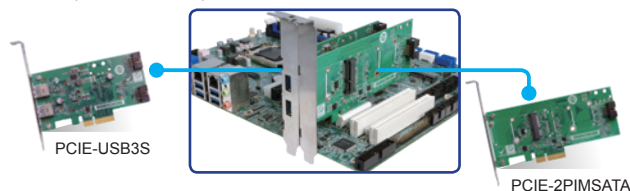
IMBA-Q170-i2

ATX motherboard supports 14nm LGA1151 Intel® CPU, Intel® Q170, DDR4, triple independent display VGA/ DVI-D/ HDMI 2.0, dual Intel® PCIe GbE, USB 3.0, SATA 6Gb/s, HD Audio, IPMI 2.0 and RoHS



Flexible I/O support

IEI USB 3.0 & mSATA/PCIe Mini expansion card
The expansion card can provide more choices to meet users demand



Specifications

- ◆ CPU: LGA 1151 socket supports Intel® 6th/7th generation Core™ i7/i5/i3, Pentium® or Celeron® processor
- ◆ Chipset: Intel® Q170
- ◆ Memory: Four 288-pin 2133 MHz dual-channel DDR4 SDRAM unbuffered DIMMs support up to 64 GB
- ◆ BIOS: UEFI BIOS
- ◆ Graphics Engine: Intel® HD Graphics Gen 9 engine with 16 low-power execution units, supports DX11/12, OpenGL 4.3/4.4 and OpenCL2.x, ES 2.0
- ◆ Display Output: Triple independent display: 1 x VGA (up to 1920x1200@60 Hz), 1 x DVI-D (up to 1920x1200@60Hz), 1 x HDMI 2.0 (up to 4096x2160@60Hz), 1 x iDP interface for HDMI, LVDS, VGA, DVI, DP (up to 3840x2160@60Hz)
- ◆ Ethernet: LAN1: Intel® I219LM PCIe controller; LAN2: Intel® I210AT PCIe with Intel® AMT 11.0 support
- ◆ External I/O Interface: 2 x USB 2.0, 4 x USB 3.0
- ◆ Internal I/O Interface: 1 x KB/MS (1x6 pin), 1 x LPT (2x13 pin, P=2.54), 2 x USB 3.0 (2x10 pin, P=2.0), 2 x RS-232/422/485 (2x5 pin, P=2.54), 4 x RS-232 (2x5 pin, P=2.54), 4 x USB 2.0 (2x4 pin, P=2.0), 6 x SATA 6Gb/s (RAID 0/1/5/10 supported)
- ◆ SMBus: 1 x SMBus (1x4 pin)
- ◆ I²C: 1 x I²C (1x4 pin)
- ◆ TPM: 1 x TPM (2x10 pin)
- ◆ Audio: Realtek ALC662 HD codec supports 5.1-channel; 3 x Audio jacks (line-out, line-in, mic-in) on rear IO; 1 x Front audio (2x5 pin)
- ◆ Front Panel: 1 x Front panel (2x7 pin, power LED, HDD LED, speaker, power button, reset button)
- ◆ LAN LED: 2 x LAN LED (1x2 pin)
- ◆ Expansion: 1 x Full-size PCIe Mini card slot (support mSATA), 2 x PCI slot, 2 x PCIe x 8 slot (Gen3), 3 x PCIe x 4 slot (Gen3)
- ◆ iRIS Remote Management Module: 1 x iRIS-2400 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 smart fan (1x3 pin)
- ◆ Chassis Open: 1 x Chassis intrusion (1x2 pin)
- ◆ Power Supply: ATX/AT power supply
- ◆ Power Consumption: 3.3V@1.65A, 5V@3.4A, 12V@8.58A, 5VSB@3.4A (Intel® Core™ i7 6700K 4.0GHz CPU with 32 GB (four 4 GB) 2133 MHz DDR4 memory)
- ◆ Operating Temperature: -20°C ~ 60°C
- ◆ Storage Temperature: -30°C ~ 70°C
- ◆ Operating Humidity: 5% ~ 95%, non-condensing
- ◆ Dimensions: 244mm x 305mm
- ◆ Weight: GW: 1200g / NW: 700g
- ◆ CE/FCC compliant

Features

- LGA 1151 Intel® 6th/7th generation Core™ i7/i5/i3, Pentium® or Celeron® processor supported
- Dual-channel DDR4 2133 MHz
- Support triple display with HDMI, DVI and VGA
- Support USB 3.0, SATA 6Gb/s and PCI Express Gen3
- Support IPMI 2.0 via iRIS-2400 module
- IEI One Key Recovery solution allows you to create rapid OS backup and recovery

Packing List

| | |
|--|-------------------------|
| 1 x IMBA-Q170-i2 single board computer | 1 x One Key Recovery CD |
| 1 x I/O shielding | 1 x QIG |
| 2 x SATA cable | 1 x Utility CD |

Ordering Information

| Part No. | Description |
|---------------------|---|
| IMBA-Q170-i2-R10 | ATX motherboard supports 14nm LGA1151 Intel® CPU, Intel® Q170, DDR4, triple independent display VGA/ DVI-D/ HDMI 2.0, dual Intel® PCIe GbE, USB 3.0, SATA 6Gb/s, HD Audio, IPMI 2.0 and RoHS |
| IMBA-Q170-ECO-R10 | ATX motherboard supports 14nm LGA1151 Intel® CPU, Intel® Q170, DDR4, triple independent display VGA/ DVI-D/ HDMI 2.0, dual Intel® PCIe GbE, USB 3.0, SATA 6Gb/s, HD Audio, ECO packing and RoHS |
| iRIS-2400-R10 | IPMI 2.0 adapter card with AST2400 BMC chip for DDR3 SO-DIMM socket interface |
| PCIES-2PIMSATA-R10 | Peripheral card for flexible I/O, 1 x PCIe Mini, 2 x mSATA expansion |
| PCIES-USB3-R10 | Peripheral card for flexible I/O, USB 3.0 expansion |
| 19800-000049-RS | LPT flat cable, 240mm, P=2.54 |
| 19800-000075-RS | PS/2 KB/MS cable with bracket, 220mm, P=2.0 |
| 19800-003100-100-RS | Dual port USB cable with bracket, 30mm, P=2.54 |
| 19800-010500-200-RS | USB 3.0 cable 457mm with bracket |
| 32102-000100-200-RS | SATA power cable, MOLEX 5264-4P to SATA15P |
| 32205-000702-100-RS | RS-232 cable, 230mm, P=2.54 |
| CF-1156C-R20 | LGA1155/LGA1156 cooler kit, 1U chassis compatible, 45W |
| CF-1156D-R20 | LGA1155/LGA1156 cooler kit, 1U chassis compatible, 65W |
| CF-115XE-R10 | High-performance LGA1155/1156 cooler kit, 95W |
| DP-DP-R10 | DisplayPort to DisplayPort converter board (for IEI iDP connector) |
| DP-DVI-R10 | DisplayPort to DVI-D converter board (for IEI iDP connector) |
| DP-HDMI-R10 | DisplayPort to HDMI converter board (for IEI iDP connector) |
| DP-LVDS-R10 | DisplayPort to 24-bit dual-channel LVDS converter board (for IEI iDP connector) |
| DP-VGA-R10 | DisplayPort to VGA converter board (for IEI iDP connector) |
| TPM-IN02-R20 | 20-pin Infineon TPM 2.0 module, software management tool, firmware v5.5 |

1

Industrial Computing Solutions

2

Video Capture Solutions

3

Industrial System

4

Industrial Computer Chassis

5

Power Supply/ Peripherals