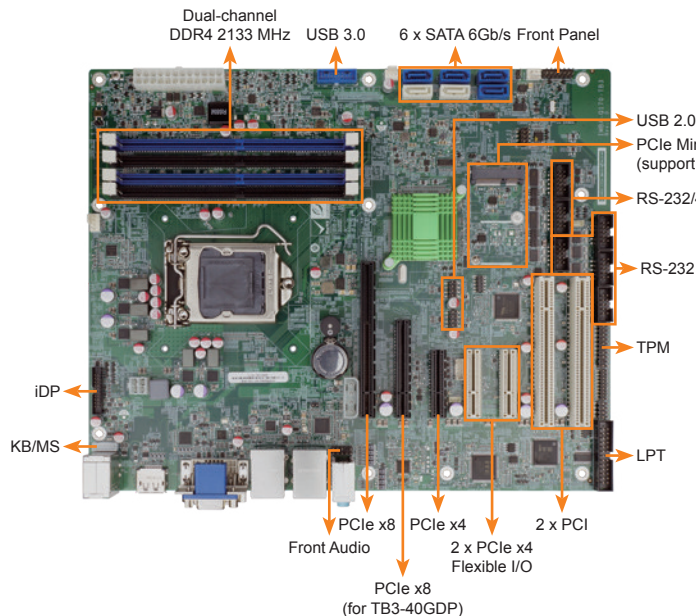
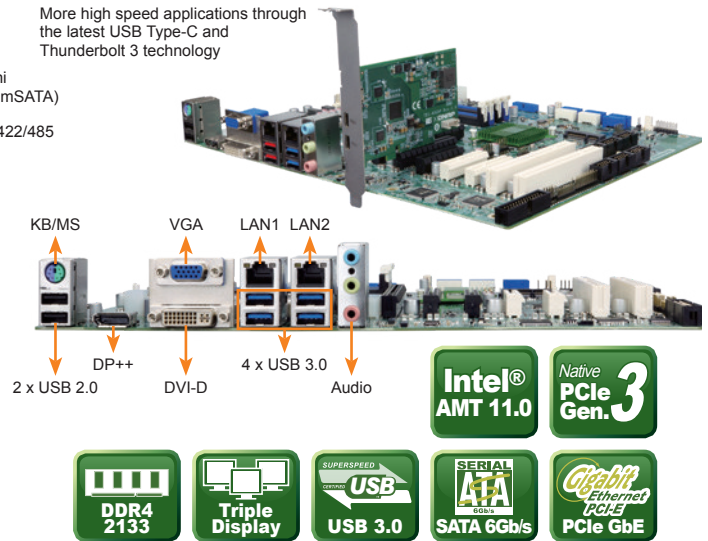


ATX-Mainboard



Thunderbolt 3 Add-on Card Support

Dual Thunderbolt 3 by PCIe x4 card with Intel® Alpine Ridge DSL6540
More high speed applications through the latest USB Type-C and Thunderbolt 3 technology



Specifications

- ◆ CPU
LGA 1151 socket supports 6th/7th generation Intel® 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 Engines with 16 low-power execution units, supports DX11/12, OpenGL 4.3/4.4, 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 DP++ (up to 4096x2304@60Hz)
1 x iDP interface for HDMI, LVDS, VGA, DVI, DP (up to 4096x2304@60Hz)
- ◆ Ethernet
LAN1: Intel® I219LM PCIe controller
LAN2: Intel® I211AT PCIe with Intel® AMT 11.0 support
- ◆ 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 LPT (2x13 pin, P=2.54)
2 x RS-232/422/485 (1x4 pin, P=2.54) 4 x RS-232 (2x5 pin, P=2.54)
2 x USB 3.0 (2x10 pin, P=2.0) 4 x SATA 6Gb/s (RAID 0/1/5/10 supported)
4 x USB 2.0 (2x4 pin, P=2.0)
- ◆ SMBus: 1 x SMBus (1x4 pin)
- ◆ TPM: 1 x TPM (2x10 pin)
- ◆ Audio
Realtek ALC662 HD Audio Codec supports 5.1 channel
3 x Audio jacks (line-out, line-in, mic-in) on rear I/O
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)
- ◆ I²C: 1 x I²C (1x4 pin)
- ◆ Expansion
1 x Full-size PCIe Mini card slot 1 x PCIe x4 slot (supports Thunderbolt 3 card)
2 x PCI slot 2 x PCIe x4 slot
2 x PCIe x8 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) 1 x System smart fan(1x4 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 32GB 2133MHz DDR4 memory)
- ◆ Operating Temperature: -20°C ~ 60°C
- ◆ Operating Humidity: 5% ~ 95%, non-condensing
- ◆ Dimensions: 244mm x 305mm
- ◆ Weight: GW:1200g, NW: 700g
- ◆ CE/FCC compliant

Features

- 14nm LGA1151 Intel® 6th/7th Gen processor supported
- 2133 MHz dual-channel DDR4
- Intel® PCIe GbE
- Support for triple display with DP, DVI and VGA
- Support PCI Express generation 3.0 at 8GT/s I/O bandwidth
- USB 3.0 and SATA 6Gb/s
- Support Thunderbolt 3 card
- IEI One Key Recovery solution allows you to create rapid OS backup and recovery

Packing List

1 x IMBA-Q170-TB3-R10	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-TB3-R10	ATX motherboard supports 14nm LGA1151 Intel® Skylake CPU, Intel® Q170 chipset, DDR4, triple independent displays with VGA, DVI-D, DP, dual Intel® PCIe GbE, USB 3.0, SATA 6Gb/s, HD Audio and RoHS
TB3-40GDP-R10	PCI Express Thunderbolt expansion card with Intel® DSL6540, dual thunderbolt 3 port (USB Type-C), RoHS
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