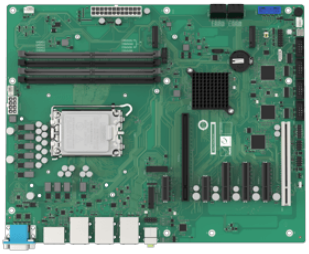
# IMBA-BTL-Q670

ATX motherboard supports LGA1700 socket supports 12th/13th/14th generation Intel® Core™ i9/i7/i5/i3/Pentium®/Celeron® Processor & Intel Core Processors (Series 2) (Bartlett Lake S) (up to 125W TDP CPU)



## Features

» LGA1700 socket supports 12th/13th/14th generation Intel® Core™ i9/i7/i5/i3/Pentium®/Celeron® Processor & Intel Core Processors (Series 2) (Bartlett Lake S) (up to 125W TDP CPU)

» Four 288-pin 4400 MHz Dual-Channel DDR5 SDRAM Unbuffered DIMMs supported up to 192GB

» Triple independent display via HDMI, DP and iDPM

» Support Dual Intel® I226V/I226 LM 2.5GbE controller

» Support PCIe Gen4 x1, PCIe Gen4 x4, PCIe Gen4 x16 and PCI expansion

## Specifications

| | |
|---|---|
| Form Factor | |
| Form Factor | ATX |
| System | |
| CPU | LGA1700 socket supports 12th/13th/14th generation Intel® Core™ i9/i7/i5/i3/Pentium®/Celeron® Processor & Intel Core Processors (Series 2) (Bartlett Lake S) (up to 125W TDP CPU) |
| Chipset | Intel® Q670/Q670E |
| Memory | Four 288-pin 4400 MHz Dual-Channel DDR5 SDRAM Unbuffered DIMMs |
| Memory Max. | up to 192GB |
| Cooling method / System Fan | 1 x CPU fan connector (1x4 pin) |
| | 2 x System fan connector (1x4 pin) |
| Physical Characteristics | |
| Dimensions (LxWxH) (mm) | 244mm x 305mm |
| Net Weight | GW: 1200g / NW: 700g |
| Storage | |
| Storage | 4 x SATA : 6Gb/s |
| I/O Interface | |
| Display Output | 1 x Display Port : 1.4 (up to 4K@60Hz) |
| | 1 x HDMI™ : 1.4 (up to 4K @30Hz) |
| | 1 x iDPM : 3040 slot (only for IEI eDP/LVDS/VGA module) |
| I/O Interface | 1 x DIO : 12-bit digital I/O (2x7 pin) |
| | 2 x External RS-232/422/485 : RS-485 support AFC |
| | 2 x External USB 3.2 Gen1x1 : Type-A, 5Gb/s |
| | 4 x External USB 3.2 Gen2x1 : Type-A, 10Gb/s |
| | 4 x Internal RS-232 : 2x5 pin, P=2.54 |
| | 4 x Internal USB 2.0 : 2x4 pin, P=2.54 |
| | 2 x Internal USB 3.2 Gen1x1 : 2x10 pin, P=2.00, 5Gb/s |
| Expansion | 1 x PCI Slot |
| | 2 x PCIe x1 : Gen3 x 1 |
| | 1 x PCIe x16 : Gen4 x 16 |
| | 3 x PCIe x4 : Gen3 x 4 open-end |
| Power | |
| Power Consumption | TBD |

| | |
|---|---|
| Power Supply | ATX/AT power supply |
| | Support AT/ATX mode |
| | ErP/EuP Compliant |
| Environment | |
| Operating Temperature | -10°C ~ 60°C |
| Storage Temperature | -30°C ~ 70°C |
| Humidity | 5% ~95%, non-condensing |
| Card Slot Interface | |
| M.2 | 1 x M.2 M Key (2280, PCIe x4) NVMe support |
| | 1 x M.2 M Key (2280, PCIe x2 for SSD) NVMe support |

## Ordering Information

| | |
|---|---|
| IMBA-BTL-Q670-R10 | ATX motherboard supports LGA1700 12/13/14th Intel® Core™ i9/i7/i5/i3, Celeron® and Pentium® processor & Intel Core (Series 2)(Bartlett Lake S), DDR5, Triple displays, dual LAN, M.2, USB 3.2, SATA 6Gb/s and RoHS |

## Packing List

| | |
|---|---|
| 1 x IMBA-BTL-Q870 single board computer | 1 x I/O Shielding |
| 1 x SATA cable | 1 x QIG |