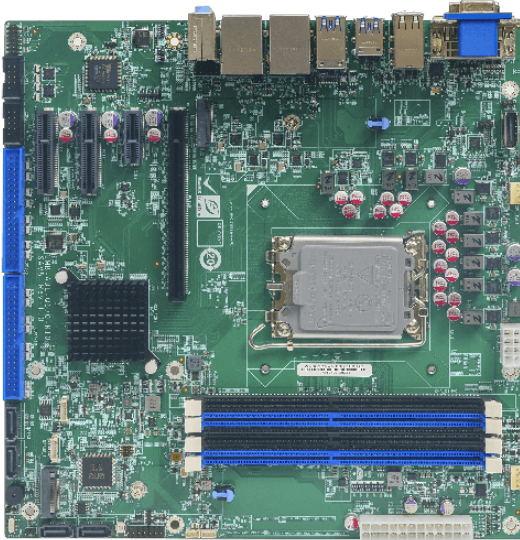


# IMB-ADL-Q670

micro-ATX motherboard supports LGA1700 Intel® 12th/13th Generation Core™ i9/i7/i5/i3, Pentium® and Celeron® processor, DDR4, triple independent displays, dual 2.5GbE LAN, M.2, USB 3.2, SATA 6Gb/s, HD Audio and RoHS



## Features

- » LGA1700 Intel® 12th/13th Generation Core i9/i7/i5/i3, Pentium and Celeron processor (up to 125W)
- » Dual-channel DDR4 3200MHz supported up to 128GB
- » Support triple independent display via DVI,VGA and internal DP++
- » Support one PCIe x16, two PCIe x4 and one PCIe x1 expansions
- » Support two M.2 M keys and four SATA for storage

## Specifications

|                                 |   |
|---------------------------------|---|
| <b>Form Factor</b>              |   |
| Form Factor                     | micro ATX   |
| <b>System</b>                   |   |
| CPU                             | LGA1700 socket supports 12th/13th generation Alder Lake-S/Raptor Lake-S Intel® Core™ i9/i7/i5/i3/Pentium®/Celeron® Processor (up to 125W TDP CPU) |
| Chipset                         | Intel® Q670/Q670E   |
| Memory                          | Four 288-pin 3200 MHz Dual-Channel DDR4 SDRAM Unbuffered DIMMs supported up to 128GB  |
| Memory Max.                     | 128GB   |
| Cooling method / System Fan     | 1 x CPU fan connector (1x4 pin)<br>1 x System fan connector (1x4 pin)   |
| <b>Physical Characteristics</b> |   |
| Dimensions (LxWxH) (mm)         | 244mm x 244mm   |
| Net Weight                      | 700g  |
| <b>Storage</b>                  |   |
| Storage                         | 4 x SATA : RAID 0/1/5/10 supported<br>2 x M.2(NGFF) -<br>1 x M Key (2242/2280, PCIe x4)<br>1 x M Key (2242/2280, PCIe x2)                         |
| <b>I/O Interface</b>            |   |
| Display Output                  | 1 x VGA : up to 1920x1200@60Hz<br>1 x DVI-I : up to 1920x1200@60Hz<br>1 x DP++ : up to 4096 x 2304 @60Hz  |
| Ethernet                        | 2 x LAN -<br>LAN1: Intel® I225LM 2.5GbE controller<br>LAN2: Intel® I225-V 2.5GbE controller   |
| Audio                           | HD Audio -<br>Realtek ALC888S HD Audio codec supports 7.1-channel<br>3 x Audio jacks (line-out, line-in, mic-in) on rear IO                       |

|                       |   |
|-----------------------|---|
|                       | 1 x Front audio (2x5 pin)   |
| I/O Interface         | 8 x Internal RS-232 : 2x20 pin, P=2.54  |
|                       | 2 x Internal RS-232/422/485 : 2x5 pin, P=2.54   |
|                       | 4 x External USB 2.0 (Type A)   |
|                       | 6 x External USB 3.2 Gen1x1 : 5Gb/s(Type A)   |
|                       | 4 x External USB 3.2 Gen2x1 : 10Gb/s(Type A)  |
|                       | 1 x I <sup>2</sup> C : 1x4 pin  |
| Expansion             | 1 x PCIe x16 : Gen4 slot with x16 Signal  |
|                       | 2 x PCIe x4 : Gen4 open-end   |
|                       | 1 x PCIe x1 : Gen3  |
|                       | 2 x M.2(NGFF) -<br>1 x M Key (2242/2280, PCIe x4 ) NVMe support<br>1 x M Key (2242/2280, PCIe x2 for SSD) NVMe support          |
| <b>Power</b>          |   |
| Power Consumption     | 3.3V@1.36A, 5V@11.85A, 12V@5.75A, 5VSB@0.38A (Intel® Core™ i9-12900E CPU with two 32 GB 3200 MHz DDR4 memory, EuP mode enabled) |
| Power Supply          | ATX/AT power supply   |
|                       | Support AT/ATX mode   |
|                       | ErP/EuP Compliant   |
| <b>Environment</b>    |   |
| Operating Temperature | 0°C~60°C  |
| Storage Temperature   | -30°C~70°C  |
| Humidity              | 5% ~95%, non-condensing   |

## Ordering Information

|                  |  |
|------------------|--|
| IMB-ADL-Q670-R10 | micro-ATX motherboard supports LGA1700 Intel® 12th/13th Generation Core™ i9/i7/i5/i3, Pentium® and Celeron® processor, DDR4, triple independent displays, dual 2.5GbE LAN, M.2, USB 3.2, SATA 6Gb/s, HD Audio and RoHS |
|------------------|--|

## Packing List

|  |                |
|--|----------------|
| 1 x IMB-ADL-Q670 single board computer | 2 x SATA cable |
| 1 x I/O shielding                      | 1 x QIG        |