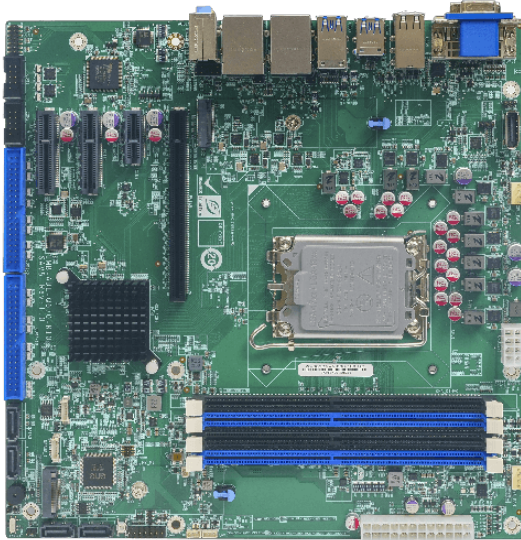


# IMB-ADL-Q670

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) 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 2 x M.2(NGFF) - 1 x M Key (2242/2280, PCIe x4) 1 x M Key (2242/2280, PCIe x2)
<b>I/O Interface</b>	
Display Output	1 x VGA : up to 1920x1200@60Hz 1 x DVI-I : up to 1920x1200@60Hz 1 x DP++ : up to 4096 x 2304 @60Hz
Ethernet	2 x LAN - LAN1: Intel® I225LM 2.5GbE controller LAN2: Intel® I225-V 2.5GbE controller
Audio	HD Audio - Realtek ALC888S HD Audio codec supports 7.1-channel 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) - 1 x M Key (2242/2280, PCIe x4 ) NVMe support 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
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## Packing List

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