

# IMBA-ADL-Q670

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, iAUDIO 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 HDMI, DP and iDPM
- » Support one PCIe x16, three PCIe x4, two PCIe x1, one PCI expansions
- » Support two M.2 M keys and four SATA for storage

## Specifications

Form Factor	
Form Factor	ATX Motherboard
System	
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) 2 x System fan connector (1x4 pin)
Physical Characteristics	
Dimensions (LxWxH) (mm)	244mm x 305mm
Net Weight	700g
Storage	
Storage	2 x M.2(NGFF) - 1 x M Key (2242/2280, PCIe x4 ) 1 x M Key (2242/2280, PCIe x2 ) 4 x SATA : RAID 0/1/5/10 supported
I/O Interface	
Display Output	1 x Display Port : up to 4096 x 2304 @60Hz 1 x HDMI : up to 4096 x 2304 @30Hz 1 x iDPM : support iEi eDP/ LVDS/ VGA module
Ethernet	2 x LAN - LAN1: Intel® I225V 2.5GbE controller (CO-LAY I225-LM support vPro) LAN2: Intel® I225V 2.5GbE controller (CO-LAY I225-LM support vPro)
Audio	1 x HD Audio : iAUDIO supports IEI AC-KIT-888S Audio Kit (2 x 5 pin)
I/O Interface	2 x External RS-232/422/485 : RS-485 support AFC 2 x External USB 3.2 Gen1x1 : 5Gb/s (Type A) 4 x External USB 3.2 Gen2x1 : 10Gb/s (Type A) 4 x Internal RS-232 : 2 x 5 pin, P=2.54 4 x Internal USB 2.0 : 2 x 4 pin, P=2.54 2 x Internal USB 3.2 Gen1x1 : 2 x 10 pin, P=2.00 pin wafer (5Gb/s)
Expansion	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
	1 x PCI Slot
	2 x PCIe x1 (Gen3)
	1 x PCIe x16 (Gen4 slot with x16 Signal)
	3 x PCIe x4 (Gen4 open-end)
<b>Power</b>	
Power Consumption	3.3V@1.04A, 5V@10.38A, 12V@5.76A, 5VSB@0.39A (Intel® Core™ i9-12900E CPU with 8 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

IMBA-ADL-Q670-R10	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, iAUDIO and RoHS
-------------------	--

## Packing List

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