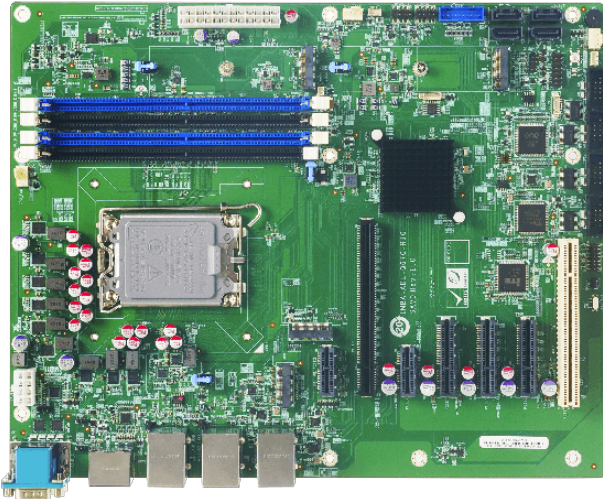


IMBA-ADL-Q670

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) |
| Power | |
| 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 |
| Environment | |
| Operating Temperature | 0°C~60°C |
| Storage Temperature | -30°C~70°C |
| Humidity | 5% ~95%, non-condensing |

Ordering Information

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|-------------------|--|
| 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 |