



MAX-Q670A- Micro ATX Motherboard with Intel® 13th 12th Generation Processor Support, Intel Q670E Chipset, and RAID Support

The MAX-Q670A is a Micro ATX motherboard equipped with the Intel® Q670E chipset allowing for incredible performance with Intel® 13th and 12th generation Core™ processor support. The vastly expanded storage support along with 5th generation PCIe speeds and Micro ATX form factor allows for deployment in tighter space without sacrificing any power. The MAX-Q670A features extensive I/O and expansion capabilities, making it an excellent and powerful computing solution.

SPECIFICATIONS

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| CPU | 12th/13th Generation Intel® Core™ LGA1700 Socket Processors (formerly Alder Lake/Raptor Lake), TDP Max 125W |
| CPU Socket | LGA1700 |
| Memory Type | 288-pin DDR5 4000MHz DIMM |
| Memory Slots | 4 |
| Maximum Memory Supported | 128GB |
| Chipset | Intel® Q670E |
| Integrated Graphics | Intel® UHD Graphics |
| Watchdog Timer | 1~ 255 steps, programmable |
| Video | 1x HDMI 2.0, 1x DisplayPort 1.4, 1x VGA, 1x LVDS/eDP |
| LAN Ports | 1x Intel® PHY I219-LM GbE (supports Intel® AMT 12.0), 1x Intel® I210-AT GbE, 2x Intel® I225-LM 2.5GbE (BOM Option) |
| Serial ATA(SATA) | 8 x SATA III (Supports RAID 0, 1, 5, 10) |
| Storage | 2 x M.2 M-Key 2242/2280 PCIe Gen4 x4 (supports RAID 0, 1, 5, 10) |

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| TPM | Onboard TPM 2.0 |
| Extended Interface | 2 x PCIe Gen5 x16(x8 when dual-use), 1x PCIe Gen3 x4, 1x PCIe Gen4 x4, 1x M.2 B-Key 2242/3042/3052 PCIe Gen3 x1/USB 3.2 Gen 1, 1x M.2 E-Key 2230 PCIe Gen3 x1/USB 2.0 |
| Rear I/O | 4 x USB 3.2 Gen2, 1x USB Type-C (BOM Option), 1x HDMI, 1x VGA, 1x DP, 2 x LAN (4 x LAN via BOM Option), 1x RS-232/422/485, 1x Line-In, 1x Line-Out, 1x Mic-In |
| Internal I/O | 1x USB 3.0 Header, 1x USB 2.0 Header, 1x USB 3.2 Gen1x1 Type A, 5 x RS-232, 1 x DIO, 8 x SATA III |
| Audio | Realtek® ALC897 HD Audio |
| Power Requirement | 24-pin ATX main power connector, 8-pin ATX 12V power connector |
| Dimensions | W: 9.6" x D: 9.6" (244 mm x 244 mm) |
| Operating Temperature | 0 ~ 60° C (32 ~ 140° F) |
| Storage Temperature | -40 ~ 85° C (-40 ~ 185° F) |
| Relative Humidity | 0 ~ 90%, non-condensing |
| OS Software Supported | Windows 10 64-bit, Windows 11 64-bit |
| Global P/N / SKU | 2809183 |

Ordering Options

MAX-Q670A-A10-2L (SKU#2809183A): Micro ATX Motherboard with Intel® Q670E Chipset and 2 LAN Ports
 MAX-Q670A-A10-4LC (SKU#2809183B): Micro ATX Motherboard with Intel® Q670E Chipset, 4 LAN Ports, and 1 USB Type-C Port