

ATX

ATX-Q670B

Preliminary

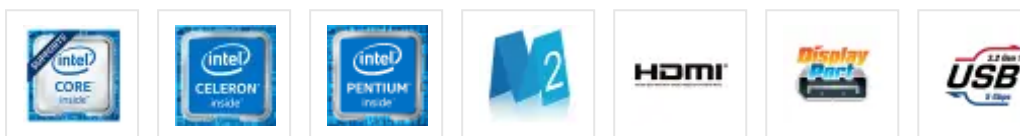
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Key Features

ATX with Intel® Q670 Chipset, support 14th/13th/12th Generation Intel® Core™ Processors, Dual channel DDR5 memory, 6 x COM, 10 x USB, 4 x SATA 6Gb/s, up to 7 x PCIe expansion slots

- ATX form factor
- Support 14th/13th/12th Generation Intel® Core™ Processors
- Intel® Q670 Chipset
- Dual Channel DDR5, 4 x DIMMs
- 2 x 2.5GbE LAN Ports

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Specification

Specification

Form Factor

ATX
305W x 244D (mm)

CPU

Support for 14th/13th/12th Generation Intel® Core™ i9/i7/i5/i3, Pentium® & Celeron® processors in the LGA1700 package
TDP under 125W

Socket

1 x LGA 1700

Chipset

Intel® Q670 Chipset

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Memory

4 x DDR5 DIMM sockets, Max. Capacity 128 GB
Support Dual channel DDR5 4800 MHz memory modules

Ethernet

2 x 2.5GbE LAN Ports (Intel® I226V & I226LM)

Video

Integrated Graphics Processor – depends on CPU:
2 x HDMI 2.0 port, supporting a maximum resolution of 4096x2160 @60Hz
1 x DP port, supporting a maximum resolution of 4096x2160 @60Hz
1 x D-sub port, supporting a maximum resolution of 1920x1080 @60Hz

(4 independent display outputs)

Audio

Realtek® ALC897

Storage

4 x SATA 6Gb/s Ports

RAID

RAID 0/1/5/10

Expansion Slots

1 x PCIe x16 (Gen 4x16)(PCIEX16_1)
* The PCIEX16_1 slot shares bandwidth with the PCIEX16_2 slot.
* The PCIEX16_1 slot operates at up to x8 mode when a device is installed in the PCIEX16_2 slot.
1 x PCIe x16 (Gen 4x8)(PCIEX16_2)
2 x PCIe x4 (Gen 3x4)
3 x PCIe x1
1 x 2280/2242 M.2 M-Key (PCIe Gen4x4, SATA 6Gb/s)(M2M_1)
1 x 2280/2242 M.2 M-Key (PCIe Gen4x4)(M2M_2)
1 x 2230 M.2 E-Key

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Internal I/O

- 1 x 24-pin ATX main power connector
- 1 x 8-pin ATX 12V power connector
- 1 x CPU fan header
- 2 x System fan headers
- 1 x Front panel header
- 1 x Front panel audio header
- 4 x USB 2.0 headers
- 2 x USB 3.2 Gen 1 headers
- 1 x COM header (RS-232/422/485 & RI/5V/12V)
- 4 x COM headers (RS-232)
- 1 x GPIO (8 bits) & SMBus header
- 1 x Clear CMOS jumper
- 1 x Buzzer
- 1 x AT/ATX mode select jumper

Rear I/O

- 3 x Audio Jacks (Line in, Line out, Mic in)
- 1 x COM Port (RS-232/422/485 & RI/5V/12V)
- 2 x HDMI
- 1 x Display Port
- 1 x VGA
- 2 x RJ45 LAN Ports
- 4 x USB 3.2 Gen 1

TPM

Onboard TPM 2.0 security chip
INFINEON SLB9670VQ2.0

OS Compatibility

Windows 10/11 (x64)

Operating Properties

Operating temperature: 0°C to 60°C
Operating humidity: 0-90% (non-condensing)
Non-operating temperature: -40°C to 85°C
Non-operating humidity: 0%-95% (non-condensing)

Packing Content

Carton size: 679 x 430 x 399 (mm)
Packing Capacity: 10pcs

Single Box size: 360 x 330 x 80 (mm)

Including:
IO Shield x 1 (P/N: 12AIO-MQ670A-00R)
SATA Cable x 2 (P/N: 12CF1-2SAT1B-01R)

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Order Information

9MQ670BXMR-SI (Box packing)

Optional Kit

CPU Cooler : 12SF1-SK1700-01R (For CPU TDP 125W, Push-pin type)

CPU Cooler : 25ST0-037820-Y0R (For CPU TDP 65W)

CPU Cooler Backplate : 12KRH-0A1700-00R (Used with P/N: 25ST0-037820-Y0R)

VR Heatsink : 12SP2-090027-00R (Suggest to be used if CPU real power is over 100W)

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