

ROCKBOARD-ATX

ATX Motherboard

The motherboard adopts the standard ATX specification and Intel Q670E chipset, which can support Intel® 12th/13th Core™ i9/i7/i5/i3 processors; provides 4 × DDR4 Non-ECC U-DIMM memory slot, supporting expansion up to 128GB; supports high-speed USB3.2 Gen2 port, 10Gb/S broadband speed; supports PCI+PCIE expansion combination, multiple serial ports and multiple USB ports, and supports AMT remote management function; the product will be widely used in industrial automation, machine vision, deep learning, safety monitoring, intelligent transportation, environmental protection, communication and other fields.



Product Features



Supports Intel
12/13th Gen
processors



VGA+DP+HDMI2.0b
high definition
display

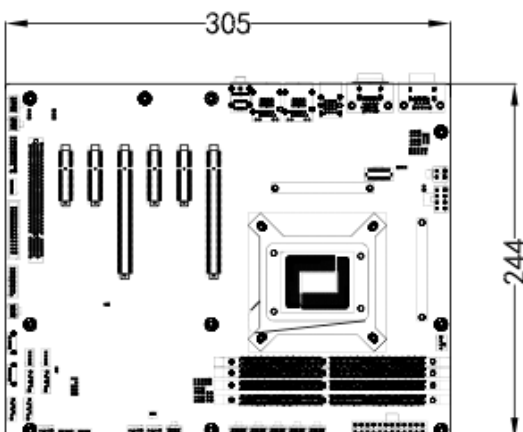


1 × PCI
6 × PCIE
expansion



Provides 1 ×
2500Mbps
LAN port

Product Dimensions Drawing



Product Specifications

Item	Description
Processor	Supports Intel LGA1700 pin 12/13th Gen processors, with a maximum power consumption of 125W
Chipset	Q670E
Memory	4 x DDR4 Non-ECC U-DIMM memory slot, a single memory supporting 32GB, the four supporting up to 128GB
Display Ports	VGA, DP and HDMI2.0 three-display
Audio	Ports Supports MIC-IN/LINE-OUT
LAN	1 × 10/100/1000Mbps LAN port 1 × 10/100/1000/2500Mbps LAN port LAN1 can support LAN wakeup function
Memory	4 × SATA3.0, supporting RAID0, 1, 5, 10
I/O Port	6 × serial port, of which COM1/COM2 support RS232/422/485 adjustable COM1 onboard, COM2-6 motherboard built-in Onboard: 2 × USB3.2 Gen2, 2 × USB3.2 Gen1 and 4 × USB2.0 Built-in motherboard: 2 × USB3.2 Gen1, 2 × USB2.0 and 2 × USB2.0 TYPE-A 1 × 8-channel digital I/O port 1 × TPM port 1 × LPT 1 × PS2 pin
Bus Expansion	1 × PCI slot 1 × PCIe3.0 x4 slot 3 × PCIe4.0 x4 slot 2 × PCIe4.0 x16 slot (used when inserting cards at the same time, signals become PCIe4.0x8) 1 × M.2 Key-I (PCIe4.0 x4 size:2242/2280)
Power Supply	ATX power supply
Working Environment	-10°C~60°C
Storage Environment	-40°C~85°C
Constant Damp Heat	40°C 95%RH, non-condensing
Overall Dimensions	305 mm (L) × 244 mm (W)
Operating System	Windows 10 (21H1) and later versions, WIN11, high kernel version LINUX system

Ordering Information

Product Code	Description
ATX-Q670E	ATX motherboard /Q670E chipset/supports LGA1700 pin 12th and 13th Gen processors/provides 4 × DDR4 memory slot/VGA+DP+HDMI2.0 three-display /4 × SATA3.0/1 × M.2/2 × RJ45 LAN port/14 × USB/6 × COM/MIC-IN/LINE-OUT /1 × 8-channel GPIO/1 × TPM/1 × LPC port/1 × PCI, 1 × PCIe3.0 x4, 3 × PCIe4.0 x4, 2 × PCIe4.0 x16 Note: If two PCIe x16 slots are used at the same time, the speed will be reduced to PCIe x8