

EC0-1823

ATX Structure Motherboard

EC0-1823 motherboard adopts standard ATX specifications and Intel® 470E&W480E chipset, and supports LGA 1200 pin 10/11 Gen processors. It provides 4 DDR4 DIMM memory slots, expandable up to 128 GB, supports high-speed USB 3.2 Gen2 port, 10Gb/S broadband rate, and supports PCI+PCIE expansion combination, multiple COM ports, multiple USB ports, and AMT remote management function. It can be widely used in industrial automation, machine vision, deep learning, safety monitoring, intelligent transportation, environmental protection, communication and other fields.



Product Features



Supports Intel® 10th Gen processors



ATM remote management

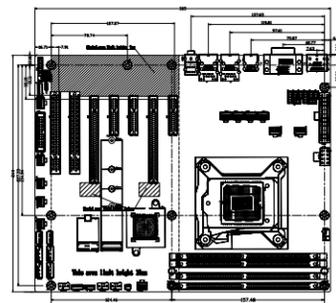


14 x USB port



2 x PCI+
5 x PCIe expansion

Product Dimensions Drawing



Please refer to the user manual to check detailed specifications and dimension. (Unit: MM)

Product Specifications

Item	Description
Processor	Q470E chipset: supports Intel® LGA1200 pin 10/11th Gen processors, power consumption up to 125W W480E chipset: supports Intel® LGA1200 pin 10/11th Gen processors, Xeon W series processors, power consumption up to 125W
Chipset	Q470E/W480E
Memory	4 x DDR4 DIMM memory slot, a single memory module supporting 32GB, the four supporting up to 128GB
Display Ports	VGA, DVI-D, DP triple display
Audio Ports	Supports MIC-IN/LINE-OUT
LAN	2 x Gigabit LAN port, LAN1 supporting Wake-on-LAN
Storage	5 x SATA3.0, supporting RAID 0, 1, 5, 10
IO Ports	6 x COM port, COM1, COM2 support RS-232/RS-422/RS-485 mode selection 8 x USB2.0, 4 x USB3.2 GEN1 (5Gb/s), 2 x USB3.2 GEN1 (10Gb/s) 1 x PS/2 port 1 x 8-channel digital I/O port 1 x TPM port
Bus Expansion	2 x PCI, 3 x PCIe4 2 x PCIe16 (when the two PCIe slots are occupied at same time, PCIe8 speed is used) 1 x M.2 KEY M port (PCIe3.0 X4 and SATA signal)
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
Dimensions	305mm (L) x 244mm (W)
Operating System	WIN10, WINServer 2019, Linux high kernel version

Ordering Information

Part No.	Model	Description
0030-023841	EC0-1823-03	ATX structure motherboard/Q470E chipset/supports Intel® 10/11 Gen processors/provides 4 x DDR4 DIMM memory slot, supporting expansion up to 128GB/VGA+DP+DVI-D triple display/5 x SATA3.0, supporting Raid 0, 1, 5, 10/1 x M.2/2 x Gigabit LAN port/14 x USB/6 x COM/supports MIC-IN/LINE-OUT/1 x 8-channel GPIO/1 x TPM/1 x LPT/1 x LPC/expansion: 2 x PCI, 2 x PCI E x16, 3 x PCI E x4
0030-023851	EC0-1823-04	ATX structure motherboard/W480E chipset/supports Intel® LGA1200 pin 10/11 Gen processors, Xeon W series processors/provides 4 x DDR4 DIMM memory slot, supporting up to 128GB/VGA+DP+DVI-D triple display/5 x SATA3.0, supporting Raid 0, 1, 5, 10/1 x M.2/2 x Gigabit LAN port/14 x USB/6 x COM/supports MIC-IN/LINE-OUT/1 x 8-channel GPIO/1 x TPM/1 x LPT/1 x LPC/expansion: 2 x PCI, 2 x PCI E x16, 3 x PCI E x4
0020-066471	IPC-810/EC0-1823-03/300W	Q470E platform motherboard/300W power supply/1 x COM/10 x USB (2 at front, 8 at rear)/2 x Gigabit LAN port/VGA+DP+DVI-D/1 group of audio port/ expansion: 2 x PCI, 2 x PCIe x16, 3 x PCIe x4
0020-066481	IPC-860/EC0-1823-03/600W	Q470E platform motherboard/600W power supply/1 x COM/10 x USB (2 at front, 8 at rear)/2 x Gigabit LAN port/VGA+DP+DVI-D/1 group of audio port/ expansion: 2 x PCI, 2 x PCIe x16, 3 x PCIe x4
0020-066491	IPC-860/EC0-1823-03/1000W	Q470E platform motherboard/1000W power supply/1 x COM/10 x USB (2 at front, 8 at rear)/2 x Gigabit LAN port/VGA+DP+DVI-D/1 group of audio port/ expansion: 2 x PCI, 2 x PCIe x16, 3 x PCIe x4
0020-066501	IPC-860/EC0-1823-04/1000W	W480E platform motherboard/1000W power supply/1 x COM/10 x USB (2 at front, 8 at rear)/2 x Gigabit LAN port/VGA+DP+DVI-D/1 group of audio port/ expansion: 2 x PCI, 2 x PCIe x16, 3 x PCIe x4
0010-169231	IPC-810E/EC0-1823-03/i5-10500/8G/1T/300W	Q470E platform motherboard/i5-10500/8G memory/1T HDD/300W power supply/6 x COM/10 x USB (2 at front, 8 at rear)/2 x Gigabit LAN port/VGA+DP+DVI-D/1 group of audio port/expansion: 2 x PCI, 2 x PCIe x16, 3 x PCIe x4
0010-169241	IPC-820/EC0-1823-03/i7-10700/16G/1T/256G	Q470E platform motherboard/i7-10700/16G memory/1T HDD+256G SSD/300W power supply/6 x COM/10 x USB (2 at front, 8 at rear)/2 x Gigabit LAN port/VGA+DP+DVI-D/1 group of audio port/expansion: 2 x PCI, 2 x PCIe x16, 3 x PCIe x4

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