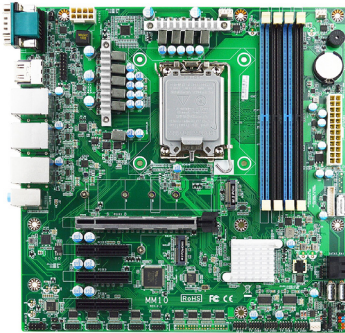


MB-i93Q0

12th/13th Generation Intel® Core™ Processor Embedded microATX motherboard



Features

- Supports Intel® LGA1700 12th/13th Gen. Core, Pentium Gold and Celeron Processors
- Integrated Gigabit & 2.5Gigabit ports
- 1 x PCIe 5.0 x16, 3 x PCIe4 slots, M.2 socket
- 6 x USB 3.2 (Gen 2), 6 x COM ports
- VGA, HDMI, DP Ports supported
- Up to 128GB maximum DDR5 4800 non-ECC DIMM

System

CPU Intel® 12th/13th Generation Core™ i9/i7/i5/i3 and Pentium® / Celeron® processors in LGA1700 socket (Max. 125W)

Chipset Intel® PCH Q670E for MB-i93Q0-Q670E
Intel® PCH H610E for MB-i93Q0-H610E

Memory For MB-i93Q0-Q670E
- 4 x DDR5 Long-DIMM sockets, supporting 4800MHz SDRAM up to 128GB

For MB-i93Q0-H610E
- 2 x DDR5 Long-DIMM sockets, supporting 4800MHz SDRAM up to 64GB

BIOS AMI UEFI BIOS

I/O

Serial Port 6 x serial ports
- 1 x RS-232/422/485 selectable port
- 5 x RS-232 ports

For MB-i93Q0-Q670E
- 6 x external USB 3.2 Gen 2 ports
- 1 x internal USB 3.2 Gen 1 ports
- 9 x internal USB 2.0 ports
- 2x internal USB 2.0 with Type A vertical connector

USB Port For MB-i93Q0-H610E
- 2 x external USB 3.2 Gen 2 ports
- 4 x external USB 2.0 ports
- 1 x internal USB 3.2 Gen 1 ports
- 5 x internal USB 2.0 ports
- 2 x internal USB 2.0 with Type A vertical connector

Keyboard & Mouse Interanal PS/2 connector for keyboard and mouse

TPM TPM on board, optional

Digital IO 8-bit Digital input/ output

For MB-i93Q0-Q670E
- 1 x PCIe16 slot
- 3 x PCIe4 slots
- M.2 E key, 2230 (PCIex1/ USB 2.0)

Expansion Bus For MB-i93Q0-H610E
- 1 x PCIe16 slot
- 2 x PCIe4 slots
- M.2 E key, 2230 (USB 2.0)

Storage

For MB-i93Q0-Q670E
- 3 x Serial ATA ports with 600MB/s HDD transfer rate, support RAID 0/1/5 (Including 1 x Power SATA DOM)
- 1 x M.2 M-key 2242/2260/2280/22110 (SATA/ PCIe4) support RAID 10 with above 3 x SATA ports

For MB-i93Q0-H610E
- 3 x Serial ATA ports with 600MB/s HDD transfer rate (Including 1 x Power SATA DOM)
- 1 x M.2 M-key 2242/2260/2280/22110 (SATA only)

Ethernet Chipset

For MB-i93Q0-Q670E
- 1 x Intel i225-V 2.5GbE
- 1 x intel i219LM PHY GbE (iAMT 12.0)
- 1 x Realtek RTL8153 GbE

For MB-i93Q0-H610E
- 1 x intel i219V PHY GbE
- 1 x Realtek RTL8153 GbE

Audio Interface Realtek® ALC888S 7.1 Channel HD Audio CODEC, Mic-in/ Line-in/ Line-out

Display

Graphic Chipset Integrated Intel® HD Graphics, Graphics specifications may vary depending on CPU support

1 x VGA port (onboard pin header)

Graphic Interface 2 x HDMI ports 2.0b
1 x DP port 1.4a

Multiple Display MB-i93Q0-Q670E: Quad
MB-i93Q0-H610E: Triple

Mechanical & Environmental

Power Requirement 24-pin + 8-pin ATX power connector, AT/ ATX mode supported

Operating Temp. 0 ~ 60°C (32 ~ 140°F)

Operating Humidity 10 ~ 90% @ 60°C (non-condensing)

Dimension (L x W) 244 x 244 mm (9.6" x 9.6")

Ordering Information

MB-i93Q0-Q670E MicroATX, Intel Q670E platform

MB-i93Q0-H610E MicroATX, Intel H610E platform



Block diagram

