



MI23- Long-Life 12th and 13th Generation Mini ITX Motherboard

The Mi23 Mini ITX Motherboard is designed for Intel® Alder Lake /12th processors. Eight (8) 2.5GbE LAN ports make this motherboard perfect for high performance networking appliances and surveillance applications. A PCIe 4.0 x4 side slot, multiple M.2 for expansion and storage and RAID support make this a unique motherboard.

SPECIFICATIONS

CPU	Intel® 12th and 13th Generation processors up to 65W TDP
Chipset	Intel® Q670E or R680E
Memory Type	DDR5-4800 Non-ECC SO-DIMM (Q670E), R680E chipset supports both ECC and non-ECC
Memory Slots	2
Maximum Memory Supported	64GB
GPIO Interface	Onboard programmable 8-bit Digital I/O interface
Integrated Graphics	Requires Intel Processor with Graphics or a PCIe Graphics Card
TPM	Intel fTPM 2.0 (PTT) Trusted Computing Firmware; Onboard NUVOTON TPM v2.0 available by special order (MOQ may apply)
Video	1 x HDMI
Audio	Intel® Display Audio over HDMI
LAN Ports	7 x Intel I225-V 2.5GbE, 1 x Intel I225-LM 2.5GbE (iAMT)
Serial ATA (SATA)	4 x SATA3 6Gb/s for RAID 0/1/5/10
Extended Interface	1 x M.2 B-key (3042, USB3.2/2.0 and PCIe 3.0 x1 for 5G Cellular), 1 x PCIe 4.0 x4 side slot for specific expansion modules, 1 x M.2 M-Key (2242/2280, PCIe 4.0 x4 NVMe and SATA), 1 x M.2 M-Key (2280, PCIe 4.0 x4 NVMe and SATA), 1 x M.2 E-key (2230, USB2.0 and PCIe 3.0 x1 CNVi WiFi)
Rear I/O	1 x Power Button, 1 x Power/HDD LED, 1 x RJ45 Type Serial port, 2 x USB 3.2 Gen2, 2 x USB 3.2 Gen1, 8 x RJ45 2.5GbE LAN
Internal I/O	1 x HDMI Header, 1 x AT/ATX Mode Jumper, 1 x PS/2, 1 x 5-pin SMBUS Header, 2 x Fan Header, 1 x 24-pin ATX Power Connector, 4-pin 12V ATX Power Connector, 4 x SATA3 6Gb/s Connectors, 2 x USB Headers for 4 additional USB 2.0, 2 x RS232 Serial Headers, 1 x Nano SIM Socket, 1 x 8-bit GPIO Header

Power Requirement	Standard 24-pin ATX power supply and 4-pin 12V
Dimensions	170 x 170mm
Operating Temperature	0 ~ 60°C
Storage Temperature	-20 ~ 85° C
Relative Humidity	10 to 90%@ 40°C, non-condensing
OS Software Supported	Windows 10 64-bit, Windows 10 IoT, Windows 11 64-bit, Windows 11 IoT
Global P/N / SKU	2809169

Ordering Options

2809169A - Mi23 with Intel® Q670E 2809169B - Mi23 with Intel® Q670E and Onboard TPM 2.0 2809169C - Mi23 with Intel® R680E 2809169D - Mi23 with Intel® Q670E with Onboard TPM 2.0 NOTES: All board versions come with I/O Shield, SATA cable, COM cable, and HDMI Cable

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