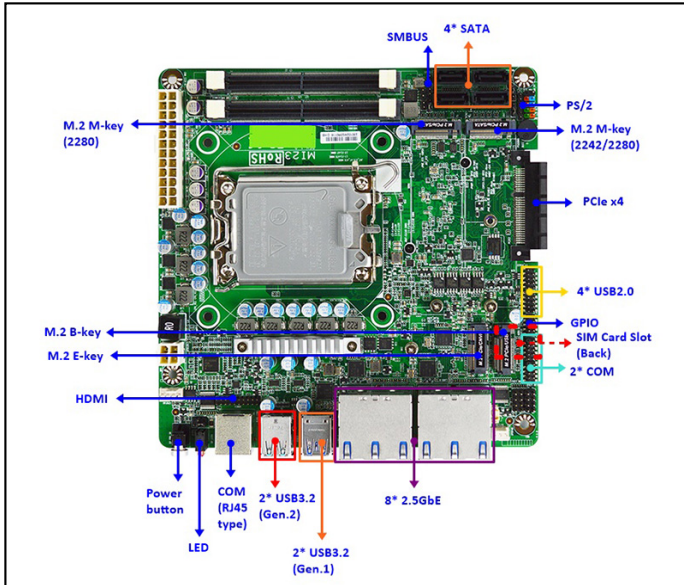


MI23-Q6700-A1



Mini-ITX

Mini-ITX Motherboard, Intel® LGA1700 12/13/14th Gen Socket Processor with 8 x 2.5GbE LANs & 4 x SATA III with RAID



Features

- Powered by Intel® LGA1700 12/13/14th Gen Socket Processor (Alder Lake-S, TDP 65W) with Intel® Q670E Chipset
- Supports up to 96GB high-capacity memory with 2 x DDR5 SODIMM
- Equipped with 8 x Intel 2.5GbE LAN for high-speed and reliable networking
- Provides 4 x SATA III (RAID 0, 1, 5, 10) and 1 x M.2 M-Key for flexible storage options
- Includes 1 x PCIe Gen4x4, 1 x M.2 E-Key, 1 x M.2 B-Key, and 1 x SIM card slot for additional expansion
- Comprehensive I/O: 2 x USB3.2 Gen 2, 2 x USB3.2 Gen 1, 4 x USB2.0, and 3 x COM ports
- Supports Intel® PTT (fTPM)
- Designed for ATX power supply systems for stable performance

Packing List

PART NUMBER	DESCRIPTION	QTY
MI23-Q670X Series	MI23-Q670X Series M/B	1
F04-MB-096-F	MI23 I/O Shield	1
G01-SATA3-BL-1F	SATA Cable	1
G01-COM-H2M20-1F	COM Cable	1
G01-2X10A-HDMI-F	HDMI Cable	1

Specifications

SYSTEM	
MB FORM FACTOR	Mini-ITX
CPU	Intel® LGA1700 12/13/14th Gen Socket Processor (Formerly Alder Lake-S, TDP 65W)
CHIPSET	Intel® Q670E
MEMORY	2 x DDR5 4800MT/s SO-DIMM, up to 96GB 2 x DDR5 5600MT/s SO-DIMM, up to 64GB (Intel® 13th/14th Gen CPU)
BIOS	AMI Flash ROM
WATCHDOG TIMER	255 Levels
SECURITY	Intel® PTT (fTPM)
DIMENSION (W X D)	170.0 (W) x 170.0 (D) mm (6.7" x 6.7")
OS SUPPORT	Windows® 11 (64bit) Windows® 10 (64bit) Linux
POWER	
POWER REQUIREMENT	ATX Power Supply
POWER ON MODE	AT / ATX
CONNECTOR	24+4-pin ATX PWR
DISPLAY	
GPU	Intel® UHD Graphics
HDMI®	1 x HDMI® (Max Resolution: 1920 x 1080@60Hz)
LAN	
ETHERNET	1 x RJ45 for Intel® I226-LM 2.5GbE 7 x RJ45 for Intel® I226-V 2.5GbE
USB PORT	
USB	2 x USB 3.2 Gen 2x1 (10Gbps, Formerly USB 3.1 Gen 2) 2 x USB 3.2 Gen 1x1 (5Gbps, Formerly USB 3.1 Gen 1) Internal Header for 4 x USB 2.0
SERIAL PORT	
COM	1 x DB-9 for RS-232 Internal Header for 2 x RS-232
INTERNAL I/O	
GPIO	8-Bit
SMBUS	Yes
ADDITIONAL	1 x Chassis Intrusion 1 x PS/2 1 x AT Mode Selection
STORAGE	
SATA	4 x SATA III 1 x SATA Power Connector
RAID	RAID 0, 1, 5, 10
EXPANSION	
M.2	1 x M-Key 2242/2280 (PCIe 4.0 x 4/SATA interface) support NVMe 1 x M-key 2280 (PCIe Gen.4*4 w/SATA interface) support NVMe 1 x E-Key 2230 (USB 2.0/PCIe x1) Support CNVi 1 x B-key 3042 (USB3.2 Gen.1/USB2.0/PCIe x1 interface) support 4G Module
PCIe	1 x PCIe Gen.4 x4
SIM	1 x SIM Card Slot
OTHERs	
OTHER	1 x Power Button 1 x Power LED
ENVIRONMENT & CERTIFICATION	
SHOCK	15G, 11ms duration
VIBRATION	1 Grms/ 5- 500Hz/ Operation
OPERATING TEMPERATURE	0°C ~ 60°C (32°F ~ 140°F)
STORAGE TEMPERATURE	-20°C ~ 85°C (-4°F ~ 185°F)
OPERATING HUMIDITY	10 ~ 90% Relative Humidity, Non-condensing
CERTIFICATION	CE/FCC Class A
ESG DECLARATION	EU RoHS EU RoHS REACH

Dimension

Unit: mm

