

MI225Q6700 Series

Mini-ITX Embedded Motherboard, 12th/13th Generation Intel® LGA1700 Socket processor, Support Max. 65W TDPs under 180A, Support two DDR5 up to 64GB, four M.2 slot and one PCIe x16 slot

Features

1. Intel® 12th/13th LGA1700 Socket Processor (Max. 65W TDPs under 180A)
2. Intel® Q670E Chipset
3. 2* DDR5 4800MHz SO-DIMM up to 64GB
4. 1* 10/100/1000 Base-TX & 1* 10/100/1000/2500 Base-TX Ethernet Ports
5. 1* HDMI, 1* DP, 1* VGA, 1* LVDS/eDP
6. 6* COM (COM1 support RS232/422/485)
7. 6* USB3.2 Gen.2, 2* USB3.2 Gen.1, 3* USB2.0
8. 1* PCIe Gen.4 x16 slot, 1*M.2 M-Key (2280) support NVMe, 1*M.2 M-Key (2242) support NVMe, 1*M.2 E-Key (2230) support CNVi, 1*M.2 B-key (3042) support 4G Module
9. 4* SATAIII (6Gb/s) support RAID 0,1,5,10
10. Support Onboard TPM2.0 (MI225Q6702 only)

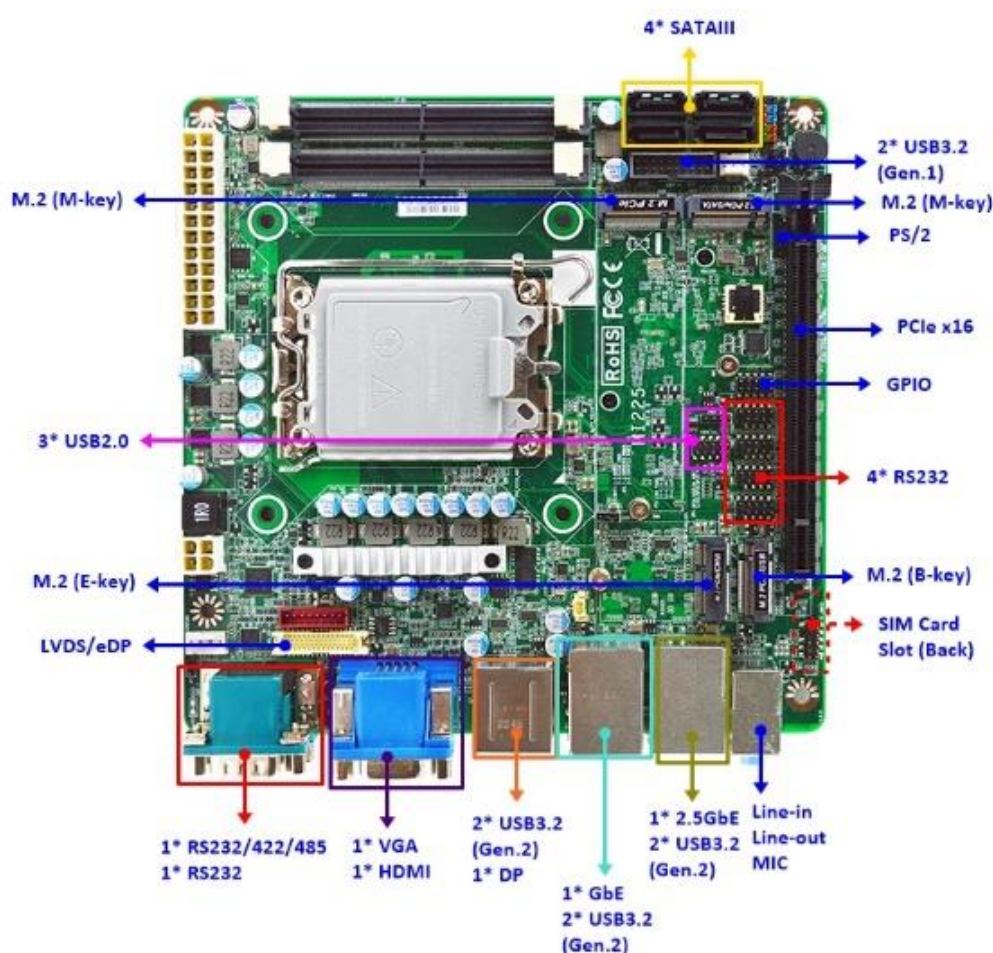


intel. FC CE RoHS COMPLIANT

Applications

Edge Computing/ Digital Signage/ Industrial PCs/ Factory Automation/ Public Sector/ Digital Security/ Surveillance application

I/O Diagram



Specifications

Model	• MI225Q6700 • MI225Q6702 (onboard TPM2.0)
Form Factor	• Mini-ITX (170 * 170mm)
Processor System	• Intel® 12th/13th LGA1700 Socket Core i7/i5/i3/Pentium/Celeron Processor (Max. 65W TDPs under 180A) • Intel® Q670E Express Chipset • AMI 256Mb Flash ROM BIOS
Memory	• 2* Dual CH non-ECC DDR5 4800MHz SDRAM SO-DIMM up to 64GB
Storage	• 4* SATAIII (6 Gb/s) support RAID 0, 1, 5, 10 • 1* M.2 M-Key (2280, PCIe Gen.3 x4 interface) support NVMe • 1* M.2 M-Key (2242, PCIe Gen.4 x4/SATA interface) support NVMe
Expansion	• 1* M.2 E-Key (2230, USB2.0/PCIe Gen.3 x1 interface) support CNVi • 1* M.2 B-key (3042, PCIe Gen.3 x1/USB3.2 Gen.2/USB2.0 interface) • 1* PCIe Gen.4 x16
Ethernet	• 1* Intel® i219-LM GbE • 1* Intel® i225-V 2.5GbE
Graphics	• Intel® UHD Graphics, shared memory • 1* DP 1.4a (Max Resolution: 8K@60Hz) • 1* HDMI 2.0b (Max Resolution: 4096x2160@60Hz) • 1* LVDS/eDP (Max Resolution: 1920x1200@60Hz) • 1* VGA (Max Resolution: 1920x1080@60Hz) • Support Quad Displays
Audio	• HD audio: Realtek ALC888S
Watchdog Timer	• From Super I/O to drag RESETCON# • 256 segments (10sec ~ 255min)
Internal I/O	• 2* USB3.2 (Gen.1) • 3* USB2.0 • 1* LVDS/eDP • 4* SATAIII • 4* COM (RS232) • 1* M.2 M-Key (2280, PCIe Gen.3 x4 interface) support NVMe • 1* M.2 M-Key (2242, PCIe Gen.4 x4/SATA interface) support NVMe • 1* M.2 E-Key (2230, USB2.0/PCIe Gen.3 x1 interface) support CNVi • 1* M.2 B-key (3042, PCIe Gen.3 x1/USB3.2 Gen.2/USB2.0 interface) support 4G Module • 1* SIM slot • 1* PS/2 • 1* GPIO (8 bit) • 1* Chassis intrusion • 1* Audio Header • 1* SMBUS • 1* AT mode • Support onboard TPM2.0 (MI225Q6702)
External I/O	• 1* HDMI • 1* DP • 1* VGA • 2* RJ45 Ethernet • 6* USB3.2 (Gen.2) • 1* COM (RS232/422/485) • 1* COM (RS232) • Line-in, Line-out, MIC
Power	ATX PWR (4+24 pin), AT/ATX Supported - AT: Directly PWR on as Power input ready - ATX: Press Button to PWR on after Power input ready
Compliance	CE, FCC, LVD, RoHS, REACH
Temperature	• Operating Temperature: 0 ~ 60° C • Storage Temperature: -20 ~ 85° C • Humidity: 10% ~ 90% RH @40°C (non-condensing)
OS Support	Windows 10, Windows 11, Linux
Warranty	• 2 Years limited warranty

* Specifications subject to change without notice, not responsible for typographical errors. Does not include HDD or OS.

Standard Accessories

Part Number	Description
MI225Q6700 Series	MI225Q6700 Series M/B
	MI225 I/O shield
G01-SATA3-BL-1F	SATA cable

Mechanical Drawings (Unit=mm)