

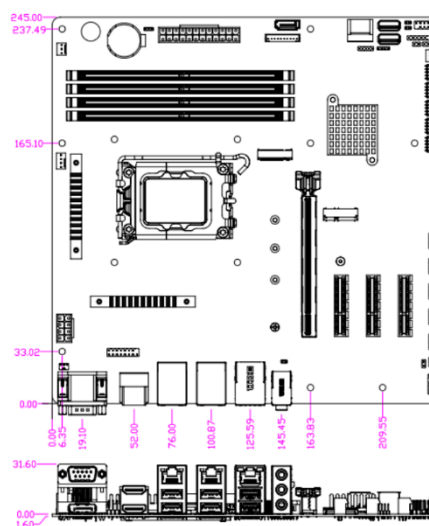
Features

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Overview

Application

I/O Diagram



Specifications

Model

- MM10-Q6700
- MM10-Q6702 (onboard TPM2.0)

Processor System

- Intel® 13th/12th (Raptor Lake-S/Alder Lake-S) LGA1700 Socket Core i9/i7/i5/i3/Pentium/Celeron Processor (Max. 125W TDP, 240A)
**CPU performance may be limited due to power phase design.*

- Intel Q670E Express chipset
- AMI 256Mb Flash ROM BIOS

Storage

- 3* SATAIII support RAID 0, 1, 5, 10 (Support RAID 10 by using additional M.2 M-Key with SATA interface; SATA2 support SATA DOM)
- 1* M.2 M-Key 2242/2260/2280/22110 (SATA/PCIe Gen.4x4 interface) support NVMe

Ethernet

- 1* Intel i219-LM GbE
- 1* Realtek RTL8153 GbE
- 1* Intel i225-V 2.5GbE

Audio

HD audio: Realtek ALC888S

Internal I/O

- 1* USB 3.2 (Gen.1)
- 9* USB 2.0
- 2* USB 2.0 type A vertical connector
- 3* SATAIII
- 5* COM (RS232)
- 1* VGA
- 1* M.2 M-key 2242/2260/2280/22110 (SATA/PCIe Gen.4x4 interface)
- 1* M.2 E-key 2230 (USB2.0/PCIe Gen.4x1 interface)
- 1* PS/2
- 1* GPIO (8 bit)
- 1* Chassis intrusion
- 1* Audio Header
- 1* SMBUS
- 1* AT mode
- Support onboard TPM2.0 (MM10-Q6702 only)

Power

ATX PWR (8+24 pin), AT/ATX Supported
- AT: Directly PWR on as Power input ready
- ATX: Press Button to PWR on after Power input ready

Temperature

- Operating Temperature: 0 ~ 60° C
- Storage Temperature: -20 ~ 85° C
- Humidity: 10% ~ 90% RH @40°C (non-condensing)

Warranty

2 Years limited warranty

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

Form Factor

Micro-ATX (244 x 244mm)

Memory

- Intel® 13th CPU: 4* non-ECC DDR5 5600MHz SDRAM UDIMM up to 128GB
- Intel® 12th CPU: 4* non-ECC DDR5 4800MHz SDRAM UDIMM up to 128GB

Expansion

- 1* M.2 E-Key 2230 (USB2.0/PCIe Gen.4x1 interface) support CNVio
- 1* PCIe Gen.5x16 slot
- 1* PCIe Gen.4x4 slot
- 2* PCIe Gen.3x4 slot

Graphics

- Intel® UHD Graphics, shared memory
- 1* DP 1.4a (Max Resolution: 4096x2304@60Hz)
- 2* HDMI 2.0b (Max Resolution: 4096x2160@60Hz)
- 1* VGA (Max Resolution: 1920x1080@60Hz)
- Support Quad Displays

Watchdog Timer

- From Super I/O to drag RESETCON#
- 256 segments (10sec ~ 255min)

Rear I/O

- 2* HDMI
- 1* DP
- 3* RJ45 Ethernet
- 6* USB 3.2 (Gen. 2)
- 1* COM (RS232/422/485)
- Line-in, Line-out, MIC

Compliance

CE, FCC, LVD, RoHS, REACH

OS Support

Windows 10, Windows 11, Linux

Accessories

Part Number	Description
	MM10-Q6700 Series M/B
F04-MB-090-F	MM10 I/O shield
G01-SATA3-BL-1F	2* SATA Cable
G01-COM-H2M22-1F	3* COM Cable