

MM10-H6100 Series

Intel H610 chipset supports LGA 1700 socket for the Intel® 13th/12th Gen (Raptor Lake-S/Alder Lake-S) i9/i7/i5/i3 processor with DDR5-5600MHz/4800MHz up to 64GB memory, Support Max. 125W TDPs under 240A

Features

1. Intel® 13th/12th LGA1700 Socket Processor (Max. 125W TDPs under 240A)
2. 2* DDR5 5600MHz/4800MHz UDIMM up to 64GB
3. 2* 10/100/1000 Base-TX Ethernet Ports
4. 2* HDMI, 1* DP, 1* VGA
5. 6* COM (COM1 support RS232/422/485)
6. 2* USB3.2 Gen.2, 1* USB3.2 Gen.1, 11* USB2.0
7. 1* PCIe Gen.5x16 slot, 2* PCIe Gen.3x4 slot, 1*M.2 M-Key (2242/2260/2280/22110, SATA interface), 1*M.2 E-Key (2230, USB2.0 interface) support CNVio
8. 3* SATAIII (SATA2 support SATA DOM)
9. Support onboard TPM 2.0 (MM10-H6102 only)



intel. FC CE RoHS COMPLIANT

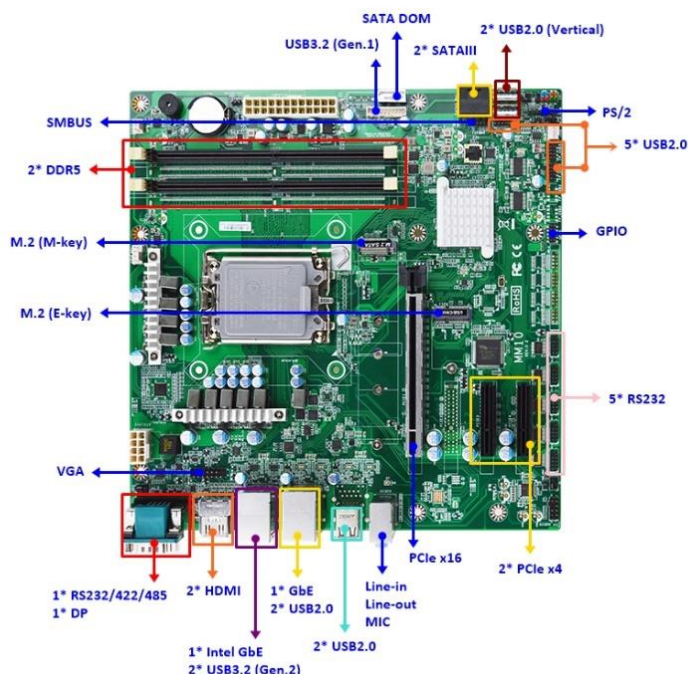
Overview

The JETWAY MM10-H6100 Series is Micro-ATX form factor board which adopts the Intel® 12/13th generation Core i9/i7/i5/i3, Pentium & Celeron Processor. The board supports two UDIMM DDR5 5600MHz/4800MHz memory, up to 64GB. Featuring the integrated Intel® & Realtek Ethernet controller, the MM10-H6100 Series offers two 10/100/1000 Base-TX Ethernet devices for network transmission. Three SATAIII (6Gb/s) interface and one M.2 M-key (2242/2260/2280/22110, SATA interface) offer storage devices. One M.2 E-key (2230, USB2.0 interface), two USB3.2 Gen.2 ports, one USB3.2 Gen.1 port, eleven USB2.0 ports, and six COM ports for versatile expansion. The 1* PCIe x16 and 2* PCIe x4 slots provides different type expansion choice. The MM10-H6100 Series offers two HDMI2.0 port, one VGA port, one DP1.4 port which can support 3 independent displays. With the above features, MM10-H6100 Series is suitable for Industrial PCs, Factory Automation, Public Sector, Digital Security, and Surveillance applications.

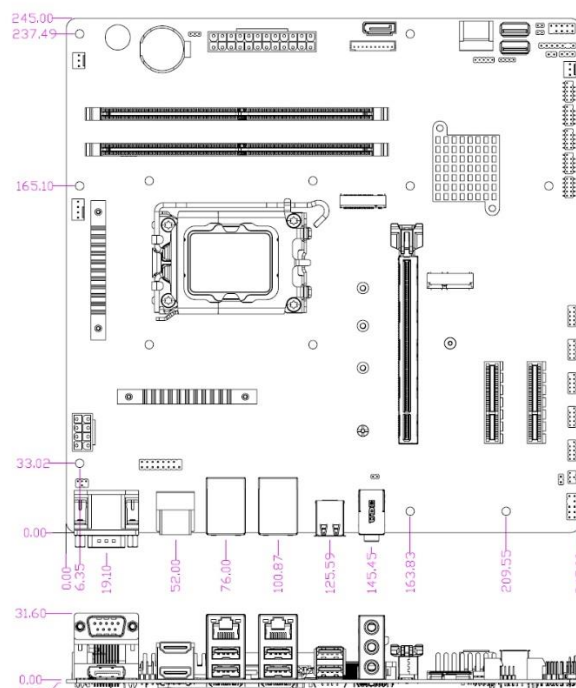
Application

Industrial PCs/ Factory Automation/ Public Sector/ Digital Security/ Surveillance application

I/O Diagram



Mechanical Drawings (Unit=mm)



Specifications

Model

- MM10-H6100
- MM10-H6102 (onboard TPM2.0)

Processor System

- Intel® 13th/12th (Raptor Lake-S/Alder Lake-S) LGA1700 Socket Core i7/i5/i3/Pentium/Celeron Processor (Max. 125W TDP, 240A)
**CPU performance may be limited due to power phase design.*
- Intel H610 Express chipset
- AMI 256Mb Flash ROM BIOS

Storage

- 3* SATAIII (SATA2 support SATA DOM)
- 1*M.2 M-Key (2242/2260/2280/22110, SATA interface)

Ethernet

- 1* Intel i219V GbE
- 1* Realtek RTL8153 GbE

Audio

HD audio: Realtek ALC888S

Internal I/O

- 1* USB 3.2 (Gen.1)
- 5* USB 2.0
- 2* USB 2.0 type A vertical connector
- 3* SATAIII
- 5* COM (RS232)
- 1* M.2 M-key (2242/2260/2280/22110, SATA interface)
- 1* M.2 E-key (2230, USB2.0 interface) support CNVi
- 1* VGA
- 1* PS/2
- 1* GPIO (8 bit)
- 1* Chassis intrusion
- 1* Audio Header
- 1* SMBUS
- 1* AT mode
- Support onboard TPM2.0 (MM10-H6102 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: 2* Dual CH non-ECC DDR5 5600MHz SDRAM UDIMM up to 64GB
- Intel® 12th CPU: 2* Dual CH non-ECC DDR5 4800MHz SDRAM UDIMM up to 64GB

Expansion

- 1*M.2 E-Key (2230, USB2.0 interface) support CNVi
- 1* PCIe Gen.5x16 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 Triple Displays

Watchdog Timer

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

Rear I/O

- 2* HDMI
- 1* DP
- 2* RJ45 Ethernet
- 2* USB 3.2 (Gen. 2)
- 4* USB 2.0
- 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-H6100 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