



## **MM10-H6100- Intel® 12th/13th Generation Micro-ATX Motherboard with Multiple Expansion**

The MM10-H6100 is Micro-ATX form factor board which adopts the Intel® 12/13th generation Core i9/i7/i5/i3, Pentium and Celeron Processor. Three SATAIII (6Gb/s) interface and one M.2 M-key (2242/2260/2280/22110, SATA interface) are available for storage. 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 offer versatile expansion in addition to the PCIe16 and two PCIe x4 slots. With the above features, MM10-H6100 Series is suitable for Industrial PCs, Factory Automation, Public Sector, Digital Security, and Surveillance applications.

### **SPECIFICATIONS**

<b>CPU</b>	Intel® 12th/13th LGA1700 Socket Core i9/i7/i5/i3/Pentium/Celeron Processor (Max. 125W TDP, 240A), CPU performance may be limited due to power phase design.
<b>Chipset</b>	H610
<b>Memory Type</b>	DDR5 4800MHz SDRAM UDIMM (non-ECC)
<b>Memory Slots</b>	2
<b>Maximum Memory Supported</b>	64GB
<b>Audio</b>	Realtek ALC888S HD Audio
<b>Integrated Graphics</b>	Intel® HD Graphics
<b>Watchdog Timer</b>	From Super I/O to drag RESETCON#; 256 segments (10sec ~ 255min)
<b>Serial ATA (SATA)</b>	3 x SATAIII
<b>Video</b>	1 x DP 1.4a (Max Resolution: 4096×2304@60Hz), 2 x HDMI 2.0b (Max Resolution: 4096×2160@60Hz), 1 x VGA (Max Resolution: 1920×1080@60Hz)
<b>LAN Ports</b>	1 x Intel® i219V Gigabit LAN, 1 x Realtek® RTL8153 Gigabit LAN
<b>TPM</b>	Yes (MM10-H6102 only)
<b>Extended Interface</b>	1 x M.2 2230 E-Key (USB2.0 interface) supports CNVi, 1 x PCIe Gen.5 ×16 slot, 2 x PCIe Gen.3 ×4 slot, 1 x M.2 2242/2260/2280/22110 M-Key (SATA interface)
<b>Internal I/O</b>	1 x USB 3.2 (Gen.1), 5 x USB 2.0, 2 x USB 2.0 type A vertical connector, 3 x SATAIII, 5 x COM (RS232), 1 x VGA, 1 x PS/2, 1 x GPIO (8-bit), 1 x Chassis intrusion, 1 x Audio , 1 x SMBUS, 1 x AT mode
	2 x HDMI, 1 x DP, 2 x RJ45 Ethernet, 2 x USB 3.2 (Gen. 2), 4 x USB 2.0, 1 x COM

<b>External I/O</b>	(RS232/422/485), Line-in, Line-out, MIC
<b>Power Requirement</b>	ATX PWR (8 + 24 pin)
<b>Dimensions</b>	244mm x 244mm
<b>Operating Temperature</b>	-10 ~ 50° C
<b>Storage Temperature</b>	-20 ~ 85° C
<b>Relative Humidity</b>	10% ~ 90% RH @40°C (non-condensing)
<b>OS Software Supported</b>	Windows 10, Windows 11, Linux
<b>Global P/N / SKU</b>	2809159

## Ordering Options

2809159A - MM10-Q6700 without TPM 2809159B- MM10-Q6702 with TPM 2.0

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