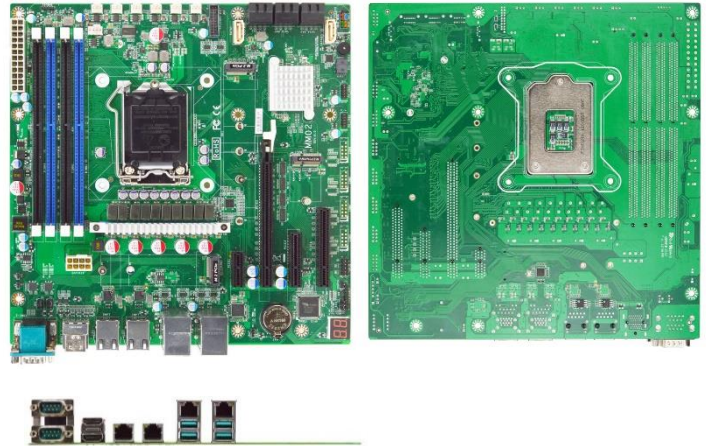


MM02-20 Series

Intel® W480E Chipset, support LGA1200 10th Gen. CPU (Max 95W), DDR4 up to 128GB, 8* SATAIII support RAID, 2* M.2 M-key, 1* M.2 E-key, 4* USB3.2 (Gen.2), 2* GbE, 2* 2.5GbE

Features

1. Intel® LGA1200 Socket supports 10th Gen. Core Processor (Max 95W)
2. Intel® W480E Chipset
3. 4* DDR4 2933/2666/2400MHz up to 128GB support ECC
4. 1* Intel® i219-LM GbE, 1* Intel® i210-AT GbE, 2* i225LM 2.5GbE
5. 8* SATA III (6Gb/s) support RAID 0/1/5/10 & 2* M.2 (M-key), 1* M.2 (E-key) supports CNVi, 1* PCIe x16, 1* PCIe x8, 1* PCIe x4, 1* PCIe x1
6. 2* HDMI Output
7. 2* RS232, 4* USB 3.2 (Gen.2), 2* USB3.2 (Gen.1), 4* USB 2.0
8. ATX Power Input
9. Support TPM2.0 (MM02-22 only)
10. Micro ATX Form Factor (244 * 244 mm)



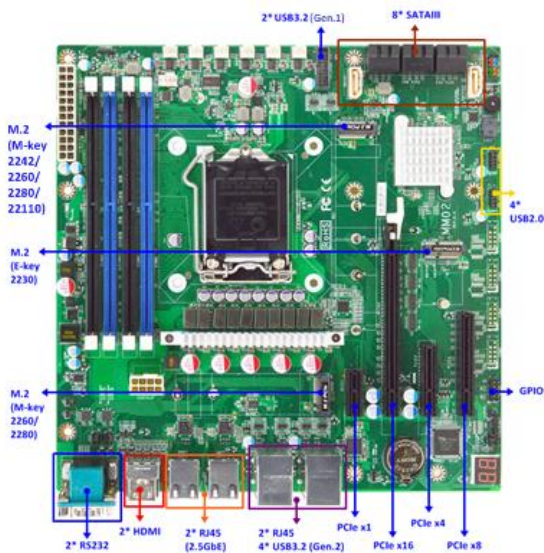
Overview

The JETWAY MM02-20 Series adopts the Intel® LGA 1200 socket processor. MM02-20 Series equipped with four DDR4 long DIMM slot, one M.2 (M-key, 2260/2280), one M.2 (M-key, 2242/2260/2280/22110 support NVMe) and eight SATAIII support RAID 0/1/5/10 (especially, SATA7 and SATA8 support SATA DOM). In additional, MM02-20 Series provide one M.2 E-key (2230, PCIe1/USB2.0 interface) support CNVi, one PCIe x1, one PCIe x4, one PCIe x8 and one PCIe x16 for multiple expansion. MM02-20 Series also has four USB 3.2 (Gen.2), two USB3.2 (Gen.1), four USB 2.0, and two RS232 port which can connect different peripherals to meet their needs. MM02-20 Series also support two HDMI dual displays. All of the MM21-W4800 Series designs provide rich features which can be used for factory automation and industrial PCs.

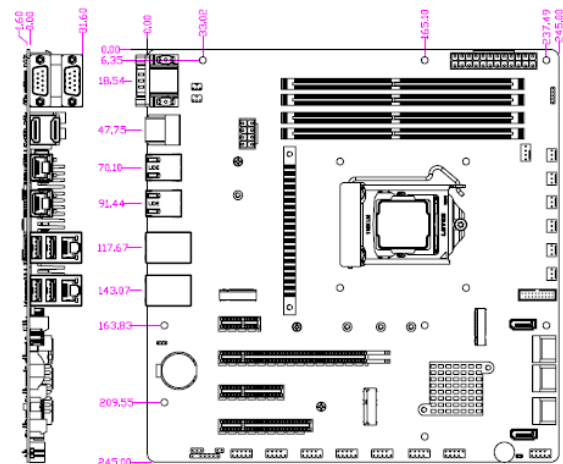
Application

Automation / Industrial PCs

I/O Diagram



Mechanical Drawings (Unit=mm)



Specifications

Model <ul style="list-style-type: none">• MM02-20• MM02-22 (TPM2.0)	Form Factor <p>Micro ATX (244 x 244mm)</p>
Processor System <ul style="list-style-type: none">• Intel® LGA 1200 Socket support 10th Gen. Core processor (Max. 95W)• Intel® W480E Chipset• AMI Flash ROM BIOS	Memory <p>4* DDR4 2933/2666/2400MHz long DIMM up to 128GB support ECC</p>
Storage <ul style="list-style-type: none">• 8* SATAIII (6 Gb/s) support RAID 0/1/5/10 (SATA7 and SATA8 support SATA DOM)• 1* M.2 M-key (2242/2260/2280/22110, PCIe x4 interface) support NVMe• 1* M.2 M-key (2260/2280, PCIe x2 interface)	Expansion <ul style="list-style-type: none">• 1* M.2 E-key (2230, PCIe/USB2.0 interface) support CNVi• 1* PCIe x16• 1* PCIe x8 (share with PCIe x16)• 1* PCIe x4• 1* PCIe x1
Ethernet <ul style="list-style-type: none">• 1* Intel® i219-LM GbE• 1* Intel® i210-AT GbE• 2* Intel® i225-LM 2.5GbE	Graphics <ul style="list-style-type: none">• Intel® HD Graphics, shared memory• 2* HDMI 1.4 (Max Resolution: 4096x2160@30Hz)• Support Dual Displays
Audio <p>NA</p>	Watchdog Timer <ul style="list-style-type: none">• From Super I/O to drag RESETCON#• 256 segments (10sec ~ 255min)
Internal I/O <ul style="list-style-type: none">• 2* USB 3.2 (Gen.1)• 4* USB 2.0• 8* SATAIII• 1* Chassis intrusion• 1* GPIO (8-bit)• 1* SMBUS / I2C• 1* AT mode• 1* TPM2.0 (MM02-22 only)	External I/O <ul style="list-style-type: none">• 2* HDMI• 2* RJ45 GbE• 2* RJ45 2.5GbE• 4* USB 3.2 (Gen.2)• 2* RS232
Power <p>ATX PWR (8 + 24 pin)</p> <ul style="list-style-type: none">- AT: Directly PWR on as Power input ready- ATX: Press Button to PWR on after Power input ready	Compliance <p>CE, FCC, RoHS, REACH</p>
Temperature <ul style="list-style-type: none">• Operating Temperature: 0 ~ 60° C• Storage Temperature: -20 ~ 85° C• Humidity: 10% ~ 90% RH @40°C (non-condensing)	OS Support <p>Windows 10, Windows 11, Linux</p>
Warranty <p>2 Years limited warranty</p>	

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

Standard Accessories

Part Number	Description
-----	MM02-20 Series M/B
F04-MB-082-F	MM02 I/O shield
G01-SATA3-BL-1F	2* SATAIII cable