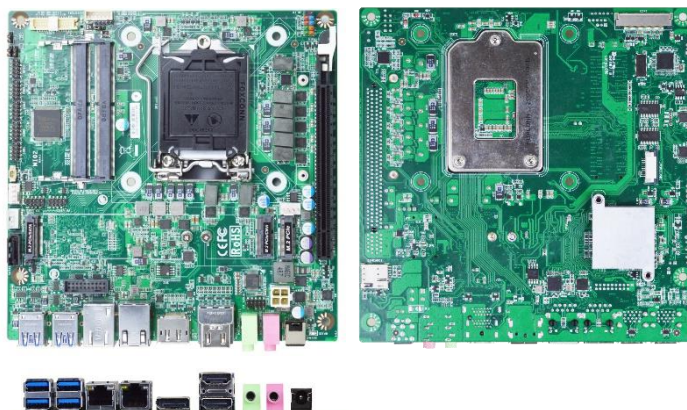


MI02-10 Series

Mini-ITX Embedded Motherboard, Q470E chipset, 10/11th Generation Intel® Core™ i9 / i7 / i5 / i3, Celeron & Pentium® LGA1200 Socket Processor, Max. 65W TDPs

Features

1. Intel® 10/11th LGA1200 Socket Comet Lake-S Processor (Max. 65W TDP)
2. 2* DDR4 2933/2666/2400MHz SO-DIMM up to 64GB
3. 1* Intel i225LM 2.5GbE, 1* Intel i219LM GbE
4. 2* HDMI, 1* DP, 1* LVDS, 1* eDP
5. 4* COM (COM1/COM2 support RS232/422/485), 4* USB3.2 Gen.2, 2* USB3.2 Gen.1, 4* USB2.0
6. 1* PCIe x16 slot, 1* M.2 M-key 2280 (SATA/PCIe x4) support NVMe, 1* M.2 E-key 2230 (PCIe x1/USB2.0) support CNVi, 1* M.2 B-key 3042/3052 (USB3.0/PCIe x1) W/SIM card slot
7. 1* SATAIII (6Gb/s) support RAID W/M.2 M-key
8. Support onboard TPM 2.0 (MI02-12 only)



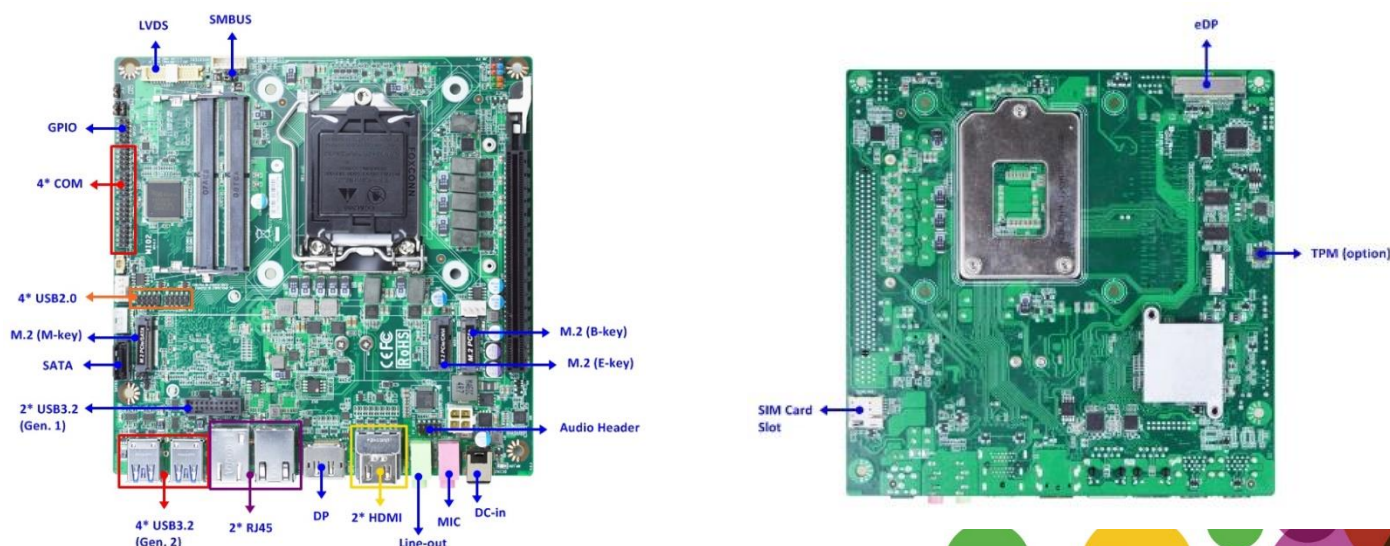
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Overview

The JETWAY MI02-10/MI02-12 is Slim Mini-ITX form factor board adopts the Intel® 10/11th generation Core i9/i7/i5/i3, Pentium and Celeron Processor. The board supports two SO-DIMM DDR4 2933/2666/2400MHz memory, up to 64GB. Featuring the integrated Intel® i219LM GbE & i225LM 2.5GbE controller, the MI02-10/MI02-12 offers two Ethernet devices for network transmission. One SATAIII (6Gb/s) interface and one M.2 M-key 2280 (SATA/PCIex4) support NVMe offer storage devices. One M.2 E-key 2230 (PCIex1/USB2.0) support CNVi, one M.2 B-key 3042/3052 (USB3.0/PCIe x1) W/SIM card slot, four USB3.2 Gen.2 ports, two USB3.2 Gen.1 ports, four USB2.0 ports and four COM ports provide versatile expansion. The PCIe x16 slot can support Jetway riser card for different expansion. The MI02-10/MI02-12 offers two HDMI1.4 port, one DP1.4 port and one LVDS, one eDP port which can support 3 independent displays. Because of the above features, MI02-10/MI02-12 is suitable for Edge Computing, Digital Signage, Industrial PCs, Factory Automation, Public Sector, Digital Security and Surveillance applications.

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

I/O Diagram



Specifications

Model	• MI02-10 • MI02-12 (W/TPM2.0)
Form Factor	• Slim Mini-ITX (6.7-in * 6.7-in, 170 * 170mm)
Processor System	• Intel® 10/11th LGA 1200 Socket Core i9/i7/i5/i3/Pentium/Celeron Comet Lake-S Processor (Max. 65W TDP) • Intel Q470E Express chipset • AMI 256Mb Flash ROM BIOS
Memory	• 2* Dual CH DDR4 2933/2666/2400MHz SDRAM SO-DIMM up to 64GB * Core i9 / i7 CPUs support DDR4 up to 2933 MHz * Core i5 / i3 CPUs support DDR4 up to 2666 MHz * Pentium / Celeron CPUs support DDR4 up to 2400 MHz
Storage	• 1* SATAIII (6Gb/s) support RAID w/M.2 SATA port • 1* M-key 2280 (SATA/PCIex4) support NVMe
Expansion	• 1* E-key 2230 (PCIex1/USB2.0) support CNVi • 1* B-key 3042/3052 (USB3.0/PCIe x1) W/SIM card slot • 1* PCIex16 slot (Suggest the PCIe card less than 25W Power consumption)
Ethernet	• 1* Intel i219LM GbE • 1* Intel i225LM 2.5GbE
Graphics	• Intel® HD Graphics, shared memory • 1* eDP (Max Resolution: 4096x2304@60Hz) • 1* LVDS (Max Resolution: 1920x1200@60Hz) • 2* HDMI 1.4 (Max Resolution: 4096x2160@30Hz) • 1* DP (Max Resolution: 4096x2304@60Hz) - Support Triple Displays
Audio	• 6 channel 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) • 4* USB 2.0 • 1* LVDS • 1* eDP • 1* SATAIII • 4* COM (COM1/COM2 support RS232/422/485) • 1* M.2 M-key 2280 (SATA/PCIex4) support NVMe • 1* M.2 E-key 2230 (PCIex1/USB2.0) support CNVi • 1* M.2 B-key 3042/3052 (USB3.0/PCIe x1) • 1* GPIO (8 bit), 1* Chassis intrusion • 1* Audio Header • 1* SMBUS, 1* AT mode • Support onboard TPM2.0 (Only MI02-12)
External I/O	• 2* HDMI • 1* DP • 2* RJ45 Ethernet • 4* USB 3.2 (Gen. 2) • 1* Line-out • 1* MIC • 1* DC-in jack
Power	12~28V DC-in, 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, UL (Only MI02-10)
Temperature	• Operating Temperature: 0 ~ 60° C • Storage Temperature: -20 ~ 85° C • Humidity: 10% ~ 90% RH @40°C (non-condensing)
OS Support	Windows 10, 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
-----	MI02-10 / MI02-12 M/B
F04-MB-083-1F	MI02 I/O shield
G01-COM-H2M22-1F	2* COM cable
G01-PW4PS-2S-323F	1* SATA Power cable
G01-SATA3-BL-1F	1* SATA cable

Mechanical Drawings (Unit=mm)

