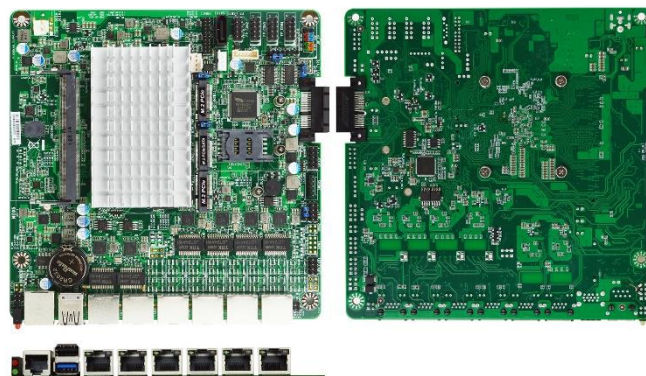


MI05-0XK Series

6 2.5GbE Ports Networking Appliance Motherboard with Intel® Elkhart Lake series SoC Processor*

Features

1. Intel® Elkhart Lake SoC Processor
2. 1* DDR4 3200MHz SO-DIMM up to 32GB
3. 6* 10/100/1000/2500 Base-TX Ethernet Ports
4. 1* USB 3.1 (Gen.2), 3* USB 2.0, 1* HDMI
5. 1* EXT RS232 (RJ45 type), 2* INT RS232, 1* INT RS232/4228/485
6. 1* M.2 E-key (2230), 1* M.2 B-key (3042), 1* SIM card slot, 1* PCIe x1
7. 1* M.2 M-key (2242), 1* SATAIII, 1* 32GB eMMC (option)
8. 12V DC-in



intel. FC CE RoHS COMPLIANT

Overview

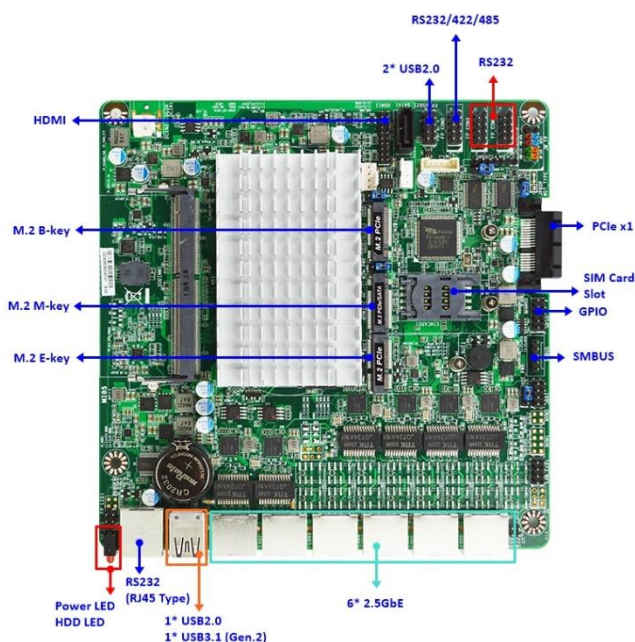
The JETWAY MI05-0XK Series adopts the Intel® Elkhart Lake series SoC processor. The system memory features one DDR4 3200MHz SO-DIMM up to 32GB. It equipped with six 2.5Gigabit Ethernet LAN ports and suitable for networking environment. MI05-0XK Series support AES-NI which is an encryption instructions to accelerate the encryption of data, and support TPM 2.0 (option) to secure customers' data.

In addition, it offers flexible expansion with network products and features one PCI Express x1 slot, one USB 3.1 (Gen.2), three USB 2.0, one RS232/422/485 and three RS232 (one console port RJ45 type and two internal pin header). Expansion opportunities are available with one M.2 E-key (2230), one M.2 B-key (3042) and one SIM card slot enabling the addition of Wi-Fi, 3G, 4G LTE for multiple connectivity. In addition, an onboard eMMC 32GB (option), M.2 M-key (2242) and SATAIII connector for a 2.5" device provides storage selection. MI05-0XK Series equip with TVS, voltage, current and ESD protection. All of these designs provide for a more user-friendly solution.

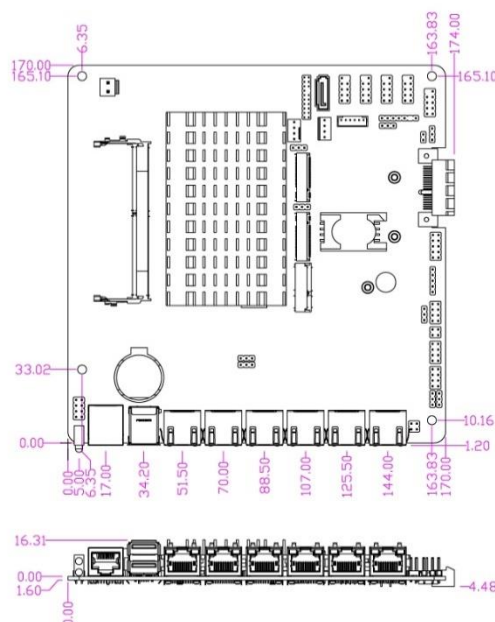
Application

IDP/IPS / Firewall / Load Balancing / Bandwidth Manager / Web Filter / Anti-Spam/Virus / Network Access Control

I/O Diagram



Mechanical Drawings (Unit=mm)



Specifications

Model • MI05-00K (J6412) • MI05-02K (J6412, TPM2.0) • MI05-03K (J6412, eMMC 32GB) • MI05-07K (J6412, eMMC 32GB, TPM2.0)	Form Factor Slim Mini-ITX (170 * 170mm)
Processor System • Intel® Elkhart Lake J6412 SoC Processor • AMI 128Mb Flash ROM BIOS	Memory 1* DDR4 3200MHz SO-DIMM up to 32GB
Storage • 1* SATAIII (6 Gb/s) • 1* M.2 M-key (2242, SATA/PCIe Gen.3 x2 interface) support NVMe • 1* 32GB eMMC on board option (MI05-03K/MI05-07K)	Expansion • 1* M.2 E-key (2230, USB2.0/PCIe Gen.3 x1 interface) • 1* M.2 B-key (3042, USB3.1 interface) • 1* PCIe x1 (Horizontal)
Ethernet 6* Intel i225-V 2.5 GbE	Graphics • Intel® HD Graphics, shared memory • 1* HDMI 1.4b (Max Resolution: 3840x2160@30Hz)
Internal I/O • 2* USB2.0 • 1* SATAIII • 1* 32GB eMMC option (MI05-03K/MI05-07K) (If use Win 10 OS, we recommend the eMMC is use for OS boot up purpose.) • 1* RS232/422/485 • 2* RS232 • 1* HDMI • 1* PS/2 • 1* SMBUS • 1* GPIO • 1* AT mode	External I/O Rear: • 6* RJ45 • 1* RS232 (RJ45 type) • 1* USB3.1 (Gen.2) • 1* USB 2.0
Power 12V DC-in PWR - AT: Directly PWR on as Power input ready - ATX: Press Button to PWR on after Power input ready	Watchdog Timer • From Super I/O to drag RESETCON# • 256 segments (10sec ~ 255min)
Temperature • Operating Temperature: 0 ~ 60° C • Storage Temperature: -20 ~ 60° C • Humidity: 10% ~ 90% RH @40°C (non-condensing)	Compliance CE, FCC, LVD, RoHS, REACH
Warranty 2 Years limited warranty	OS Support UEFI Win10 64-bit, Win 10 IoT Enterprise 64-bit LTSC 2019, CentOS (Version 9), Debian (Version 11.3), Fedora-LXDE (Version 36-1.5), Fedora Workstation (Version 36-1.5), Fedora Server (Version 36-1.5), Open SUSE (Version 15.4), Ubuntu Standard / LTS (Version 22.04), Ubuntu Server (Version 22.04), pfSense (Version 2.6.0), TrueNAS (FreeNAS) (Version 13.0), RedHat Enterprise (Version 9.0), OPNSense (Version 22.1.2)

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

Standard Accessories

Part Number	Description
MI05-0XK Series	MI05-0XK Series M/B
F04-MB-063-F F04-MB-064-F	I/O shield
G01-SATA3-BL-1F	SATA cable
G01-PW4PS-2S-323F	SATA Power cable
G01-2X10A-HDMI-F	HDMI cable