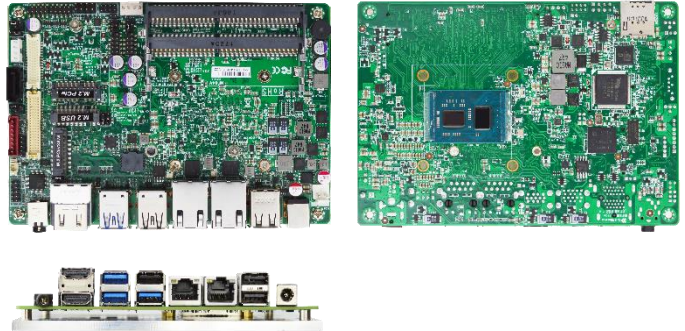


MF04VOX Series

Intel® Elkhart Lake J6412 CPU, DDR4 up to 32GB, 2 HDMI2.0b, 1* M.2 (M-key), 1* M.2 (E-key), 1* M.2 (B-key) W/SIM card slot, 32GB eMMC (default), 2* 2.5GbE, 12~24V DC-in*

1. Intel® Elkhart Lake SoC Processor
2. 2* DDR4 3200MHz Dual Channel SO-DIMM up to 32GB
3. 2* Intel i225V 2.5GbE
4. 2* HDMI2.0b, 1* eDP (co-layout LVDS)
5. 2* COM, 3* USB3.1 (Gen.2), 5* USB2.0
6. 1* M.2 E-key 2230, 1* M.2 B-key 3042 W/SIM card slot
7. 1* M.2 M-key 2242/2280, 1* SATAIII (6Gb/s); 32GB eMMC (default)
8. Support 12~24V DC-in



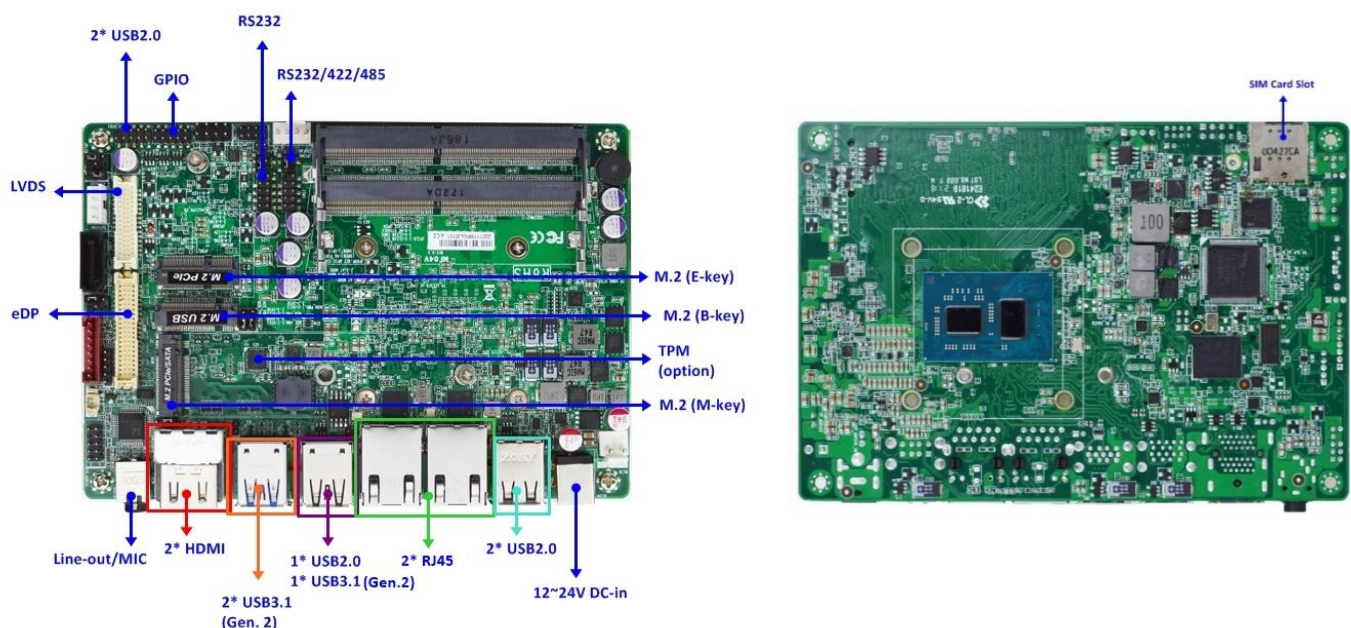
Overview

The JETWAY MF04VOX Series is 3.5" form factor board adopts the Intel® Elkhart Lake J6412 SoC Processor. The board supports two SO-DIMM DDR4 3200MHz memory, up to 32GB. Featuring the integrated Intel® 2.5 Gigabit Ethernet controller, the MF04VOX Series offers two 10/100/1000/2500Base-TX Ethernet device for network transmission. One SATAIII (6Gb/s) interface, one M.2 M-key and 32GB onboard eMMC (default) offer storage devices. Three USB3.1 Gen.2 ports, Five USB2.0 ports and two COM ports provide versatile expansion. The M.2 B-key 3042 can support 3G/4G/LTE card. The MF04VOX Series offers two HDMI2.0b ports and one LVDS (co-layout eDP). Because of the above features, MF04VOX Series is suitable for Panel PC, IOT Solution, Edge computing applications.

Application

Panel PC / IOT Solution / Edge computing

I/O Diagram



Specifications

Model	Form Factor
<ul style="list-style-type: none">MF04V00 (J6412 CPU_10W)MF04V02 (J6412 CPU_10W, W/TPM2.0)MF04V03 (J6412 CPU_10W, 32GB eMMC)MF04V07 (J6412 CPU_10W, 32GB eMMC, W/TPM2.0)	3.5" (5.8-in * 4.0-in, 148 * 102mm)
Processor System	Expansion Slot
<ul style="list-style-type: none">Intel® Elkhart Lake J6412 SoC Processor (TDP 10W)AMI Flash ROM BIOS	<ul style="list-style-type: none">1* M.2 B-key (3042) Support USB3.1/USB2.0 interface W/SIM card slot1* M.2 E-key (2230) Support USB2.0/PCIe Gen.3 x1 interface
Memory	Graphics
2* SO-DIMM DDR4 3200MHz Dual Channel SDRAM up to 32GB	<ul style="list-style-type: none">Intel® HD Graphics, shared memory1* eDP (Max Resolution: 4096x2160@60Hz)1* LVDS (Max Resolution: 1920x1080@60Hz)2* HDMI2.0b (Max Resolution: 4096x2160@60Hz)
Ethernet	Audio
<ul style="list-style-type: none">2* Intel® i225V 2.5GbE	2 channel HD audio: Realtek® ALC888S
Storage	Integrated Storage
<ul style="list-style-type: none">1* SATAIII32GB onboard eMMC (MF04V03 & MF04V07)1* M.2 M-key (2242/2280) PCIe Gen.3 x2/SATA interface Support NVME	N/A
Rear I/O	Internal Connector
<ul style="list-style-type: none">3* USB3.1 (Gen.2), 3* USB2.02* HDMI2* RJ45Line-out/MIC combo jackDC-in (12~24V)	<ul style="list-style-type: none">2* USB2.01* eDP (co-layout LVDS)1* LVDS w/ Inverter1* RS232, 1* RS232/422/4851* SATAIII1* SIM card slot (along with M.2 B-key)1* GPIO (8 bit)1* Audio Header1* SMBUS1* CPU FAN1* TPM2.0 onboard (MF04V02 & MF04V07)
Watchdog Timer	Power
<ul style="list-style-type: none">From Super I/O to drag RESETCON#256 segments (10sec ~ 255min)	DC-IN 12~24V AT/ATX Supported - AT: Directly PWR on as Power input ready - ATX: Press Button to PWR on after Power input ready
Compliance	Temperature
CE, FCC, LVD, RoHS, REACH	<ul style="list-style-type: none">Operating: 0°C ~ 60°CStorage: -40°C ~ 85°CHumidity: 10% ~ 90% RH @40°C (non-condensing)
Warranty	OS Support
CE, FCC, LVD, RoHS, REACH	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)
Warranty	

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

Standard Accessories

Part Number	Description
	MF04V0X M/B
G01-COM-H2M22-1F	COM cable

Mechanical Drawings (Unit = mm)

