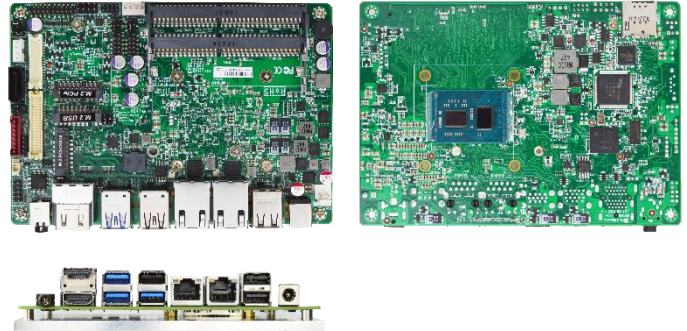


## MF04VOX Series

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, 64GB 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); 64GB eMMC (default)
8. Support 12~24V DC-in



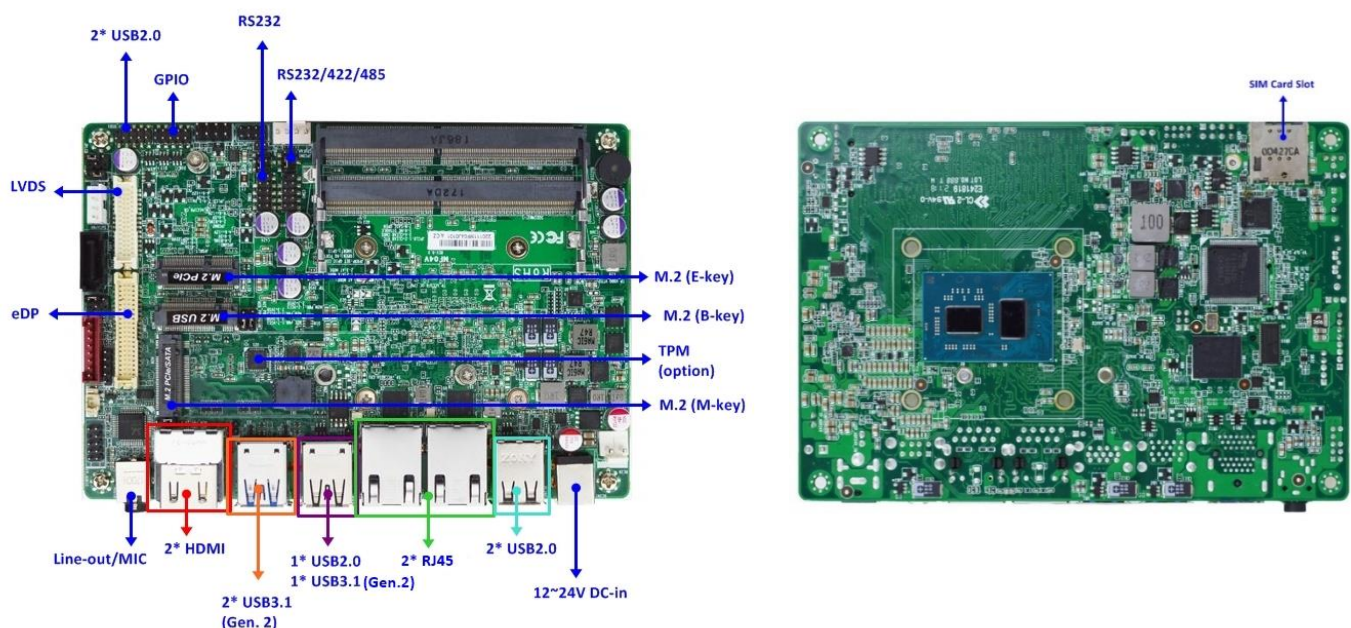
### Overview

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 64GB 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

<b>Model</b> <ul style="list-style-type: none"> <li>MF04V00 (J6412 CPU_10W)</li> <li>MF04V02 (J6412 CPU_10W, W/TPM2.0)</li> <li>MF04V04 (J6412 CPU_10W, 64GB eMMC)</li> <li>MF04V08 (J6412 CPU_10W, 64GB eMMC, W/TPM2.0)</li> </ul>	<b>Form Factor</b> 3.5" (5.8-in * 4.0-in, 148 * 102mm)
<b>Processor System</b> <ul style="list-style-type: none"> <li>Intel® Elkhart Lake J6412 SoC Processor (TDP 10W)</li> <li>AMI Flash ROM BIOS</li> </ul>	<b>Expansion Slot</b> <ul style="list-style-type: none"> <li>1* M.2 B-key (3042) Support USB3.1/USB2.0 interface W/SIM card slot</li> <li>1* M.2 E-key (2230) Support USB2.0/PCIe Gen.3 x1 interface</li> </ul>
<b>Memory</b> 2* SO-DIMM DDR4 3200MHz Dual Channel SDRAM up to 32GB	<b>Graphics</b> <ul style="list-style-type: none"> <li>Intel® HD Graphics, shared memory</li> <li>1* eDP (Max Resolution: 4096x2160@60Hz)</li> <li>1* LVDS (Max Resolution: 1920x1080@60Hz)</li> <li>2* HDMI2.0b (Max Resolution: 4096x2160@60Hz)</li> </ul>
<b>Ethernet</b> <ul style="list-style-type: none"> <li>2* Intel® i225V 2.5GbE</li> </ul>	<b>Audio</b> 2 channel HD audio: Realtek® ALC888S
<b>Storage</b> <ul style="list-style-type: none"> <li>1* SATAIII</li> <li>64GB onboard eMMC (MF04V04 &amp; MF04V08)</li> <li>1* M.2 M-key (2242/2280) PCIe Gen.3 x2/SATA interface Support NVME</li> </ul>	<b>Integrated Storage</b> N/A
<b>Rear I/O</b> <ul style="list-style-type: none"> <li>3* USB3.1 (Gen.2), 3* USB2.0</li> <li>2* HDMI</li> <li>2* RJ45</li> <li>Line-out/MIC combo jack</li> <li>DC-in (12~24V)</li> </ul>	<b>Internal Connector</b> <ul style="list-style-type: none"> <li>2* USB2.0</li> <li>1* eDP (co-layout LVDS)</li> <li>1* LVDS w/ Inverter</li> <li>1* RS232, 1* RS232/422/485</li> <li>1* SATAIII</li> <li>1* SIM card slot (along with M.2 B-key)</li> <li>1* GPIO (8 bit)</li> <li>1* Audio Header</li> <li>1* SMBUS</li> <li>1* CPU FAN</li> <li>1* TPM2.0 onboard (MF04V02 &amp; MF04V07)</li> </ul>
<b>Watchdog Timer</b> <ul style="list-style-type: none"> <li>From Super I/O to drag RESETCON#</li> <li>256 segments (10sec ~ 255min)</li> </ul>	<b>Power</b> 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
<b>Compliance</b> CE, FCC, LVD, RoHS, REACH	<b>Temperature</b> <ul style="list-style-type: none"> <li>Operating: 0°C ~ 60°C</li> <li>Storage: -20°C ~ 85°C</li> <li>Humidity: 10% ~ 90% RH @40°C (non-condensing)</li> </ul>
<b>Warranty</b> CE, FCC, LVD, RoHS, REACH	<b>OS Support</b> 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)
<b>Warranty</b> 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
	MF04V0X M/B
G01-COM-H2M22-1F	2* COM cable
G01-SATA3-BL-1F	1* SATA cable
G01-PW4PS-2S-322F	1* SATA Power Y cable
HCS3XXMHT03S-1F	1* Flat type Heatsink

**Mechanical Drawings (Unit = mm)**

