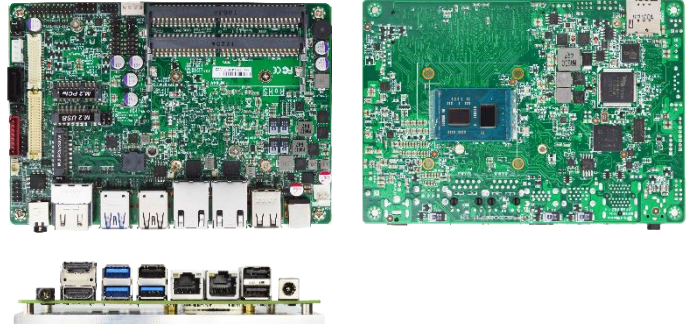




MF04V3X Series

Intel® Elkhart Lake N6210 processor, 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



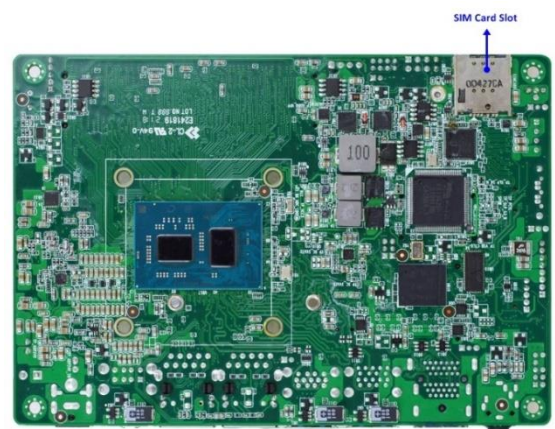
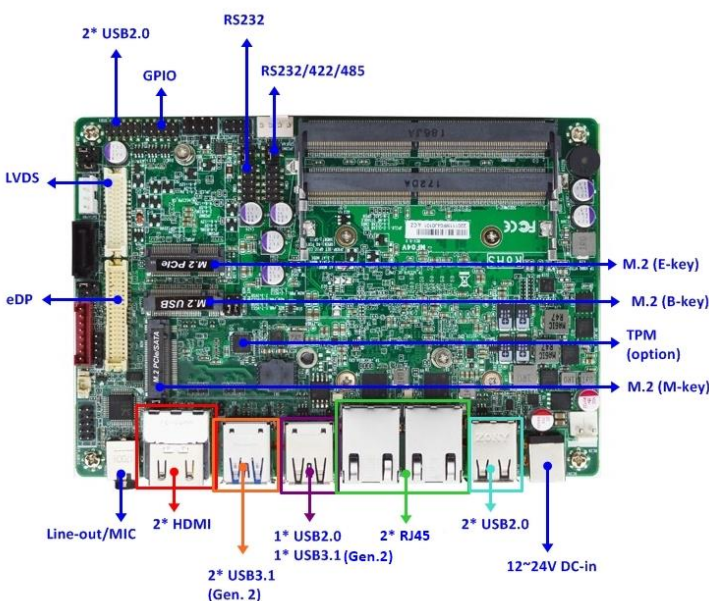
Overview

The JETWAY MF04V3X Series is 3.5" form factor board adopts the Intel® Elkhart Lake N6210 SoC Processor. The board supports two SO-DIMM DDR4 3200MHz memory, up to 32GB. Featuring the integrated Intel® 2.5 Gigabit Ethernet controller, the MF04V3X 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 MF04V3X Series offers two HDMI2.0b ports and one LVDS (co-layout eDP). Because of the above features, MF04V3X Series is suitable for Panel PC, IOT Solution, Edge computing applications.

Application

Panel PC / IOT Solution / Edge computing

I/O Diagram



Specifications

Model

- MF04V30 (N6210 CPU_6.5W)
- MF04V32 (N6210 CPU_6.5W, W/TPM2.0)
- MF04V34 (N6210 CPU_6.5W, 64GB eMMC)
- MF04V38 (N6210 CPU_6.5W, 64GB eMMC, W/TPM2.0)

Processor System

- Intel® Elkhart Lake N6210 SoC Processor (TDP 6.5W)
- AMI Flash ROM BIOS

Memory

2* SO-DIMM DDR4 3200MHz Dual Channel SDRAM up to 32GB

Ethernet

- 2* Intel® i225V 2.5GbE

Storage

- 1* SATAIII
- 64GB onboard eMMC (MF04V34 & MF04V38)
- 1* M.2 M-key (2242/2280) PCIe Gen.3 x2/SATA interface Support NVME

Rear I/O

- 3* USB3.1 (Gen.2), 3* USB2.0
- 2* HDMI
- 2* RJ45
- Line-out/MIC combo jack
- DC-in (12~24V)

Watchdog Timer

- From Super I/O to drag RESETCON#
- 256 segments (10sec ~ 255min)

Compliance

CE, FCC, LVD, RoHS, REACH

Warranty

2 Years Limited Warranty

Form Factor

3.5" (5.8-in * 4.0-in, 148 * 102mm)

Expansion Slot

- 1* M.2 B-key (3042) Support USB3.1/USB2.0 interface W/SIM card slot
- 1* M.2 E-key (2230) Support USB2.0/PCIe Gen.3 x1 interface

Graphics

- Intel® HD Graphics, shared memory
- 1* eDP (Max Resolution: 4096x2160@60Hz)
- 1* LVDS (Max Resolution: 1920x1080@60Hz)
- 2* HDMI2.0b (Max Resolution: 4096x2160@60Hz)

Audio

2 channel HD audio: Realtek® ALC888S

Integrated Storage

N/A

Internal Connector

- 2* USB2.0
- 1* eDP (co-layout LVDS)
- 1* LVDS w/ Inverter
- 1* RS232, 1* RS232/422/485
- 1* SATAIII
- 1* SIM card slot (along with M.2 B-key)
- 1* GPIO (8 bit)
- 1* Audio Header
- 1* SMBUS
- 1* CPU FAN
- 1* TPM2.0 onboard (MF04V32 & MF04V37)

Power

DC-IN 12~24V
AT/ATX mode Supported
- AT: Directly PWR on as Power input ready
- ATX: Press Button to PWR on after Power input ready

Temperature

- Operating: 0°C ~ 60°C
- Storage: -20°C ~ 85°C
- Humidity: 10% ~ 90% RH @40°C (non-condensing)

OS Support

UEFI Win10 64-bit, Win 10 IoT Enterprise 64-bit LTSC 2019, UEFI Win 11 64-bit, UEFI Win 11 IoT Enterprise, CentOS (Version 8.3.2011), Debian (Version 11.1.0), Fedora-LXDE (Version 33-1.2), Fedora Workstation (Version 33-1.2), Fedora Server (Version 33-1.2), Ubuntu Standard / LTS (Version 20.04.3), Ubuntu Server (Version 20.04.3), pfSense (Version 2.5.2), TrueNAS (Version 12.0-U2.1), OPNSense (Version 21.7.1)

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

Standard Accessories

| Part Number | Description |
|-------------------|-----------------------|
| | MF04V3X 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)

