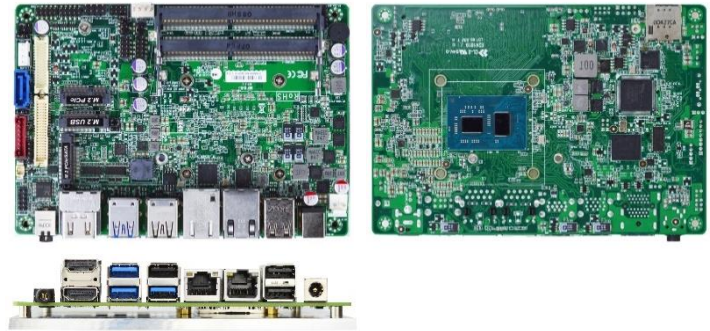


MF04-33 / MF04-37

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, 32GB eMMC (default), 1* 2.5GbE, 1* GbE, 12~24V DC-in

1. Intel® Elkhart Lake SoC Processor
2. 2* DDR4 3200MHz SO-DIMM up to 32GB
3. 1* Intel i211AT GbE, 1* Intel i225LM 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



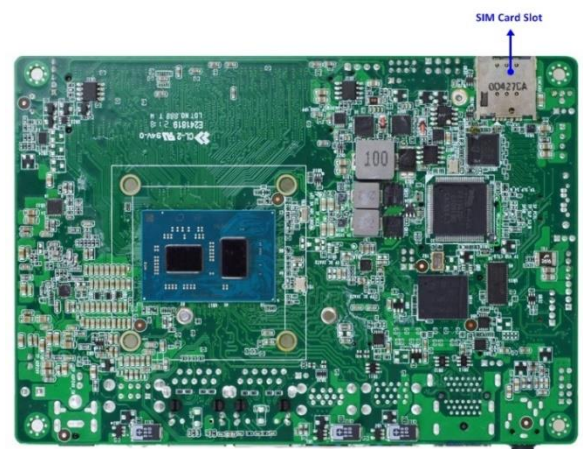
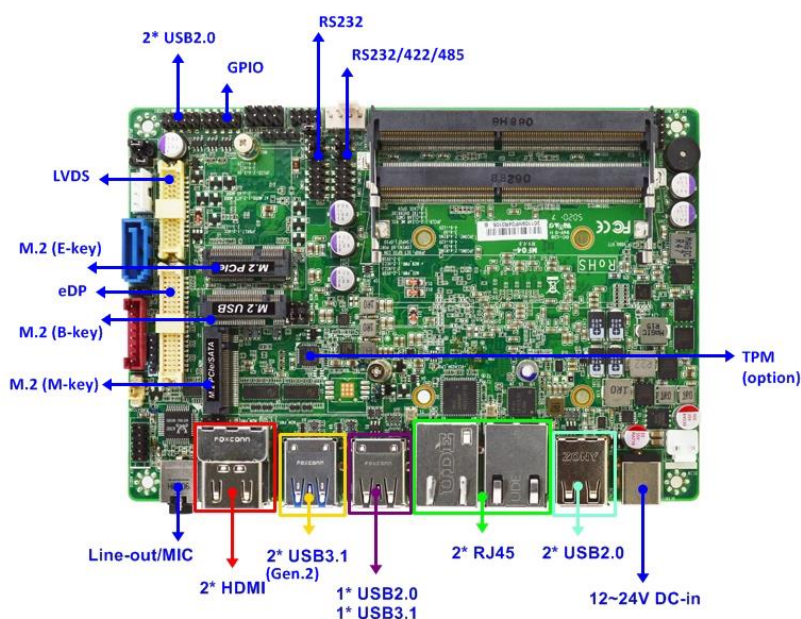
Overview

The JETWAY MF04-33/MF04-37 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® Gigabit Ethernet controller, the MF04-33/MF04-37 offers one 10/100/1000Base-TX Ethernet device & one 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 MF04-33/MF04-37 offers two HDMI2.0b ports and one LVDS (co-layout eDP). Because of the above features, MF04-33/MF04-37 is suitable for Panel PC, IOT Solution, Edge computing applications.

Application

Panel PC / IOT Solution / Edge computing

I/O Diagram



Specifications

Model
- MF04-33 (N6210 CPU_6.5W, 32GB eMMC) - MF04-37 (N6210 CPU_6.5W, 32GB 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 SDRAM up to 32GB

Ethernet
1* Intel® i211AT GbE 1* Intel® i225LM 2.5GbE

Storage
1* SATAIII 32GB onboard eMMC (default) 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

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

Accessories

Parts Number	Description
-----	MF04-33/MF04-37 Series M/B

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® ALC662

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 (MF04-37)

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: -40°C ~ 85°C - Humidity: 10% ~ 90% RH @40°C (non-condensing)

Parts Number	Description
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