MF04

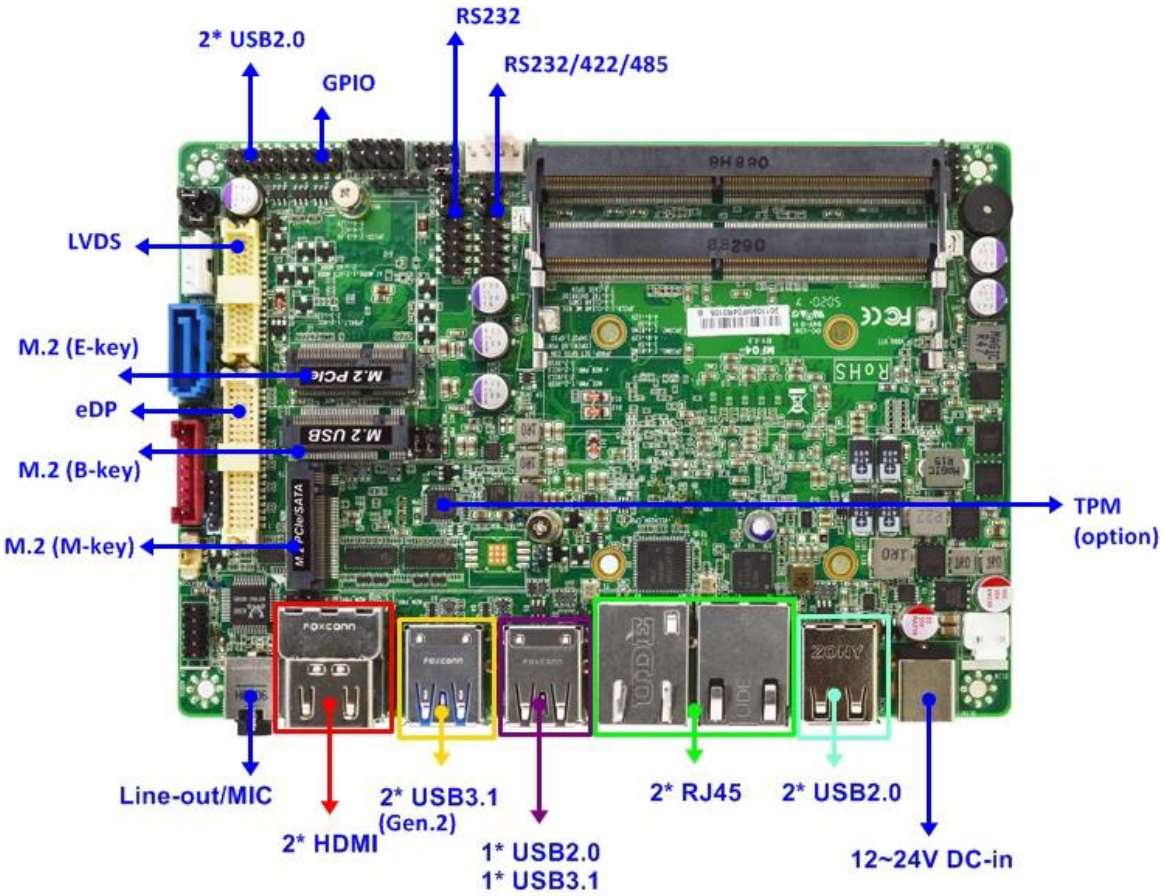
3.5” Elkhart Lake Industrial Motherboard
2 Intel LAN / 2 HDMI / eDP/LVDS / 12-24V





Features

1. CPU Mounted on Bottom of Motherboard for Easy Integration into Fanless Systems
2. Intel Celeron J6412 Quad-Core, SOC Processor
3. Supports DDR4-3200 SODIMM up to 32GB Total
4. 2 * HDMI 4K@60Hz, LVDS/eDP 4K @60Hz
5. 1 * Intel Gigabit LAN, 1 * Intel 2.5GbE LAN, HD Audio
6. 1 * SATA3 6Gb/s, 1 * M.2 SATA/PCIE x2 2242/2280
7. 1 * M.2 3042 B-key with SIM Card Slot
8. 3 * USB 3.1 Gen2, 5 * USB 2.0 Ports
9. 2 * Serial Ports, 8-bit GPIO, Watchdog Timer
10. 12-24V DC-In Jack or 2-pin Alternate internal Connector
11. 3.5” SBC Form Factor (148mm x 102mm)



Model / Series	■ MF04
Part No	■ MF04-03 (J6412), MF04-07 (J6412, TPM 2.0) ■ MF04-33 (N6210), MF04-37 (N6210, TPM 2.0)
Processor	■ Intel Celeron J6412 Quad-core SoC ■ *Ships with flat aluminum heatsink for direct attach
Chipset	■ SoC
Video	■ Intel UHD Graphics for 10th Gen Intel Processors
Memory	■ 2 * 260-pin SO-DIMM slot supporting DDR4-3200 up to 32GB total
Expansion Slots	■ 1 * M.2 2230 E-key (CNVI) ■ 1 * M.2 3042 B-key with SIM card holder
Storage	■ 1 * SATA3 6Gb/s port, 1 * M.2 M-key SATA * PCIE 3.0 x2 NVME 2242/2280 ■ Onboard 32GB EMMC
Audio	■ Realtek HD audio
Network	■ 1 * Intel i225-LM 2.5GbE LAN, 1 * Intel i211-AT Gigabit LAN
Other Features	■ Support ACPI S3, AHCI, CPU Smart FAN, Watchdog Timer 10-255 min/sec, Optional TPM
Rear Panel I/O	■ 3 * USB 3.1 Gen2 ports, 3 * USB 2.0 ports ■ 2 * RJ-45 LAN ports ■ 2 * HDMI 4K @60Hz ■ Line-out/Mic combo jack, SIM card slot ■ +12-24V DC-in jack (2.5mm ID/5.5mm OD)
Front Panel I/O	■ None
Internal I/O	■ 1 * USB Header for 2 * USB 2.0 ports ■ 2 * Serial headers (1 * RS232, 1 * RS232/422/485) ■ SMBus, eDP 4K @60Hz, LVDS 1080P ■ 8-bit GPIO header, AT/ATX power switch mode jumper ■ 2-pin 12-24V Alternative power connector
BIOS	■ AMI Flash ROM
Box Contents	■ MF04 Motherboard
Certification	■ CE, FCC, RoHS, ErP
Temperature	■ Operating Temperature 0~60 ° C, Storage Temperature -20-85 ° C
Form Factor	■ 3.5” SBC Form Factor (148mm x 102mm)
Warranty	■ 2 Years Limited Warranty

*Specifications subject to change without notice, not responsible for typographical errors.

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