



MF04V – 3.5" SBC with Elkhart Lake SoC

The MF04V is a 3.5" SBC equipped with an Elkhart Lake SoC, allowing for excellent performance in a small form factor with extensive I/O options. The MF04V is a perfect industrial solution across many applications from industrial automation to digital signage and point of sale among many others.

SPECIFICATIONS

CPU	Intel® Celeron J6412 Quad Core (1.5M Cache, 2.60GHz) 10W, Intel® Celeron N6210 Dual Core (1.5M Cache, 2.60GHz) 6.5W
Memory Type	260-pin DDR4 3200MHz SO-DIMM
Memory Slots	2
Maximum Memory Supported	32GB
Chipset	Integrated in SoC
Integrated Graphics	Intel® UHD Graphics
Watchdog Timer	10 ~ 255 min/sec
Video	2 x HDMI 4K @60Hz, 1 x eDP 4K @60Hz, 1 x LVDS 1080P
LAN Ports	2 x Intel I225-V 2.5GbE
Storage	1 x SATA III, 1 x M.2 M-key SATA/PCIe 3.0 x2 NVMe 2242/2280, eMMC Embedded Storage (32GB or 64GB, see Ordering Options)
GPIO Interface	1 x 8-bit GPIO Header
TPM	Intel fTPM 2.0 (PTT), Optional Onboard NUVOTON TPM v2.0

Extended Interface	1 x M.2 E-Key 2230 (USB and PCIe for WiFi), 1 x M.2 B-Key 3042 (3G/4G/LTE cofunction with SIM Card Slot), 1 x M.2 M-key SATA/PCIe 3.0 x2 NVMe 2242/2280
Rear I/O	3 x USB 3.1 Gen2, 3 x USB 2.0, 2 x LAN, 2 x HDMI, 1 x Audio Jack, 1 x 12 ~ 24V DC Input Jack
Front I/O	1 x Micro SIM Card Slot
Internal I/O	2 x USB 2.0, 1 x GPIO, 1 x LVDS, 1 x eDP, 1 x Audio, 1 x RS-232/422/485, 1 x RS-232, 1 x 2-pin 12 ~ 24V DC Input
Audio	Realtek HD Audio
Power Requirement	12 ~ 24V DC Input Jack or 12 ~ 24V DC Input 2-pin Header
Dimensions	5.83" x 4.02" (148mm x 102mm)
Operating Temperature	32 ~ 140°F (0 ~ 60°C)
Storage Temperature	-4 ~ 185°F (-20 ~ 85°C)
Relative Humidity	10 ~ 90% @ 40°C (non-condensing)
OS Software Supported	Windows 10 64-bit, Windows 10 IoT Enterprise 64-bit, Windows 11 64-bit, CentOS 9, Debian 11.3, Fedora 36-1.5, OpenSUSE 15.4, FreeBSD 13.1, OPNSense 22.1.2, pfSense 2.6.0, Ubuntu 22.04
Global P/N / SKU	3308941

Ordering Options

MF04V04 (SKU# 3308941A): 3.5" SBC with Intel® Celeron J6412 Processor, 64GB eMMC MF04V08 (SKU# 3308941B): 3.5" SBC with Intel® Celeron J6412 Processor, 64GB eMMC, TPM 2.0 MF04V34 (SKU# 3308941C): 3.5" SBC with Intel® Celeron N6210 Processor, 64GB eMMC MF04V38 (SKU# 3308941D): 3.5" SBC with Intel® Celeron N6210 Processor, 64GB eMMC, TPM 2.0