



MF20 – 3.5" SBC with Intel® Celeron J6412 Processor

The MF20 is a 3.5" SBC equipped with an Intel® Celeron J6412 processor, as well as 6 serial ports and support for up to 3 simultaneous displays. The MF20 is astoundingly versatile with its small form factor and impressive performance. It is an excellent solution that is perfect for deployed into many market segments.

SPECIFICATIONS

CPU	Intel® Celeron J6412
Memory Type	260-pin DDR4 3200MHz SO-DIMM
Memory Slots	1
Maximum Memory Supported	32GB
Chipset	Integrated in SoC
Integrated Graphics	Intel® UHD Graphics
Watchdog Timer	10 ~ 255 min/sec
Video	2 x HDMI 2.0b 4K @ 60Hz, 1 x eDP 4K @ 60Hz or 24bit LVDS (Choose One)
LAN Ports	2 x Intel I225-V 2.5GbE
Storage	1 x SATA III, 1 x M.2 M-key 2242/2280 (SATA/PCIe 3.0 x2 NVMe), Optional eMMC Embedded Storage
GPIO Interface	1 x 8-bit GPIO Header
TPM	Intel fTPM 2.0 (PTT), Optional Onboard NUVOTON TPM v2.0

Rear I/O	3 x USB 3.2 Gen2, 3 x USB 2.0, 2 x LAN, 2 x HDMI, 1 x Audio Jack, 1 x 12 ~ 24V DC Input Jack
Internal I/O	2 x USB 2.0 Headers, 1 x GPIO, 1 x LVDS, 1 x eDP, 1 x RS-232/422/485, 5 x RS-232, 1 x SIM Socket, 1 x Audio, 1 x 2-pin 12 ~ 24V DC Input
Audio	Realtek ALC888S 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	3308943

Ordering Options

MF20-00 (SKU# 3308943A): 3.5" SBC with Intel® Celeron J6412 Processor MF20-02 (SKU# 3308943B): 3.5" SBC with Intel® Celeron J6412 Processor, TPM 2.0 MF20-03 (SKU# 3308943C): 3.5" SBC with Intel® Celeron J6412 Processor, 32GB eMMC MF20-04 (SKU# 3308943D): 3.5" SBC with Intel® Celeron J6412 Processor, 64GB eMMC MF20-07 (SKU# 3308943E): 3.5" SBC with Intel® Celeron J6412 Processor, 32GB eMMC, TPM 2.0 MF20-08 (SKU# 3308943F): 3.5" SBC with Intel® Celeron J6412 Processor, 64GB eMMC, TPM 2.0