



MF05V – 3.5" SBC with Intel® Core i5-1145G7E Processor

The MF05V is a 3.5" SBC equipped with an Intel® Core i5-1145G7E processor, as well as 2.5 Gigabit Ethernet and support for up to 4 simultaneous displays. The MF05V is a small form factor board with an embedded processor that has a planned lifecycle through 2035. It has impressive performance and is an excellent solution for industrial automation, retail, and many other applications.

SPECIFICATIONS

CPU	Intel i5-1145G7E Quad-core CPU 15W TDP
Memory Type	260-pin DDR4 3200MHz SO-DIMM
Memory Slots	2
Maximum Memory Supported	64GB
Chipset	Integrated in SoC
Integrated Graphics	Intel® Iris® Xe Graphics
Watchdog Timer	10 ~ 255 min/sec
Video	2 x HDMI 4K @ 60Hz, 2 x DisplayPort 4K @ 60Hz, 1 x eDP 4K @ 60Hz, 1 x LVDS 1080P
LAN Ports	1 x Intel I225-V PCIe 2.5GbE, 1 x Intel I219-LM PHY Gigabit LAN (iAMT 12.0)
Serial ATA (SATA)	1 x SATA III
GPIO Interface	1 x 8-bit GPIO Header
TPM	Intel fTPM 2.0 (PTT), Optional Onboard NUVOTON TPM v2.0

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 8.2_2004, RedHat 8.2, Fedora 33.1.2, OpenSUSE 15.2, Ubuntu 20.04.1
Global P/N / SKU	3308944

Ordering Options

MF05V20 (SKU# 3308944A): 3.5" SBC With Intel® Core i5-1145G7E Processor MF05V22 (SKU# 3308944B):
3.5" SBC With Intel® Core i5-1145G7E Processor, TPM 2.0