

Specifications

Model

- MF05V20 (i5-1145G7E Default)
- MF05V22 (i5-1145G7E, TPM2.0)
- MF05V90 (i5-1135G7)
- MF05V92 (i5-1135G7, TPM2.0)

Processor System

- Intel® Tiger Lake i5-1145G7E SoC Processor (TDP 12~28W) (Default)
- Intel® Tiger Lake i5-1135G7 SoC Processor (TDP 12~28W)
- AMI Flash ROM BIOS

Storage

- 1* SATAIII
- 1* M.2 M-key 2242/2280, PCIe 4.0 x4 interface, support NVME

Ethernet

- 1* Intel i219-LM 1.0GbE
- 1* Intel i225-V 2.5GbE

Audio

- HD audio: Realtek ALC888S-VD2
- 3W AMP speaker

Internal I/O

- 4* USB 2.0
- 1* PS/2
- 1* LVDS / Inverter
- 1* eDP
- 4* COM (2* RS232/422/485, 2* RS232)
- 1* SATAIII
- 1* GPIO (8 bit)
- 1* Chassis intrusion
- 1* Speaker header (4pin)
- 1* SMBUS
- 1* AT/ATX mode jumper
- Optional onboard TPM2.0 (MF05V-22)

Power

DC-in 12-24V

- AT: Directly PWR on as Power input ready
- ATX: Press Button to PWR on after Power input ready
- 90W adaptor is Recommended

Temperature

- Operating: 0°C ~ 60°C
- Storage: -20°C ~ 85°C
- Humidity: 10% ~ 90% RH @40°C (non-condensing)

Warranty

2 Years limited warranty

Form Factor

3.5" (5.8-in * 4.0-in, 148 * 102mm)

Memory

2* DDR4-3200 Dual Channel SO-DIMM up to 64GB total

Expansion

1* M.2 E-key (2230) USB2.0/PCIex1 interface support CNVi

Graphics

Intel® HD Graphics, shared memory

- 1* eDP (Max Resolution: 4096x2304@60Hz)
- 1* LVDS (Max Resolution: 1920x1200@60Hz)
- 2* HDMI 2.0b (Max Resolution: 4096x2160@60Hz)
- 2* DP1.4 (Max Resolution: 4096x2304@60Hz)
- Support Four independent 4K HDR Displays or one 8K SDR Displays (DP)

Watchdog Timer

- From Super I/O to drag RESETCON#
- 256 segments (10sec ~ 255min)

External I/O

- 4* USB3.2 (Gen. 2)
- 2* DP
- 2* HDMI
- 2* RJ45
- Line-out/MIC Combo
- DC-in (12-24V)

Compliance

CE, FCC, LVD, RoHS, REACH

OS Support

UEFI Win10 64-bit (Version: Build 10.0.19042.631), Win 10 IoT Enterprise 64-bit LTSC 2019 (Version: Build 17763.107), UEFI Win 11 64-bit (Version: Build 22000.65), UEFI Win 11 IoT Enterprise (Version: Build 22000.65), CentOS (Version: 8.2.2004), Fedora-LXDE (Version: 33.1.2), Fedora Workstation (Version: 33.1.2), Fedora Server (Version: 33.1.2), OpenSUSE (Version: 15.2), Ubuntu Standard / LTS (Version: 20.04.1)

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

Ordering Info

Part Number	Description
	MF05V M/B
G01-COM-H2M22-1F	2* COM cable
G01-SATA3-BL-1F	1* SATA cable
G01-PW4PS2S-322-1F	1* SATA Power cable
HCS3XXMHT03S-1F	1* Flat type Heatsink

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