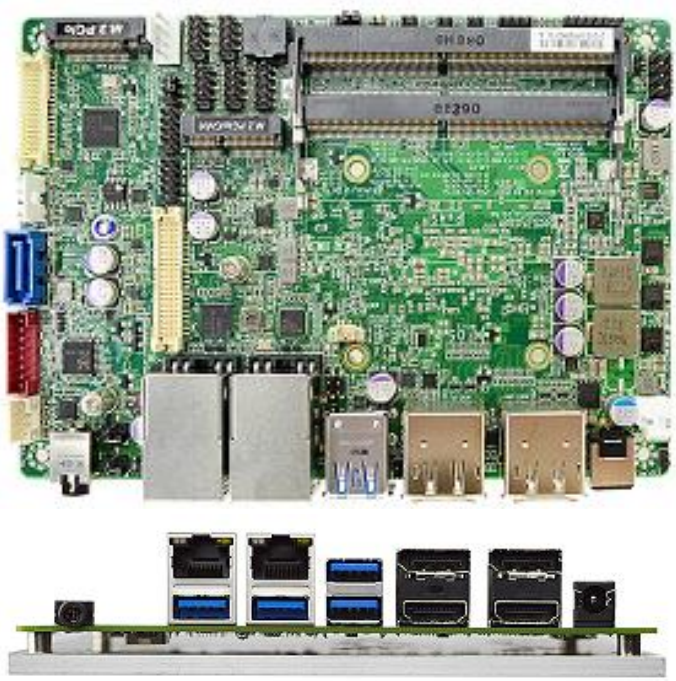
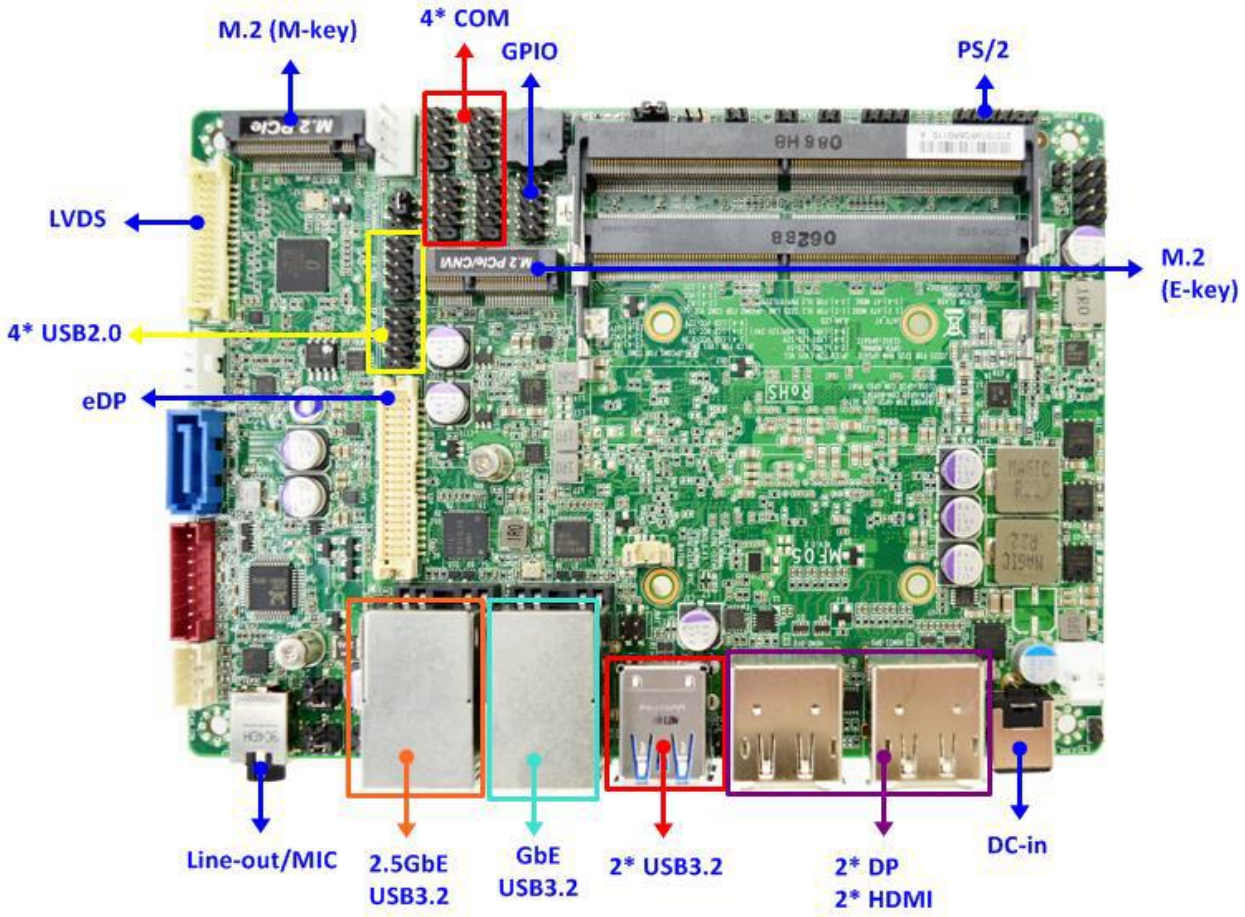
MF05V

3.5” SBC Tiger Lake-UP3 Industrial Motherboard
2.5GbE+1GbE / 2*HDMI+2*DP / eDP/LVDS / 12-24V



Features

1. Long-Life Embedded Class Industrial Motherboard with Planned Lifecycle Through Q3’2035
2. CPU Mounted on Bottom of Motherboard for Easy Integration into Fanless Systems
3. 11th Gen Intel Core i5-1145G7E, 15W SOC Processor
4. Supports DDR4-3200 SODIMM up to 64GB Total
5. Intel Iris Xe Graphics, HD Audio, 3W Amplifier
6. 2*HDMI, 2*DP, LVDS/eDP, up to 4 * 4K or 1 * 8K (DP)
7. 1 * Intel 2.5GbE, 1 * Intel 1GbE
8. 1 * SATA3 6Gb/s, 1 * M.2 PCIE 4.0 x4 NVME, M.2 2230
9. 4 * USB 3.2 Gen2 (10Gb/s), 4 * USB 2.0 Ports
10. 4 * Serial Ports, 8-bit GPIO, Watchdog Timer
11. 12-24V DC-In Jack or 2-pin Alternate internal Connector
12. 3.5” SBC Form Factor (148mm x 102mm)



Model / Series	■ MF05V
Part No	■ Embedded: MF05V20 (i5-1145G7E), MF05V22 (i5-1145G7E, TPM 2.0) ■ Non-Embedded: MF05V90 (i5-1135G7), MF05V92 (i5-1135G7, TPM 2.0)
Processor	■ 11th Gen Intel Core i5-1145G7E Quad-core, 15W, Tiger Lake-UP3 ■ *Ships with flat aluminum heatsink for direct attach
Chipset	■ SoC
Video	■ Intel Iris Xe Graphics, up to 4 * 4K or 1 * 8K (DP)
Memory	■ 2 * 260-pin SO-DIMM slot supporting dual channel DDR4-3200 up to 64GB total
Expansion Slots	■ 1 * M.2 2230 E-key (CNVI, USB/PCIE)
Storage	■ 1 * SATA3 6Gb/s port, 1 * M.2 PCIE 4.0 x4 M-key 2242/2280
Audio	■ Realtek ALC888S HD audio, 3W amplifier
Network	■ 1 * Intel i225/i226-V 2.5GbE LAN ■ 1 * Intel i219-LM 1GbE LAN
Other Features	■ Support ACPI S3, AHCI, CPU Smart FAN, Watchdog Timer 10-255 min/sec, Optional TPM
Rear Panel I/O	■ 4 * USB 3.2 Gen2 ports (10Gb/s) ■ 2 * RJ-45 LAN ports ■ 2 * HDMI 4K @60Hz, 2 * Displayport 4K @60Hz ■ Line-out / Mic-in combo jack ■ +12-24V DC-in jack (2.5mm ID/5.5mm OD)
Front Panel I/O	■ None
Internal I/O	■ 2 * USB Headers for 4 * USB 2.0 ports ■ 4 * Serial headers (2 * RS232, 2 * 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	■ MF05V Motherboard, Internal Power Cable (SATA data & COM cables not included)
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.

JETWAY
Tech.On The Move

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