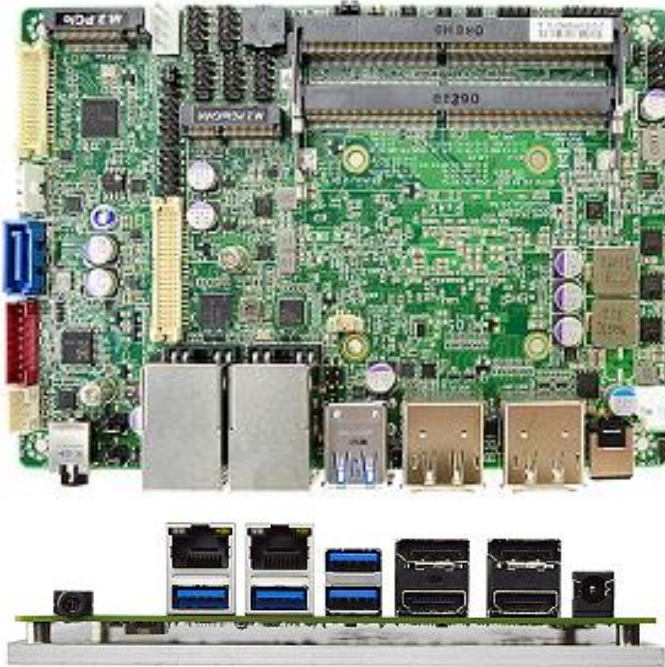


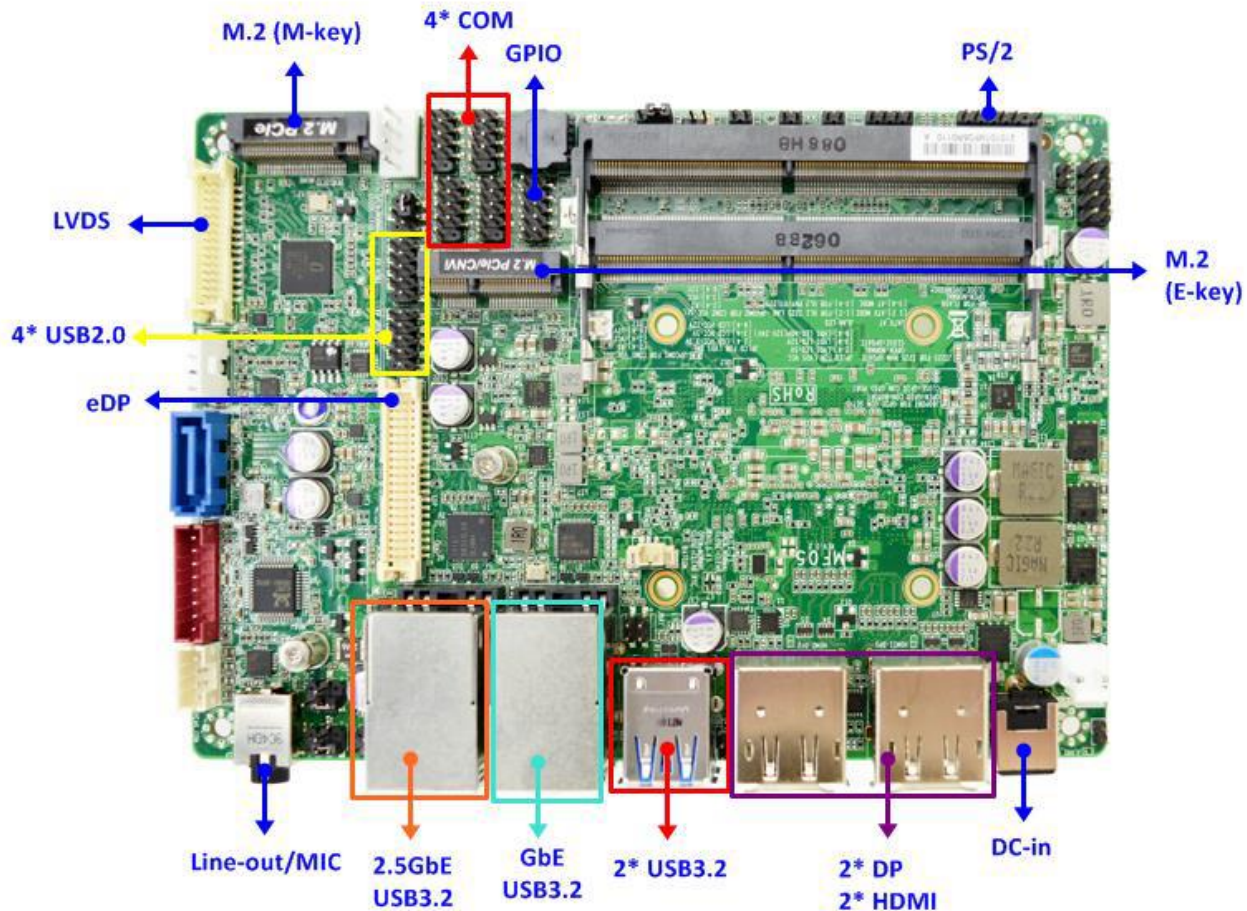
MF05V

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 i225-V 2.5GbE, 1 * Intel i219-LM 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	<ul style="list-style-type: none"> MF05V
Part No	<ul style="list-style-type: none"> Embedded: MF05V20 (i5-1145G7E), MF05V22 (i5-1145G7E, TPM 2.0) Non-Embedded: MF05V90 (i5-1135G7), MF05V92 (i5-1135G7, TPM 2.0)
Processor	<ul style="list-style-type: none"> 11th Gen Intel Core i5-1145G7E Quad-core, 15W, Tiger Lake-UP3 *Ships with flat aluminum heatsink for direct attach
Chipset	<ul style="list-style-type: none"> SoC
Video	<ul style="list-style-type: none"> Intel Iris Xe Graphics, up to 4 * 4K or 1 * 8K (DP)
Memory	<ul style="list-style-type: none"> 2 * 260-pin SO-DIMM slot supporting dual channel DDR4-3200 up to 64GB total
Expansion Slots	<ul style="list-style-type: none"> 1 * M.2 2230 E-key (CNVI, USB/PCIE)
Storage	<ul style="list-style-type: none"> 1 * SATA3 6Gb/s port, 1 * M.2 PCIE 4.0 x4 M-key 2242/2280
Audio	<ul style="list-style-type: none"> Realtek ALC888S HD audio, 3W amplifier
Network	<ul style="list-style-type: none"> 1 * Intel i225-V 2.5GbE LAN, 1 * Intel i219-LM 1GbE LAN
Other Features	<ul style="list-style-type: none"> Support ACPI S3, AHCI, CPU Smart FAN, Watchdog Timer 10-255 min/sec, Optional TPM
Rear Panel I/O	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> None
Internal I/O	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> AMI Flash ROM
Box Contents	<ul style="list-style-type: none"> MF05V Motherboard, Internal Power Cable (SATA data & COM cables not included)
Certification	<ul style="list-style-type: none"> CE, FCC, RoHS, ErP
Temperature	<ul style="list-style-type: none"> Operating Temperature 0~60 ° C, Storage Temperature -20-85 ° C
Form Factor	<ul style="list-style-type: none"> 3.5" SBC Form Factor (148mm x 102mm)
Warranty	<ul style="list-style-type: none"> 2 Years Limited Warranty

*Specifications subject to change without notice, not responsible for typographical errors.



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