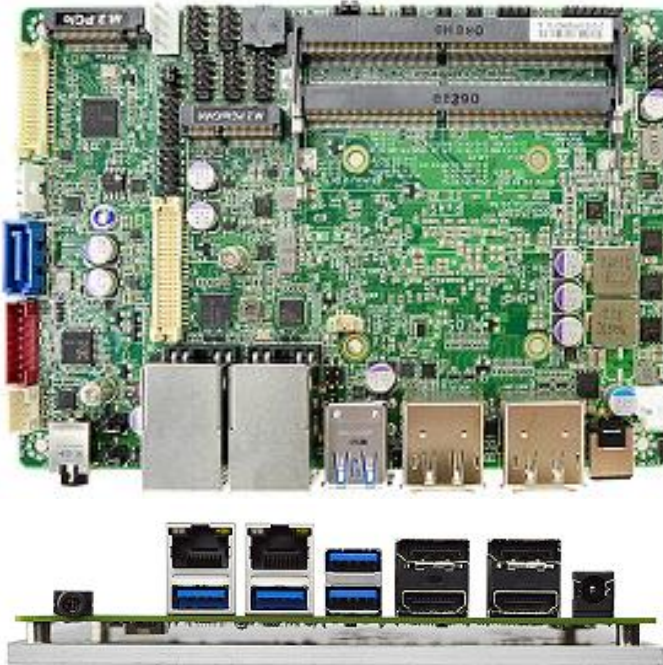


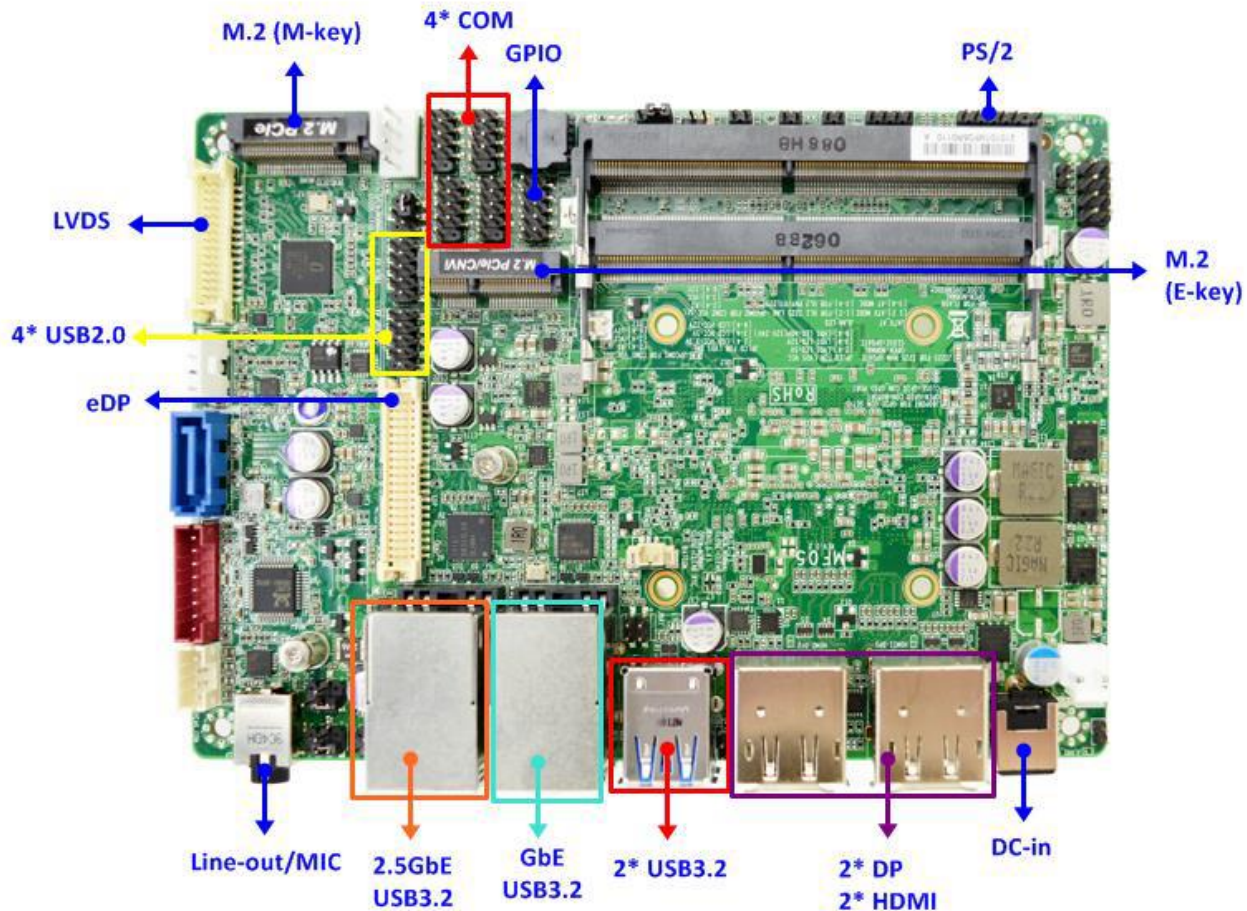
# MF05

## 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 2 \* 8K (DP)
7. 1 \* Intel i225-LM 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)



<b>Model / Series</b>	<ul style="list-style-type: none"> <li>MF05</li> </ul>
<b>Part No</b>	<ul style="list-style-type: none"> <li>Embedded: MF05-20 (i5-1145G7E), MF05-22 (i5-1145G7E, TPM 2.0)</li> <li>Non-Embedded: MF05-90 (i5-1135G7), MF05-92 (i5-1135G7, TPM 2.0)</li> </ul>
<b>Processor</b>	<ul style="list-style-type: none"> <li>11th Gen Intel Core i5-1145G7E Quad-core, 15W, Tiger Lake-UP3</li> <li>*Ships with flat aluminum heatsink for direct attach</li> </ul>
<b>Chipset</b>	<ul style="list-style-type: none"> <li>SoC</li> </ul>
<b>Video</b>	<ul style="list-style-type: none"> <li>Intel Iris Xe Graphics, up to 4 * 4K or 2 * 8K (DP)</li> </ul>
<b>Memory</b>	<ul style="list-style-type: none"> <li>1 * 260-pin SO-DIMM slot supporting dual channel DDR4-3200 up to 64GB total</li> </ul>
<b>Expansion Slots</b>	<ul style="list-style-type: none"> <li>1 * M.2 2230 E-key (CNVI, USB/PCIE)</li> </ul>
<b>Storage</b>	<ul style="list-style-type: none"> <li>1 * SATA3 6Gb/s port, 1 * M.2 PCIE 4.0 x4 M-key 2242/2280</li> </ul>
<b>Audio</b>	<ul style="list-style-type: none"> <li>Realtek ALC888S HD audio, 3W amplifier</li> </ul>
<b>Network</b>	<ul style="list-style-type: none"> <li>1 * Intel i225-LM 2.5GbE LAN, 1 * Intel i219-LM 1GbE LAN</li> </ul>
<b>Other Features</b>	<ul style="list-style-type: none"> <li>Support ACPI S3, AHCI, CPU Smart FAN, Watchdog Timer 10-255 min/sec, Optional TPM</li> </ul>
<b>Rear Panel I/O</b>	<ul style="list-style-type: none"> <li>4 * USB 3.2 Gen2 ports (10Gb/s)</li> <li>2 * RJ-45 LAN ports</li> <li>2 * HDMI 4K @60Hz, 2 * Displayport 4K @60Hz</li> <li>Line-out / Mic-in combo jack</li> <li>+12-24V DC-in jack (2.5mm ID/5.5mm OD)</li> </ul>
<b>Front Panel I/O</b>	<ul style="list-style-type: none"> <li>None</li> </ul>
<b>Internal I/O</b>	<ul style="list-style-type: none"> <li>2 * USB Headers for 4 * USB 2.0 ports</li> <li>4 * Serial headers (2 * RS232, 2 * RS232/422/485)</li> <li>SMBus, eDP 4K @60Hz, LVDS 1080P</li> <li>8-bit GPIO header, AT/ATX power switch mode jumper</li> <li>2-pin 12-24V Alternative power connector</li> </ul>
<b>BIOS</b>	<ul style="list-style-type: none"> <li>AMI Flash ROM</li> </ul>
<b>Box Contents</b>	<ul style="list-style-type: none"> <li>MF05 Motherboard, Internal Power Cable (SATA data &amp; COM cables not included)</li> </ul>
<b>Certification</b>	<ul style="list-style-type: none"> <li>CE, FCC, RoHS, ErP</li> </ul>
<b>Temperature</b>	<ul style="list-style-type: none"> <li>Operating Temperature 0~60 ° C, Storage Temperature -20-85 ° C</li> </ul>
<b>Form Factor</b>	<ul style="list-style-type: none"> <li>3.5" SBC Form Factor (148mm x 102mm)</li> </ul>
<b>Warranty</b>	<ul style="list-style-type: none"> <li>2 Years Limited Warranty</li> </ul>

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



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