



## MS-98M3 – 3.5 Inch Intel® Tiger Lake-UP3 Wide Temperature SBC

The MS-98M3 is an ultra low power 3.5" SBC equipped with an Intel® Tiger Lake-UP3 processor. This board is compact and robust with a wide temperature range of -40 ~ 70°C, making it capable of use in demanding environments. With quadruple independent display support, the MS-98M3 is an excellent embedded industrial solution.

### SPECIFICATIONS

<b>CPU</b>	Intel® IoTG Tiger Lake-UP3 Processors
<b>Memory Type</b>	260-pin DDR4 3200MHz SO-DIMM
<b>Memory Slots</b>	2
<b>Maximum Memory Supported</b>	64GB
<b>Integrated Graphics</b>	Intel® Iris® Xe for i7 / i5, Intel® UHD Graphics for i3 / Celeron
<b>Watchdog Timer</b>	256-Level
<b>Video</b>	2 x LVDS / eDP, 1 x HDMI, 1 x DP
<b>LAN Ports</b>	2 x Intel® I225-IT 2.5 GbE LAN (LAN Speed running at 1000/100/10Mbps when OP TEMP over 70°C)
<b>Serial ATA (SATA)</b>	1 x SATA III
<b>GPIO Interface</b>	16-bits (8 x GPI; 8 x GPO), 5V
<b>TPM</b>	Infineon SLB9670VQ2.0
<b>Extended Interface</b>	1 x M.2 M-Key (2280, PCIe Gen4 x4 NVMe), 1 x M.2 B-Key (2242/3042, SATA 3.0, PCIe x1, USB 2.0, w/NANO SIM-Holder), 1 x M.2 E-Key (2230, PCIe x1, USB 2.0)
<b>Rear I/O</b>	1 x DP, 1 x HDMI, 4 x USB 3.2 Gen 2, 2 x 2.5 GbE LAN
<b>Audio</b>	Realtek® ALC888-VD2-GR HD Audio Codec (Co-lay ALC897)
<b>Power Requirement</b>	DC input 12~24V
<b>Dimensions</b>	5.75" x 4.01" (146mm x 102mm)
<b>Operating Temperature</b>	-40 ~ 70°C (w/Turbo disabled) – Note* Thermal w/ Airflow:0.7m/s; the standard thermal solution only supports TDP up to 15W. 3. -40 ~ 85°C by request
<b>Storage Temperature</b>	-40 ~ 85 °C
<b>Relative Humidity</b>	10 ~ 90% (non-condensing)
<b>OS Software Supported</b>	Linux Ubuntu 22.04 (64-bit, by request), Linux Yocto Project 3.1 (64-bit, by request), Windows 10 IoT Enterprise 2019 LTSC (64-bit, RS5), Windows 10 IoT Enterprise 2021 LTSC (64-bit, 21H2), Windows 11 IoT Enterprise (64-bit, 21H2, Pre-scan)

## Ordering Options

3308926A: MS-98M3/609-98M3-010/809-98M3-014 with Core i7-1185GRE 3308926B: MS-98M3/609-98M3-010/809-98M3-015 with Core i5-1145GRE 3308926C: MS-98M3/609-98M3-010/809-98M3-016 with Core i3-1115GRE Cables included: DC Power Cable (200mm), COM port cable (150mm), USB Cable (150mm), SATA Cable with Power (230mm)

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