



## MS-CF03 – 3.5" SBC with Equipped with Alder Lake-N Processor and Support for DDR5

The MS-CF03 is a 3.5" SBC equipped with a modern Alder Lake-N SoC, as well as 2.5 Gigabit Ethernet. This small form factor board supports up to 3 displays, and easily fits into smaller deployment locations. The MS-CF03 is a low-power, high-performance board, making it a perfect solution for industrial, automation, point-of-sale, and many other applications.

### SPECIFICATIONS

<b>CPU</b>	Intel® IOTG Alder Lake-N Processors
<b>Memory Type</b>	262-pin DDR5 4800MHz SO-DIMM
<b>Memory Slots</b>	1
<b>Maximum Memory Supported</b>	16GB
<b>Chipset</b>	Integrated in SoC
<b>Integrated Graphics</b>	Intel® UHD Graphics
<b>Watchdog Timer</b>	256 levels
<b>Video</b>	1 x HDMI, 1 x DisplayPort, 1 x LVDS, 1 x eDP
<b>LAN Ports</b>	2 x Intel I225-V 2.5GbE
<b>Serial ATA (SATA)</b>	1 x SATA III
<b>GPIO Interface</b>	8-bit (4 x GPI; 4 x GPO), 5V
<b>TPM</b>	Infineon® SLB9672VU 2.0

<b>Extended Interface</b>	1 x M.2 B-Key 2242/3042/2280 (SATA/PCIe x1), 1 x M.2 E-Key 2230 (PCIe x1, USB 2.0)
<b>Rear I/O</b>	1 x HDMI, 1 x DisplayPort, 2 x USB 3.2 Gen2, 2 x USB 3.2 Gen1, 2 x LAN, 1 x Line-Out
<b>Internal I/O</b>	1 x RS-232/422/485, 1 x RS-232, 1 x GPIO, 1 x LVDS, 1 x eDP, 6 x USB 2.0, 1 x Audio
<b>Power Requirement</b>	DC input 9 ~ 36V
<b>Dimensions</b>	5.75" x 4.01" (146mm x 102mm)
<b>Operating Temperature</b>	-10 ~ 60°C (14 ~ 140°F) Note: Thermal w/ Airflow:0.7m/s
<b>Storage Temperature</b>	-20 ~ 80 °C (-4 ~ 176 °F)
<b>Relative Humidity</b>	10 ~ 90% (non-condensing)
<b>OS Software Supported</b>	Windows 10 64-bit, Windows 11 64-bit, Linux Kernel 5.xx Ubuntu 22.04.1 LTS 64-bit (by request)
<b>Global P/N / SKU</b>	3308945

## Ordering Options

911-CF03-001 (SKU# 3308945A): 3.5" SBC with Intel® Processor N97 911-CF03-002 (SKU# 3308945B): 3.5" SBC with Intel® Core™ i3-N305 Processor 911-CF03-003 (SKU# 3308945C): 3.5" SBC with Intel Atom® x7425E Processor 911-CF03-004 (SKU# 3308945D): 3.5" SBC with Intel® Processor N200