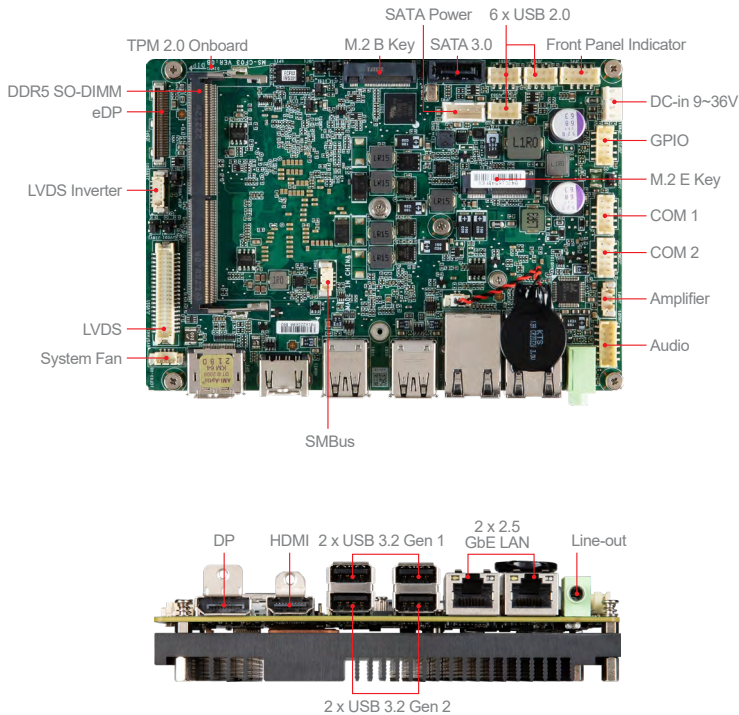


# MS-CF03

3.5" SBC with Intel® Alder Lake-N for Fanless, Ultra Low-Power, Wide Voltage Range & High-Performance Solution

NEW



## Features

- Intel® Alder Lake-N PC Client & Embedded Series SoC
- DDR5 4800 MHz SODIMM Slot up to 16GB
- Triple independent displays: DP, HDMI, LVDS, eDP
- 2 2.5 GbE LAN with RJ-45
- 1 M.2 B Key, 1 M.2 E Key Slot
- SATA 3.0 for storage
- 2 USB 3.2 Gen 2, 2 USB 3.2 Gen 1, 6 USB 2.0, 2 COM (1 RS-485), GPIO, Audio, Amplifier-6W
- Wide Voltage DC-IN 9~36V

## Ordering Information

Part Number	Description
Coming Soon	

## Packing List

Part Number	Description
Coming Soon	

## Specifications

<b>System Processor</b>	CPU	Intel® IOTG Alder Lake-N Processor N97, QC, 12W Intel® IOTG Alder Lake-N Core i3-N305, OC, 9W up to 15W Intel® IOTG Alder Lake-N Atom x7425E, QC, 12W
	Frequency	N97, 2.0GHz, up to 3.6GHz i3-N305, 1.8GHz, up to 3.8GHz x7425E, 1.5GHz, up to 3.4GHz
	L2 Cache	6MB
	CPU Type	BGA
	Chipset	Integrated in SoC
<b>Memory</b>	BIOS	AMI
	Technology	Single Channel for DDR5 4800 MHz
	Max. Capacity	Up to 16GB
<b>Display</b>	Socket	1 x 262-pin SO-DIMM
	Controller	Intel® UHD Graphics
	Graphic Memory	Depends on CPU
	LVDS	1 x Dual Channel 18/24-bit
	eDP	1 x eDP
	VGA	N/A
	DVI	N/A
	HDMI	1
	Display Port	1
	Multiple Display	3 independent displays
<b>Ethernet</b>	Display Interface	LVDS up to 1920 x 1200 @60Hz eDP up to 1920 x 1080 @60Hz HDMI up to 3840 x 2160 @30Hz DP up to 4096 x 2304 @60Hz
	Controller	2 x Intel® I225-V 2.5 GbE LAN
	Controller	Realtek® ALC897 HD Audio Codec (Co-layer ALC888-VD2-GR)
	Controller	Fintek F81966AB-I
<b>Super I/O</b>	Watchdog Timer	256-level Watchdog Timer
	Smart Fan	Yes
<b>TPM</b>	Controller	Infineon SLB9672VU2.0
	USB	6 x USB 2.0 (internal) 2 x USB 3.2 Gen 2 (rear) 2 x USB 3.2 Gen 1 (rear)
<b>I/O Interfaces</b>	Serial	2 x COM ports (Internal) COM1: RS-232/422/485, 0V/5V/12V COM2: RS-232
	Parallel	N/A
	PS/2	N/A
	GPIO	8-bit (4 x GPI; 4 x GPO), 5V
	PCIe x16	N/A
	PCIe x8	N/A
<b>Expansion Slot</b>	PCIe x4	N/A
	PCIe x1	N/A
	PCI	N/A
	M.2	1 x M.2 B key (SATA/PCIe x1), 2242/3042/2280 1 x M.2 E key (PCIe x1, USB 2.0), 2230
	Mini-PCIe	N/A
	SATA	1 x SATA 3.0
<b>Storage</b>	IDE	N/A
	eSATA	N/A
	CFast	N/A
	mSATA	N/A
	CompactFlash	N/A
<b>Power Supply</b>	DC Input	DC-in 9~36V
	AC Input	N/A
<b>Environment</b>	Operating Temperature	-10 ~ 60°C Note: Thermal Test w/ Airflow:0.7m/s
	Operating Humidity	10 ~ 90%, non-condensing
	Storage Temperature	-20 ~ 80°C
	Storage Humidity	10 ~ 90%, non-condensing
<b>Form Factor</b>	Dimensions (W x D x H)	146 x 102 mm (3.5")
	Weight	0.58 kg
<b>Certification</b>	EMC	CE, FCC Class B, BSMI, VCCI, RCM, UKCA
<b>Software Platform</b>	OS Support	Windows 10 IoT Enterprise LTSC 2021 Linux Kernel 5.x (64-bit, by request) Ubuntu LTS (64-bit, by request)