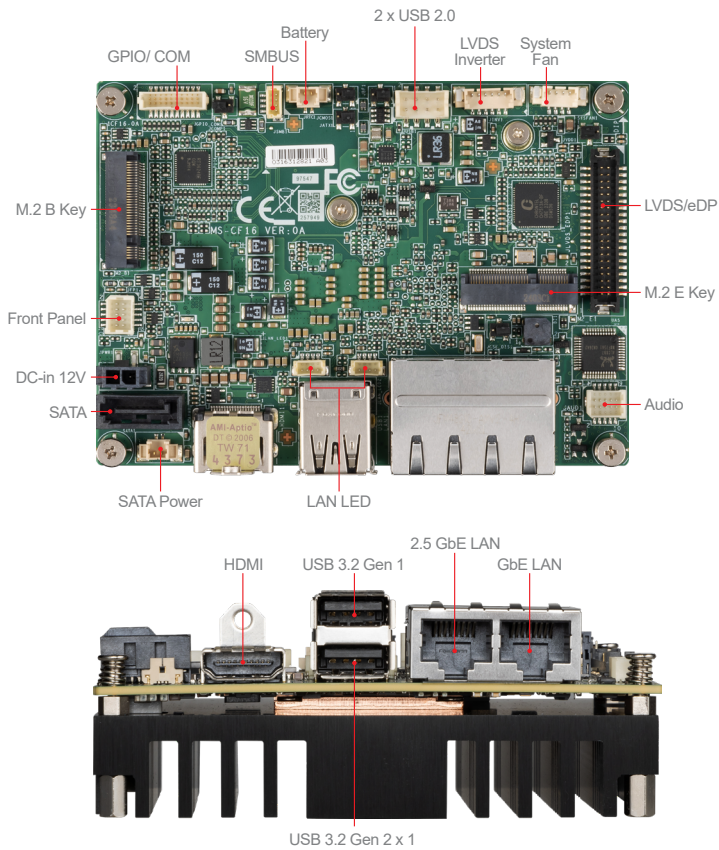


MS-CF16

Pico-ITX SBC with Intel® Alder Lake-N/Amston Lake for Fanless, Low-Power, High-Performance, Wide Temperature & Harsh environment Solution

NEW



Features

- Intel® Alder Lake-N/ Amston Lake Series SoC
- LPDDR5 4800 MHz onboard memory up to 16GB
- Dual independent displays: HDMI, LVDS/eDP
- 1 2.5 GbE/1 GbE LAN with RJ-45
- 2 USB 3.2 (Bottom layer USB 3.2 Gen 2 x 1, Top layer USB 3.2 Gen 1), 2 USB 2.0, 1 COM (RS-232/422/485), GPIO, Audio
- 1 M.2 B Key, 1 M.2 E Key Slot
- SATA 3.0 for storage
- Wide operating temperature : -40~85°C
- DC-IN 12V

Specifications

		Alder Lake -N SKUs	Amston Lake SKUs
Processor	CPU	Intel® IOTG Alder Lake-N Processor N97, QC, 12W Intel® IOTG Alder Lake-N Atom x7425E, QC, 12W	Intel® IOTG Amston Lake Atom, X7433RE, QC, 9W
	Frequency	N97, 2.0GHz, up to 3.6 GHz x7425E, 1.5GHz, up to 3.4 GHz	X7433RE, 1.5GHz, up to 3.4 GHz
	L2 Cache	6MB	
	CPU Type	BGA	
Memory	Chipset	Integrated in SoC	
	BIOS	AMI	
	Technology	Single-channel LPDDR5 4800 MHz	
	Max. Capacity	Up to 16GB	
	Socket	Onboard	
Display	Controller	Intel® HD Graphics	
	Graphic Memory	Depends on CPU	
	LVDS	Dual Channel 18/24-bit	
	eDP	1 (Signal shared with LVDS)	
	VGA	N/A	
	DVI	N/A	
	HDMI	1	
	Display Port	N/A	
	Multiple Display	2 independent displays	
	Display Interface	LVDS/eDP up to 1920 x 1200 @60Hz HDMI up to 3840 x 2160 @30Hz	
Ethernet	Controller	1 x Realtek® RTL8125BG-CG 2.5GbE LAN 1 x Realtek® RTL8111K-CG 1GbE LAN	1 x Realtek® RTL8125BI-CG 2.5GbE LAN / 1 x Realtek® RTL8111KI-CG 1GbE LAN
		Audio	Controller
Super I/O	Controller	Fintek F81966AB-I	
H/W Monitor	Watchdog Timer	256-level Watchdog Timer	
	Smart Fan	N/A	
TPM	Controller	Infinion® SLB 9672VU2.0	Infinion® SLB 9672XU2.0
		I/O Interface	USB
Serial	1 x COM port (internal) COM: RS-232/422/485, 0V/5V/12V		
Parallel	N/A		
PS/2	N/A		
GPIO	8-bits (4 x GPI; 4 x GPO), 5V		
PCIe x 16	N/A		
PCIe x 4	N/A		
Expansion Slot	PCIe x 1	N/A	
	PCI	N/A	
	M.2	1 x E key 2230 (PCIe x1 + USB 2.0) 1 x B key 2242/3042 (PCIe x1/SATA 3.0 + USB 3.2 Gen 2 + USB 2.0)	
	Mini-PCIe	N/A	
Storage	SATA	1 x SATA 3.0	
	IDE	N/A	
	eSATA	N/A	
	CFast	N/A	
	mSATA	N/A	
	CompactFlash	N/A	
Power Supply	DC	DC-in 12V	
	ATX	N/A	
Environment	Operating Temperature	-10 ~ 60°C Note: Thermal w/ Airflow:0.7m/s	-40 ~ 85°C Note: Thermal w/ Airflow:0.7m/s
	Operating Humidity	10 ~ 90%, non-condensing	
	Storage Temperature	-20 ~ 80°C	-40 ~ 85°C
	Storage Humidity	10 ~ 90%, non-condensing	
Form Factor	Dimensions	101 x 73 mm (Pico-ITX)	
	Weight	0.30 kg	
Certification	EMC	CE, FCC Class B, BSMI, VCCI, RCM, UKCA, IC	
Software Platform	OS Support	Windows 10 IoT Enterprise LTSC 2021 Windows 11 IoT Enterprise LTSC 22H2 (Pre-test) Linux (Support by request)	