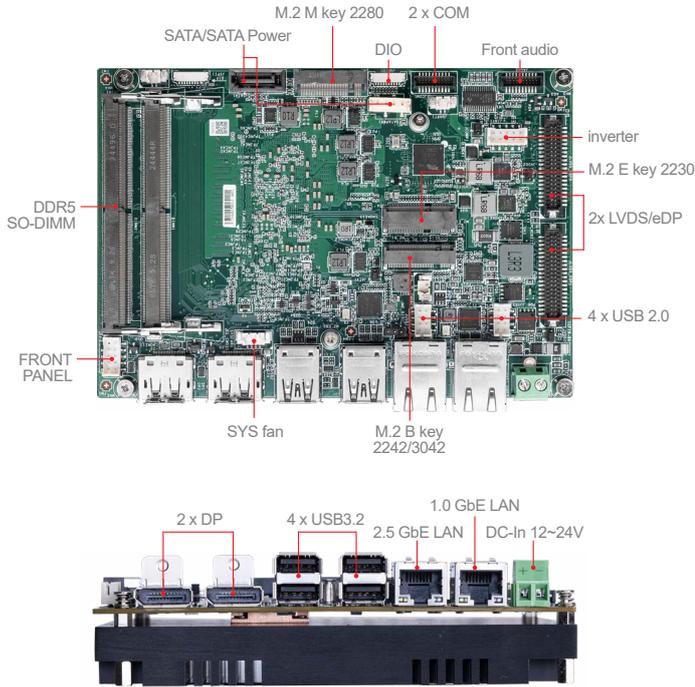


MS-CF19

3.5" SBC with Intel® Meteor Lake-U/Arrow Lake-U for Fanless, Ultra Low-Power, High-Performance Solution

NEW



Features

- Intel® Core Ultra Processors (Series 1) Meteor Lake- U / Core Ultra Processors (Series 2) Arrow Lake- U Series Processors
- 2 DDR5 5600 MHz SODIMM/6400 MHz CSODIMM Slots up to 96GB
- Quadruple independent displays: 2 DP, 2 LVDS/eDP
- 1 GbE LAN, 1 2.5GbE Lan with RJ-45
- 1 M.2 B key, 1 M.2 E key
- 1 M.2 M key, 1 SATA 3.0 for storage
- 4 USB 3.2 Gen 2, 4 USB 2.0, 2 COM (2 RS-485), DIO, Audio, Amplifier-R/L 3W each
- Onboard TPM 2.0
- Wide Voltage DC-IN 12~24V (OCP & OVP)

Ordering Information

Part Number	Description
916-CF19-002	MS-CF19606-CF19-010\806-CF19-007, INTEL METEOR LAKE Core Ultra 7-165U, DDR5 SODIMM*2, DP*2, LVDS co-lay eDP*2, M.2 M key*1, M.2 E key*1, M.2 B key*1, 2.5GbE LAN*1, 1GbE LAN*1, SATA 3.0*1, USB 3.2*4, USB 2.0*4, COM*2, TPM2.0, 3.5 inch
916-CF19-004	MS-CF19606-CF19-030\806-CF19-008, INTEL METEOR LAKE Core Ultra 7-155U, DDR5 SODIMM*2, DP*2, LVDS co-lay eDP*2, M.2 M key*1, M.2 E key*1, M.2 B key*1, 2.5GbE LAN*1, 1GbE LAN*1, SATA 3.0*1, USB 3.2*4, USB 2.0*4, COM*2, TPM2.0, 3.5 inch
916-CF19-005	MS-CF19606-CF19-040\806-CF19-009, INTEL METEOR LAKE Core Ultra 5-135U, DDR5 SODIMM*2, DP*2, LVDS co-lay eDP*2, M.2 M key*1, M.2 E key*1, M.2 B key*1, 2.5GbE LAN*1, 1GbE LAN*1, SATA 3.0*1, USB 3.2*4, USB 2.0*4, COM*2, TPM2.0, 3.5 inch
916-CF19-003	MS-CF19606-CF19-020\806-CF19-006, INTEL METEOR LAKE Core Ultra 5-125U, DDR5 SODIMM*2, DP*2, LVDS co-lay eDP*2, M.2 M key*1, M.2 E key*1, M.2 B key*1, 2.5GbE LAN*1, 1GbE LAN*1, SATA 3.0*1, USB 3.2*4, USB 2.0*4, COM*2, TPM2.0, 3.5 inch
916-CF19-006	MS-CF19606-CF19-050\806-CF19-010, INTEL ARROW LAKE Core Ultra 7-265U, DDR5 SODIMM*2, DP*2, LVDS co-lay eDP*2, M.2 M key*1, M.2 E key*1, M.2 B key*1, 2.5GbE LAN*1, 1GbE LAN*1, SATA 3.0*1, USB 3.2*4, USB 2.0*4, COM*2, TPM2.0, 3.5 inch
916-CF19-007	MS-CF19606-CF19-060\806-CF19-011, INTEL ARROW LAKE Core Ultra 7-255U, DDR5 SODIMM*2, DP*2, LVDS co-lay eDP*2, M.2 M key*1, M.2 E key*1, M.2 B key*1, 2.5GbE LAN*1, 1GbE LAN*1, SATA 3.0*1, USB 3.2*4, USB 2.0*4, COM*2, TPM2.0, 3.5 inch
916-CF19-008	MS-CF19606-CF19-070\806-CF19-012, INTEL ARROW LAKE Core Ultra 5-235U, DDR5 SODIMM*2, DP*2, LVDS co-lay eDP*2, M.2 M key*1, M.2 E key*1, M.2 B key*1, 2.5GbE LAN*1, 1GbE LAN*1, SATA 3.0*1, USB 3.2*4, USB 2.0*4, COM*2, TPM2.0, 3.5 inch
916-CF19-009	MS-CF19606-CF19-080\806-CF19-013, INTEL ARROW LAKE Core Ultra 5-225U, DDR5 SODIMM*2, DP*2, LVDS co-lay eDP*2, M.2 M key*1, M.2 E key*1, M.2 B key*1, 2.5GbE LAN*1, 1GbE LAN*1, SATA 3.0*1, USB 3.2*4, USB 2.0*4, COM*2, TPM2.0, 3.5 inch

Specifications

Processor	CPU	Intel® Core™ Ultra Processor (Series 1) Meteor Lake-U Series Processors, Core™ Ultra 7 165U/155U, Core™ Ultra 5 135U/125U Intel® Core™ Ultra Processor (Series 2) Arrow Lake-U Series Processors, Core™ Ultra 7 265U/255U, Core™ Ultra 5 235U/225U
	Frequency	P-Core: 4.3GHz~5.3GHz (Depends on CPU) E-Core: 3.6GHz~4.2GHz (Depends on CPU)
	L2 Cache	12MB
	CPU Type	BGA
	Chipset	Integrated in SoC
Memory	BIOS	AMI
	Technology	Dual-channel DDR5 5600~6400MHz (Depends on CPU)
	Max. Capacity	Up to 96GB
	Socket	2 x 262-pin SO-DIMM
Display	Controller	Intel® Graphics
	Graphic Memory	Depends on CPU
	LVDS	2 x Dual Channel 18/24-bit (Connector shared with eDP)
	eDP	2 x eDP (Connector shared with LVDS)
	VGA	N/A
	DVI	N/A
	HDMI	N/A
	DisplayPort	2
	Multiple Display	4 independent displays
	Display Interface	LVDS up to 1920 x 1200 @60 Hz eDP up to 4096 x 2160 @60 Hz DP up to 4096 x 2340 @60Hz
Ethernet	Controller	1 x Intel® I219-LM GbE LAN 1 x Intel® I226-V 2.5 GbE LAN
Audio	Controller	Realtek® ALC897 HD Audio Codec
Super I/O	Controller	Fintek F81966AB-I
H/W Monitor	Watchdog Timer	256-level Watchdog Timer
	Smart Fan	Yes
TPM	Controller	Infineon SLB9672VU2.0
I/O Interface	USB	4 x USB 2.0 (internal) 4 x USB 3.2 Gen 2 (rear)
	Serial	2 x COM ports (internal) COM1~2: RS-232/422/485, 0V/5V/12V
	Parallel	N/A
	PS/2	N/A
	GPIO	8-bit (4 x GPI; 4 x GPO), 5V
Expansion Slot	PCIe x16	N/A
	PCIe x4	N/A
	PCI	N/A
	M.2	1 x M.2 M key (PCIe Gen4 x4 NVMe), 2280 1 x M.2 B key (PCIe x1, USB 2.0), 2242/3042 1 x M.2 E key (PCIe x1, USB 2.0, w/CNV), 2230
	SATA	1 x SATA 3.0
Power Supply	DC	DC-in 12~24V (OCP & OVP)
	ATX	N/A
Environment	Operating Temperature	-10 ~ 60°C Note: 1. Thermal w/ Airflow:0.7m/s 2. The standard thermal solution only supports TDP up to 15W.
	Operating Humidity	10 ~ 90%, non-condensing
	Storage Temperature	-20 ~ 80°C
Form Factor	Storage Humidity	10 ~ 90%, non-condensing
	Dimensions	146 x 102 mm (3.5")
Certification	Weight	0.63 kg
Software Platform	EMC	CE, FCC, RCM, VCCI, BSMI, UKCA, IC
	OS Support	Windows 10 IoT Enterprise 2021 LTSC (64-bit, 21H2) Windows 11 IoT Enterprise LTSC (64-bit, 24H2) Linux (Support by request)

Packing List

Part Number	Description	Quantity
K14-3018001-V03	COM Port Cable, 150mm	1
K1B-3008067-V03	USB Cable, 150mm	1
K1D-3012023-V03	SATA Cable with Power, 230mm	1
K1G-3002057-V03	DC Power Cable, 200mm	1