

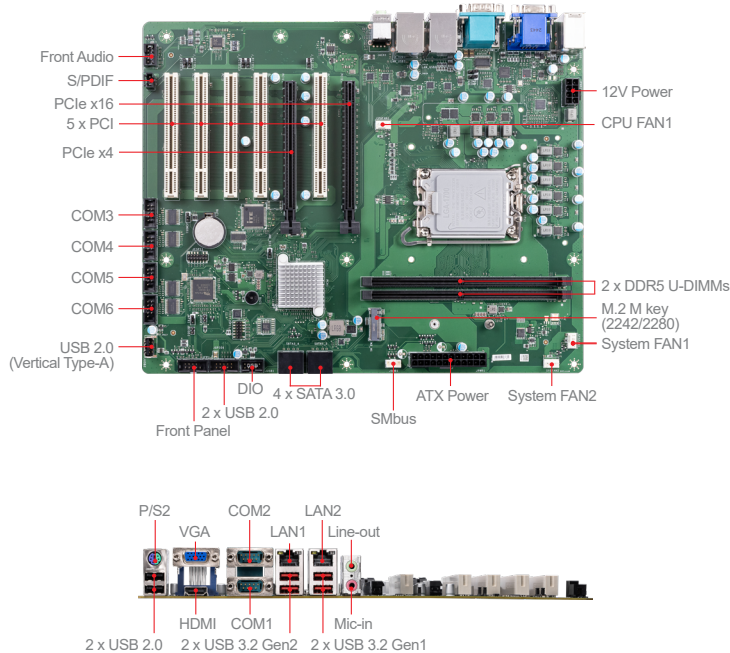
MS-CF06 V2.0

ATX with 14th/13th/12th Gen Intel® Raptor Lake-S Refresh/ Raptor Lake-S/Alder Lake-S, Core™ i9/i7/i5/i3, Pentium®, Celeron® Processor, Bartlett Lake-S Core™ i7/i5/i3/300 & Intel® H610E for Mainstream Solution

NEW

Specifications

Processor	CPU	12th Gen Intel® Alder Lake-S i9/i7/i5/i3/ Pentium®/Celeron® IOTG Series Processor, Max 65W 13th Gen Intel® Raptor Lake-S i9/i7/i5/i3/ Pentium®/Celeron® IOTG Series Processor, Max 65W 14th Gen Intel® Raptor Lake-S Refresh i9/i7/i5/i3/ Pentium®/Celeron® IOTG Series Processor, Max 65W Intel® Bartlett Lake-S i7/i5/i3/300 IOTG Series Processor, Max 65W
	Frequency	P-Core 1.1GHz~5.6GHz (Depends on CPU) E-Core 0.9GHz~4.4GHz (Depends on CPU)
	L2 Cache	4MB~36MB (Depends on CPU)
	CPU Type	Socket (LGA1700)
	Chipset	Intel® H610E Express
Memory	BIOS	AMI UEFI
	Technology	Dual-channel DDR5 (non-ECC) 5600 MT/s
	Max. Capacity	Up to 64GB
	Socket	2 x 288-pin UDIMMs
	Controller	Intel® UHD Graphics
Display	Graphic Memory	Depends on CPU
	VGA	1
	HDMI	1
	DisplayPort	N/A
	Multiple Display	2 independent displays
Ethernet	Display Interface	VGA up to 1920 x 1200 @60Hz HDMI up to 4096 x 2160 @24Hz
	Controller	1 x Intel® I219LM GbE LAN PHY 1 x Intel® I226-V 2.5GbE LAN
Audio	Controller	Realtek® ALC897 Audio Codec (Co-lay ALC888S)
Super I/O	Controller	FINTEK F81966D-I
H/W Monitor	Watchdog Timer	256-level Watchdog Timer
	Smart Fan	Yes
TPM	Controller	Infineon® SLB9672VU2.0
I/O Interface	USB	2 x USB 3.2 Gen 2 x1 (2 x rear) 2 x USB 3.2 Gen 1 x1 (2 x rear) 5 x USB 2.0 (2 x rear, 3 x internal with one Vertical Type-A)
	Serial	6 x COM ports (2 rear, 4 x internal) COM1: RS-232/422/485 0V/5V/12V, Auto-flow Control COM2: RS-232, 0V/5V/12V COM3-6: RS-232
	Parallel	N/A
	PS/2	1 x PS/2 port by Y-cable for keyboard and mouse
	GPIO	8-bits (4 x GPI; 4 x GPO), 5V
Expansion Slot	PCIe x16	1
	PCIe x4	1
	PCI	5
Storage	M.2	1 x M.2 M key (SATA 3.0, signal shared with SATA port 1), 2242/2280
	SATA	4 x SATA 3.0 (SATA port 1 shared with M.2 M Key)
Power Supply	ATX	ATX-Power 24P, 12V-8P
	Operating Temperature	0 ~ 60°C
Environment	Operating Humidity	10 ~ 90%, non-condensing
	Storage Temperature	-20 ~ 80°C
	Storage Humidity	10 ~ 90%, non-condensing
Form Factor	Dimensions	305 x 244 mm (ATX)
	Weight	0.728 Kg
Certification	EMC	CE, FCC Class B, BSMI, RCM, VCCI, UKCA, CN
Software Platform	OS Support	Windows 10 IoT Enterprise 21H2 LTSC (64-bit) Windows 11 IoT Enterprise 24H2 LTSC (64-bit) Linux (Support by request) Noted : All driver base on Intel & chip vendor supported



Features

- Intel® 14th/13th/12th Gen Raptor Lake-S Refresh/Raptor Lake-S/Alder Lake-S Series/Bartlett Lake-S with H610E
- 2 DDR5 5600 MT/s non-ECC UDIMM slots up to 64GB
- Dual independent displays: VGA, HDMI
- 1 2.5GbE LAN with RJ-45, 1 GbE LAN with RJ-45
- 1 PCIe x16 (Gen 5), 1 PCIe x4 (Gen3), 5 PCI
- 1 M.2 M key, 4 SATA 3.0 for storage
- 2 USB 3.2 Gen 2, 2 USB 3.2 Gen 1, 5 USB 2.0, 6 COM (1 RS-485), GPIO, PS/2, Audio, 2 System FAN
- Onboard TPM 2.0
- SMBus, Chassis Intrusion
- ATX Power

Ordering Information

Part Number	Description
Coming Soon	

Packing List

Part Number	Description
Coming Soon	

Block Diagram

