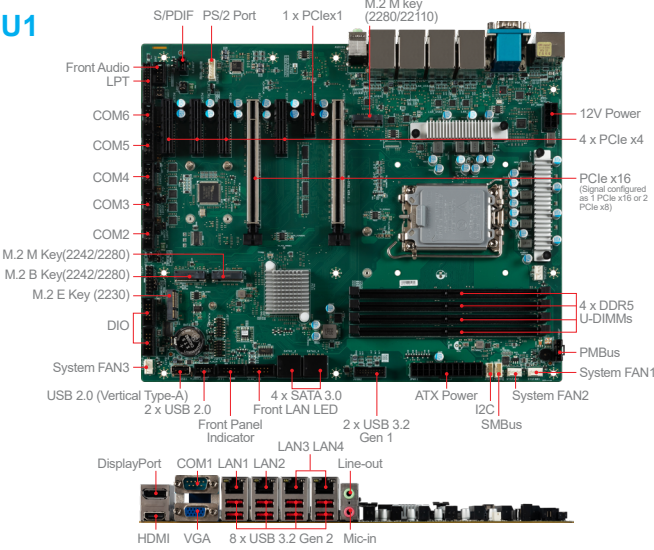


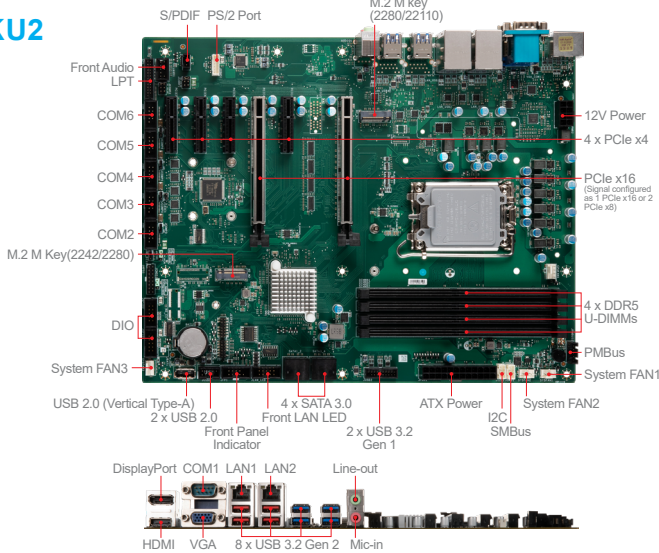
MS-CF05

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 & Intel® R680E/Q670E for High-Performance Solution

SKU1



SKU2



Features

- Intel® 14th/13th/12th Gen Raptor Lake-S Refresh/Raptor Lake-S/Alder Lake-S Series with R680E/Q670E
- 4 DDR5 4400 MHz ECC/non-ECC UDIMM slots up to 128GB
- Triple independent displays: VGA, DP, HDMI
- 4 2.5GbE LAN with RJ-45
- 1 PCIe x16 (Gen 5) Slot or 2 PCIe x8 (Gen 5), 1 PCIe x4 (Gen 4), 3 PCIe x4 (Gen 3), 1 M.2 E key, 1 M.2 B key slots
- 2 M.2 M key, 4 SATA 3.0 for storage
- SATA RAID 0/1/5/10
- 8 USB 3.2 Gen 2, 2 USB 3.2 Gen 1, 3 USB 2.0, 6 COM (6 RS-485), GPIO, PS/2, Audio, 3 System FAN
- Onboard TPM 2.0
- SMBus, I2C, PMBus, iAMT 16.x, Chassis Intrusion
- ATX Power

Ordering Information

Part Number	Description
911-CF05-001	Intel ADL-S,RPL-S,R680E,4*DDR5,HDMI+DP+VGA,2*M.2 M key,1*M.2 B key,2*M.2 E key,1*PCIe x16,1*PCIe x8,4*PCIe x4,1*PCIe x1,4*2.5GbE LAN,4*SATA 3.0,10*USB 3.2,3*USB 2.0,6*COM,TPM2.0,ATX SINGLE
911-CF05-002	Intel ADL-S,RPL-S,Q670E,4*DDR5,HDMI+DP+VGA,2*M.2 M key,1*PCIe x16,1*PCIe x8,4*PCIe x4,2*2.5GbE LAN,4*SATA 3.0,10*USB 3.2,3*USB 2.0,6*COM,TPM2.0,ATX SINGLE
911-CF05-101	Intel ADL-S,RPL-S,R680E,4*DDR5,HDMI+DP+VGA,2*M.2 M key,1*M.2 B key,2*M.2 E key,1*PCIe x16,1*PCIe x8,1*PCIe x4,1*PCIe x1,4*2.5GbE LAN,4*SATA 3.0,10*USB 3.2,3*USB 2.0,6*COM,TPM2.0,ATX BULK
911-CF05-102	Intel ADL-S,RPL-S,Q670E,4*DDR5,HDMI+DP+VGA,2*M.2 M key,1*PCIe x16,1*PCIe x8,4*PCIe x4,2*2.5GbE LAN,4*SATA 3.0,10*USB 3.2,3*USB 2.0,6*COM,TPM2.0,ATX BULK

MSI reserves the right to change the specifications without prior notices.

2024 75

Specifications

	SKU1	SKU2
Processor	CPU	12th Gen Intel® Alder Lake-S i9/i7/i5/i3/ Pentium®/Celeron® IOTG Series Processor, Max 125W
	Frequency	P-Core 1.1GHz~5.0GHz (Depends on CPU) E-Core 0.9GHz~3.8GHz (Depends on CPU)
	L2 Cache	4MB~30MB (Depends on CPU)
	CPU Type	Socket (LGA 1700)
	Chipset	Intel® R680E Express Intel® Q670E Express
Memory	Technology	Dual-channel DDR5 (ECC/non-ECC) 4400 MHz (ECC support will depend on CPU)
	Max. Capacity	Up to 128GB
	Socket	4 x 288-pin UDIMMs
Display	Controller	Intel® UHD Graphics
	Graphic Memory	Depends on CPU
Ethernet	VGA	1
	HDMI	1
Audio	DisplayPort	1
	Multiple Display	3 independent displays
Super I/O	Display Interface	VGA up to 1920 x 1200 @60Hz HDMI up to 4096 x 2160 @60Hz DP up to 4096 x 2304 @60Hz
	Controller	4 x Intel® I225-LM 2.5GbE LAN 2 x Intel® I225-LM 2.5GbE LAN
Audio	Controller	Realtek® ALC897 Audio Codec (Co-lay ALC888S)
	Controller	FINTEK F81966D-I
Super I/O	Watchdog Timer	256-level Watchdog Timer
	Smart Fan	Yes
TPM	Controller	Infineon® SLB9672VU2.0
	USB	8 x USB 3.2 Gen 2 x1 Ports (8 x Rear) 2 x USB 3.2 Gen 1 Ports (2 x Internal) 3 x USB 2.0 Ports (3 x Internal with one Vertical Type-A Connector)
I/O Interface	Serial	6 x COM-Ports for COM1 ~ 6 (1 x Rear, 5 x Internal) COM1/2 RS-232/422/485 with Ring/0V/5V/12V Auto-flow Control Supported (Default set to Ring) COM3/4/5/6 RS-232/422/485 with 0V/5V/12V Auto-flow Control Supported
	Parallel	Yes
Expansion Slot	PS/2	1 x PS/2 port by Y-cable for keyboard and mouse
	GPIO	16-bits (8 x GPI; 8 x GPO), 5V
Storage Power Supply	PCIe x16	2 (Signal configured as 1 PCIe x16 or 2 PCIe x8)
	PCIe x4	4
Environment	PCIe x1	1
	M.2	1 x M key (Signal from CPU) 2280/22110, 1 x M key (Signal Shared by PCIe Slot5) 2242/2280 1 x E key (PCIe x1), 2230 1 x B key (PCIe x2), 2242/2280
Form Factor	SATA	4 x SATA 3.0 (RAID 0/1/5/10)
	ATX	ATX-Power 24P, 12V-8P
Certification	Operating Temperature	0 ~ 60°C
	Operating Humidity	10 ~ 90%, non-condensing
Software Platform	Storage Temperature	-20 ~ 80°C
	Storage Humidity	10 ~ 90%, non-condensing
OS Support	Dimensions	305 x 244 mm (ATX)
	Weight	0.779 Kg
Packing List	CE, FCC Class B, BSMI, RCM, VCCI	
	EMC	
Part Number	Windows 10 IoT Enterprise 2021 LTSC (64-bit)	
	Windows 11 IoT Enterprise 22H2 (64-bit)	
Description	Linux (Support by request)	
	Noted : All driver base on Intel & chip vendor supported	
Quantity	K1D-1008261-V03	SATA Cable 500mm
	K1B-3008012-E06	USB 2.0 Cable, 330mm
Quantity	E21-CF05010-C22	I/O SHIELDING For 4 LANs
	E21-CF05020-C22	I/O SHIELDING For 2 LANs

Packing List

Part Number	Description	Quantity
K1D-1008261-V03	SATA Cable 500mm	2
K1B-3008012-E06	USB 2.0 Cable, 330mm	1
E21-CF05010-C22	I/O SHIELDING For 4 LANs	1
E21-CF05020-C22	I/O SHIELDING For 2 LANs	

Industrial Computer

COM Express Board

Pico-ITX Board

3.5" Board

EPC Board

Mini-ITX Board

Micro-ATX Board

ATX Board

Peripheral