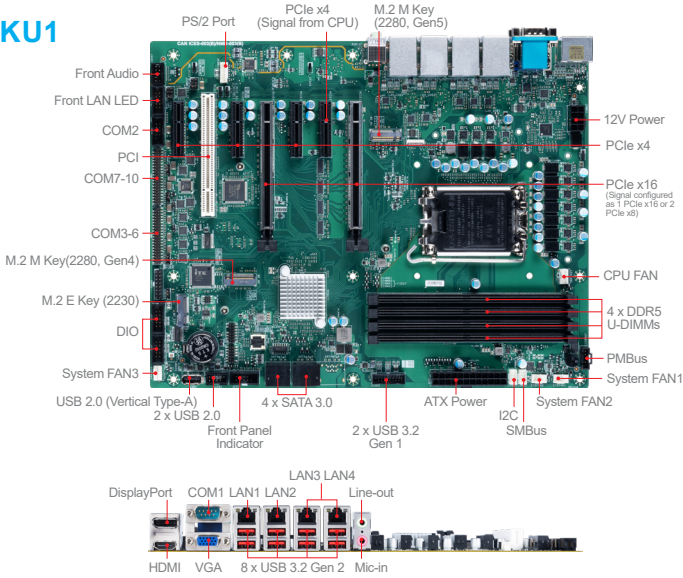


MS-CF20

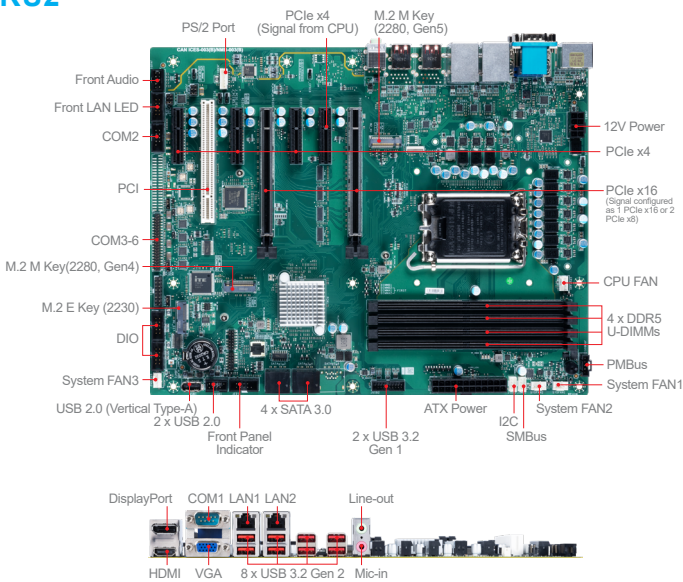
ATX with 15th Gen Intel® Arrow Lake-S , Core™ U9/U7/U5, Pentium®, Celeron® Processor & Intel® W880 for High-Performance Solution

NEW

SKU1



SKU2



Specifications

		SKU1	SKU2	
Processor	CPU	15th Gen Intel® Arrow Lake-S Core™ Ultra 9/7/5/Pentium™/Celeron® IOTG Series Processor, Max 125W		
	Frequency	P-Core 1.4GHz~5.6GHz (Depends on CPU) E-Core 1.2GHz~4.6GHz (Depends on CPU)		
	L2 Cache	3MB~36MB (Depends on CPU)		
	CPU Type	Socket (LGA1851)		
	Chipset	Intel® W880		
	BIOS	AMI UEFI		
Memory	Technology	Dual-channel DDR5 (ECC/non-ECC) 5600 MT/s (ECC support will depend on CPU)		
	Max. Capacity	Up to 192GB		
	Socket	4 x 288-pin UDIMMs		
Display	Controller	Intel® UHD Graphics		
	Graphic Memory	Depends on CPU		
	VGA	1		
	HDMI	1		
	DisplayPort	1		
	Multiple Display	3 independent displays		
Display Interface	VGA	up to 1920 x 1200 @60Hz		
	HDMI	up to 4096 x 2160 @60Hz		
Ethernet	Controller	4 x Intel® I226-LM 2.5GbE LAN	2 x Intel® I226-LM 2.5GbE LAN	
	Controller	Realtek® ALC897 Audio Codec (Co-lay ALC888S)		
Super I/O	Controller	FINTEK F81967D-I		
H/W Monitor	Watchdog Timer	256-level Watchdog Timer		
	Smart Fan	Yes		
TPM	Controller	Infineon® SLB9672VU2.0		
I/O Interface	Serial	USB	8 x USB 3.2 Gen 2 x1 (8 x rear) 2 x USB 3.2 Gen 1 (2 x internal) 3 x USB 2.0 (3 x internal with one Vertical Type-A Connector) 10 x COM ports (1 x rear, 9 x internal) COM1~2: RS-232/422/485, Ring/0V/5V/12V, Auto-flow Control (Default set to Ring) COM3~6: RS-232, 0V/5V/12V, Auto-flow Control (Default set to Ring) COM7~10: RS-232, 0V/5V/12V, Auto-flow Control	6 x COM ports (1 x rear, 5 x internal) COM1~2: RS-232/422/485, Ring/0V/5V/12V, Auto-flow Control (Default set to Ring) COM3~6: RS-232, 0V/5V/12V, Auto-flow Control
		PS/2	1 x PS/2 port by Y-cable for keyboard and mouse	
		GPIO	16-bits (8 x GPI; 8 x GPO), 5V	
		PCIe x16	2 (Signal configured as 1 PCIe x16 or 2 PCIe x8)	
		PCIe x4	4	
		PCIe	1	
	Expansion Slot	M.2	1 x M key (Signal from CPU) 2280, 1 x M key (Signal Shared by PCIe Slot5) 2280 1 x E key (PCIe x1), 2230	
		SATA	4 x SATA 3.0 (RAID 0/1/5/10)	
	Storage 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		
	Dimensions	305 x 244 mm (ATX)		
Form Factor	Weight	0.780 Kg		
Certification	EMC	CE, FCC Class B, BSMI, RCM, VCCI		
	OS Support	Windows 10 IoT Enterprise 2021 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® 15th Gen Arrow Lake-S Series with W880
- 4 DDR5 5600 MT/s ECC/non-ECC UDIMM slots up to 192GB
- 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), 4 PCIe x4 (Gen 4, 1 signal from CPU, 3 signal from PCH), 1 M.2 E 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, 10 COM (2 RS-485 / 8 RS-232), GPIO, PS/2, Audio, 3 System FAN
- Onboard TPM 2.0
- SMBus, I2C, PMBus, iAMT 19.x, Chassis Intrusion
- ATX Power