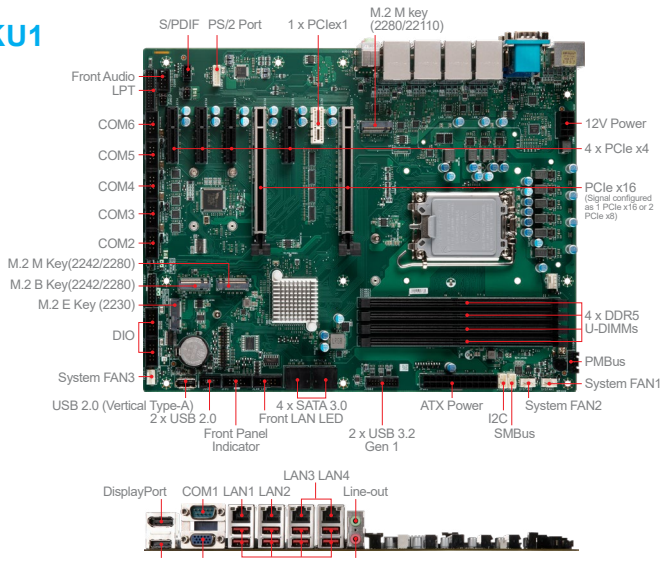


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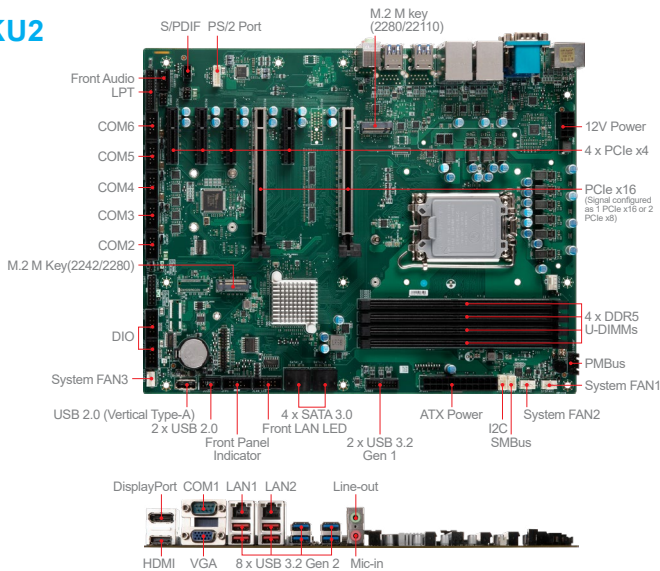
ATX with 13th/12th Gen Intel® Raptor Lake-S/Alder Lake-S, Core™ i9/i7/i5/i3, Pentium®, Celeron® Processor & Intel® R680E/Q670E for High-Performance Solution

NEW

SKU1



SKU2



Features

- Intel® 13th/12th Gen 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
Coming Soon	

Packing List

Part Number	Description
Coming Soon	

Specifications

	SKU1	SKU2	
Processor	CPU	13th Gen Intel® Raptor 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	
Memory	BIOS	Intel® Q670E Express	
	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	
	Controller	Intel® UHD Graphics	
Display	Graphic Memory	Depends on CPU	
	LVDS	N/A	
	eDP	N/A	
	VGA	1	
	DVI	N/A	
	HDMI	1	
	DisplayPort	1	
Ethernet	Multiple Display	3 independent displays	
	Display Interface	VGA up to 1920 x 1200 @60Hz HDMI up to 4096 x 2160 @60Hz DP up to 4096 x 2304 @60Hz	
Audio	Controller	4 x Intel® I225-LM 2.5GbE LAN	
Super I/O	Controller	2 x Intel® I225-LM 2.5GbE LAN	
H/W Monitor	Controller	Realtek® ALC897 Audio Codec (Co-Lan ALC888S)	
TPM	Controller	FINTEK F81966D-I	
	Smart Fan	256-level Watchdog Timer	
I/O Interface	Watchdog Timer	Yes	
	Smart Fan	Yes	
	Controller	Infinion® SLB9672V/U2.0	
	USB	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)
		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	
	PS/2	1 x PS/2 port by Y-cable for keyboard and mouse	
	GPIO	16-bits (8 x GPI; 8 x GPO), 5V	
	Expansion Slot	PCIe x16	2 (Signal configured as 1 PCIe x16 or 2 PCIe x8)
		PCIe x4	4
PCIe x1		1	
PCI		N/A	
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	
Storage	Mini-PCIe	N/A	
	SATA	4 x SATA 3.0 (RAID 0/1/5/10)	
	IDE	N/A	
	eSATA	N/A	
	CFast	N/A	
Power Supply	mSATA	N/A	
	CompactFlash	N/A	
	DC	N/A	
Environment	ATX	ATX-Power 24P, 12V-6P	
	Operating Temperature	0 ~ 60°C	
	Operating Humidity	10 ~ 90%, non-condensing	
	Storage Temperature	-20 ~ 80°C	
Form Factor	Storage Humidity	10 ~ 90%, non-condensing	
	Dimensions	305 x 244 mm (ATX)	
Certification	Weight	0.779 Kg	
	EMC	CE, FCC Class B, BSMI, RCM, VCCI	
Software Platform	OS Support	Windows 10 IoT Enterprise 2021 LTSC (64-bit) Windows 11 IoT Enterprise 22H2 (64-bit) Linux Kernel 5.xx, Ubuntu 22.04 LTS Pre-scan Noted : All driver base on Intel & chip vendor supported	