

SXC-RL30V2.0

Intel® Alder Lake-U/Raptor Lake-U Processor based Embedded Mini PC
with 2LAN, 2COM, 7USB, 4HDMI2.0



Features

- CPU: Intel® Alder Lake-U/Raptor Lake-U Processor
- Memory: Onboard LPDDR5, 8GB/16GB/32GB
- GPU: Integrated Intel® UHD/Iris® Xe Graphics
- Ethernet: 2 x Intel i226(10/100/1000/2500Mbps)
- Storage&Expansion: 2 x M.2 Key M for NVMe SSD, M.2 Key B for SATA SSD, M.2 Key B for SATA SSD/4G/5G, M.2 Key M for 2230 UFS Flash, M.2 Key E for Wi-Fi and Bluetooth(CNVi), SIM Slot
- I/O Ports: 2 x LAN, 2 x COM, 2 x USB3.2, 4 x USB2.0, 4 xHDMI2.0, USB-C
- Power: 9-36V DC-IN/Phoenix optional
- Support HDMI Hot-Plug Lock, RTC/W



Introduction

The MAXTANG SXC-RL30 is a compact, fanless embedded mini PC powered by the Intel Alder Lake-U/Raptor Lake-U Series processor with integrated Intel UHD/Iris Xe Graphics, delivering robust computing performance and advanced multi-display capability. Supporting up to four display outputs via HDMI 2.0, it enables rich, synchronized visuals ideal for digital signage, control rooms, and industrial applications. Flexible connectivity—including dual 2.5 Gigabit LAN, two COM ports (RS232/RS485 optional), seven USB ports, and M.2 expansion—ensures seamless integration with diverse systems and peripherals.

Engineered for reliability in demanding environments, the SXC-RL30 features passive cooling, wide-range power input (9V-36V via DC-IN/Phoenix connector), and stable operation across an extended -20°C to 60°C temperature range. Security and manageability are enhanced with optional TPM, Real-Time Clock with daily scheduling, and support for both Windows and Linux. Combining performance, durability, and adaptability, the SXC-RL30 is a future-ready solution for industrial automation, AI edge computing, and immersive multi-display deployments.



H/W Monitor



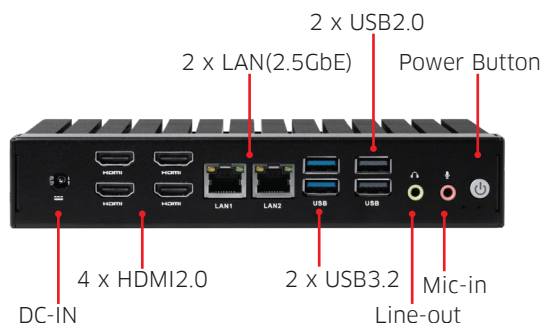
Watchdog



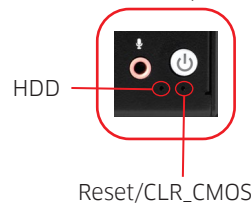
I/O Interfaces



• PASSIVE



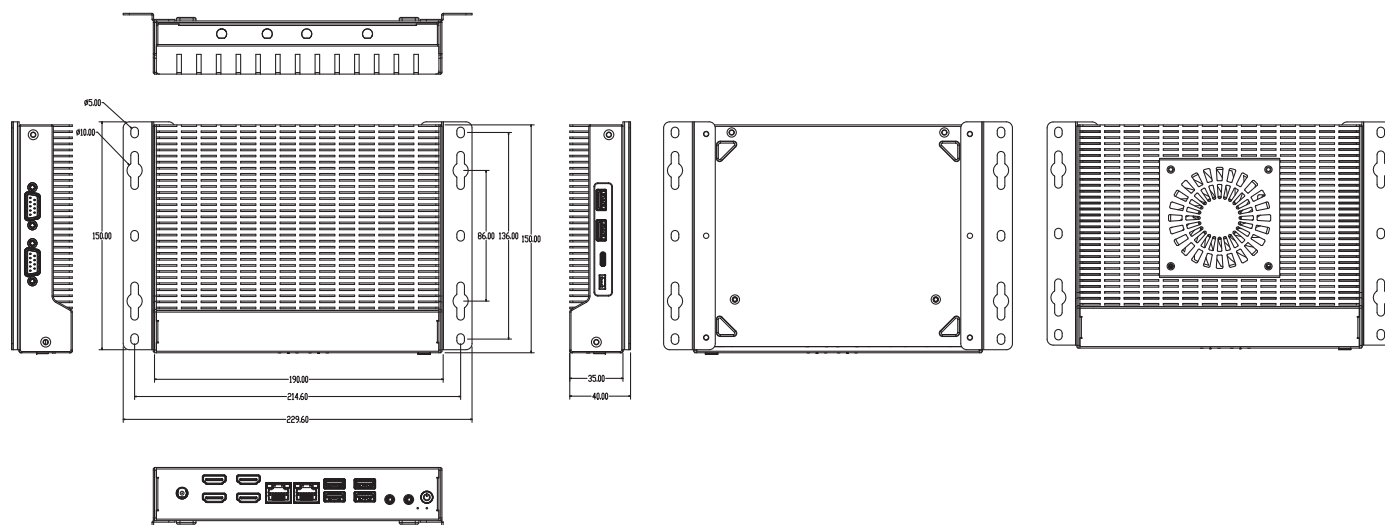
• ACTIVE



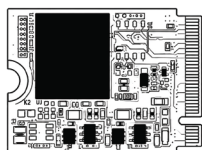
Technical Specifications

Processor	Alder Lake-U Series	i3-1215U	i5-1235U	i7-1255U
	Total Cores/Threads	6C/8T	10C/12T	10C/12T
	P-core Max Turbo Frequency	4.40GHz	4.40GHz	4.70GHz
	E-core Max Turbo Frequency	3.30GHz	3.30GHz	3.50GHz
	Intel® Smart Cache	10MB	12MB	12MB
	Raptor Lake-U Series	i3-1315U	i5-1335U	i7-1355U
	Total Cores/Threads	6C/8T	10C/12T	10C/12T
	P-core Max Turbo Frequency	4.50GHz	4.60GHz	5GHz
	E-core Max Turbo Frequency	3.30GHz	3.40GHz	3.70GHz
	Intel® Smart Cache	10MB	12MB	12MB
	BIOS	AMI UEFI BIOS		
	Type	Onboard LPDDR5		
	Capacity	8GB/16GB/32GB		
	GPU	Integrated Intel® UHD/Iris® Xe Graphics		
Memory	Interface	4 x HDMI2.0, supports Hot Plug Detect (HPD) lock		
	Controller	2 x Intel i226, RJ45 interfaces		
	Max. Speed	10/100/1000/2500Mbps		
Display	Audio Codec	SenaryTech SN6186		
	Interface	1 x Line-out, 1 x Mic-in		
Ethernet	M.2_N1/N2	2 x M.2 Key M Slot for 2280 NVMe SSD		
	M.2_S	1 x M.2 Key B Slot for 2280 SATA SSD		
Audio	M.2_SW5G	1 x M.2 Key B Slot for 2280 SATA SSD/3042 4G/3052 5G		
	M.2_E	1 x M.2 Key E Slot for 2230 Wi-Fi and Bluetooth(CNVi)		
Storage&Expansion	M.2_UFS	Optional. 1 x M.2 Key M Slot for 2230 UFS Flash Card.		
	UFS Flash	Optional. Customized UFS Flash Card available in 128GB/256GB/512GB		
Other I/O	SIM	1 x Nano SIM Slot		
	COM	2 x COM(RS232 by default, RS485 optional through hardware modification)		
Real Time Clock	USB2.0	4 x USB2.0		
	USB3.2	2 x USB3.2		
Dimension	USB-C	1 x USB-C(USB3.2 only)		
	Wired Control	1 x Wired Remote Control Switch		
Weight	GPIO	Optional		
	TPM	Onboard, optional		
Power	RTC	Support RTC set up, independently for each day of the week.		
	Size	190mm x 150mm x 35mm		
Temperature	N.W.	1.06KG		
	Input Voltage	9-36V DC		
Cooling Method	Standard Connector	DC-IN Jack (19 V Power Adapter Included)		
	Optional Connector	2-Pin Phoenix Connector		
Operating System	Operating Temp.	- 20°C to 60°C		
	Storage Temp.	- 40°C to 80°C		
		Passive/Active		
		Windows 10/11 64bit, Linux 64bit		

Dimension (mm)



Optional Accessories



*Customized UFS Flash Card available in 128GB/256GB/512GB