

# SXRL-20

Intel® Alder Lake/Raptor Lake-U Processor based Fanless Mini PC  
Support 4HDMI\_OUT plus 1HDMI\_IN for multiple displays.



## Features

- CPU: Intel® Alder Lake/Raptor Lake-U Processor
- Memory: Dual Channel SO-DIMM DDR4 up to 64GB
- Display: Integrated Intel® UHD/Iris® Xe Graphics
- Ethernet: 10/100/1000/2500Mbps
- Storage: M.2 for NVMe/SATA SSD, M.2 for NVMe SSD
- I/O Ports: 2xLAN, 1xCOM, 2xUSB3.2, 1xUSB2.0, 1xUSB-C, SIM, 4xHDMI\_OUT, 1xHDMI\_IN, Wired Control
- Power: 19V DC-in/Phoenix 2-pin Optional



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## Introduction

The Maxtang SXRL-20 fanless embedded mini-PC redefines computing power and versatility for digital signage and multitasking environments. Powered by the Intel® Alder Lake-U/Raptor Lake-U processor, it offers exceptional performance and efficiency. With support for up to 64GB dual-channel SO-DIMM DDR4 memory, expandable storage options, and extensive connectivity including four HDMI 2.0 outputs and one HDMI input, it's designed to meet diverse application needs with ease.

Its compact form factor, all-aluminum metal chassis, and mounting compatibility make it ideal for space-saving deployments in retail, hospitality, education, healthcare, and industrial settings. The advanced passive cooling design ensures silent operation, enhancing user experience and reliability for long-term usage. The Maxtang SX series sets a new standard for fanless mini-PCs, delivering superior performance, connectivity, and durability for seamless integration into various environments.



H/W Monitor



Watchdog

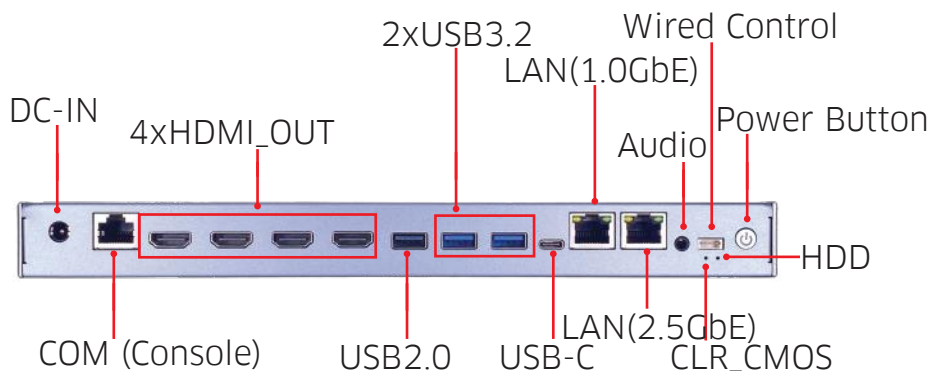


## I/O Interfaces

Antennas hole



HDMI\_IN Optional

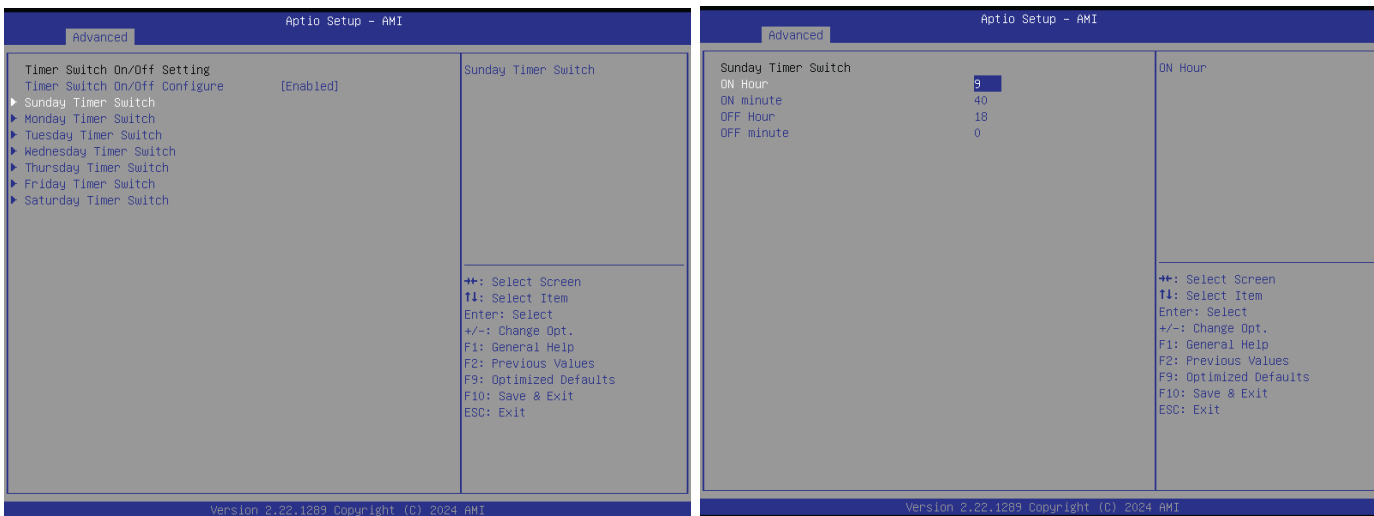


## Technical Specifications

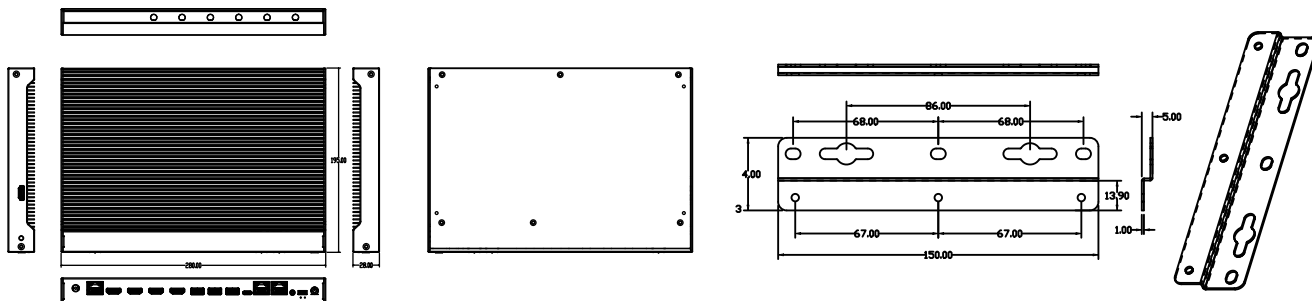
Processor	<b>Alder Lake-U Series</b>	<b>i3-1215U</b>	<b>i5-1235U</b>	<b>i7-1255U</b>	
	Total Cores/Threads	6C/8T	10C/12T	10C/12T	
	P-core Max Turbo Frequency	4.40GHz	4.40GHz	4.70GHz	
	E-core Max Turbo Frequency	3.30GHz	3.30GHz	3.50GHz	
	Intel® Smart Cache	10MB	12MB	12MB	
	<b>Raptor Lake-U Series</b>	<b>i3-1315U</b>	<b>i5-1335U</b>	<b>i7-1355U</b>	
	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			
	Memory	Type	Dual Channel SO-DIMM DDR4		
		Max. Capacity	64GB		
Display	GPU	Integrated Intel® UHD/Iris® Xe Graphics			
	Display via	4x HDMI2.0_out			
Ethernet	Optional	1x HDMI_in(Optional, none by default. Depends on the CPU Model.)			
	Max. Speed	10/100/1000/2500Mbps			
	Controller	1xIntel i226			
		1xIntel i219			
Audio	Interface	2xRJ45			
	Wake on LAN	Yes			
Storage	Audio Codec	CONEXANT HD CX20632			
	Interface	1x CTIA 2 in 1 Audio Jack			
Expansion	M.2_N/S	1x M.2_2280 Slot for NVMe/SATA SSD			
	M.2_N	1x M.2_2280 Slot for NVMe SSD			
Other I/O	M.2_E	1x M.2 for WiFi, support PCIe & Intel® Integrated Connectivity (CNVi).			
	M.2_4G/5G	1x M.2 for 4G/5G			
Dimension	SIM Slot	1			
	COM	1xRS232 RJ45 Console			
	USB2.0	1			
	USB3.2	2			
	USB-C	1xUSB-C, USB3.2 ONLY			
	Wired Control	1			
	TPM	Onboard, optional			
	RTC	Support RTC set up, independently for each day of the week.			
	Weight	Size			
	Power	280mm x 195mm x 28mm			
Temperature	N.W.	TBD			
	Standard Port	19V DC-IN.			
Cooling Method	Optional	Phoenix_2PIN			
	Operating Temp.	- 20°C to 60°C			
Operating System	Storage Temp.	- 40°C to 80°C			
	Cooling Method	Passive			
	Operating System	Windows 10/11 64bit, Linux 64bit			

## RTC Function Support

The SXRL-20 supports the Real Time Clock(RTC) function. Users can set up independent power on/off scheduling for each day of the week.



## Dimension & Mounting Option (in mm)



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