DATASHEET

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 Slot for NVMe/SATA SSD, M.2 Slot 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

intel IoT Solutions Alliance
Industrial Solution Builders Specialist

Maxtang®
MAXIMIZING YOUR COMPUTING PRODUCTIVITY

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(Core i7-1255U/1355U), 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.

Linux™

ubuntu Linux

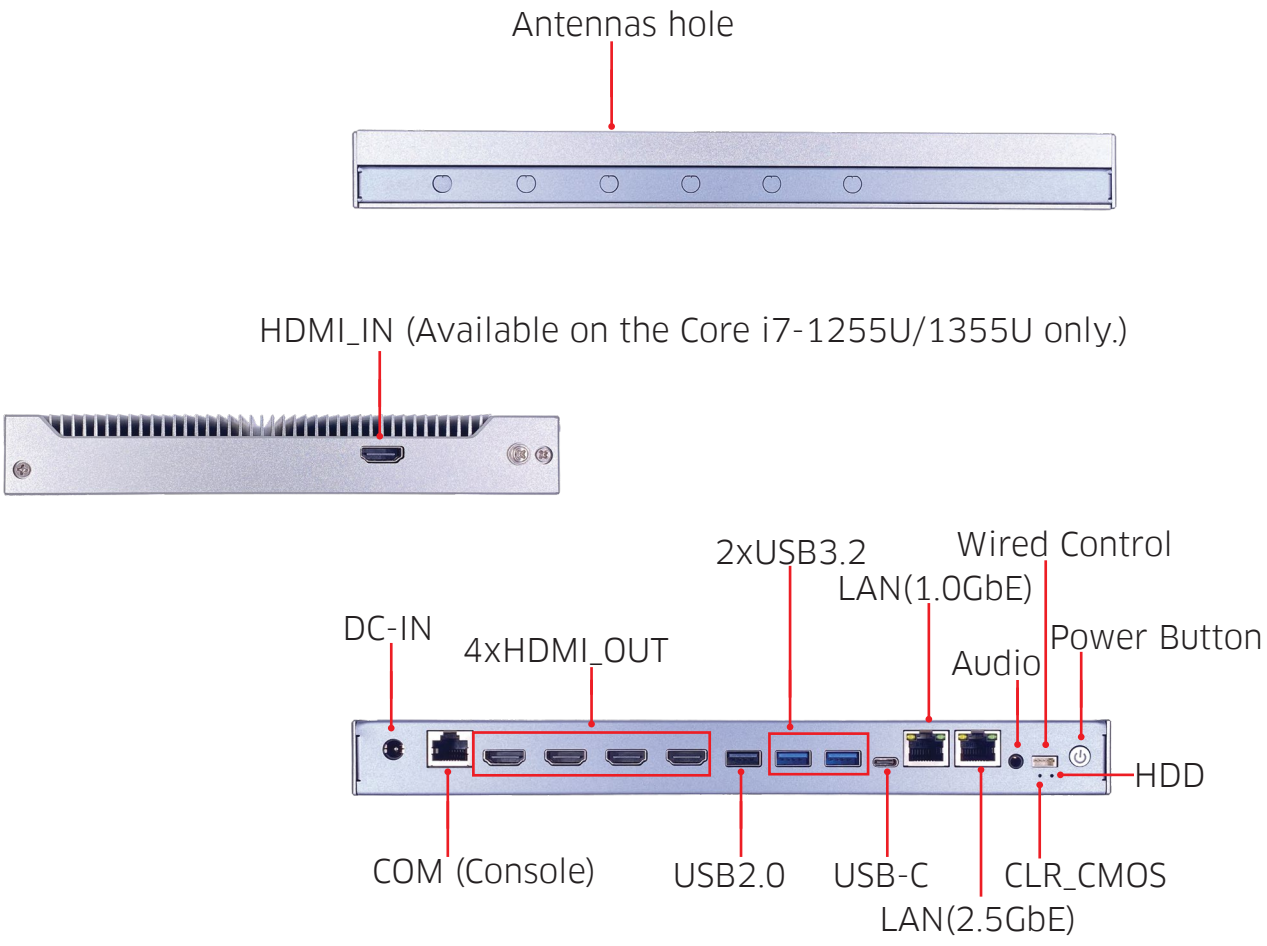
Windows

H/W Monitor

Watchdog

HDMI™ HIGH-DEFINITION MULTIMEDIA INTERFACE

I/O Interfaces



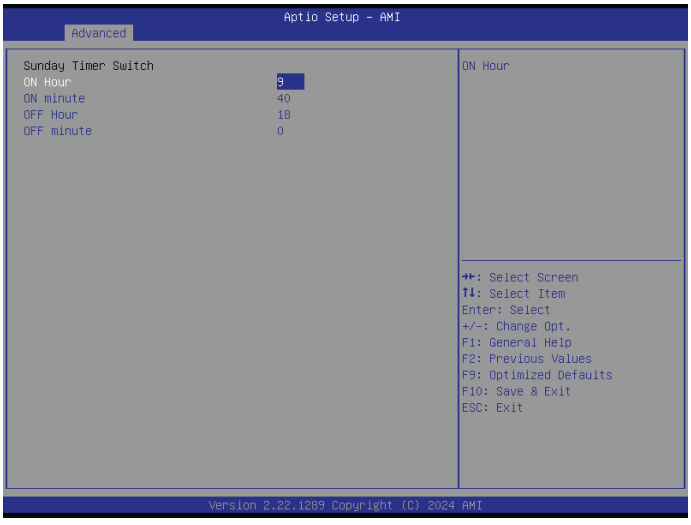
Technical Specifications

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		
Memory	Type	Dual Channel SO-DIMM DDR4		
	Max. Capacity	64GB		
Display	GPU	Integrated Intel® UHD/Iris® Xe Graphics		
	Display via	4x HDMI2.0_out		
		1x HDMI_in (Available on the Core i7-1255U/1355U only.)		
Ethernet	Max. Speed	10/100/1000/2500Mbps		
	Controller	1xIntel i226		
		1xIntel i219		
	Interface	2xRJ45		
	Wake on LAN	Yes		
Audio	Audio Codec	CONEXANT HD CX20632		
	Interface	1x CTIA 2 in 1 Audio Jack		
Storage	M.2_N/S	1x M.2_2280 Slot for NVMe/SATA SSD		
	M.2_N	1x M.2_2280 Slot for NVMe SSD		
Expansion	M.2_E	1x M.2 Slot for WiFi&BT. Support PCIe & Intel® Integrated Connectivity(CNVi).		
	M.2_4G/5G	1x M.2 Slot for 4G/5G		
	SIM Slot	1		
Other I/O	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 .		
Dimension	Size	280mm x 195mm x 28mm		
Weight	N.W.	TBD		
Power	Standard Port	19V DC-IN.		
	Optional	Phoenix_2PIN		
Temperature	Operating Temp.	- 20°C to 60°C		
	Storage Temp.	- 40°C to 80°C		
Cooling Method		Passive		
Operating System		Windows 10/11 64bit, Linux 64bit		

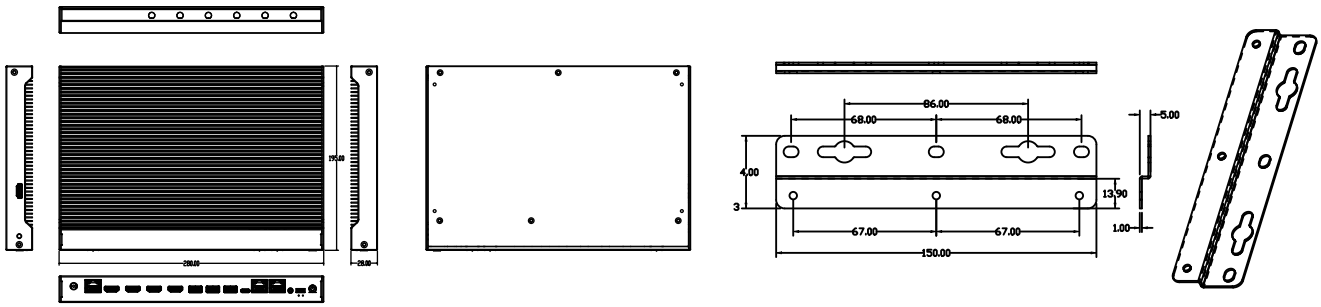
* All specifications and photos are subject to change without notice.

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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