

MTN-AL50

Intel® Alder Lake-P/Raptor Lake-P Series Processor based
Ultra-Compact Mini PC



Features

- CPU: 12th/13th Gen Intel® Alder Lake-P/Raptor Lake-P Processors
- Memory: Dual Channel SO-DIMM DDR5 Up to 64GB
- Display: Intel® Integrated Graphics, Display via 2x HDMI2.0+DisplayPort1.4(USB-C)
- I/O Ports: 2xUSB3.2, 2xUSB2.0, 2xLAN(2.5GbE), USB-C, Audio
- Expansion: M.2 for WiFi and Bluetooth
- Storage: SATA3.0, M.2_2280 NVMe SSD
- Power: 19V/20V DC-in



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MAXIMIZING YOUR COMPUTING PRODUCTIVITY

Introduction

The Maxtang MTN-AL50 is a compact mini PC based on the 12th Gen Intel Alder Lake-P/13th Gen Raptor Lake-P processors, which provides excellent performance with greater space-saving. Supports dual-channel SO-DIMM DDR5 up to 64GB, dual display via Intel Iris Xe Graphics through 2xHDMI2.0. Features two 10/100/1000/2500 Mbps ethernet controllers, SATA3.0 and M.2 for storage, M.2 Key E for WiFi, and Bluetooth. A rich I/O interface includes 2xUSB3.2, 2xUSB2.0, 2xLAN, 1xUSB-C, Mic-in and Line-out in one with standard 19V/20V DC-in caters to most markets' requirements.

The MTN-AL50 is an ideal solution for various applications. It retains the robust design of all Maxtang product lines at a new cost-effective price point. The powerful features provide the user with an outstanding visual experience and increase productivity with solid performance. Our goal is to provide the best products with high quality and cost advantages.



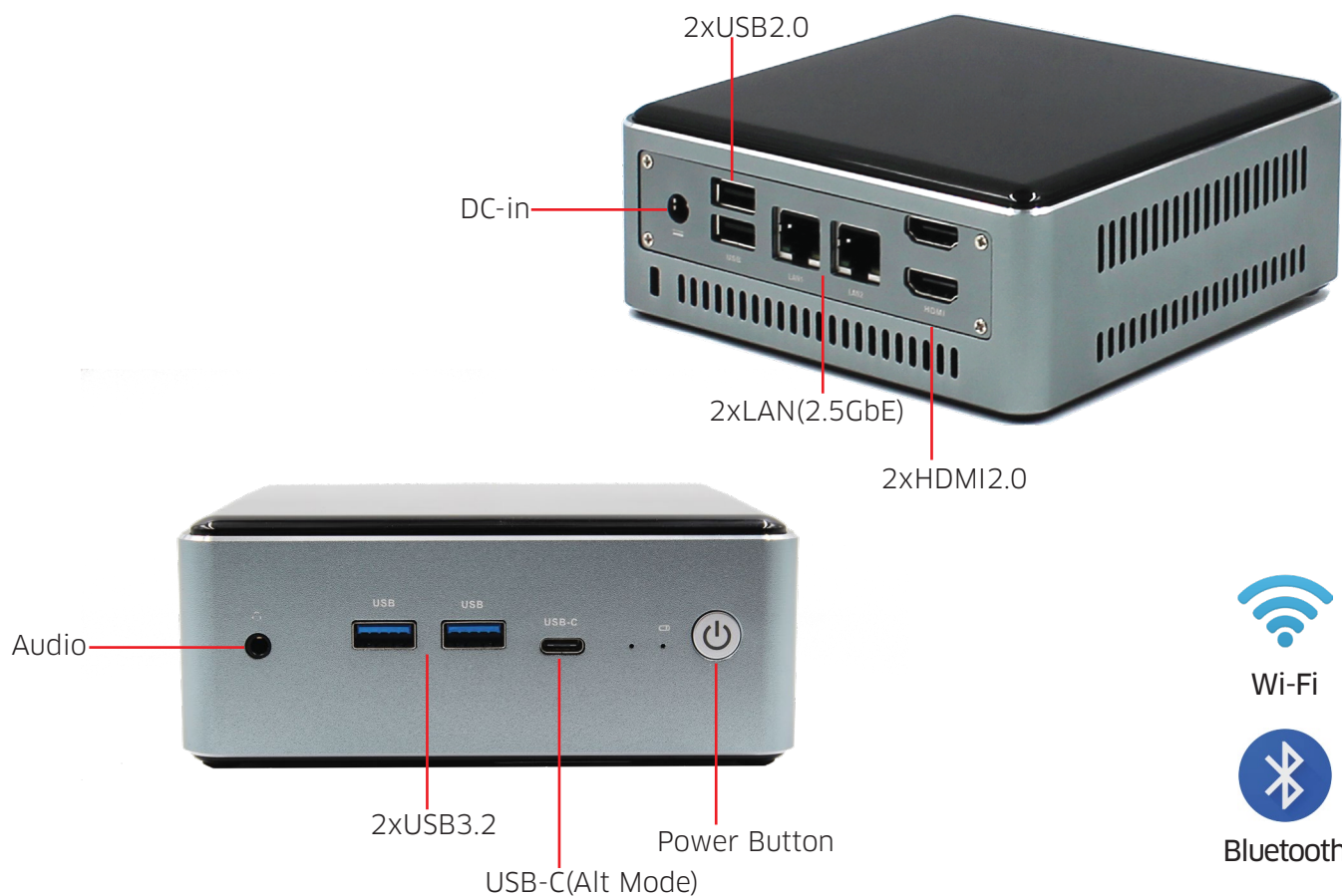
H/W Monitor



Watchdog



I/O Interfaces

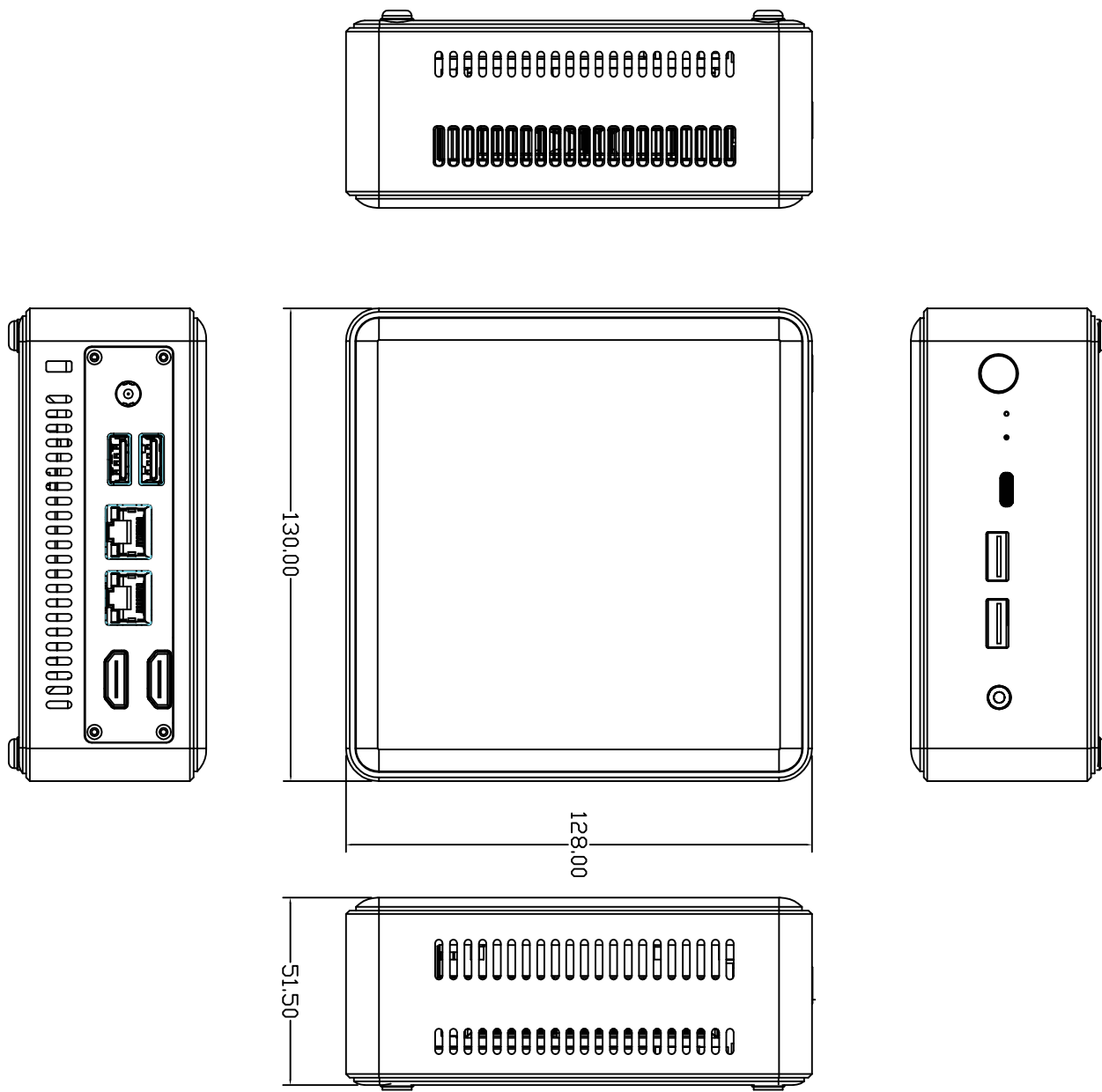


Technical Specifications

Processor	CPU	i7-1260P	i5-1240P	i7-1360P	i5-1340P
	Total Cores/Threads	12C/16T	12C/16T	12C/16T	12C/16T
	# of Performance-cores	4	4	4	4
	# of Efficient-cores	8	8	8	8
	P-core Max Turbo Frequency	4.70 GHz	4.40 GHz	5.00 GHz	4.60 GHz
	E-core Max Turbo Frequency	3.40 GHz	3.30 GHz	3.70 GHz	3.40 GHz
	Cache	18 MB	12 MB	18 MB	12 MB
	Processor base Power	28 W	28 W	28 W	28 W
Memory	Type	Dual Channel SO-DIMM DDR5			
	Max Capacity	64GB			
Display	GPU	Intel Integrated Graphics (Iris Xe/UHD Graphics depends on CPU)			
	Display Interface	2xHDMI2.0 plus DisplayPort 1.4 through USB-C			
Ethernet	Speed	10/100/1000/2500 Mbps			
	Controller	RTL8125			
	Interface	2xRJ-45			
Audio	Audio Codec	Realtek HD			
	Interface	1xCTIA Audio Jack, Supports Line-out+Mic-in			
Hardware	CPU temperature, System temperature, Onboard voltage, Watchdog				
Storage	M.2	1xM.2 for 2280 NVMe SSD, PCIe4.0 4X Signal			
	SATA3.0	1			
Expansion	M.2	1xM.2 for WiFi and Bluetooth, Supports CNVi			
Other I/O	USB2.0	2			
	USB3.2	2			
	USB-C	1xUSB-C Full-functioned			
		Support USB 3.2 Gen 2 upstream/DisplayPort 1.4 Alt Mode(power up to 90W)			
Dimension	Size	128 mm x 130 mm x 52mm (L x W x H)			
Power	Standard Port	19V/20V DC-in			
Temperature	Operating Temp.	0°C to 50°C			
	Storage Temp.	-20°C to 70°C			
Cooling		Active			
Operating System		Win10/11 64bit, Linux 64bit			

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

Dimension



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