MTN-AL50

Intel® Alder Lake-P Series Processor based Ultra-Compact Mini PC with Dual Displays



Features

■ CPU: 12th Gen Intel® Alder Lake-P Series Processor

Memory: Dual Channel DDR5 for Memory up to 64GB

Display: Intel® Integrated Graphics, Dual Displays via HDMI2.0

■ I/O Ports: 2xUSB3.2, 2xUSB2.0, 2xLAN(2.5GbE), 2xHDMI2.0, USB-C, Audio

Expansion: M.2 for WiFi and Bluetooth

Storage: SATA3.0, M.2_2280 SSD NVMe

Power: 19V/20 DC-in



IoT Solutions Alliance

Industrial Solution Builders Specialist



Introduction

The Maxtang MTN-AL50 is a compact mini PC based on the 12th Gen Intel Alder Lake-P Series 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.













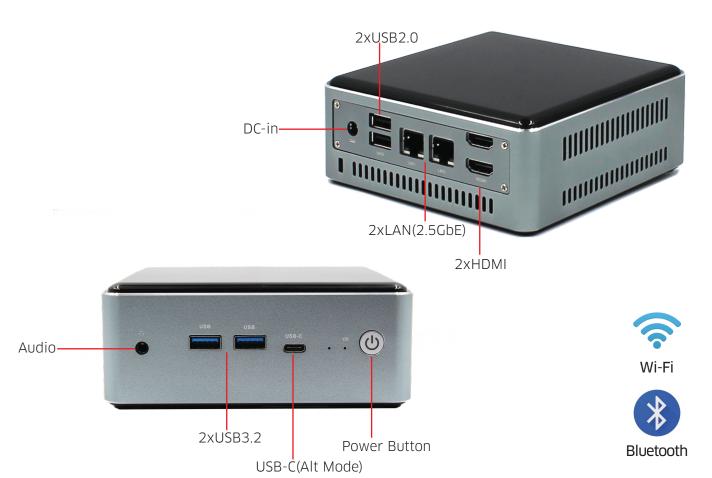




GPIO

Brightness

I/O Interfaces

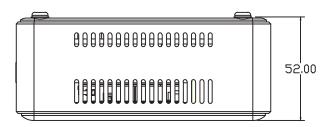


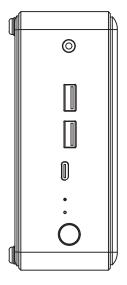
Technical Specifications

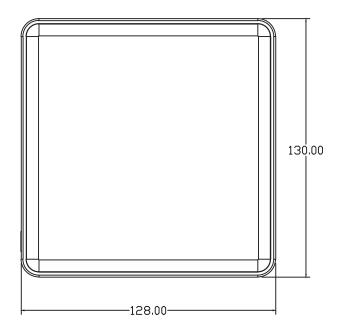
Processor	Alder Lake P Series		i7-1260P	i5-1240P	
	Total Cores/Threads		12C/16T	12C/16T	
	# of Performance-cores		4	4	
	# of Efficient-cores		8	8	
	P-core Max Turbo Frequency		4.70 GHz	4.40 GHz	
	E-core Max Turbo Frequency		3.40 GHz	3.30 GHz	
	Cache		18 MB	12 MB	
	Processor base Power	cessor base Power		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 Port	2x HDN	2x HDMI 2.0		
Ethernet	Speed	10/100/1000/2500 Mbps			
	Controller	RTL812	RTL8125		
	Interface	2xRJ-45			
Audio	Audio Codec	Audio Codec Realtek HD			
	Interface	Line-ou	Line-out, Mic-in, Audio header, Amplifier header		
Hardware	CPU temperature, system temperature, onboard voltage, watchdog			n temperature, onboard voltage, watchdog	
Storage	M.2	1xM.2 for NVMe 2280 SSD, PCIe4.0 4X Signal			
	SATA3.0	1			
Expansion	M.2	2 1xM.2 for WiFi and Bluetooth, Supports CNVi			
I/O Interface	HDMI2.0	2			
	USB2.0	2	2		
	USB3.2	2	2		
	LAN	2			
	Audio	1			
	Line-out	1xCTIA	1xCTIA Audio Jack (Line-out+Mic-in)		
	USB-C	1xUSB-	1xUSB-C Full-functioned		
		Suppor	Support USB 3.2 Gen 2 upstream/DisplayPort 1.4 Alt Mode (power up to 90W)		
Dimension	Size	128 mr	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 5	50°C		
	Storage Temp.	-20°C to	-20°C to 70°C		
Cooling	Active				
Operating System		Win10/	'11 64bit, Linux 6	4bit	

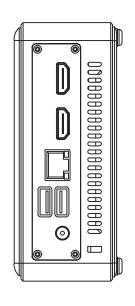
*All specifications and photos are subject to change without notice.

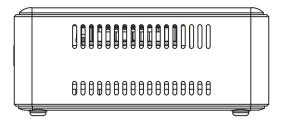
Dimension











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