

MTN-ALN50

Intel® Alder Lake N series Processor based Ultra Compact Mini PC with 2HDMI2.0 plus DP1.4(USB-C)



Features

- CPU: Intel® Alder Lake N series Processor
- Memory: Single Channel SO-DIMM DDR4 up to 32GB
- Display: Integrated Graphics display via 2xHDMI2.0 plus DP1.4(USB-C)
- I/O Ports: 2xLAN, 3xUSB3.2, 1xUSB2.0, USB-C
- Ethernet: 10/100/1000/2500Mbps
- Storage: 1x M.2 2280 SATA, 1xSATA(FPC)
- Power: 12V/19V DC-in



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Introduction

Introducing the MTN-ALN50 Ultra Compact Mini PC, powered by the Intel® Alder Lake-N series processor. This mini PC offers a remarkable combination of computing power and cost efficiency. With support for single-channel SO-DIMM DDR4 memory up to 32GB, delivers a smooth performance for multitasking efficiency. The mini pc offers multiple displays feature through 2xHDMI2.0 plus a USB-C port with DisplayPort 1.4 Alt Mode functions. For storage-wise, an M.2 interface and FPC SATA interfaces can ensure ample space for your data.

Designed with a compact small form factor measuring just 129mm x 127mm x 52.5mm encased in a durable aluminum chassis, the MTN-ALN50 is ideal for space-saving installations in addition to VESA supports. It has a rich I/O interface, including 2xRJ45(2.5GbE), 3xUSB3.2, 1xUSB2.0, and 1xCITA for more flexibility. Whether you prefer a desktop-ready configuration for easy installation or a barebone setup for highly customizable deployments, the MTN-ALN50 meets your specific needs. Its versatility makes it an excellent solution for various applications, including kiosks, point of sale (PoS) systems, retail environments, and other IoT applications.



H/W Monitor



Watchdog



I/O Interfaces



Audio

USB-C

2xUSB3.2

Power Button



2xLAN(RJ45)

1xUSB3.2

1xUSB2.0

2xHDMI

DC-IN



Wi-Fi



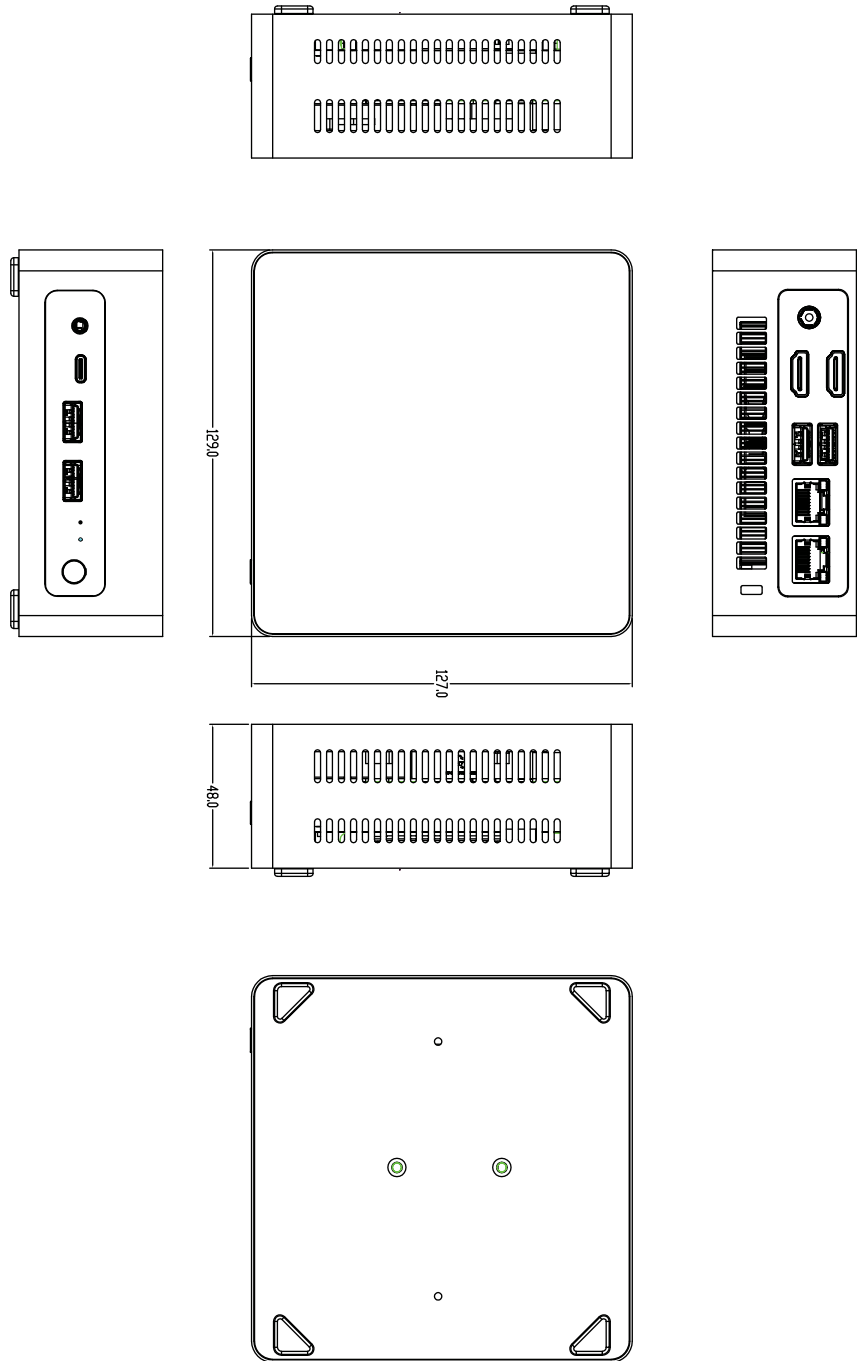
Bluetooth

Technical Specifications

Processor	CPU	N100	N305	N97
	Total Cores/Threads	4C/4T	8C/8T	4C
	Max Turbo Frequency	3.40GHz	3.80 GHz	3.60 GHz
	Intel® Smart Cache	6MB	6MB	6MB
	Processor base Power	6W	15 W	12 W
Memory	Type	Single Channel SO-DIMM DDR4		
	Max Capacity	32GB		
Display	GPU	Integrated Intel® UHD Graphics		
	Display Interface	2xHDMI2.0 plus DisplayPort 1.4 through USB-C		
Ethernet	Speed	10/100/1000/2500 Mbps		
	Controller	RTL8125		
	Interface	2xRJ-45		
	Wake on LAN	Yes		
Audio	Audio Codec	Realtek HD		
	Interface	1xCTIA 2-in1 Audio Jack, Supports Line-out+Mic-in		
Hardware	CPU tem perature, System temperature, Onboard voltage, Watchdog			
Storage	M.2	1xM.2 for 2280 SATA		
	SATA	1x FPC SATA interface		
Expansion	M.2	1xM.2 for WiFi, supports PCIe, USB&CNVi		
	EMMC	Optional		
Other I/O	USB2.0	1		
	USB3.2	3		
	USB-C	1xUSB-C Full-functioned		
		Support USB 3.2 Gen 2 upstream/DisplayPort 1.4 Alt Mode		
	Wired Control	Optional		
	TPM	Optional		
	Dimension	Size	129mm x 127mm x 52.5mm (L x W x H)	
Power	Standard Port	12V/19V 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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