

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: 12/19V 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



2xLAN(RJ45) 1xUSB3.2
 1xUSB2.0 DC-IN
 2xHDMI2.0



Audio USB-C 2xUSB3.2 Power Button



Wi-Fi



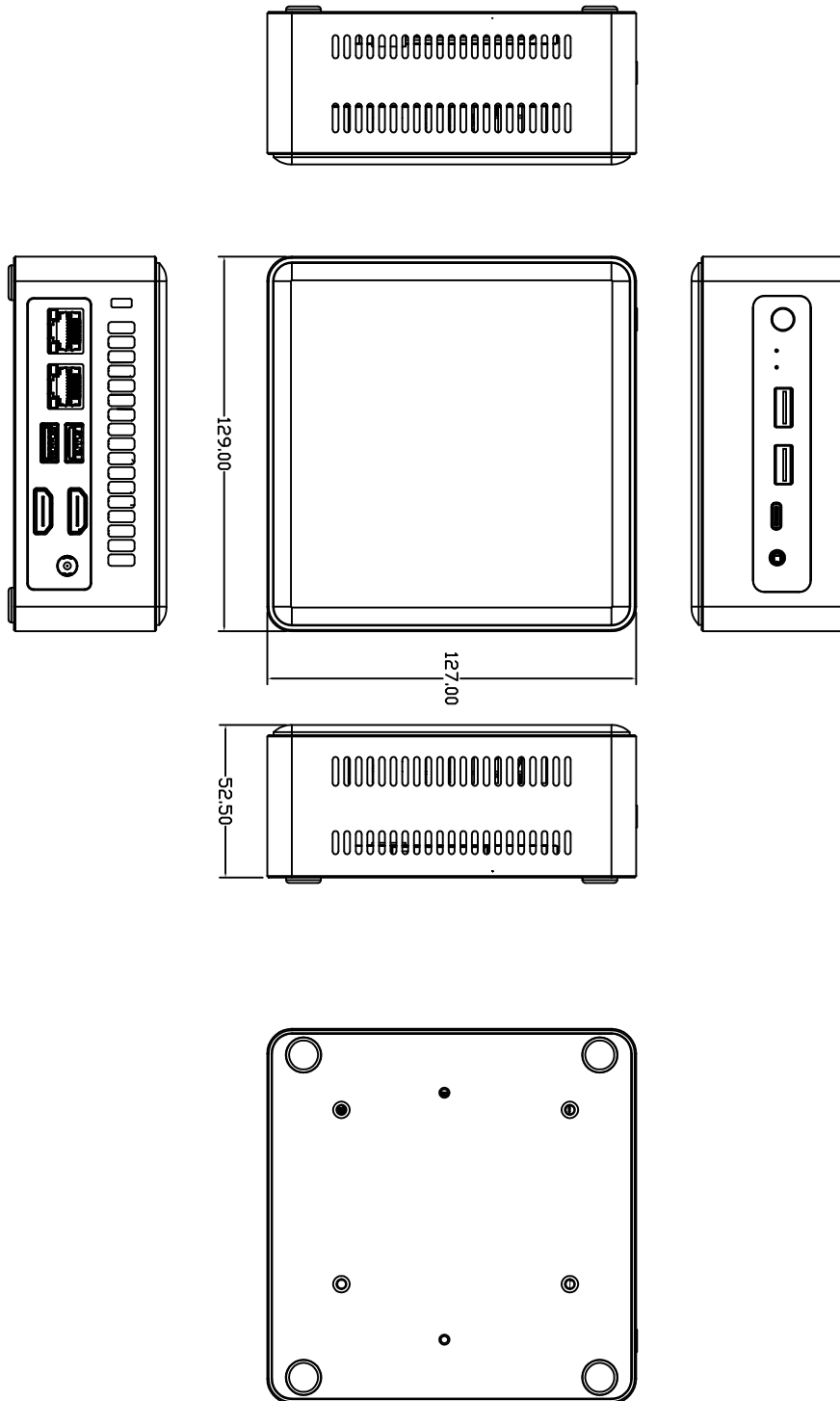
Bluetooth

Technical Specifications

Processor	CPU	N100	N305
	Total Cores/Threads	4C/4T	8C/8T
	Max Turbo Frequency	3.40GHz	3.80 GHz
	Intel® Smart Cache	6MB	6MB
	Processor base Power	6W	15 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 temperature, 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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