

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



IoT Solutions
Alliance

Industrial Solution
Builders Specialist

Maxtang[®]

MAXIMIZING YOUR COMPUTING PRODUCTIVITY

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 48mm 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



Wi-Fi



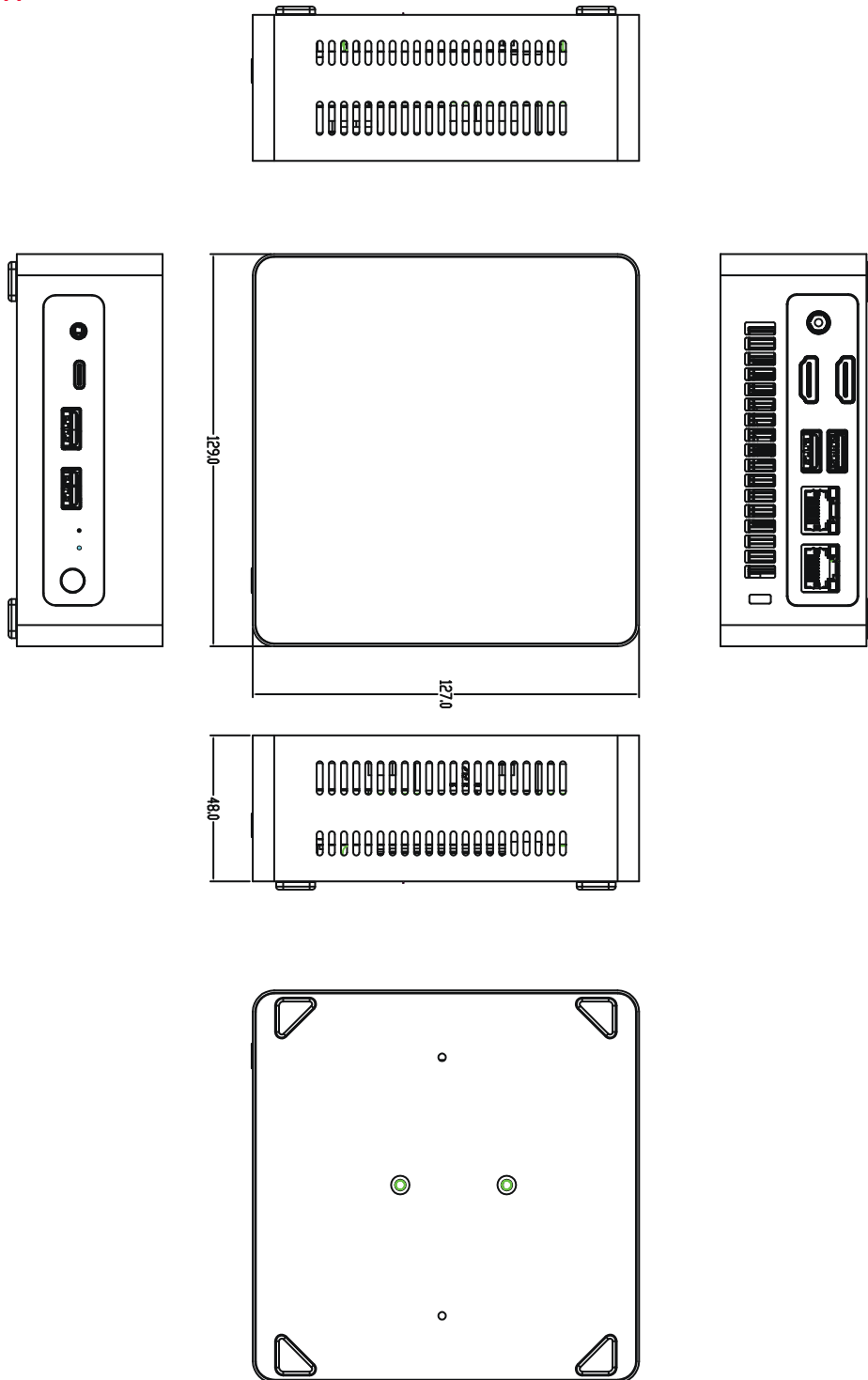
Bluetooth

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 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 48mm (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



Copyright ©2023 Maxtang Technology Co. Ltd. All rights reserved. All data is for information purposes only and not guaranteed for legal purposes. Information has been carefully checked and is believed to be accurate however, no responsibility is assumed for inaccuracies. Maxtang and the Maxtang logo and all other trademarks or registered trademarks are the property of their respective owners and are recognized.