

NX-N100

Intel® Alder Lake N series Processor based Ultra Compact
Fanless Mini PC



Features

- CPU: Intel® Alder Lake N series Processor
- Memory: Single Channel SO-DIMM DDR4 up to 16GB
- Display: Integrated Graphics display via 2 x HDMI2.0, USB-C(DP1.4)
- I/O Ports: 2 x LAN, 3 x USB3.2, 1 x USB2.0, USB-C, SIM, COM optional
- Ethernet: 10/100/1000/2500Mbps
- Storage: 1 x M.2 Key B for 2280/2242 SATA SSD/3042 4G, 1 x SATA FPC
- Power: 12V DC-in



Introduction

The Maxtang's NX-N100 ultra-compact fanless mini-PC incorporated the Intel Alder Lake-N series processor, offering you greater computing power with cost advantages. Supports Single-channel SO-DIMM DDR4 up to 16GB, multiple displays via 2xHDMI2.0 plus USB-C DisplayPort 1.4 Alt Mode. A rich i/o interface includes 2xLAN, 3xUSB3.2, and 1xUSB2.0 to meet most market requirements. It provides an excellent customer experience and a long-lasting life expectancy for future development.

Based on small form factors, the compact design at 127mm x 127mm x 45.6mm makes it great for space-saving. The NX-N100 has 1xM.2 for storage or a 4G module, 1x SATA FPC interface with built-in Wi-Fi&Bluetooth, SIM slot for expansion. Desktop ready for easy installation. With advanced cooling construction and a compact, fanless design it can overcome noise challenges. Its comprehensive connectivity makes it suitable for kiosks, PoS, retail, or other IoT application uses.



H/W Monitor



Watchdog



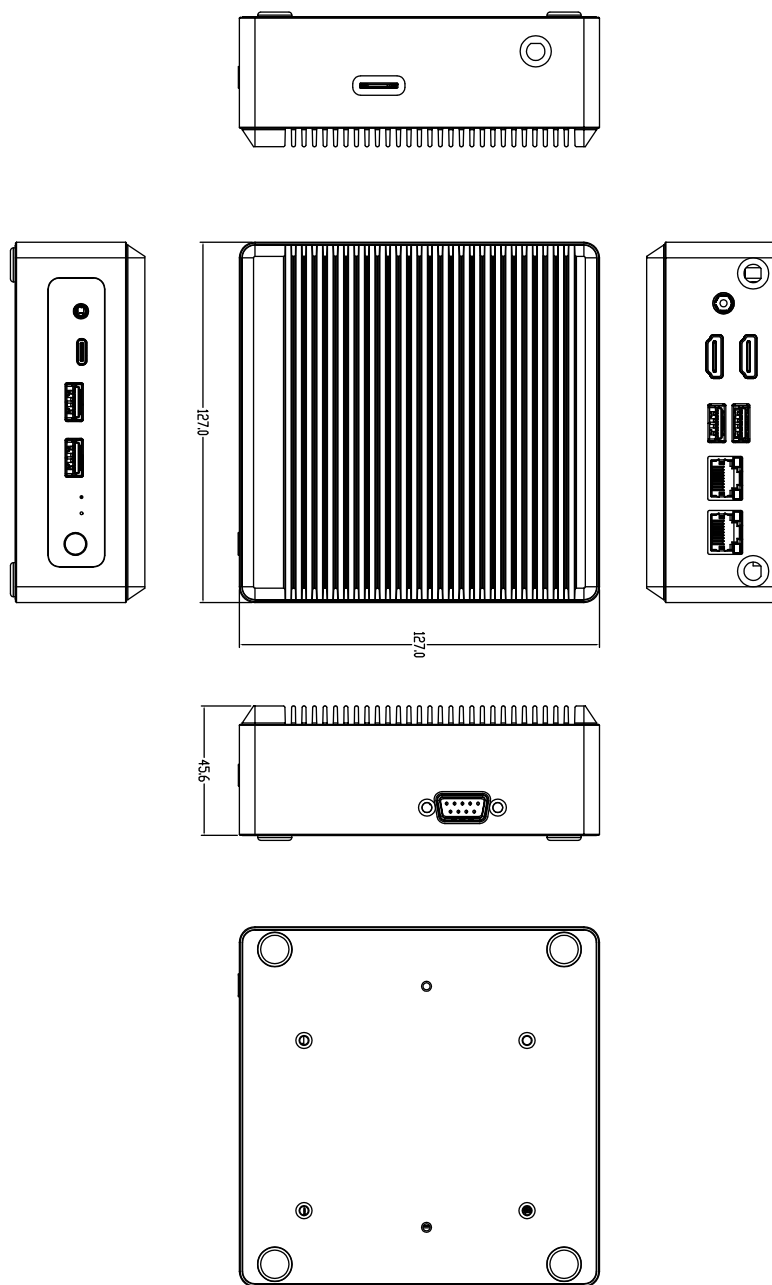
I/O Interfaces



Technical Specifications

Processor	CPU	N100	N150
	Total Cores/Threads	4C/4T	4C/4T
	Max Turbo Frequency	3.40GHz	3.60GHz
	Intel® Smart Cache	6MB	6MB
	TDP	6W	6W
Memory	Type	Single Channel SO-DIMM DDR4	
	Max. Capacity	16GB	
Display	GPU	Integrated Intel® UHD Graphics	
	Display Interface	2 x HDMI2.0 + USB-C (DisplayPort 1.4 Alt Mode)	
Ethernet	Speed	10/100/1000/2500Mbps	
	Controller	2 x RTL8125	
	Interface	2 x RJ45	
	Wake on LAN	Yes	
Audio	Audio Codec	Realtek HD	
	Interface	1 x CTIA 2-in-1 Audio Jack, supports Mic-in+Line-out	
Storage	M.2	1 x M.2 Key B Slot for 2280/2242 SATA SSD or 3042 4G Module	
	SATA	1 x SATA3.0 FPC interface	
Expansion	M.2	1 x M.2 Key E Slot for 2230 for WiFi&Bluetooth(PCIe/USB/CNVi Signal)	
	SIM Slot	1 x SIM Slot	
Other I/O	eMMC	Optional	
	COM	1 x RS232 optional	
	USB2.0	1 x USB2.0	
	USB3.2	3 x USB3.2	
	USB-C	1 x USB-C(Support USB 3.2 Gen 2/DisplayPort 1.4 Alt Mode)	
	Wired Control	Optional	
	TPM	Optional	
Dimension	Size	127mm x 127mm x 45.6mm	
Weight	N.W.	TBD	
Power	Standard Port	12V DC-in	
Temperature	Operating Temp.	- 20°C to 60°C	
	Storage Temp.	- 40°C to 80°C	
Cooling Method		Passive	
Operating System		Windows 10/11 64bit, Linux 64bit	

Dimension (mm)



Copyright © 2026 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. The terms HDMI, HDMI High-Definition Multimedia Interface, HDMI Trade dress, and HDMI Logos are trademarks or registered trademarks of HDMI Licensing Administrator, Inc.