

NXALN51

Intel® Twin Lake / Alder Lake-N Series Ultra-Compact Fanless
Mini PC with 4 LAN Ports



Features

- CPU: Intel® Twin Lake/Alder Lake N series
- Memory: Single Channel SO-DIMM DDR4 up to 16GB
- Display: Integrated Graphics display via 2 x HDMI2.0
- I/O Ports: 4 x LAN, 2 x USB3.2, 2 x USB2.0, SIM Slot, COM
- 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



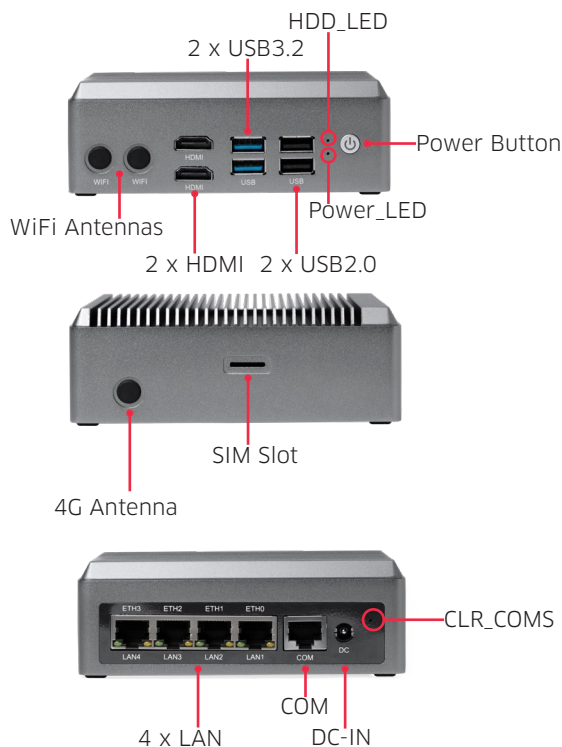
Introduction

The Maxtang NXALN51 is an ultra-compact fanless mini PC powered by Intel® Twin Lake / Alder Lake-N Series processors, delivering efficient performance with low power consumption. Its compact 127 × 127 × 43.5 mm design and passive cooling solution enable quiet and reliable operation in space-constrained environments.

The NXALN51 features four 2.5GbE LAN ports, dual HDMI 2.0 display outputs, DDR4 memory, and flexible M.2 expansion for storage and wireless connectivity. With rich I/O and versatile expansion options, it is well suited for network appliances, edge computing, industrial control, and other embedded applications.



I/O Interfaces

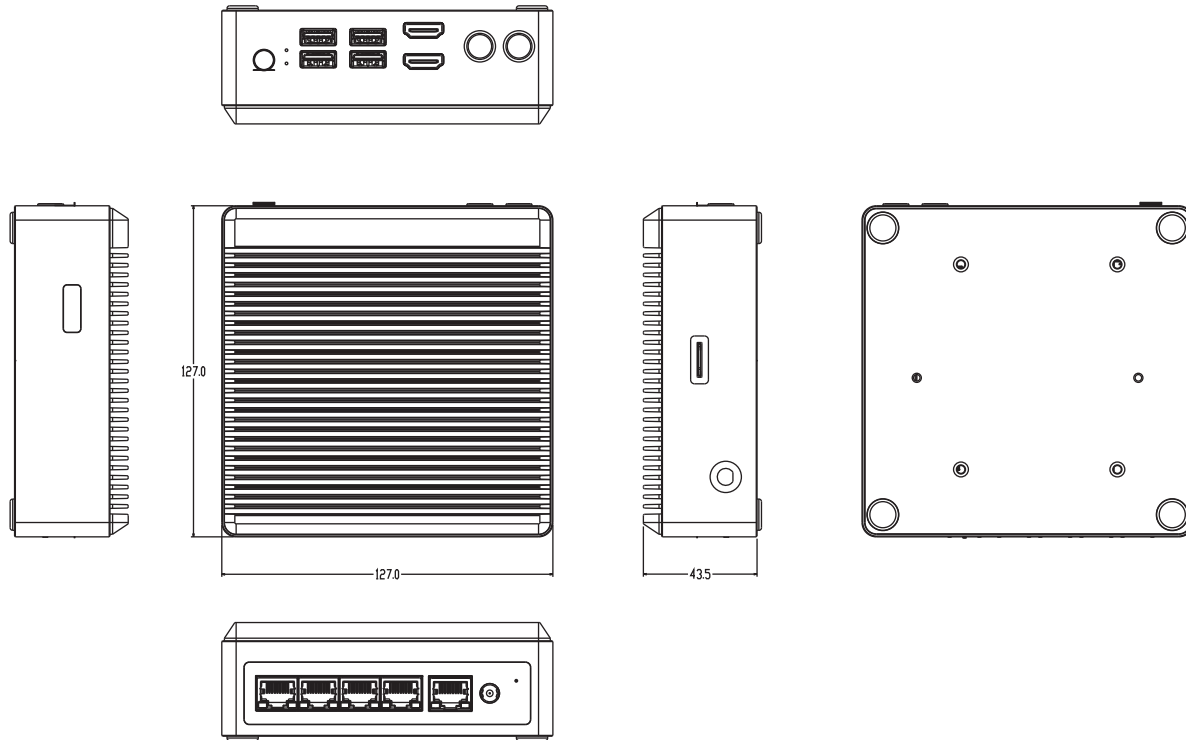


Technical Specifications

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	
Ethernet	Speed	10/100/1000/2500Mbps	
	Controller	4 x Intel i226	
	Interface	4 x RJ45	
	Wake on LAN	Yes	
Storage&Expansion	M.2_S/W	1 x M.2 Key B Slot for 2280/2242 SATA SSD or 3042 4G Module	
	M.2_E	1 x M.2 Key E Slot for 2230 for WiFi&BT(PCIe/USB/CNVi Signals)	
	SATA	1 x SATA3.0 FPC interface	
	SIM Slot	1 x SIM Slot	
Other I/O	COM	1 x RJ45 RS-232 console port	
	USB2.0	2 x USB2.0	
	USB3.2	2 x USB3.2	
	TPM	Optional	
Dimension	Size	127mm x 127mm x 43.5mm	
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 64-bit, Linux 64-bit	

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

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.