DATASHEET

NX6412-4L

Intel® Elkhart Lake Processor based Ultra Compact Fanless Mini PC with 4LAN

Features

- CPU: Intel® Elkhart Lake J6412 Processor
- Memory: Single Channel SO-DIMM DDR4 up to 32GB
- Display via: Intel® Integrated Graphics display via 2xHDMI2.0
- I/O Ports: 4xLAN, 2xUSB3.2, 2xUSB2.0, 1xCOM, 1xSIM
- Ethernet: 10/100/1000/2500Mbps, Intel® i225/i226
- Storage: 1x M.2 2242/2280 SSD, 2.5-inch SATA optional
- Power: 12V DC-in

intel IoT Solutions Alliance
Industrial Solution Builders Specialist

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Introduction

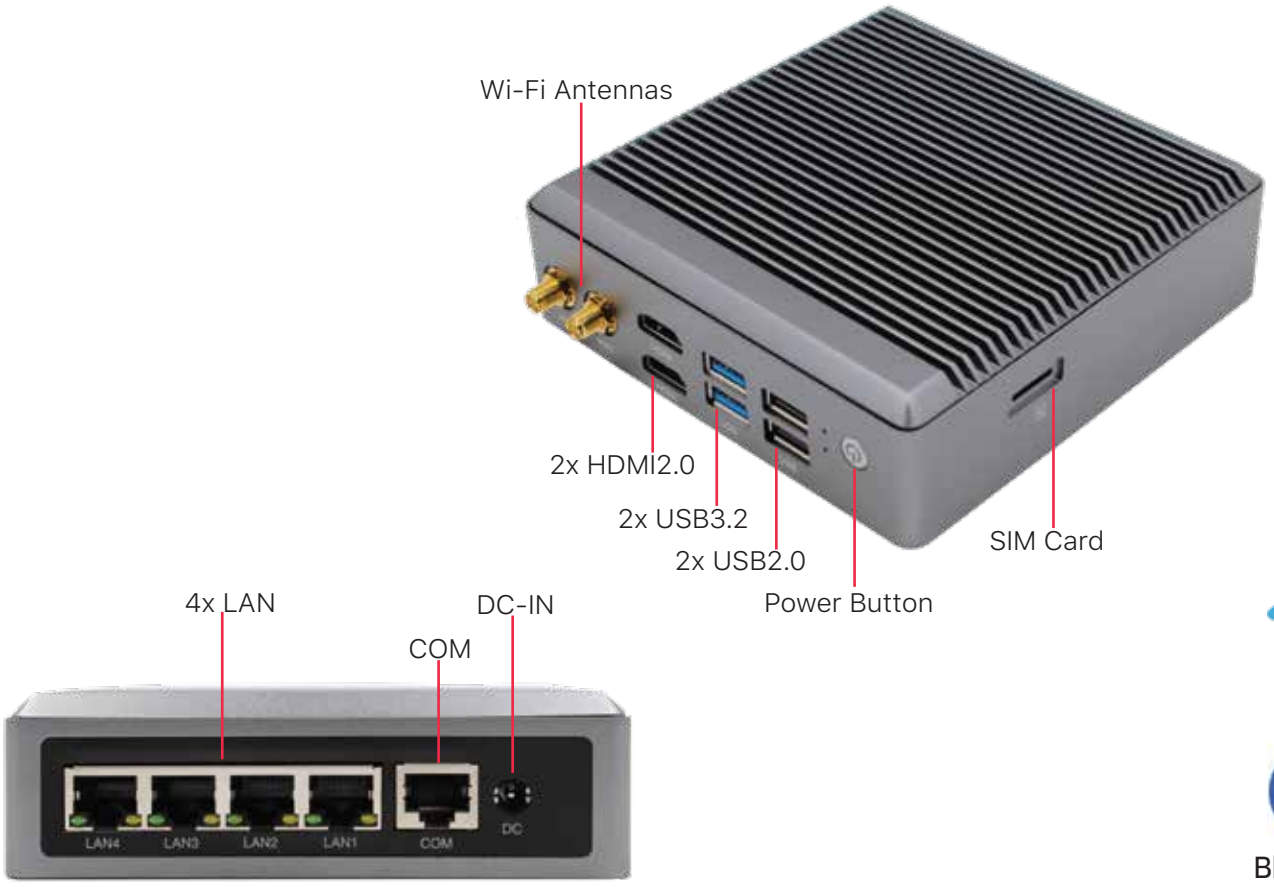
The Maxtang's NX6412-4L incorporated the Intel Elkhart Lake processors, offering you greater computing power with cost advantages. Supports Single-channel SO-DIMM DDR4 up to 32GB, dual independent displays via 2xHDMI2.0. A rich i/o interface includes 4xLAN, 2xUSB3.2, 2xUSB2.0, 1xCOM, 1xSIM, and up to 2.5GbE for high speed communication. 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 37mm makes it great for space-saving. The PC has 1xM.2 for storage, 2.5-inch SATA optional, built-in Wi-Fi and Bluetooth, SIM slot for expansion. Desktop ready for easy installation. It builds with advanced cooling construction with a compact, fanless design and overcomes noise challenges. Its comprehensive connectivity makes it suitable for various applications.

Linux
ubuntu
Linux
Windows

H/W Monitor
Watchdog
GPIO
Brightness

I/O Interfaces



Wi-Fi

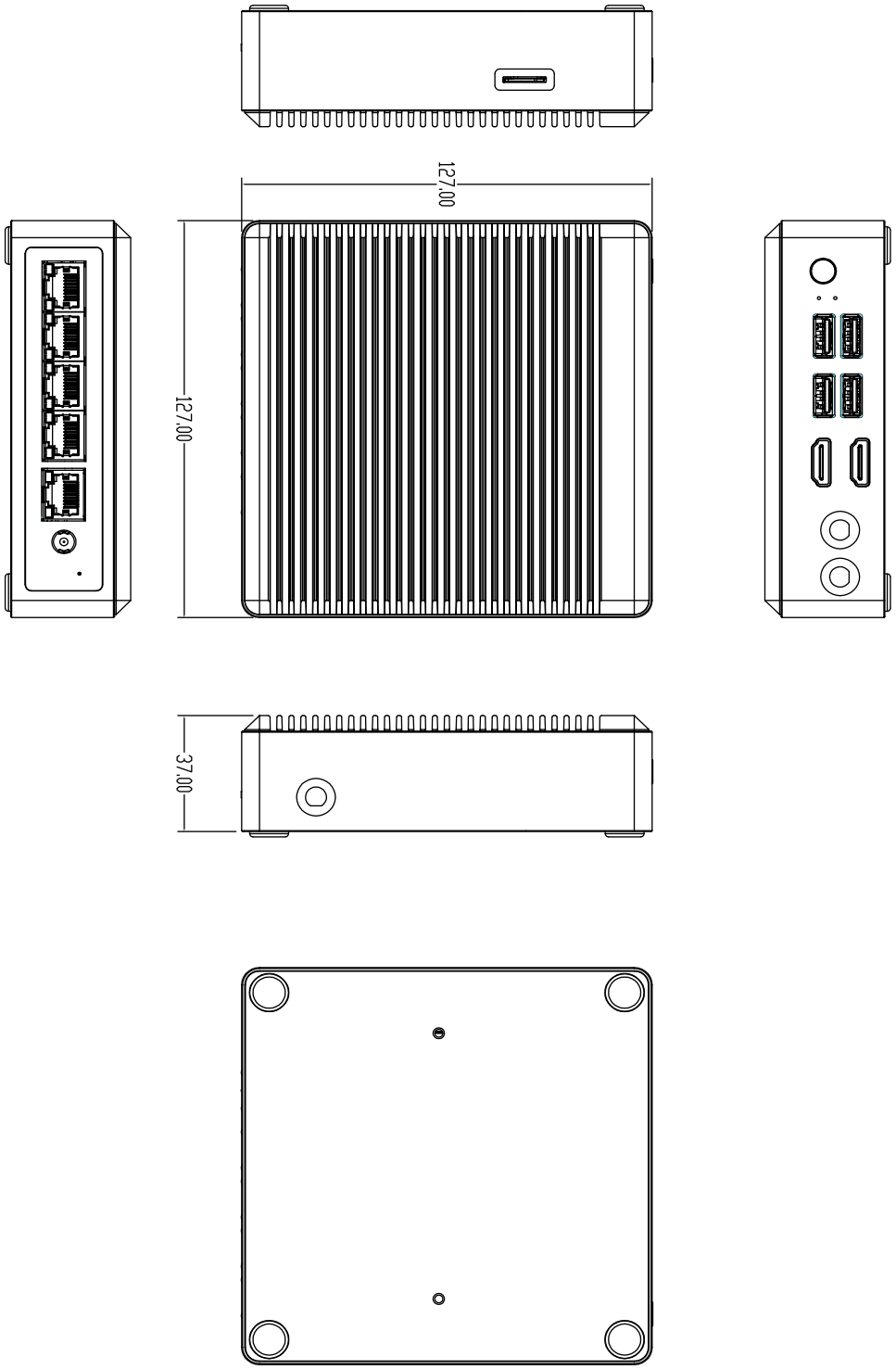
Bluetooth

Technical Specifications

Processor	CPU	J6412
	Base Frequency	2.00GHz
	Burst Frequency	2.60GHz
	Cache	1.5MB L2
	TDP	10W
Memory	Type	Single Channel SO-DIMM DDR4
	Max. Capacity	32GB
Display	GPU	Intel® UHD Graphics for 10th Gen Intel® Processors
	Display via	2xHDMI2.0
Ethernet	Speed	10/100/1000/2500 Mbps
	Controller	Intel i225/i226
	Interface	4x RJ45
	Wake on LAN	Yes
Storage	M.2	1xM.2 for 2242/2280 SSD (SATA ONLY) or 4G
	SATA	1x 2.5-inch Optional
Expansion	M.2	1xM.2 for WiFi
	SIM	1
I/O	LAN	2
	COM	1xRJ45 Console (RS232)
	USB2.0	2
	USB3.2	2
	HDMI2.0	2
Dimension	Size	127mm x 127mm x 37mm
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

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

Dimension (in mm)



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