

# IXH-ALN35

Intel® Alder Lake-N Series based Embedded Fanless Industrial PC



## Features

- CPU: Intel® Alder Lake-N Series Processor
- Memory: Single Channel SO-DIMM DDR4 up to 32 GB
- Display: Intel Integrated Graphics, display via HDMI®+DP
- Ethernet: 10/100/1000Mbps
- Storage: SATA3.0, mSATA
- Expansion: M.2 for WiFi
- Power: 9V-35V DC input, Phoenix input optional



IoT Solutions  
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## Introduction

The Maxtang IXH-ALN35 is a compact, embedded industrial PC powered by the Intel® Alder Lake-N series processor. It supports up to 8Cores 8Threads, 6M Cache, and 3.80GHz for Max Turbo frequency. Equipped 1xSO-DIMM DDR4 max to 32GB memory and a TDP rate of 12W-15W for energy saving. A rich I/O interface includes HDMI, DP, two RJ45 gigabit network controllers, six serial ports (default 4\*RS232+2\*RS485), and eight USB ports that suit most market requirements.

The IXH-ALN35 includes a comprehensive I/O interface for easy integration and a ruggedized design for harsh environments. It has a long-lasting life cycle based on its stability and reliability. It is made with an aluminum enclosure that contains a fanless structure intended to protect internal components from dust and debris in a harsh industrial environment.



H/W Monitor



Watchdog

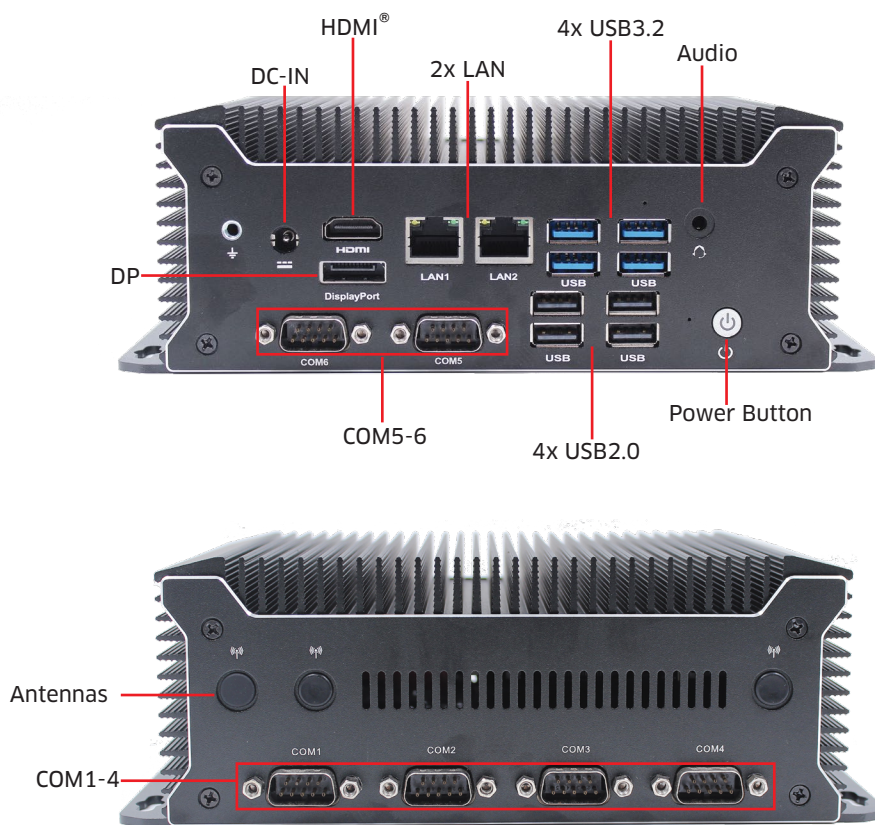


GPIO



Brightness

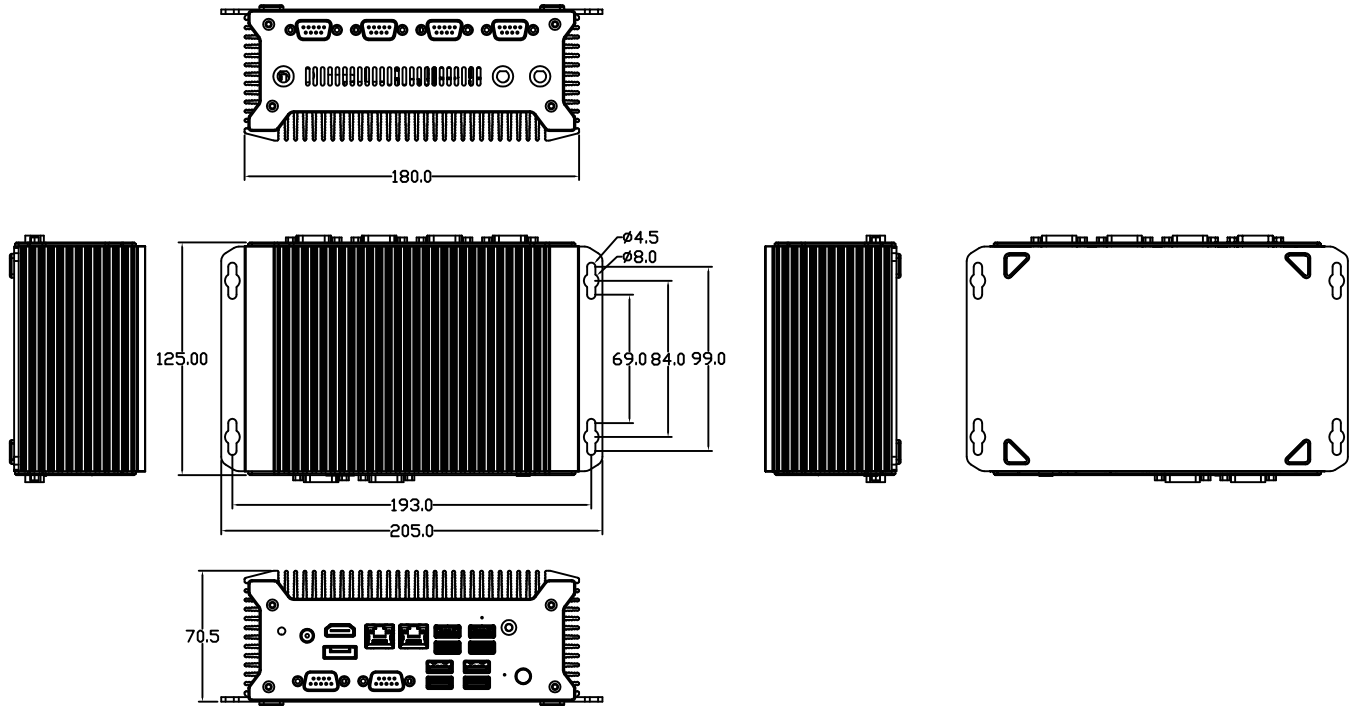
## I/O Interfaces



## Technical Specifications

Processor	CPU	Core i3-N305	N97
	Total Cores/Threads	8C/8T	4C
	Max Turbo Frequency	3.80GHz	3.60GHz
	Intel® Smart Cache	6MB	6MB
	TDP	15W	12W
	BIOS	AMI UEFI BIOS	
Memory	Type	Single Channel SO-DIMM DDR4	
	Max Capacity	32GB	
Display	GPU	Integrated Intel® UHD Graphics	
	Display via	1xHDMI2.0 + 1xDP	
Ethernet	Speed	10/100/1000Mbps	
	Controller	2x Intel i210	
	Interface	2x RJ45	
	Wake on LAN	Yes	
Audio	Audio Codec	Realtek HD	
	Interface	1xCTIA 2-in-1 Audio Jack	
Hardware	System temperature, Onboard voltage, Watchdog, Auto power on		
Storage	mSATA	1x mSATA for SSD/4G Module	
	SATA	1x SATA3.0 for 2.5-inch HDD	
Expansion	M.2	1x M.2_E for Wi-Fi, support Intel® Integrated Connectivity (CNVi)	
I/O Interface	COM	6xCOM: default 4*RS232+2*RS485(COM5,COM6), optional 6*RS232.	
	USB2.0	4x USB2.0	
	USB3.0	4x USB3.2	
	GPIO	8-bit	
	Wired Control	1	
	Dimension	Size	205mm x 125mm x 70.5mm
Power	Standard Input	9V-35V DC-IN	
	Peripheral Input	For Fan and SATA	
	LED Indicator	Power indicator	
Temperature	Operating Temp.	-20°C to 60°C	
	Storage Temp.	-40°C to 80°C	
Cooling	Passive		
Operating System	Win10/11 64bit, Linux 64 bit		

## Dimensions



IXH-ALN35



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