

IXH-AL35

Intel® Alder Lake/Raptor Lake U Series based Embedded Fanless Industrial PC



Features

- CPU: Intel® Alder Lake/Raptor Lake U Series Processor
- Memory: Dual Channel SO-DIMM DDR4 up to 64 GB
- Display: Intel® Integrated Graphics, display via 2xHDMI®
- Ethernet: 10/100/1000Mbps
- Storage: SATA, M.2_2242 for SATA/4G, M.2_2280 for NVMe
- Expansion: M.2 for Wi-Fi
- Power: 9V-35V (2-Pin DC-IN Phoenix Connector)



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Introduction

The Maxtang IXH-AL35 is a compact, embedded industrial PC powered by the Intel® Alder Lake/Raptor Lake U series processor. It supports up to 64GB of dual-channel SO-DIMM DDR4 memory, providing enhanced performance and productivity. A rich I/O interface includes 2xHDMI®, 2xRJ45 gigabit network controllers, six serial ports (default 6*RS232+COM1-2 can be set as RS485/RS422 under BIOS settings), and eight USB ports that suit various applications' requirements.

The IXH-AL35 includes a comprehensive I/O interface for easy integration and a rugged 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

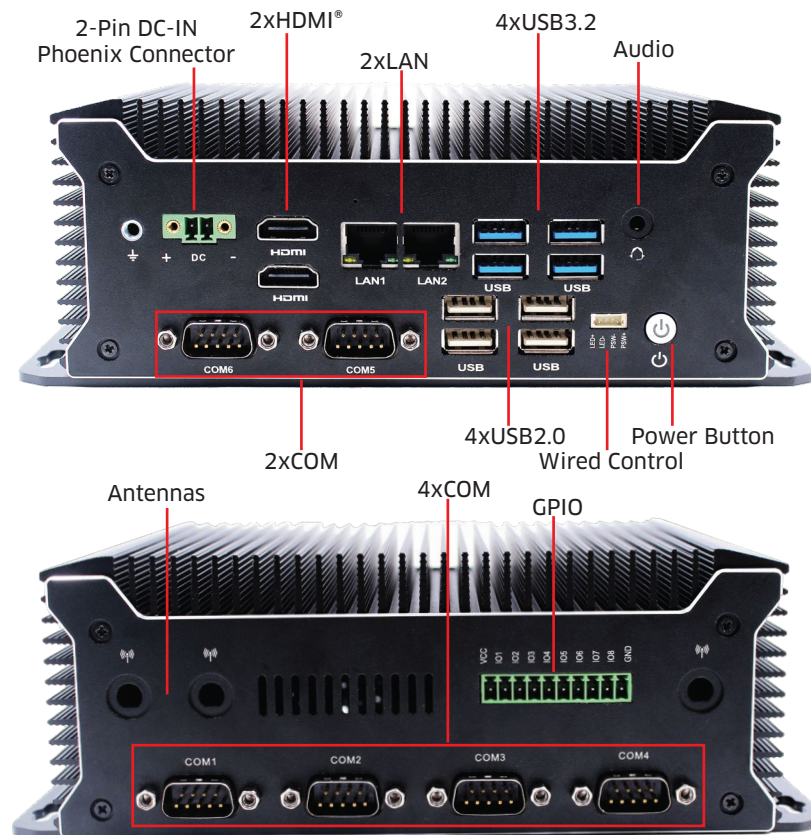


GPIO



Brightness

I/O Interfaces

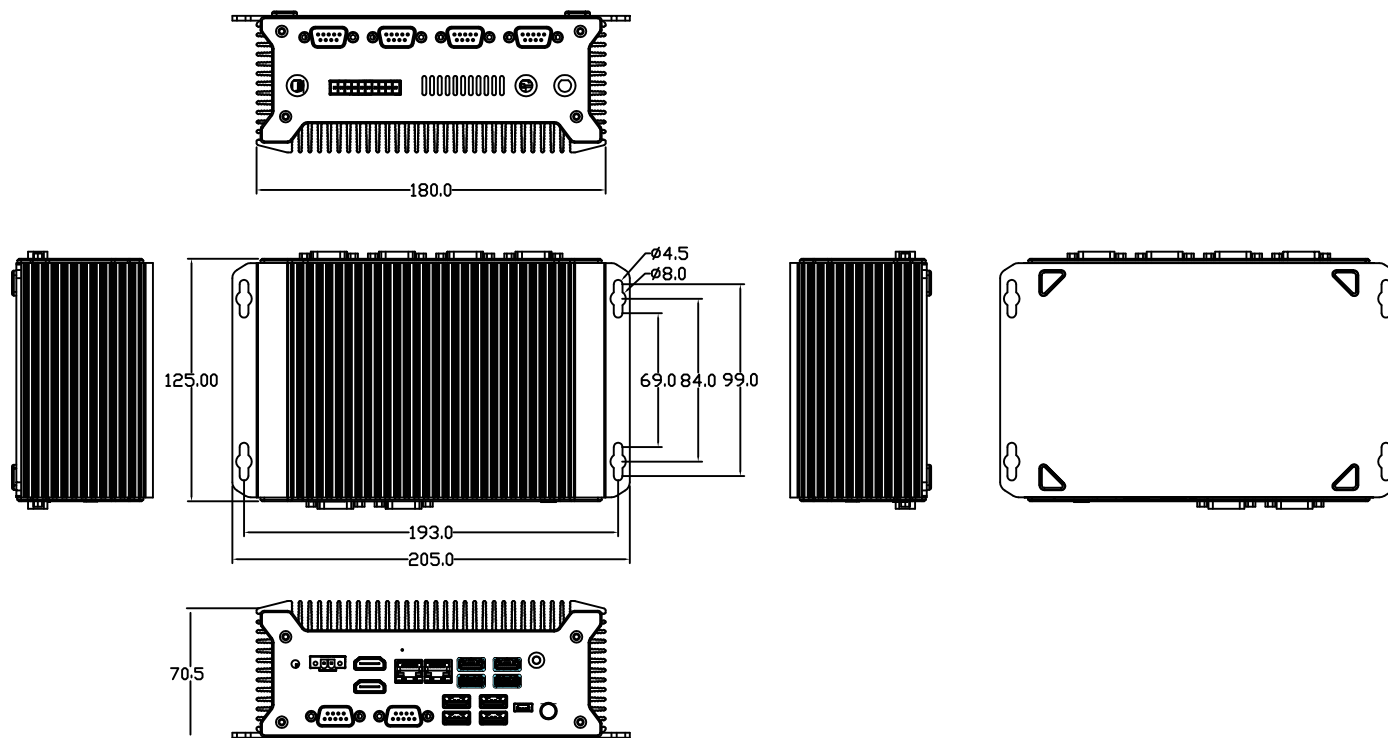


Technical Specifications

Processor	Intel® Core™ CPU	i7-1255U	i5-1235U	i3-1215U
	Total Cores/Threads	10C/12T	10C/12T	6C/8T
	P-core Max Turbo Frequency	4.70GHz	4.40GHz	4.40GHz
	E-core Max Turbo Frequency	3.50GHz	3.30GHz	3.30GHz
	Intel® Smart Cache	12MB	12MB	10MB
Memory	BIOS	AMI UEFI BIOS		
	Type	Dual Channel SO-DIMM DDR4		
Display	Max Capacity	64GB		
	GPU	Integrated Intel® UHD Graphics/Iris® Xe Graphics eligible		
Ethernet	Display via	2xHDMI2.0		
	Speed	10/100/1000Mbps		
Audio	Controller	1x Intel® i210+1x Intel® i219		
	Interface	2x RJ45		
	Wake on LAN	Yes		
Hardware	Audio Codec	Realtek HD		
	Interface	1xCTIA 2-in-1 Audio Jack		
Storage	System temperature, Onboard voltage, Watchdog, Auto power on			
	M.2	1x M.2_2242 for SATA SSD/4G Module		
	M.2	1x M.2_2280 for NVMe SSD		
Expansion	SATA	1x SATA3.0 FPC Interface		
	M.2	1x M.2 for Wi-Fi, support PCIE & Intel® Integrated Connectivity (CNVi)		
I/O Interface	COM	6xCOM: default 6*RS232. The COM1_2 can be set as RS485/RS422 in BIOS		
	The COM5, COM6 are 2-wire serial communication			
	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. 2-Pin DC-IN Phoenix Connector		
	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			

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

Dimensions



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