

IXH-AL35

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



Features

- CPU: Intel® Alder Lake U/Raptor Lake U Series Processor
- Memory: Dual Channel SO-DIMM DDR4 up to 64 GB
- Display: Integrated Intel® Graphics, display via 2xHDMI2.0
- Ethernet: 10/100/1000Mbps
- Storage & Expansion: SATA FPC, M.2 Key B Slot for SATA SSD/4G, M.2 Key M for NVMe SSD, M.2 Key E for Wi-Fi&BT
- Power: 12V-35V (2-Pin DC-IN Phoenix Connector)



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



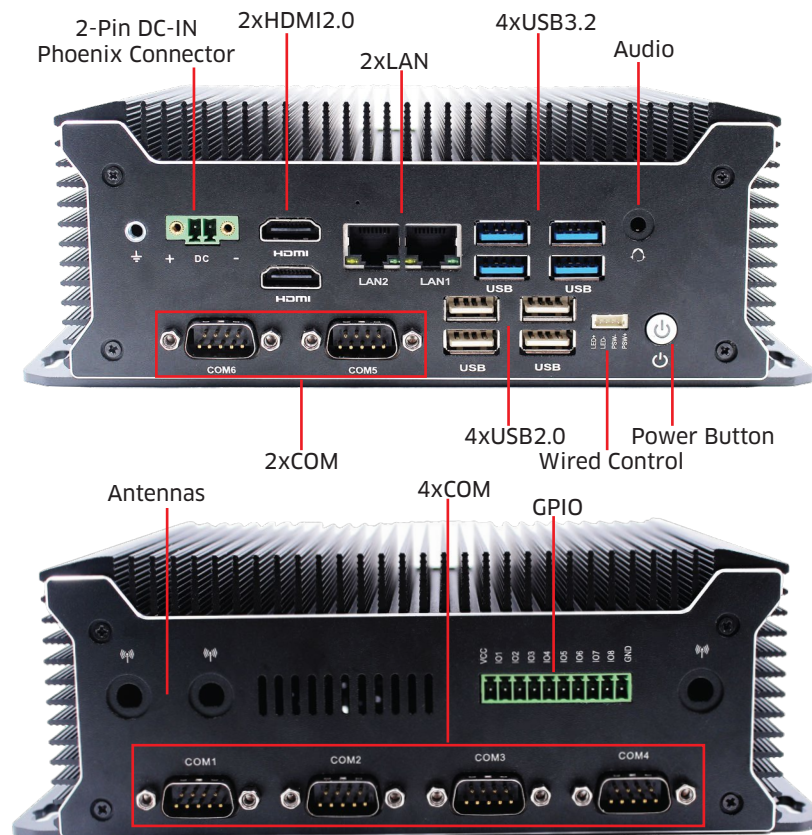
GPIO



Brightness



I/O Interfaces

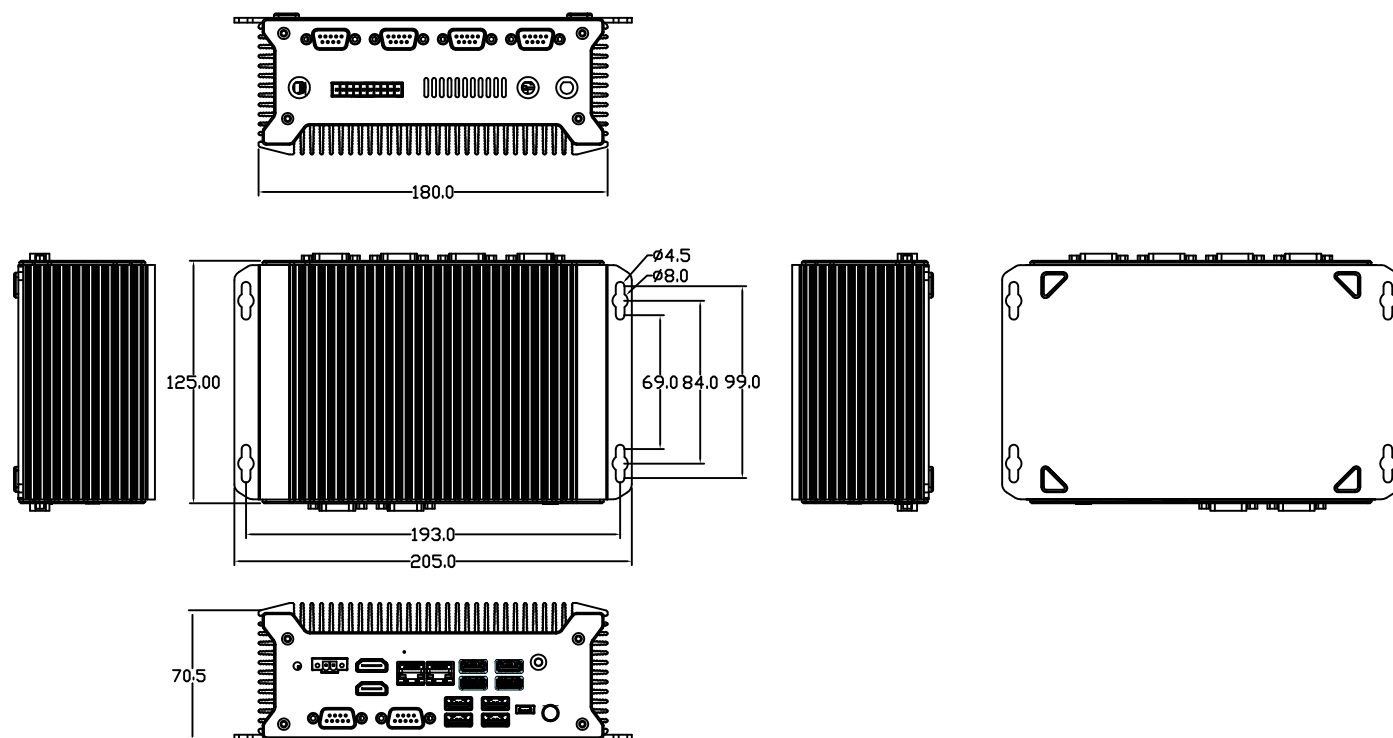


Technical Specifications

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
	BIOS	AMI UEFI BIOS		
Memory	Type	Dual Channel SO-DIMM DDR4		
	Max Capacity	64GB		
Display	GPU	Integrated Intel® UHD Graphics/Iris® Xe Graphics eligible		
	Display via	2 x HDMI2.0		
Ethernet	Controller	1 x Intel® i210+1 x Intel® i219		
	Speed	10/100/1000Mbps		
	Interface	2 x RJ45		
	Wake on LAN	Yes		
Audio	Audio Codec	Realtek ALC897 High-definition Audio Codec		
	Interface	1 x CTIA 2-in-1 Audio Jack		
Hardware		System temperature, Onboard voltage, Watchdog, Auto power on		
Storage	M.2	1 x M.2 Key B Slot for 2242 SATA SSD/3042 4G Module		
	M.2	1 x M.2 Key M Slot for 2280 NVMe SSD		
	SATA	1 x SATA3.0 FPC Interface		
Expansion	M.2	1 x M.2 Key E Slot for 2230 Wi-Fi, support PCIE & CNVi		
I/O Interface	COM	6 x RS232. COM1-2 configurable as RS422/RS485 via BIOS		
		COM5-6: RS232 (TX/RX/GND only, no flow control)		
	USB2.0	4 x USB2.0		
	USB3.0	4 x USB3.2		
	GPIO	8-bit		
	Wired Control	1		
Dimension	Size	205mm x 125mm x 70.5mm		
Power	Standard Input	12V-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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