

# DSAL-35

Intel® Alder Lake-U series Processor based Fanless Industrial PC with 6COM



## Features

- CPU: Intel® Alder Lake-U Series Processor
- Memory: Dual Channel SO-DIMM DDR5 up to 64GB
- Display via: Intel® Integrated Graphics via 2xHDMI2.0
- I/O Ports: 4xUSB3.2, 4xUSB2.0, 2xLAN, 6xCOM
- Ethernet: Intel i219(1.0GbE)+Intel i226(2.5GbE)
- Storage: SATA3.0, M.2 for SATA/4G, M.2 for NVMe
- Dimension: 255mm x 165mm x 60mm
- Power: 12V-35V DC-in



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## Introduction

The Maxtang DSAL-35 is a reliable and powerful industrial computer designed for use in complex industrial environments. Equipped with the latest Intel® Alder Lake U series processors. The pc supports up to 64GB of dual-channel SO-DIMM DDR5 memory and features up to two HDMI2.0 ports, allowing for multiple displays. Its versatile I/O array and flexible expansion capacity make it well-suited for a wide range of industrial automation applications, including vision inspection, motion control, and surveillance.

One of the key advantages of the DSAL-35 is its fanless construction. This design not only overcomes contaminant and noise challenges presented by harsh IA environments but also eliminates problematic structural elements that negatively affect MTBF. As a result, the platform has a longer lifecycle expectancy than other industrial PCs, with a robust design that is similar to other Maxtang industrial product lines at a cost-effective price point. Overall, the Maxtang DSAL-35 is an ideal computing platform for industrial automation applications that demand both reliability and high performance.



H/W Monitor



Watchdog

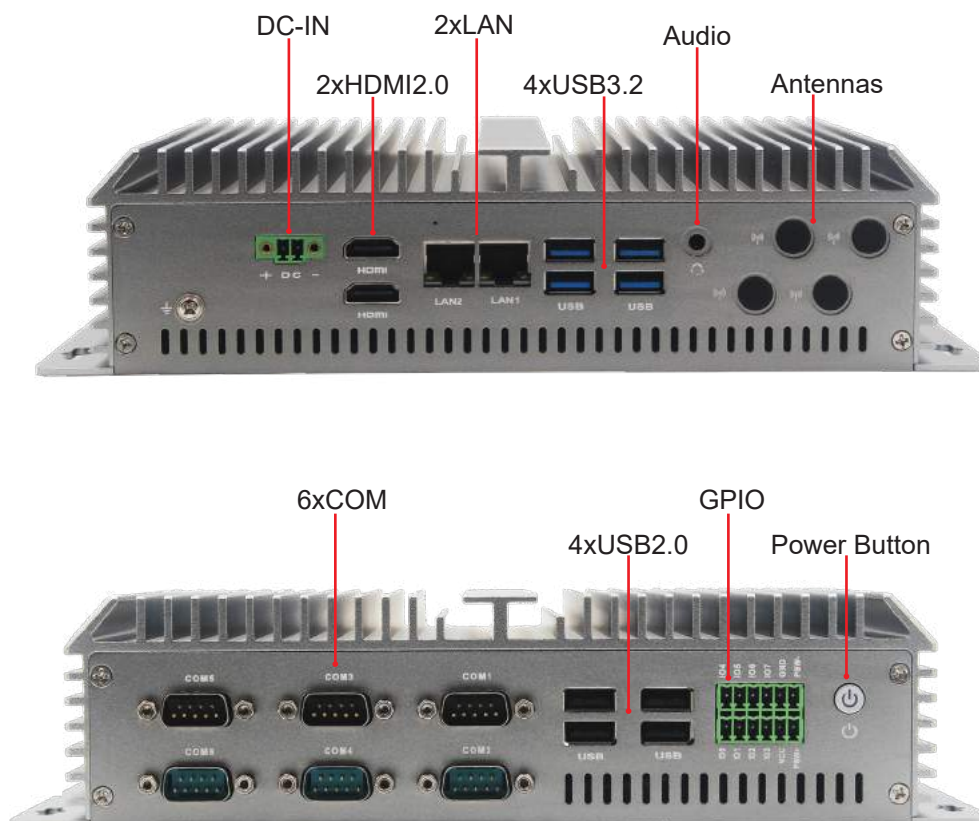


GPIO



Brightness

## I/O Interfaces

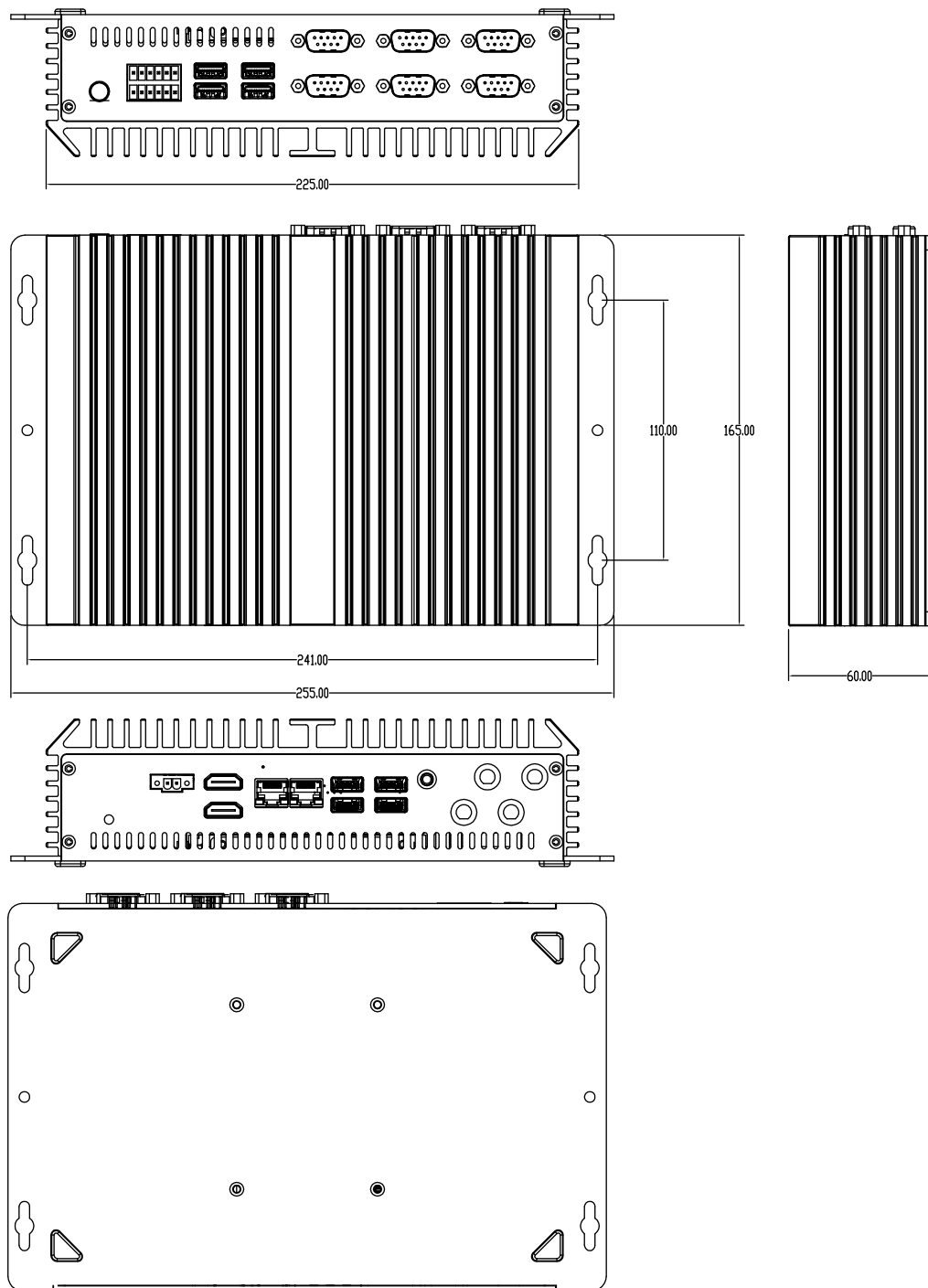


## Technical Specifications

Processor	Alder Lake U Series	i5-1235U
	Total Cores/Threads	10C/12T
	# of Performance-cores	2
	# of Efficient-cores	8
	P-core Max Turbo Frequency	4.40 GHz
	E-core Max Turbo Frequency	3.30 GHz
	Cache	12 MB
	Processor base Power	15 W
	BIOS	AMI UEFI BIOS
Memory	Type	Dual Channel SO-DIMM DDR5
	Max.Capacity	64GB
Display	GPU	Integrated Intel Iris® Xe Graphics eligible
	Interface	2x HDMI2.0
Ethernet	Controller	1x Intel i226 Data Rate Per Port: 2.5GbE
		1x Intel i219 Data Rate Per Port: 1.0GbE
	Interface	2xRJ45
Audio	Wake on LAN	Yes
	Audio Codec	Realtek HD
Hardware	Interface	1xCTIA, Line_out+Mic_in, supports audio header and amplifier header
		CPU system temperature, onboard voltage, watchdog, and auto power on
Storage	M.2	1×M.2 for NVMe 2280 SSD
		1×M.2 for SATA/4G
	SATA3.0	1x SATA 2.5-inch HDD
Expansion	M.2	1x M.2 for WiFi, support PCIE & Intel® Integrated Connectivity (CNVi)
	SIM	Optional
I/O Interface	LAN	2
	COM	6xCOM: 6*RS232(COM3_4 can be set as RS485/RS422 in BIOS)
		The COM5,COM6 are 2-wire serial communication
	USB3.2	4
	USB2.0	4
	GPIO	8(8-bit GPIO with Power+Wired Control)
	Audio	1×CTIA Audio Jack, 2-in-1(Line_out+Mic_in)
	Dimension	Size 255mm x 165mm x 60mm
Power	Cooling	Passive
	Standard Port	12V-35V DC-in
	Peripheral Input	For Fan and SATA
	Operating Temp.	-20°C ~60°C
	Storage Temp.	-40°C ~80°C
Operating System	Win10/11 64 bit, Linux 64 bit	

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

## Dimension



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