

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 DDR4 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 i210(1.0GbE)
- Storage: SATA3.0, M.2 for SATA/4G, M.2 for NVMe
- Dimension: 255mm x 165mm x 60mm
- Power: 9V-35V DC-in



IoT Solutions
Alliance

Industrial Solution
Builders Specialist

Maxtang®

MAXIMIZING YOUR COMPUTING PRODUCTIVITY

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 DDR4 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



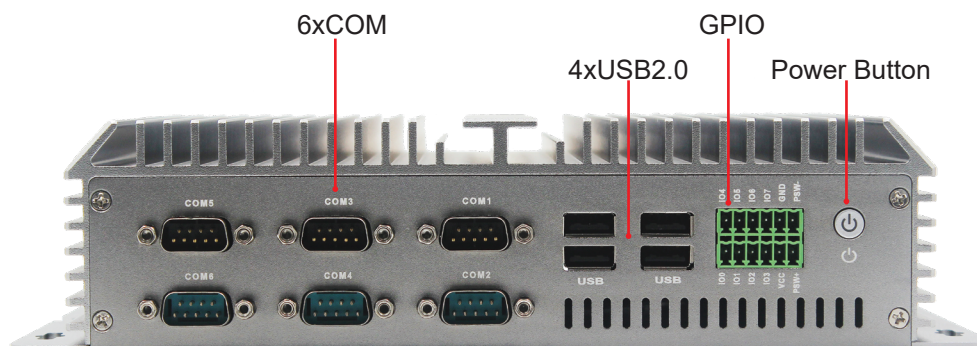
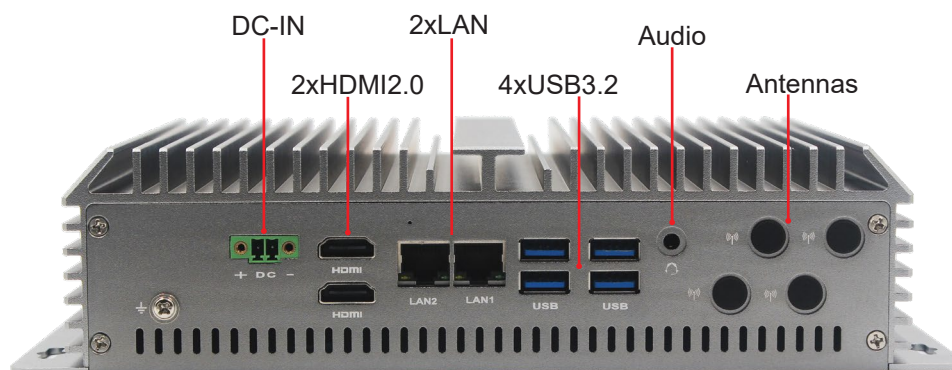
GPIO



Brightness



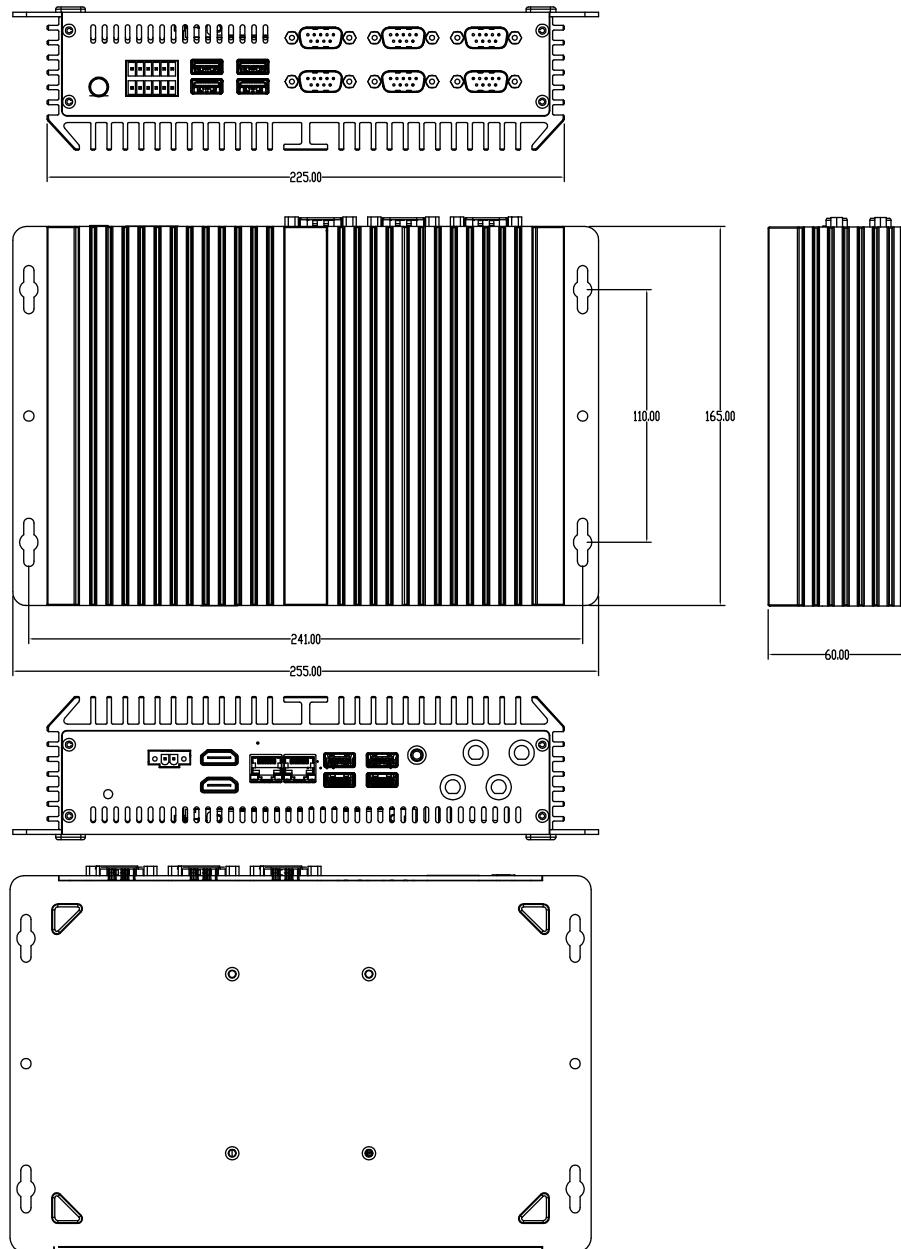
I/O Interfaces



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 DDR4
	Max.Capacity	64GB
Display	GPU	Integrated Intel Iris® Xe Graphics eligible
	Interface	2x HDMI2.0
Ethernet	Controller	1x Intel i210 Data Rate Per Port: 1.0GbE
		1x Intel i219 Data Rate Per Port: 1.0GbE
	Interface	2xRJ45
	Wake on LAN	Yes
Audio	Audio Codec	Realtek HD
	Interface	1xCTIA, Line_out+Mic_in, supports audio header and amplifier header
Hardware	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 SATA3.0 for 2.5-inch HDD
Expansion	M.2	1x M.2 for WiFi, support PCIE & Intel® Integrated Connectivity (CNVi)
	SIM	Optional
I/O Interface	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 plus Wired Control)
	Audio	1×CTIA Audio Jack, 2-in-1(Line_out+Mic_in)
Dimension	Size	255mm x 165mm x 60mm
	Cooling	Passive
Power	Standard Port	9V-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	

Dimension



Copyright © 2023 Maxtang Technology Co. Ltd. All rights reserved. All data is for information purposes only and not guaranteed for legal purposes. Information has been carefully checked and is believed to be accurate however, no responsibility is assumed for inaccuracies. Maxtang and the Maxtang logo and all other trademarks or registered trademarks are the property of their respective owners and are recognized. The terms HDMI, HDMI High-Definition Multimedia Interface, HDMI Trade dress, and HDMI Logos are trademarks or registered trademarks of HDMI Licensing Administrator, Inc.