DXAL-10

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 4xHDMI2.0
- I/O Ports: 4xUSB3.2, 4xUSB2.0. 2xLAN, 6xCOM
- Ethernet: 10/100/1000/2500Mbps
- Storage: SATA3.0, M.2 for NVMe SSD
- Dimension: 255mm x 220mm x 60mm
- Power: 19V DC-in

(intel®) **IoT Solutions Alliance**
Industrial Solution Builders Specialist

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Introduction

The Maxtang DXAL10 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 4 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 DXAL10 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 DXAL10 is an ideal computing platform for industrial automation applications that demand both reliability and high performance.
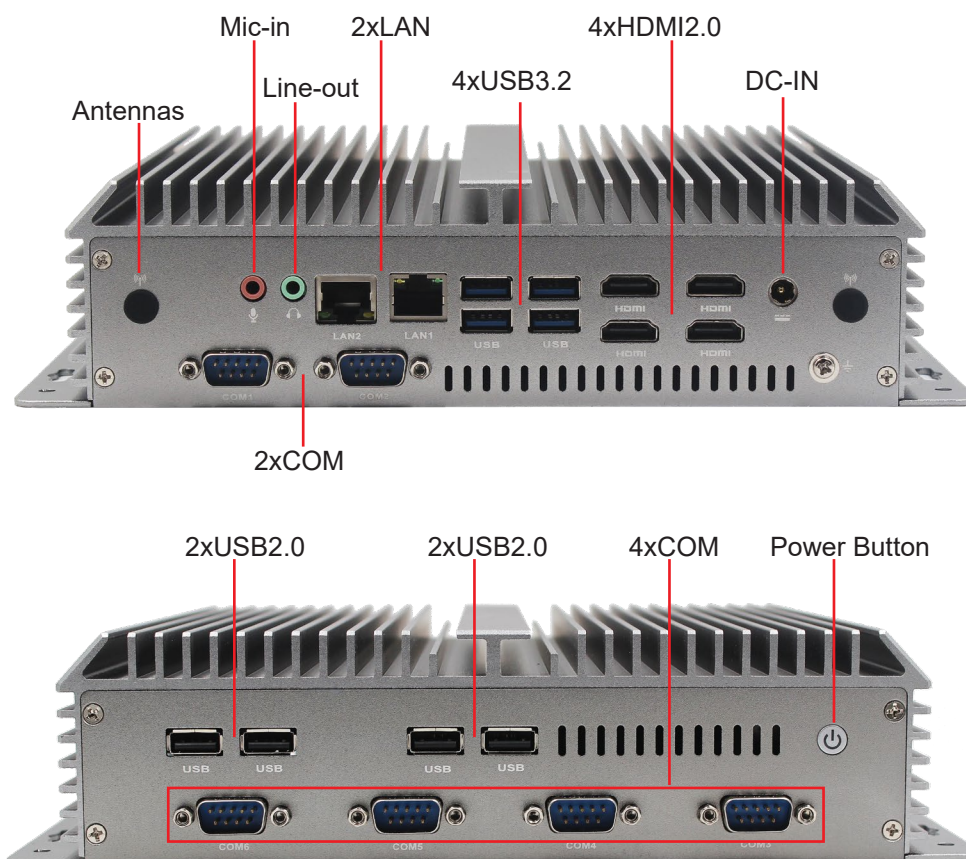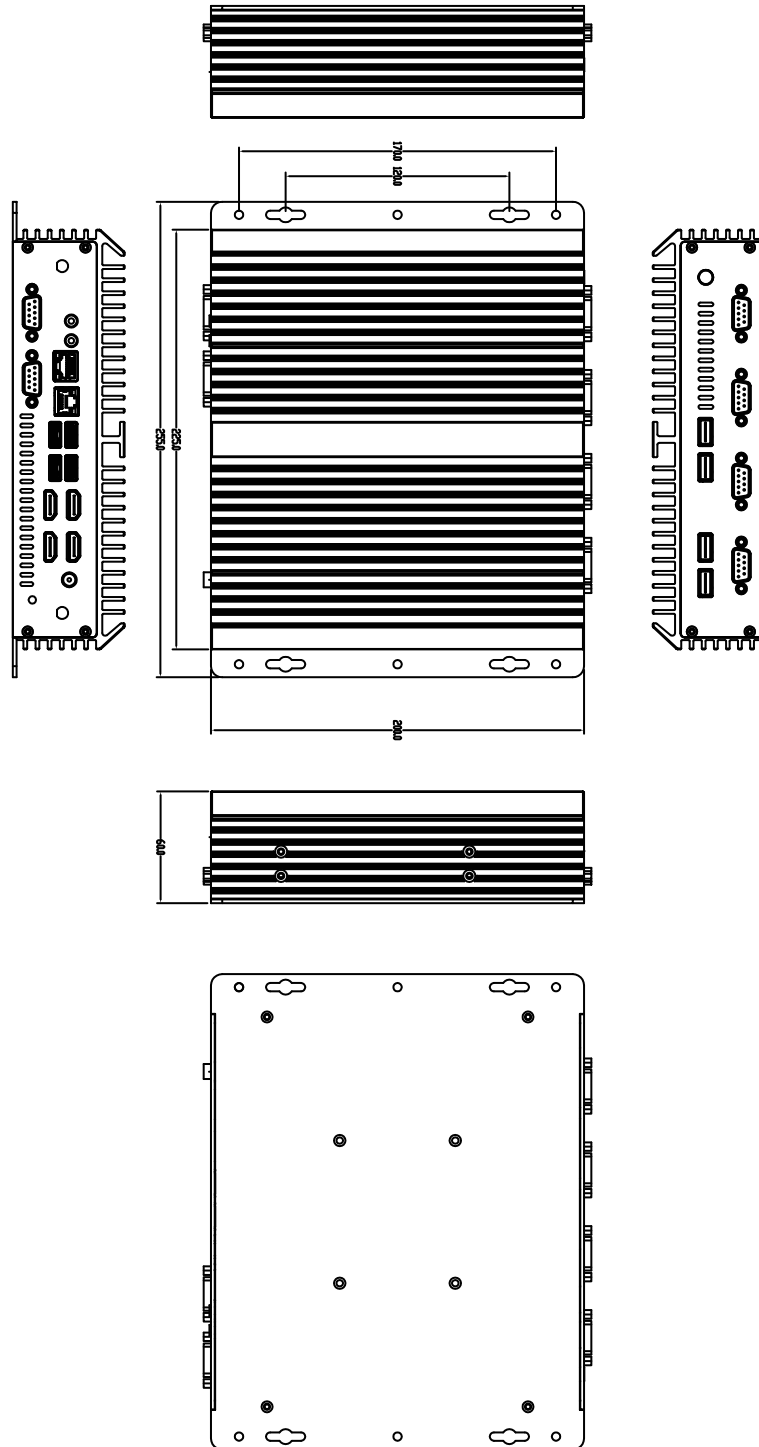
H/W Monitor   Watchdog

I/O Interfaces

Mic-in   2xLAN   4xHDMI2.0

Line-out   4xUSB3.2   DC-IN

Antennas

LAN2   LAN1   USB   USB   HDMI   HDMI

HDMI   HDMI

COM1   COM2

2xCOM

2xUSB2.0   2xUSB2.0   4xCOM   Power Button

USB   USB   USB   USB

COM6   COM5   COM4   COM3

Technical Specifications

Processor	**Alder Lake U Series**		i5-1235U	i3-1215U
	Total Cores/Threads		10C/12T	6C/8T
	# of Performance-cores		2	2
	# of Efficient-cores		8	4
	P-core Max Turbo Frequency		4.40 GHz	4.40 GHz
	E-core Max Turbo Frequency		3.30 GHz	3.30 GHz
	Cache		12 MB	10 MB
	Processor base Power		15 W	15 W
	BIOS	AMI UEFI BIOS		
Memory	Type	Dual Channel SO-DIMM DDR4		
	Max.Capacity	64GB		
Display	GPU	Intel Iris® Xe Graphics eligible/UHD Graphics depends on CPU		
	Interface	4x HDMI2.0		
Ethernet	Controller	1x Intel i225/226 Data Rate Per Port: 2.5GbE		
		1x Intel i219 Data Rate Per Port: 1.0GbE		
	Interface	2x RJ45		
	Wake on LAN	Yes		
Audio	Audio Codec	Realtek HD		
	Interface	1x Line-out, 1x Mic-in		
Hardware		CPU system temperature, onboard voltage, watchdog, and auto power on		
Storage	M.2	1x M.2 for 2280 NVMe SSD		
	SATA	1x SATA3.0		
Expansion	M.2	1x M.2 for WiFi, support Intel® Integrated Connectivity (CNVi)		
Other I/O	COM	6x COM: 6*RS232(default) or 5*RS232+1*RS485(COM1)		
	USB3.2	4		
	USB2.0	4		
Dimension	Size	255mm x 200mm x 60mm		
	Cooling	Passive		
Power	Standard Port	19V DC-in		
	Operating Temp.	-20℃ ~60℃		
	Storage Temp.	-40℃ ~80℃		
Operating System		Win10/11 64 bit, Linux 64 bit		

Dimension

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