DXAL-10V2.0

Intel® Alder Lake/Raptor Lake-U Series
based Fanless Industrial PC with 4HDMI, 6COM

Features

- CPU: Intel® Alder Lake/Raptor Lake-U Series Processor
- Memory: Dual Channel SO-DIMM DDR4 up to 64GB
- Display: Intel® Integrated Graphics via 4xHDMI2.0
- I/O Ports: 4xUSB3.2, 4xUSB2.0. 2xLAN, 6xCOM
- Ethernet: Intel i226+Intel i219
- Storage: M.2 Key M for NVMe SSD, M.2 Slot for SATA SSD/4G, SATA3.0
- Expansion: M.2 Key E for WiFi & BT, PCIe x4 Slot
- Power: 19V/12V DC-in

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Introduction

The DXAL-10 V2.0 is a compact fanless industrial PC built on Intel® Alder Lake / Raptor Lake-U series processors, delivering a balanced combination of performance, power efficiency, and long-term reliability. Available with Core™ i7-1255U, i5-1235U, or i3-1215U CPUs, the system leverages Intel's hybrid architecture with Performance-cores and Efficient-cores to handle multitasking, data processing, and continuous workloads efficiently within a 15W power envelope. Passive cooling, wide operating temperature support from -20°C to 60°C, and industrial-grade components make it suitable for 24/7 deployment in demanding environments.

Designed for multi-display and I/O-intensive applications, the DXAL-10 V2.0 supports four independent HDMI 2.0 outputs, dual LAN (2.5GbE + 1GbE), and up to six COM ports, enabling seamless integration with both legacy and modern peripherals. Flexible expansion options include PCIe Gen4 x4, multiple M.2 slots for NVMe SSD, SATA SSD, Wi-Fi, and 4G modules, along with a Nano SIM slot. With support for Windows 10/11 and Linux (64-bit), the DXAL-10 V2.0 is an ideal platform for industrial control, automation systems, monitoring stations, and multi-screen visualization applications where stability and connectivity matter most.
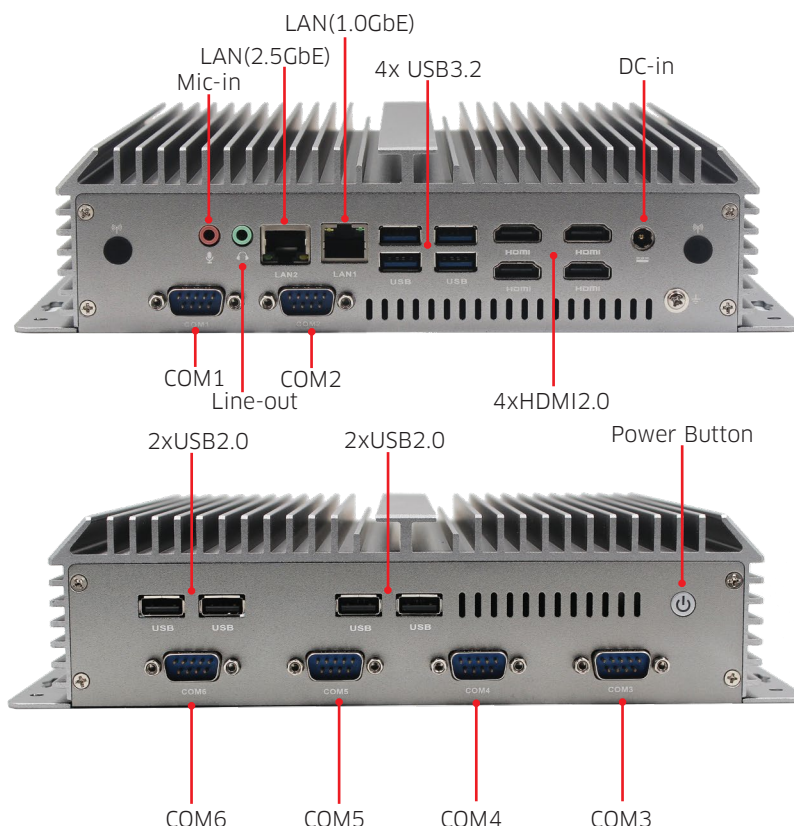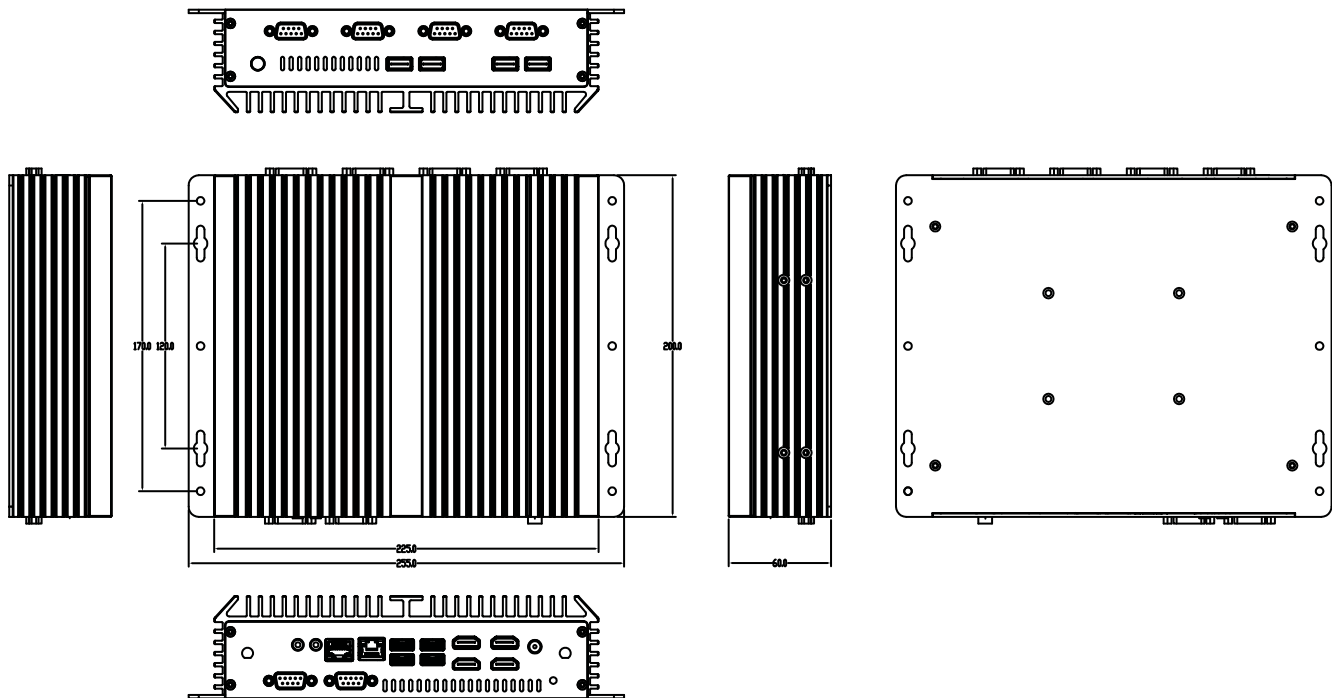
H/W Monitor   Watchdog

I/O Interfaces

Technical Specifications

Processor	**Alder Lake U Series**	i7-1255U	i5-1235U	i3-1215U
	Total Cores/Threads	10C/12T	10C/12T	6C/8T
	# of Performance-cores	2	2	2
	# of Efficient-cores	8	8	4
	P-core Max Turbo Frequency	4.70 GHz	4.40 GHz	4.40 GHz
	E-core Max Turbo Frequency	3.50 GHz	3.30 GHz	3.30 GHz
	Cache	12 MB	12 MB	10 MB
	Processor base Power	15 W	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 i226 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 ALC897		
	Interface	1x Line-out, 1x Mic-in		
Hardware Monitoring		CPU system temperature, onboard voltage, watchdog, and auto power on		
Storage/Expansion	SATA	1x SATA3.0		
	M.2_N	1x M.2 Key M for 2280 NVMe SSD		
	M.2_S	1x M.2 Key B for 2242 SATA SSD or 3042 4G Module		
	M.2_E	1x M.2 Key E for 2230 WiFi, support Intel® Integrated Connectivity (CNVi)		
	PCIEx4	1*PCIe x4 Gen 4 Slot		
	SIM	1x Nano SIM Slot		
Other I/O	COM	6x COM: 6*RS232 by default, or 5*RS232+1*RS485(COM1) optional		
	USB3.2	4x USB3.2		
	USB2.0	4x USB2.0		
Dimension	Size	255mm x 200mm x 60mm		
	Cooling	Passive		
Power	Standard Port	19V/12V DC-in		
	Operating Temp.	-20℃ ~60℃		
	Storage Temp.	-40℃ ~80℃		
Operating System		Win10/11 64 bit, Linux 64 bit		

All specifications and photos are subject to change without notice.

Dimension

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