

DXALN-10

Intel® Alder Lake-N Series Processor based Fanless Industrial PC with 6COM



Features

- CPU: Intel® Alder Lake-N Series N100 Processor
- Memory: Single Channel SO-DIMM DDR4 up to 32GB
- Display via: Integrated Graphics via DP, HDMI
- I/O Ports: 2xUSB3.2, 6xUSB2.0, 2xLAN, 6xCOM
- Ethernet: 10/100/1000/2500Mbps
- Storage: SATA, M.2 for SSD
- Dimension: 255mm x 220mm x 60mm
- Power: 12V/19V DC-in



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Introduction

Maxtang's DXALN-10 fanless embedded industrial PC incorporating the Intel® Alder Lake-N Series N100 processor supports dual displays via HDMI2.0 plus DP, optimizing easy maintenance in complex industrial environments. The DXALN-10 supports single-channel SO-DIMM DDR4 memory of up to 32GB for more powerful computing performance. Along with a versatile I/O array and flexible expansion capacity, it fully satisfies all the needs of industrial automation with the performance demanded by vision inspection, motion control, and surveillance applications.

The Fanless construction not only overcomes contaminant and noise challenges presented by harsh IA environments, the elimination of problematic structural elements that negatively affect MTBF greatly increases lifecycle expectations for the platform. The DX series retains the robust design of all other Maxtang industrial product lines at a new extremely cost-effective price point for high performance.

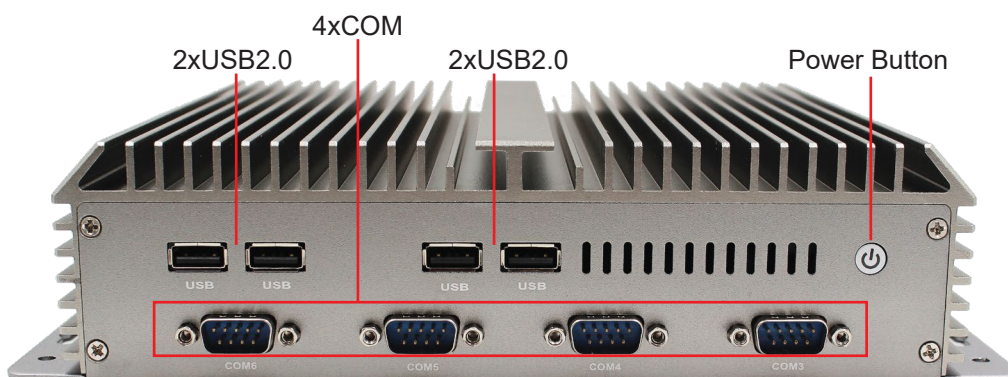
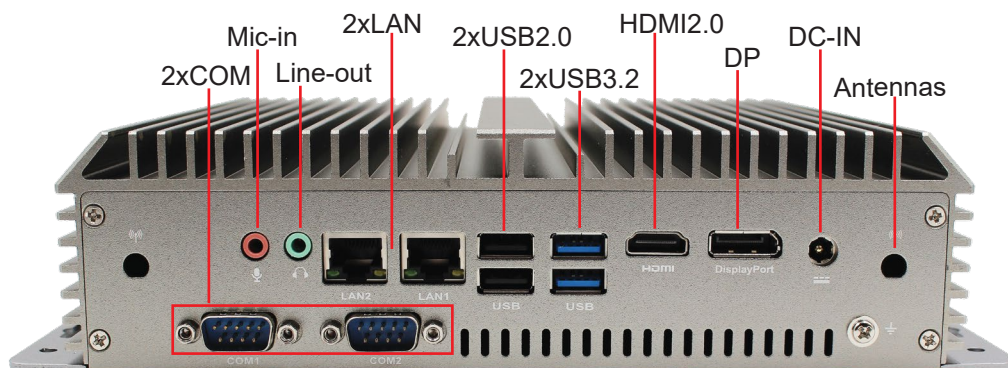


H/W Monitor



Watchdog

I/O Interfaces

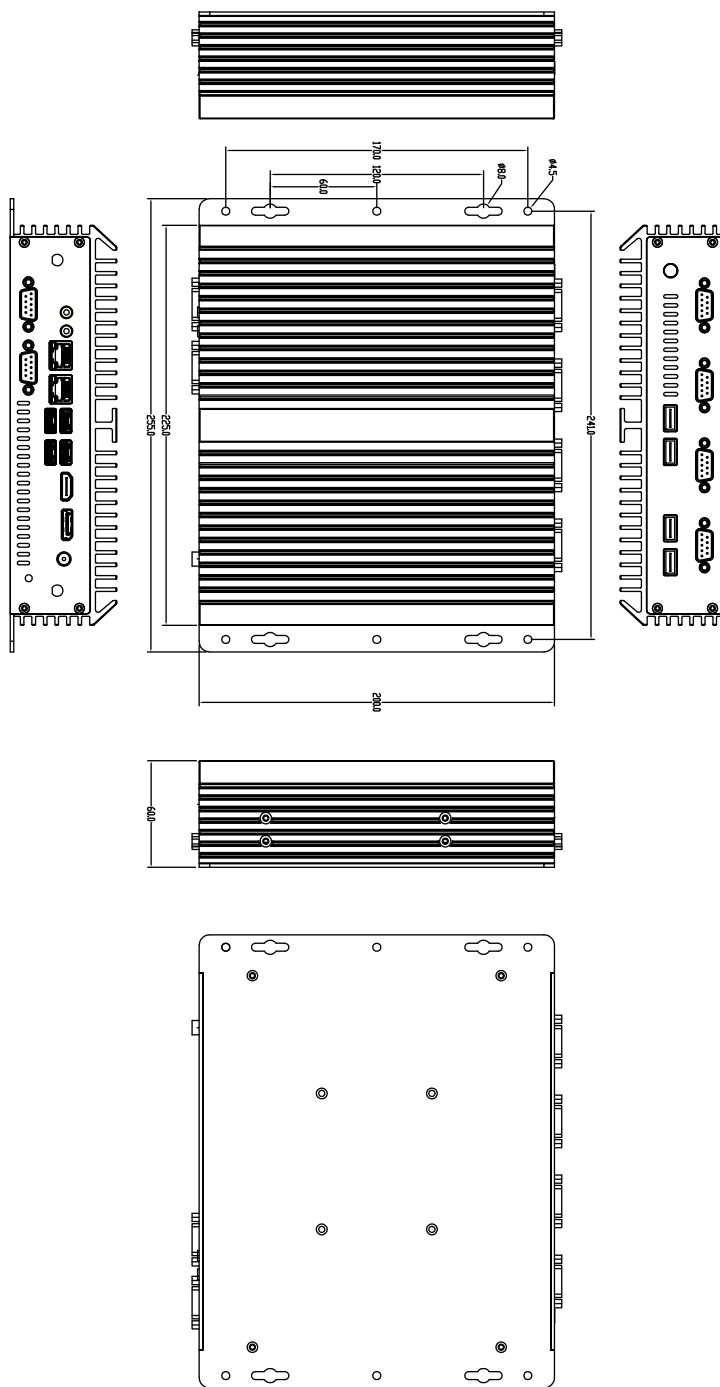


Technical Specifications

Processor	CPU	N100(4 Cores/ 4 Threads)
	Max Turbo Frequency	3.40GHz
	Cache	6 MB Intel® Smart Cache
	TDP	6W
	BIOS	AMI UEFI BIOS
Memory	Type	Single Channel SO-DIMM DDR4
	Max. Capacity	32GB
Display	GPU	Intel® UHD Graphics
	Display via	1xHDMI + 1xDP
Ethernet	Speed	10/100/1000/2500Mbps
	Controller	Intel i226
	Interface	2x RJ45
Audio	Audio Codec	Realtek HD
	Interface	Line-out, Mic-in
Storage	SATA	1
	M.2	1x M.2 for SATA SSD, optional 4G module
Expansion	M.2	1x M.2 for WiFi, support Intel® Integrated Connectivity (CNVi)
	SIM	Optional
I/O Interface	LAN	2
	COM	6x RS232 (Optional RS485 for COM_2)
	USB3.2	2
	USB2.0	6
	Audio	1×Line-out, 1×Mic-in
	TPM2.0	Onboard, optional
	Dimension	Size
Power	Standard Port	12V/19V DC-in
Temperature	Operating Temp.	-20°C to 60°C
	Storage Temp.	-40°C to 80°C
Cooling Method		Passive
Operating System		Win10/11 64bit, Linux 64bit

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

Block Diagram (mm)



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