DX6412

Intel® Elkhart Lake Celeron® J6412 Processor based Fanless Industrial PC with 6COM

Features

- CPU: Intel® Elkhart Lake Celeron® J6412 Processor
- Memory: Single Channel SO-DIMM DDR4 up to 32GB
- Display via: Intel® UHD Graphics via DP, HDMI
- I/O Ports: 4xUSB3.2, 4xUSB2.0. 2xLAN, 6xCOM
- Ethernet: 10/100/1000Mbps
- Storage: SATA3.0, M.2 for SSD
- Dimension: 255mm x 220mm x 60mm
- Power: 12V DC-in

intel® IoT Solutions Alliance
Industrial Solution Builders Specialist

Maxtang®
MAXIMIZING YOUR COMPUTING PRODUCTIVITY

Introduction

Maxtang's DX6412 fanless embedded industrial PC incorporating the Intel® Celeron J6412 processor supports dual displays via HDMI2.0 plus DP, optimizing easy maintenance in complex industrial environments. The DX6412 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.
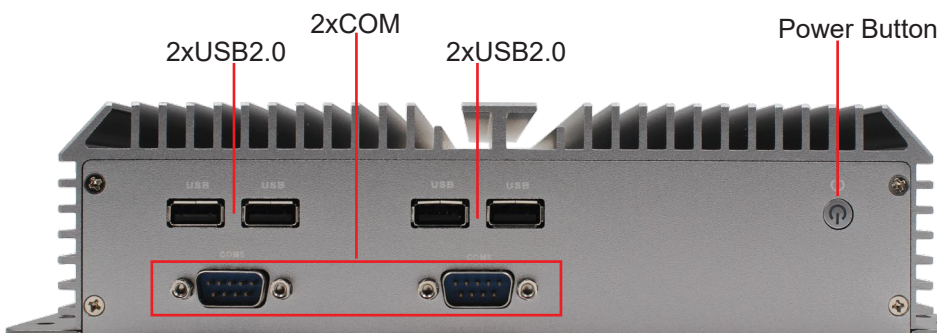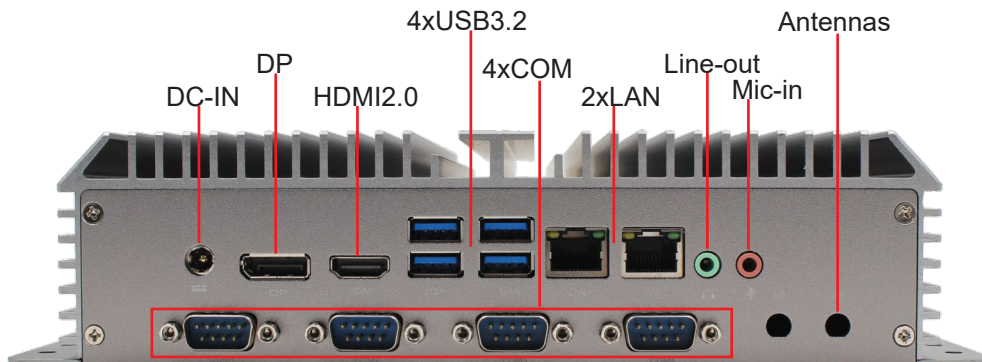
H/W Monitor   Watchdog
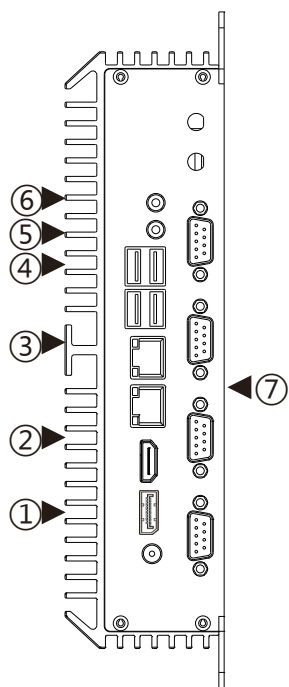
GPIO   Brightness

I/O Interfaces

4xUSB3.2

DP   4xCOM   Antennas

DC-IN   HDMI2.0   2xLAN   Line-out
                                              Mic-in

2xCOM   Power Button

2xUSB2.0   2xUSB2.0

Technical Specifications

Processor	CPU	J6412 (4 Cores/ 4 Threads)
	Base Frequency	2.00GHz
	Burst Frequency	2.60GHz
	Cache	1.5 MB L2 Cache
	TDP	10W
	BIOS	AMI UEFI BIOS
Memory	Type	Single Channel SO-DIMM DDR4
	Max. Capacity	32GB
Display	GPU	Intel® UHD Graphics for 10th Gen Intel® Processors
	Display via	1xHDMI + 1xDP
Ethernet	Speed	10/100/1000Mbps
	Controller	Realtek RTL8111H
	Interface	2x RJ45
Audio	Audio Codec	Realtek HD
	Interface	Line-out, Mic-in
Storage	SATA3.0	1
	M.2	1x M.2 for 2280/2242 SATA SSD, optional 4G module
Expansion	M.2	1x M.2 for WiFi
	SIM	Optional
I/O Interface	LAN	2x RJ45
	COM	6x RS232 (Optional RS485 for COM_6)
	USB3.2	4
	USB2.0	4
	Line-out	1
	Mic-in	1
Dimension	Size	255mm x 200mm x 60mm
Power	Standard Port	12V DC-in
Temperature	Operating Temp.	-20℃ to 60℃
	Storage Temp.	-40℃ to 80℃
Cooling Method		Passive
Operating System		Win10/11 64bit, Linux 64bit

* All specifications and photos are subject to change without notice.
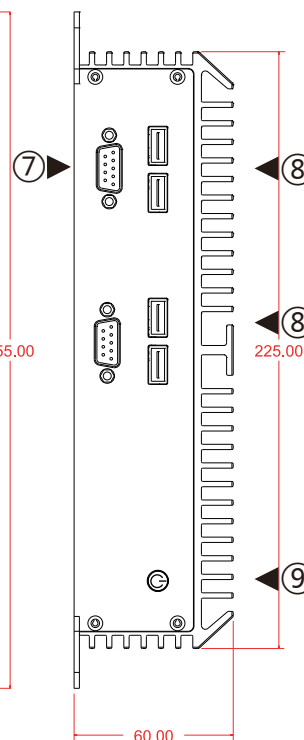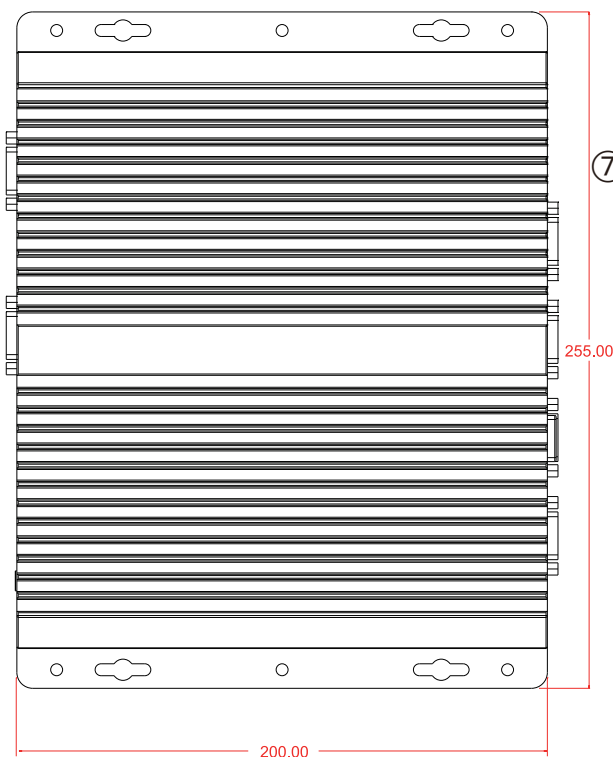
Block Diagram（mm）

① DP

② HDMI

Line-out ⑤

Mic-in ⑥

255.00

225.00

200.00

60.00

③ LAN

④ USB3.2 x4

COM x6 ⑦

USB2.0 x4 ⑧

Power button ⑨