

IXEHL-35V1.0

Intel® Elkhart Lake based Embedded Fanless Industrial PC



Features

- CPU: Intel® Celeron® Processor J6412
- Memory: Single Channel SO-DIMM DDR4 up to 32 GB
- Display: Intel® UHD Graphics, display via HDMI®+DP
- Ethernet: 10/100/1000Mbps
- Storage: SATA3.0, mSATA
- Expansion: M.2 for WiFi
- Power: 12V DC input, Phoenix input optional



Introduction

The Maxtang IXEHL-35 is a compact, embedded industrial PC powered by the Intel® Elkhart Lake processor Celeron® J6412. It has 4Cores 4Threads, 1.5M Cache, up to 2.60GHz for burst frequency; supports 1xSO-DIMM DDR4 max to 32GB memory and a TDP rate of 10W for energy saving. A rich I/O interface includes HDMI®, DP, two RJ45 gigabit network controllers, six serial ports (default 4*RS232+2*RS485), and eight USB ports that suit most market requirements.

The IXEHL-35 includes a comprehensive I/O interface for easy integration and a ruggedized design for harsh environments. It has a long-lasting life cycle based on its stability and reliability. An aluminum enclosure made, which contains a fanless structure intended to protect internal components from dust and debris in a harsh industrial environment.



H/W Monitor



Watchdog



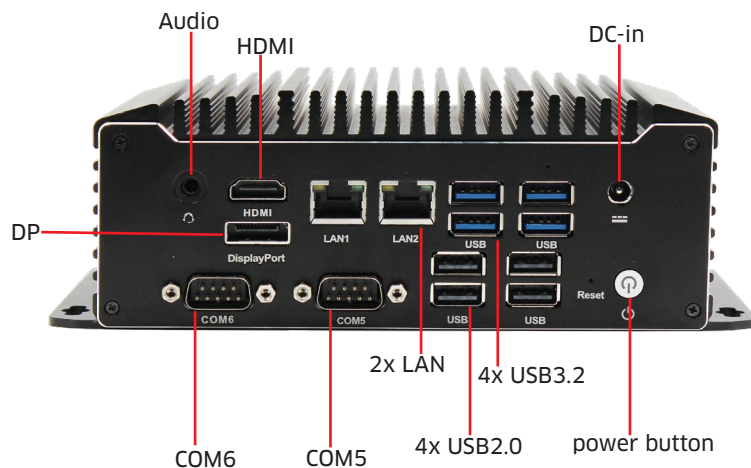
GPIO



Brightness



I/O Interfaces

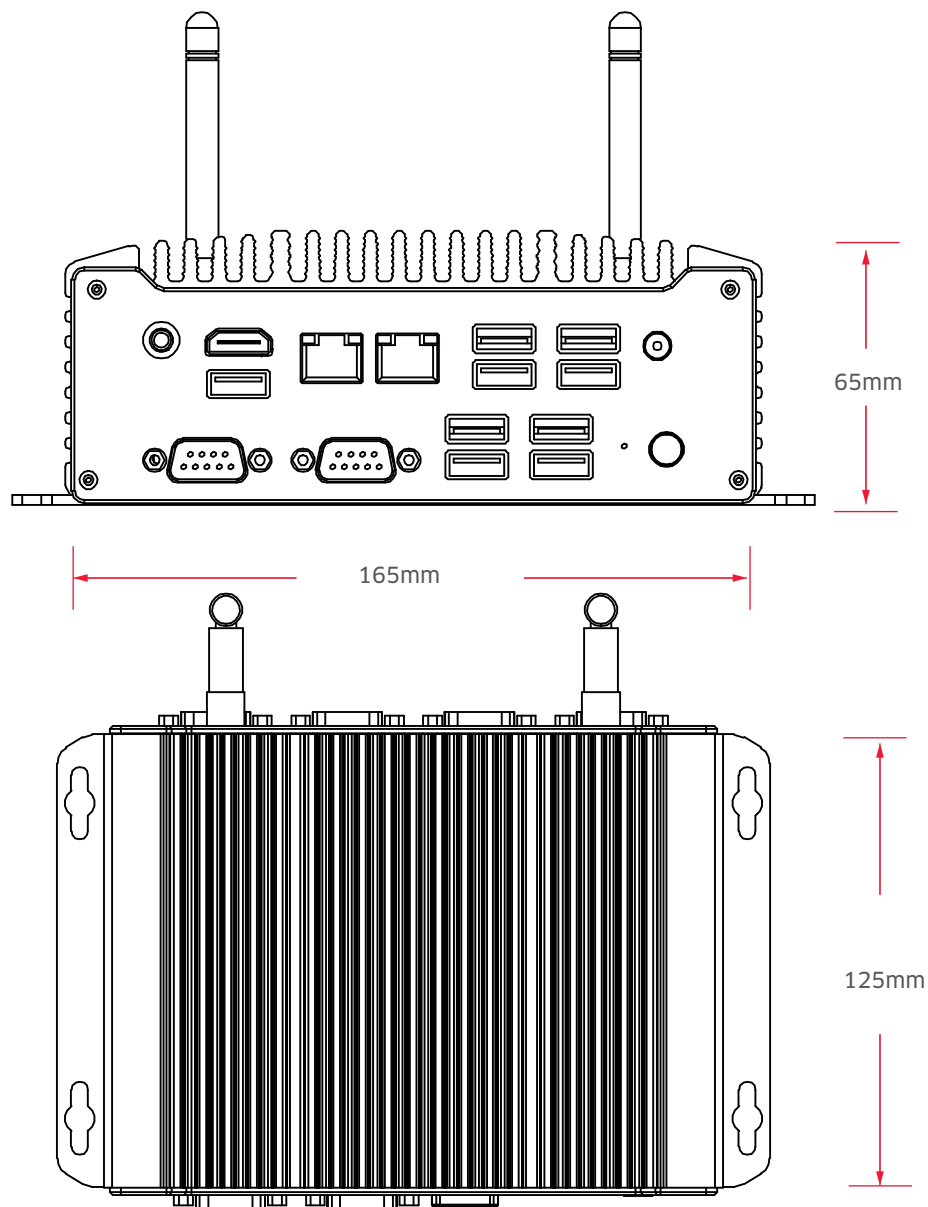


Technical Specifications

Processor	CPU	Celeron® J6412
	Base Frequency	2.0 GHz
	Max Turbo Frequency	2.6 GHz
	Cache	1.5MB L2
	TDP	10W
	BIOS	AMI UEFI BIOS
Memory	Type	Single Channel SO-DIMM DDR4
	Max Capacity	32GB
Display	GPU	Intel® UHD Graphics based on CPU
	Display via	HDMI®+DP
Ethernet	Speed	10/100/1000Mbps
	Controller	RTL8111H
	Interface	2x RJ45
	Wake on LAN	Yes
Audio	Audio Codec	Realtek HD
	Interface	1xCTIA, 2-in-1 Audio Jack
Hardware		System temperature, Onboard voltage, Watchdog, Auto power on
Storage	mSATA	1x mSATA for SSD/4G Module
	SATA	1x SATA for 2.5-inch HDD
Expansion	M.2	1x M.2 KEY_E for Wi-Fi
I/O Interface	COM	6xCOM: default 4*RS232+2*RS485(COM5,COM6), optional 6*RS232.
	USB2.0	4x USB2.0
	USB3.2	4x USB3.2
	GPIO	8-bit
	Wired Control	1
Dimension	Size	165mm x 125mm x 65mm
Power	Standard Input	12V DC IN
	Phoenix Input	16-30V Phoenix input optional
	Peripheral Input	For Fan and SATA
	LED Indicator	Power indicator
Temperature	Operating Temp.	-20°C to 60°C
	Storage Temp.	-40°C to 80°C
Cooling		Passive
Operating System		Win10/11 64bit, Linux 64 bit

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

Dimensions



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