1ST-IXEHL-35

Fanless Industrial Computer
with Intel® Elkhart Lake Processor, 2x LAN, 6x COM

- Onboard Intel® Celeron® J6412 CPU
- 1× SO-DIMM slot for DDR4 memory up to 32GB
- Multiple display: HDMI and DP
- Rich I/O ports: 4× USB3.2, 4× USB2.0, 2× LAN (10/100/1000Mbps), 6× COM
- Expansions : 1× SATA3.0, 1x mSATA for SSD/4G Module, 1× M.2 for WiFi
- Fanless design
- 16~30V DC Input

The 1ST-IXEHL-35 is a small form factor embedded system. Built with the Intel® Elkhart Lake platform, it supports Intel® Celeron® J6412. This system carries one DDR4 SO-DIMM slot with a total maximum of 32GB to add higher bandwidth and lower latencies for processes. This computer features 2x LAN, M.2, SATA3.0 and mSATA, which makes it a good choice for data transportation application.

This system also features multiple display via 1× Display Port1.2 and 1× HDMI1.4. It has 2× 10M/100M/1000Mbps BASE-T Gigabit LAN (Realtek® RTL8111H, 4× USB3.2, 4× USB 2.0, 4× RS232, 2x COM RS232/RS485, catering to most requirements in the market.
This Intel® Elkhart Lake based system is designed for various applications as, but not limited to, automation, network security, communication and transportation.

Items		Descriptions
Processor	CPU	Intel® Celeron® J6412
	Core frequency	2 GHz
	Burst frequency	2.60 GHz
	Cache	1.5MB L2
Memory	Type	1× Single channel DDR4 SO-DIMM
	Max Capacity	32GB
Display	GPU	Intel® UHD Graphics based on CPU
	HDMI1.4	1x
	DP1.2	1x
	Multiple display	HDMI+DP
Ethernet	Speed	10Mbps/100Mbps/1000Mbps
	Interface	2x RJ45
	Controller	Realtek® RTL8111H
	Wake on LAN	Yes
Audio	Audio codec	Realtek HD
	Interface	1x CTIA 2-in-1 Audio Jack
Storage	mSATA	1x for SSD/4G module
	SATA3.0	1x
System I/O	Front Panel I/O	2x COM RS232/RS485 2x LAN 4x USB3.2 4x USB2.0 1x HDMI 1x DP
	Rear Panel I/O	4x COM RS232 1x DC-IN
	Internal I/O	1x M.2 Key E for WiFi
Power	Standard port	1x 16~30V DC-IN/Phoenix Connector
	Peripheral Input	For fan and SATA power
	LED Indicator	POWER indicator

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Items	Descriptions
Operating Temperature	-20℃ ~ 60℃ non condensing
Storage Temperature	-40℃ ~ 80℃
Dimensions (LxWxH)	165mm x 125mm x 65mm
Operating System	Supports Win 10/11 64 bit, Linux 64 bit

Ordering Information

Part No.	Descriptions
1ST-IXEHL-35	Supports Intel® Celeron® J6412 (2,0 GHz, burst frequency 2.60 GHz, quad-core, TDP 10W)