1ST-IXKL-35

Fanless Industrial Computer
with Intel® Kaby Lake-U Processor, 2x LAN, 6x COM

- Onboard Intel® Kaby Lake Celeron® or Core™ 3865U, i3-6100U, i3-7100U, i5-6200U, i5-7200U, i5-7300U or i7-7500U CPU

- 2× DDR4 slots for memory up to 32GB

- Multiple display: HDMI and DP

- Rich I/O ports: 4× USB3.0, 4× USB2.0, 2× LAN (10/100/1000Mbps), 6× COM

- Expansions : 1× SATA3.0, 1× M.2 (for 4G or 2242 SSD), 1x M.2 for WiFi

- Fanless design

- 9~24V DC Input

The 1ST-IXKL-35 is a small form factor embedded system. Built with the Intel® Kaby Lake -U platform, it supports Intel® Celeron® or Core™ 3865U, i3-6100U, i3-7100U, i5-6200U, i5-7200U, i5-7300U or i7-7500U CPU. This system carries two DDR4 slots with a total maximum of 32GB to add higher bandwidth and lower latencies for processes. This computer features 2x LAN, M.2, SATA3.0, which makes it a good choice for data transportation application.

This system also features multiple display via 1× Display Port and 1× HDMI. It has 2× 10M/100M/1000Mbps BASE-T Gigabit LAN (Intel® i211 and Intel® i219), 4× USB3.0, 4× USB 2.0, 4× RS232, 2× RS485, catering to most requirements in the market. This Intel® Kaby Lake-U based system is designed for various applications as, but not limited to, automation, network security, communication and transportation.

Items		Descriptions						
Processor	CPU	3865U	i3-7100U	i3-6100U	i5-6200U	i5-7200U	i5-7300U	i7-7500U
	Core frequency	1.8GHz	2.4 GHz	2.3GHz	2.3GHz	2.5GHz	2.6 GHz	2.7GHz
	Burst frequency				2.8GHz	3.1GHz	3.5GHz	3.5GHz
	Cache	2MB	3MB	3MB	3MB	3MB	3MB	4MB
	BIOS	AMI 8MB UEFI BIOS						
Memory	Type	2× Dual channel DDR4-2133MHz						
	Max Capacity	32GB						
Display	GPU	Intel HD Graphics 610/620 (based on CPU)						
	HDMI	1x						
	DP	1x						
	Multiple display	HDMI+DP						
Ethernet	Speed	10Mbps/100Mbps/1000Mbps						
	Interface	2x RJ45						
	Controller	1x Intel® i211, 1x Intel® i219						
	Wake on LAN	Yes						
	vPro/AMT	Yes (Based on the specified CPU)						
Audio	Audio codec	Realtek HD ALC662						
	Interface	Line-out and MIC-in in one, amplifier by header						
Storage	M.2	1x M.2 for 4G or 2242 SSD (SATA definition)						
	SATA3.0	2x (only 1x if Celeron® onboard)						
Expansion	M.2	1x M.2 for WiFi						
	SIM	1x						
System I/O	Front Panel I/O	2x COM RS485 2x LAN 4x USB3.0 4x USB2.0 1x HDMI 1x DP 1x DC-IN						

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Items		Descriptions
	Rear Panel I/O	4x COM RS232
Power	Standard port	1x 9~24V DC-IN Power
	LED Indicator	POWER indicator
Operating Temperature		-40℃ ~ 60℃ non condensing
Storage Temperature		-40℃ ~ 80℃
Dimensions (LxWxH)		165mm x 125mm x 65mm
Operating System		Supports Win 7/10 64 bit, Linux 32/64 bit

Packing List

1x 1ST-IXKL-35
1x Utility CD
1x Quick Installation Guide

Ordering Information

Part No.	Descriptions
1ST-IXKL-35-3865	Supports Intel® Celeron® 3865U (1.80GHz, dual-core, TDP 15W)
1ST-IXKL-35-7100	Supports Intel® Core™ i3-7100U (2.40GHz, dual-core, TDP 15W)
1ST-IXKL-35-6100	Supports Intel® Core™ i3-6100U (2.30GHz, dual-core, TDP 15W)
1ST-IXKL-35-6200	Supports Intel® Core™ i5-6200U (2.30GHz, burst frequency 2.80GHz, dual-core, TDP 15W)
1ST-IXKL-35-7200	Supports Intel® Core™ i5-7200U (2.50GHz, burst frequency 3.10GHz, dual-core, TDP 15W)
1ST-IXKL-35-7300	Supports Intel® Core™ i5-7300U (2.60GHz, burst frequency 3.50GHz, dual-core, TDP 15W)
1ST-IXKL-35-7500	Supports Intel® Core™ i7-7500U (2.7GHz, burst frequency 3.50GHz, dual-core, TDP 15W)

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