

# 1ST-IXAPL-35

## Fanless Industrial Computer

with Intel® Apollo Lake Processor, 2x LAN, 6x COM



- Onboard Intel® Apollo Lake Celeron®/Pentium® N3350, J3355, N3450, J3455, N4200 or J4205 CPU
- 1x SO-DIMM slot for memory up to 8GB
- Multiple display: HDMI and DP
- Rich I/O ports: 4x USB3.0, 4x USB2.0, 2x LAN (10/100/1000Mbps), 6x COM
- Expansions : 1x SATA3.0, 1x M.2 (for 4G or 2242 SSD)
- 1x eMMC
- Fanless design
- 9~24V DC Input

The 1ST-IXAPL35 is a small form factor embedded system. Built with the Intel® Apollo Lake platform, it supports Intel® Celeron®/Pentium® N3350, J3355, N3450, J3455, N4200 and J4205. This system carries one DDR3L SO-DIMM slot with a total maximum of 8GB to add higher bandwidth and lower latencies for processes. This computer features 2x LAN, M.2, SATA3.0 and eMMC, which makes it a good choice for data transportation application.

This system also features multiple display via 1x Display Port1.2 and 1x HDMI1.4. It has 2x 10M/100M/1000Mbps BASE-T Gigabit LAN (Intel® i211), 4x USB3.0, 4x USB 2.0, 4x RS232, 2x RS485, catering to most requirements in the market. This Intel® Apollo Lake based system is designed for various applications as, but not limited to, automation, network security, communication and transportation.

Items		Descriptions					
Processor	CPU	N3350	J3355	N3450	J3455	N4200	J4205
	Core frequency	1.10GHz	2.0 GHz	1.1GHz	1.5 GHz	1.1GHz	1.5 GHz
	Burst frequency	2.40GHz	2.5 GHz	2.2GHz	2.3 GHz	2.5GHz	2.6 GHz
	Cache	2MBL2	2MB	2MBL2	2MB	2MBL2	2MB
Memory	Type	1x Single channel DDR3L SO-DIMM					
	Max Capacity	8GB					
Display	GPU	Intel HD Graphics 500 (based on CPU)					
	HDMI	1x					
	DP	1x					
	Multiple display	HDMI+DP					
Ethernet	Speed	10Mbps/100Mbps/1000Mbps					
	Interface	2x RJ45					
	Controller	2x Intel i211					
	Wake on LAN	Yes					
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	1x					
	eMMC	Yes					
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					
	Rear Panel I/O	4x COM RS232					
Power	Standard port	1x 9~24V DC-IN/4 PIN Power					
	Peripheral Input	For fan and SATA power					

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	LED Indicator	POWER indicator
Operating Temperature		-40°C ~ 60°C non condensing
Storage Temperature		-40°C ~ 80°C
Dimensions (LxWxH)		165mm x 125mm x 65mm
Operating System		Supports Win 10 32/64 bit, Linux 32/64 bit

### Packing List

1x 1ST-IXAPL35
1x Utility CD
1x Quick Installation Guide

### Ordering Information

Part No.	Descriptions
1ST-IXAPL35-3350	Supports Intel® Celeron® N3350 (1.10GHz, burst frequency 2.40GHz, dual-core, TDP 6W)
1ST-IXAPL3-3355	Supports Intel® Celeron® J3355 (2.00GHz, burst frequency 2.50GHz, dual-core, TDP 10W)
1ST-IXAPL3-3450	Supports Intel® Celeron® N3450 (1.10GHz, burst frequency 2.20GHz, quad-core, TDP 6W)
1ST-IXAPL3-3455	Supports Intel® Celeron® J3455 (1.50GHz, burst frequency 2.30GHz, quad-core, TDP 10W)
1ST-IXAPL3-4200	Supports Intel® Pentium® N4200 (1.10GHz, burst frequency 2.50GHz, quad-core, TDP 6W)
1ST-IXAPL3-4205	Supports Intel® Pentium® J4205 (1.50GHz, burst frequency 2.60GHz, quad-core, TDP 10W)

