1ST-UTFC-30A	Ultra Thin Fanless Computer
	with Intel® Apollo Lake Processor, 3x LAN and 2x HDMI

3×LAN, 4×USB2.0, 1×DP, 2×HDMI

The 1ST-UTFC-30A is a small form factor embedded fanless system. built with the Intel® Apollo Lake platform. It is fanless and has low power consumption. The system carries two DDR3L 1600MHz SO-DIMM slots with a total maximum capacity of 8GB to add higher bandwidth and lower latencies for processes. This computer also features one Micro SIM card slot, one Mini-PCIe and eMMC(optional) which in combination with 3 LAN-ports makes it a good choice for data transportation applications.

This embedded system supports trio independent display via two HDMI and one DP interfaces. This Apollo Lake based fanless system is designed for various applications as, but not limited to, automation, network security, communication and transportation.

- Onboard Intel® Apollo J3455, J3355, N3350, N3450, N4200 and J4205

- 2 × SO-DIMM slots for memory up to 8GB

- Support trio independent display via 2× HDMI and 1× DP

- Rich I/O ports: 2× USB3.0, 4× USB2.0, 3× LAN, 2× COM

- Wide Expansions : 1× SATA, 1× Micro SIM slot, 1× mSATA, 1× mini-PCIe,

- 1× eMMC (optional)

- Fanless design and low power consumption

- High quality Aluminium Enclosure

Items		Descriptions					
Processor	CPU	J3455	J3355	N3350	N3450	N4200	J4205
	Core frequency	1.50 GHz	2.00 GHz	1.10 GHz	1.10 GHz	1.10GHz	1.50GHz
	Burst frequency	2.30 GHz	2.50 GHz	2.40 GHz	2.20 GHz	2.50GHz	2.60GHz
	Cache	2MB	2MB	2MBL2	2MB L2	2MB L2	2MB
Memory	Type	2× Single channel DDR3L -1600MHz					
	Max Capacity	8GB					
Display	HDMI	2x (HDMI1, without sound)					
	DP	1x					
	Trio display	HDMI+HDMI+DP					
Ethernet	Speed	10Mbps/100Mbps/1000Mbps					
	Interface	3x RJ45					
	Controller	RTL8111H					
Audio	Audio codec	Realtek HD ALC662 (Line-out, MIC-in)					
Storage	SATA	1x					
	mSATA	1x mSATA for SSD					
	eMMC	optional					
Expansion	Mini-PCIe	1x (for WiFi or 3G/4G network)					
	Micro SIM card slot	1x					
System I/O	Rear Panel I/O	4x USB2.0 2x HDMI 1x DP 3x RJ45 LAN 1x DC-IN					
	Right & Left Sides I/O	Audio: Mic-in, Line-out					
		2x USB3.0					
		2x COM RS232 (either COM can be set as RS232 or RS485, optional)					
Power Supply		12V/19V DC-IN (9V~70V, optional)					
Operating Temperature		0℃ ~ 60℃ non condensing optional -20℃ ~ 60℃ non condensing					
Storage Temperature		-20℃ ~ 80℃					
Dimensions (LxWxH)		150mmx190mmx29mm					
Weight		860g					
Operating System		Supports Win 8/8.1/10 32/64 bit, Linux 32/64 bit					

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Packing List

1x 1ST-UTFC-30A
1x Utility CD
1x Quick Installation Guide

Ordering Information

Part No.	Descriptions
1ST-UTFC-30A-3455	Supports Intel® Celeron® J3455 (1.50GHz, burst frequency 2.30GHz, quad-core, TDP 10W)
1ST-UTFC-30A-3355	Supports Intel® Celeron® J3355 (2.00GHz, burst frequency 2.50GHz, dual-core, TDP 10W)
1ST-UTFC-30A-3350	Supports Intel® Celeron® N3350 (1.10GHz, burst frequency 2.40GHz, dual-core, TDP 6W)
1ST-UTFC-30A-3450	Supports Intel® Celeron® N3450 (1.10GHz, burst frequency 2.20GHz, quad-core, TDP 6W)
1ST-UTFC-30A-4200	Supports Intel® Pentium® N4200 (1.10GHz, burst frequency 2.50GHz, quad-core, TDP 6W)
1ST-UTFC-30A-4205	Supports Intel® Pentium® J4205 (1.50GHz, burst frequency 2.60GHz, quad-core, TDP 10W)

2×COM

2×USB3.0 , 1x Mic-in/Line-out

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