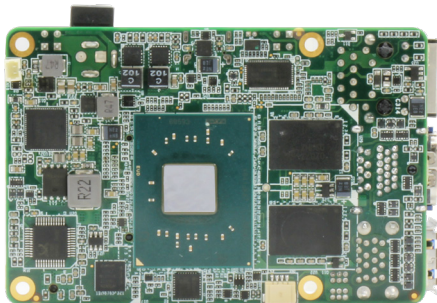
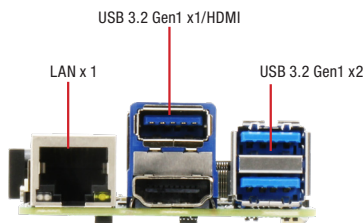
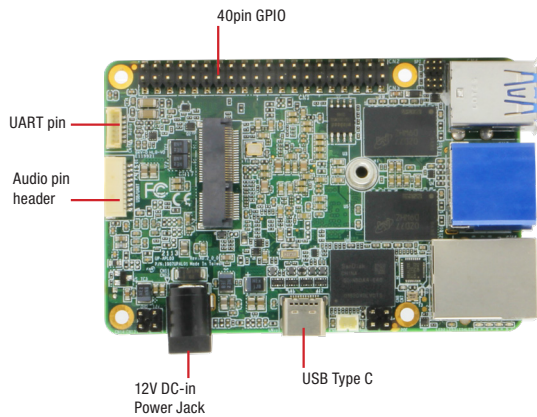


# UP 4000 PRELIMINARY

UP Developer Board with Intel® Pentium® N4200/ Celeron® N3350/ Atom E3950™ Processor SoC



## Features

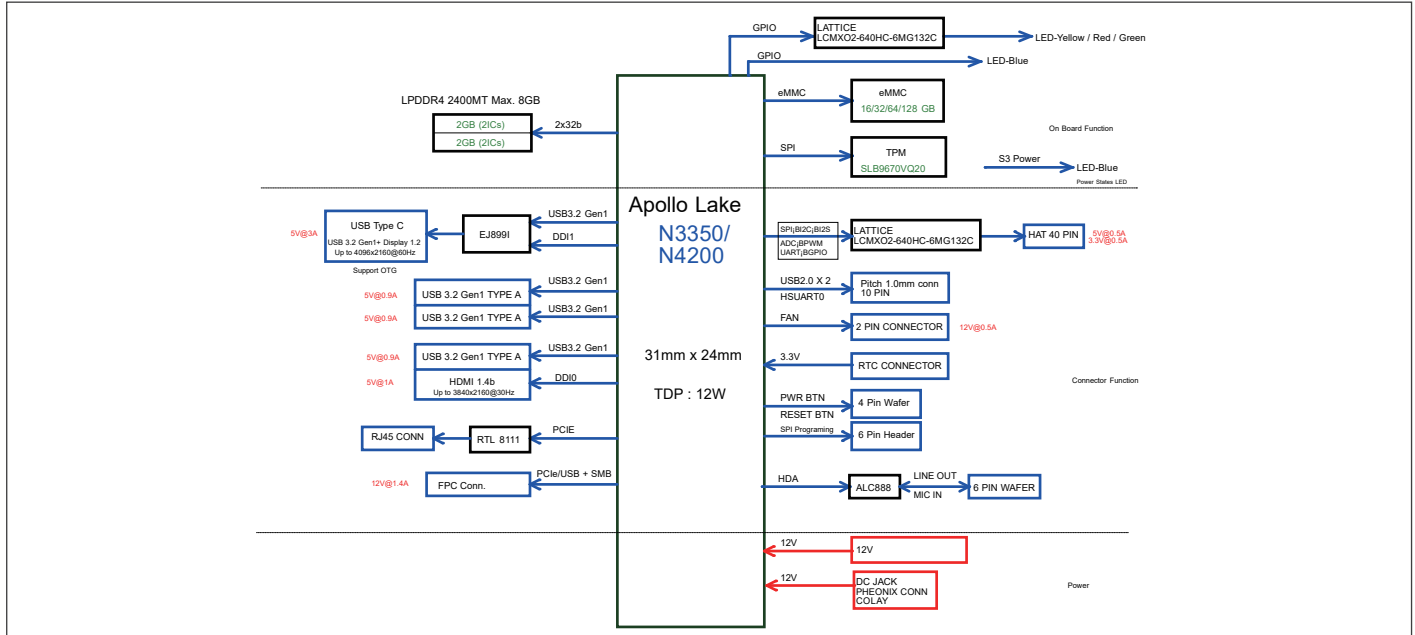
- Intel® Pentium® N4200/ Celeron® N3350/ Atom E3950™ Processor SoC
- Onboard LPDDR4 Memory up to 8GB
- Onboard eMMC Storage up to 64GB
- Gigabit LAN x 1, HDMI x 1, USB 3.2 Gen 1 (Type A) x 3
- 12V DC-in, 5A
- 40 pin GPIO x 1
- 6 pin wafer for Audio x 1



## Specifications

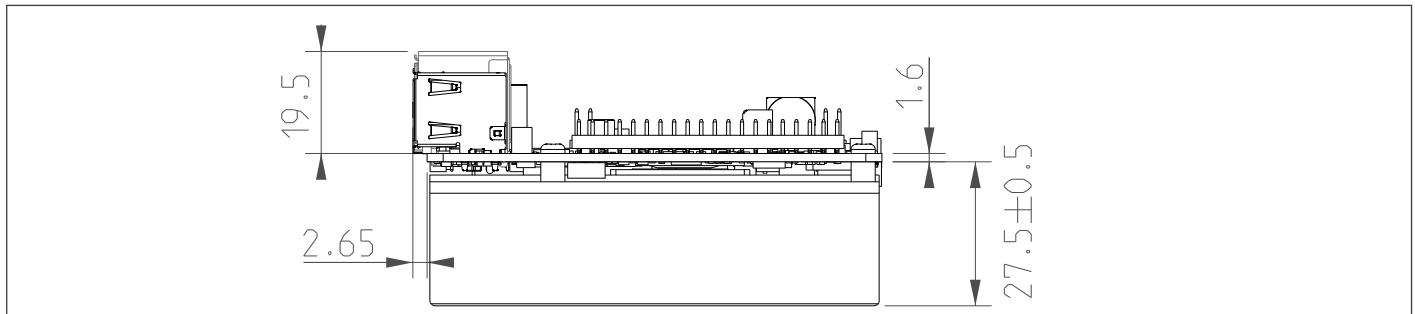
System	
Processor	Intel® Pentium® N4200/ Celeron® N3350/ Atom E3950™ Processor SoC
Graphics	Intel® Gen 9 HD, supporting 4K Codec Decode and Encode for HEVC4, H.264,VP8
I/O	HDMI x 1
Camera	—
USB	USB 3.2 Gen 1 (Type A) x 3 USB 2.0 pin header (10 pins in total) x 2 1x USB3.0 OTG via USB type C
Expansion	40 pin GPIO x1 via carrier board: M.2 2230/2242/2280 x1 M.2 3052 x1
RTC	Yes
Power	12V DC-in @5A
Dimension	3.37" x 2.22" ( 85.6mm x 56.5mm)
Memory	onboard LPDDR4 max to 8GB
Storage	eMMC 32GB/ 64GB
Display Interface	HDMI 1.4bx 1 DP 1.2 via USB TYPE C Connector
Ethernet	Gb Ethernet (full speed) RJ-45 x 1
OS Support	Microsoft Windows 10 (full), Windows IOT Core Yocto project 3.1 Kernel 5.4 Ubuntu 20.04 Kernel 5.4
Operating Temperature	32°F ~ 140°F (0°C ~ 60°C)
Operation Humidity	10% ~ 80% relative humidity, non-condensing
Certification	CE/FCC Class A, RoHS Compliant

## Block Diagram



## Dimension

Unit: mm



## Ordering Information

PN	CPU	Memory	Storage	TPM 2.0	Gbe LAN	Audio wafer
UP-APL03C2F-A10-0232	Apollo Lake N3350(F1)	2GB	32GB	yes	Realtek RTL8111H	yes
UP-APL03C2F-A10-0432	Apollo Lake N3350(F1)	4GB	32GB	yes	Realtek RTL8111H	yes
UP-APL03P4F-A10-0432	Apollo Lake N4200(F1)	4GB	32GB	yes	Realtek RTL8111H	yes
UP-APL03P4F-A10-0864	Apollo Lake N4200(F1)	8GB	64GB	yes	Realtek RTL8111H	yes
UP-APL03X7F-A10-0464	Apollo Lake E3950(F1)	4GB	64GB	yes	Realtek RTL8111H	yes

## Packing List

- UP 4000 with Heatsink

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