

## Features

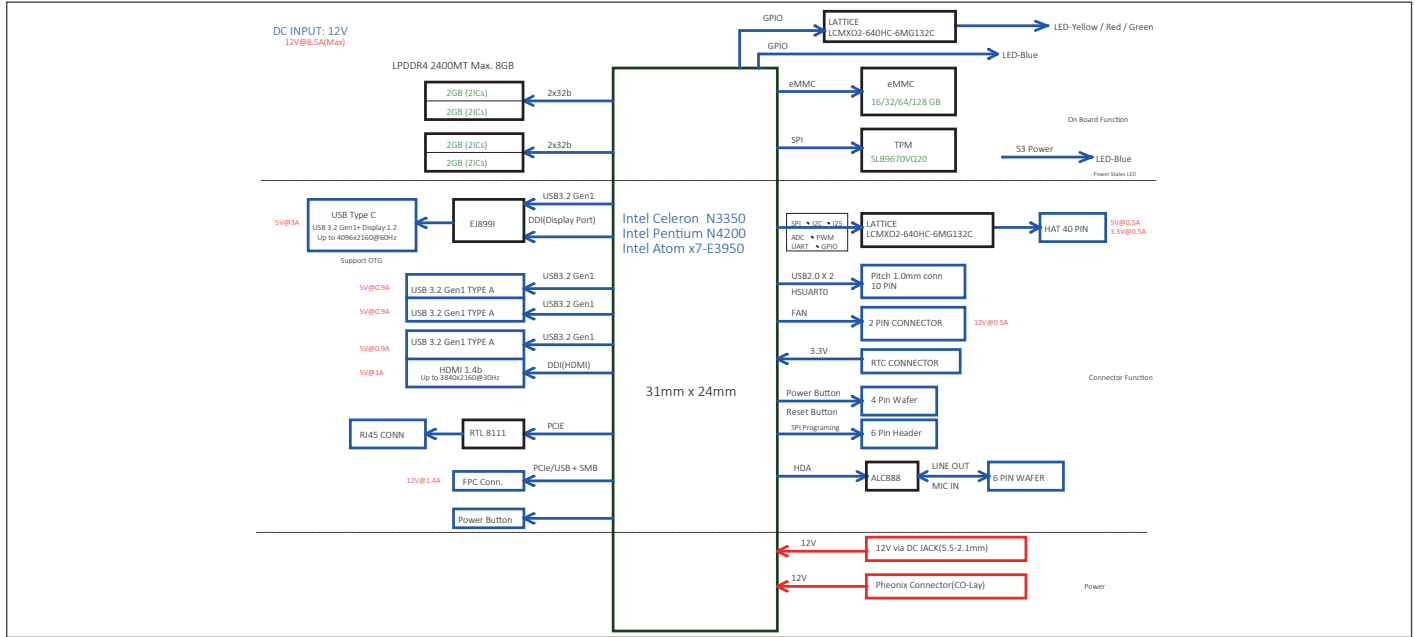
- Onboard LPDDR4 Memory up to 8GB
- Onboard eMMC Storage up to 64GB
- Dual displays up to 4K at 60Hz
- Support M.2 2230 E-Key / M.2 2280 M-Key / M.2 3052 B-Key ( via carrier board)
- 40 pin GPIO x 1
- 6 pin wafer for Audio x 1
- TPM 2.0



## Specifications

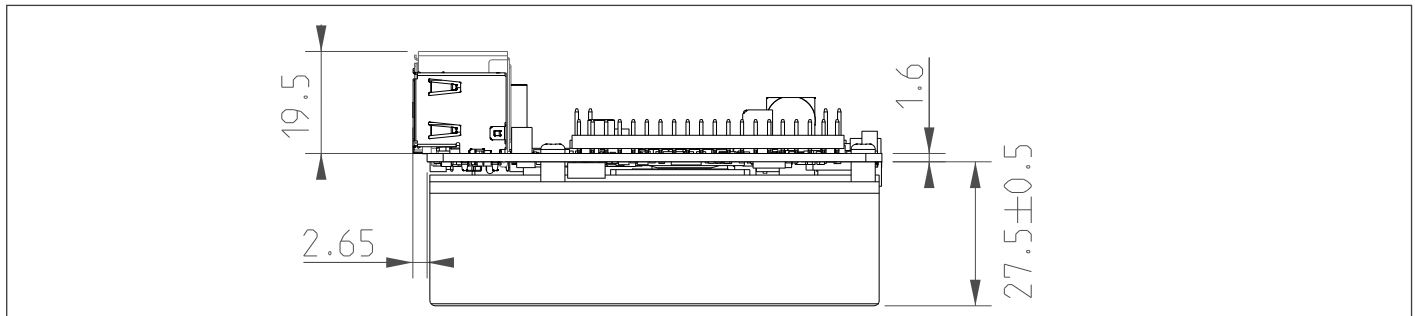
System	
Processor	Intel® Celeron® N3350/ Intel® Pentium® N4200/ Intel Atom® x7-E3950 Processor SoC
Graphics	Intel® Gen 9 HD, supporting 4K Codec Decode and Encode for HEVC4, H.264,VP8
I/O	2 pin wafer for Fan ( 12V ) x 1 2 pin wafer for RTC Battery x 1 6 pin wafer for Audio (Line out + MIC in) x 1 10 pin wafer (2 USB2.0 + 1 HUART) x 1 HAT 40 pin header x 1 4pin wafer power button for front panel x 1 41 pin FPC connector for high speed expand x 1 power button x 1
Camera	—
USB	USB 3.2 Gen 1 (Type A) x 3 USB 2.0 pin header (10 pins in total) x 2 USB 3.2 Gen 1 OTG via USB Type-C x 1
Expansion	40 pin GPIO x 1 via carrier board: M.2 2230/2242/2280 x 1 M.2 3052 x 1
RTC	Yes
Power	12V DC-in @5A (phoenix Terminal co-lay)
Dimension	3.34" x 2.20" (85mm x 56mm)
Memory	onboard LPDDR4 max to 8GB
Storage	16GB/ 32GB/ 64GB eMMC
Display Interface	HDMI 1.4bx 1 DP 1.2 via USB TYPE C Connector
Ethernet	1 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 18.04
Operating Temperature	32°F ~ 140°F (0°C ~ 60°C), 0.5m/s airflow
Operation Humidity	10% ~ 80% relative humidity, non-condensing
Certification	CE/FCC Class A, RoHS Compliant

## Block Diagram



## Dimension

Unit: mm



## Ordering Information

Part number	CPU	Memory	Storage	TPM 2.0	Gbe LAN	Audio wafer
UP-APL03C2F-A10-0216	Apollo Lake N3350(F1)	2GB	16GB	yes	Realtek RTL8111H	yes
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

## Optional Accessories

Part Number	Description
125530060L	(TF)PowerAdapter.DC.100/240V.12V.5A.60W.Powertron.PS1065-120IB500.For UPC-PLUS
9741364A00 (via carrier board)	Wireless LAN Kit M.2 2230 802.11ac/a/b/g/n + BT4.0,2T2R,with 2 sets of cable & antenna (Enli,QCNFA364A)
9651926001 (via carrier board)	(TF).M.2 2230 WiFi Kit.802.11ac.2.4G/5G,W/BT Intel.9260.NG.WG.NV.958867 w/2 cable & antenna
170X000382	(TF)Cable.6P.Pitch=1.0mm.150mm.FLYINGWAY.FWAA-1473.Audio Jack Cable
UP-APL03CB-A10-0001	UP-APL03 carrier board. M.2 Key-B+E.w/ FPC cable
UP-APL03CB-A10-0002	UP-APL03 carrier board. M.2 Key-M.w/ FPC cable

## Packing List

- UP 4000 with Heatsink