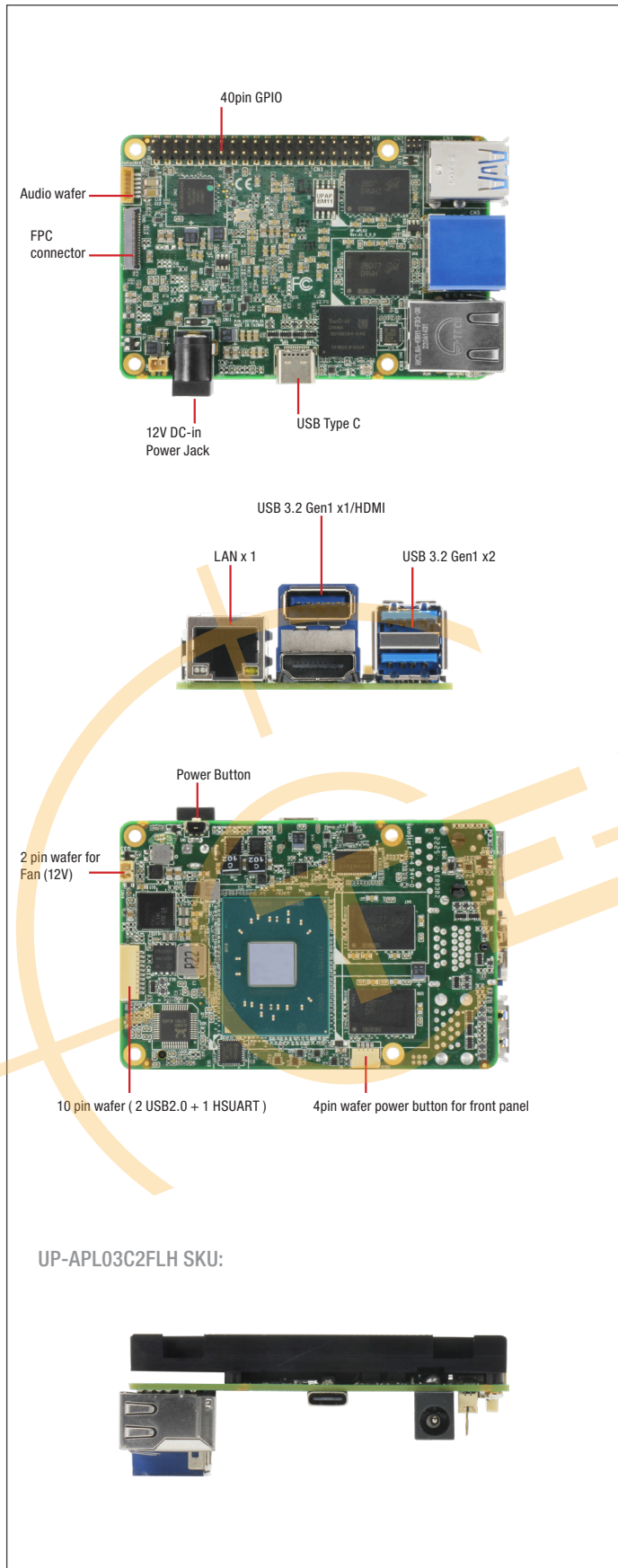


UP 4000

UP Developer Board with Intel® Celeron® N3350/ Intel® Pentium® N4200/ Intel Atom® x7-E3950 Processor SoC



UP-APL03C2FLH SKU:

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



Distributed by:



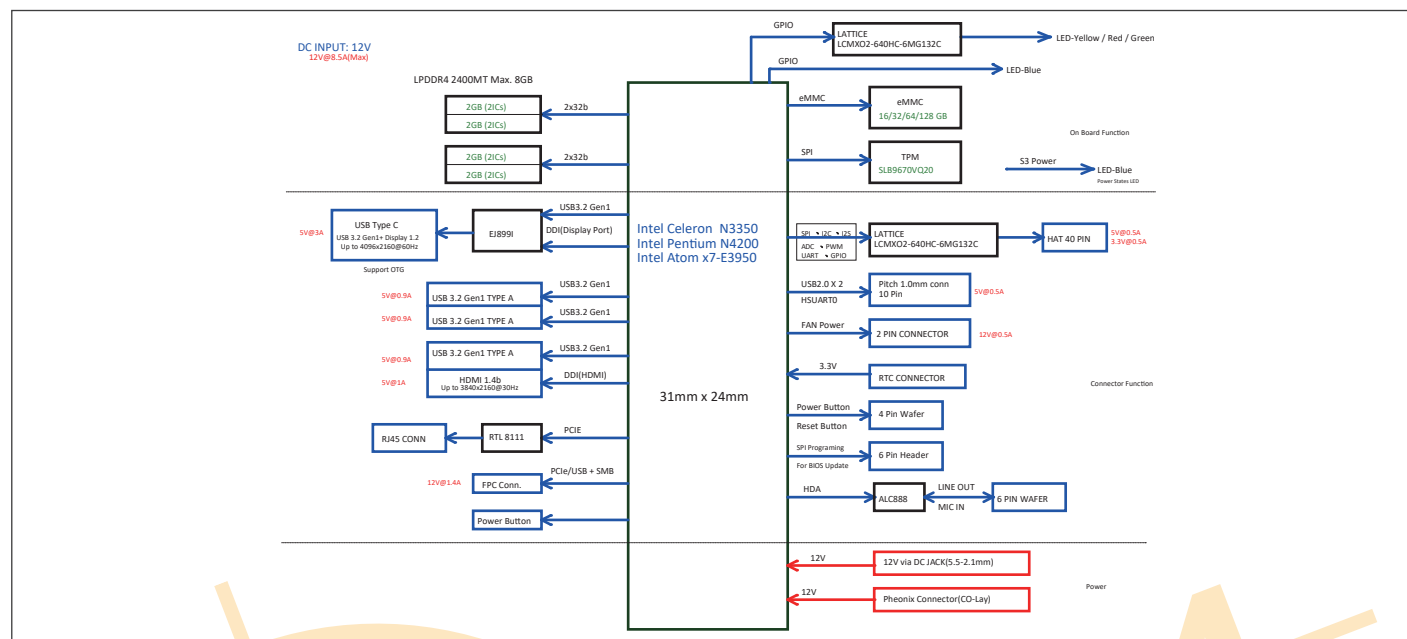
Specifications

System	
Processor	Intel® Celeron® Processor N3350 Intel® Pentium® Processor N4200 Intel Atom® x7-E3950
Graphics	Intel® HD Graphics
Memory	Up to 8GB onboard LPDDR4
Storage	Up to 64GB onboard eMMC
I/O	HDMI 1.4b x 1 DP 1.4a x 1 (via USB Type-C) 41-pin FPC connector for high speed expend x 1 6-pin Audio wafer x 1 (Mic-in+Line-out)
Camera	—
USB	USB 2.0 x 2 (from 10-pin header x 1) USB 3.2 Gen 1 (Type A) x 3 USB 3.2 Gen 1 OTG (USB Type-C) x 1
Expansion	40-pin GPIO x 1 Via carrier board: M.2 2230 E-Key x 1 M.2 2280 M-Key x 1 M.2 3052/3042 B-Key x 1
Display Interface	HDMI 1.4b x 1 DP 1.4a x 1 (via USB Type-C)
Ethernet	1GbE RJ-45 x 1 (Realtek RTL8111H CG)
Security	Onboard TPM 2.0
RTC	Yes
OS Support	Microsoft Windows 10 and Windows IoT Linux Ubuntu 22.04 Linux Yocto 4.0
Power Requirement	
Power	12V DC-in
Power Supply Type	AT/ATX (AT as default)
Power Consumption (Typical)	19W~25W
Mechanical	
Dimension	3.34" x 2.20" (85mm x 56mm)
Net Weight	4.63 lbs (2.10kg)
Gross Weight	6.39 lbs (2.90kg)
Environment	
Operating Temperature	32°F ~ 140°F (0°C ~ 60°C), 0.5m/s airflow
Operation Humidity	10% ~ 80% relative humidity, non-condensing
MTBF	538,629 Hours
Certification	CE/FCC Class A, RoHS Compliant, REACH

Packing List

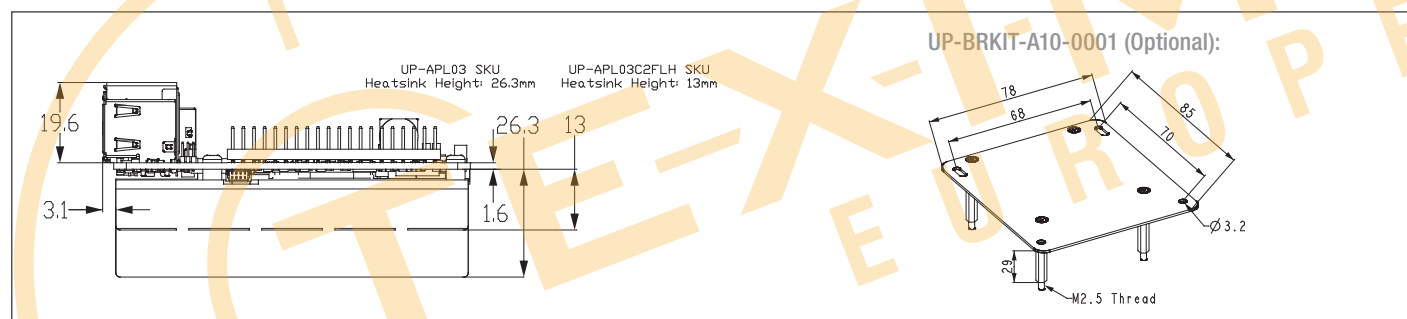
- UP 4000 with Heatsink

Block Diagram



Dimension

Unit: mm



Ordering Information

Part number	CPU	MEMORY	STORAGE	HEATSINK
UP-APL03C2F-A10-0232	Intel® Celeron® Processor N3350	2GB	32GB	FANLESS
UP-APL03C2F-A10-0432	Intel® Celeron® Processor N3350	4GB	32GB	FANLESS
UP-APL03C2FLH-A10-0232	Intel® Celeron® Processor N3350	2GB	32GB	FANLESS, LOWER Heatsink
UP-APL03C2FLH-A10-0432	Intel® Celeron® Processor N3350	4GB	32GB	FANLESS, LOWER Heatsink
UP-APL03C2FLH-A10-0464	Intel® Celeron® Processor N3350	4GB	64GB	FANLESS, LOWER Heatsink
UP-APL03P4F-A10-0432	Intel® Pentium® Processor N4200	4GB	32GB	FANLESS
UP-APL03P4F-A10-0864	Intel® Pentium® Processor N4200	8GB	64GB	FANLESS
UP-APL03X7F-A10-0464	Intel Atom® x7-E3950	4GB	64GB	FANLESS

Optional Accessories

Part Number	Description
9741364A00	(TF).M.2 2230 Wireless.802.11 ac/a/b/g/n + BT 5.0.2T2R,Enli QCNFA364A.w/2 sets of cable and antenna (via carrier board)
9689Y00122	(TF).AC PLUG.5 keys.EU/US/UK/AU/CN.MEANWELL.AC PLUG-MIX4
9651926001	(TF).M.2 2230 WiFi Kit.802.11ac.2.4G/5G,W/BT Intel.9260.NG.WG. NV.958867 w/2 cable & antenna (via carrier board)
1255X00114	(TF)AC/DC Adapter.12V.65W.5.42A.MEANWELL.NGE65H12-P1J.Wallmount.W/O AC PLUG
170X000382	(TF)Cable.6P.Pitch=1.0mm.150mm.FLYINGWAY.FWAA-1473.Audio Jack Cable
170X000542	FPC Cable.41P.Pitch=0.3mm.43.5*12.6*0.2mm.for UP-APL03
170X000543	Cable.4P.SWITCH CABLE.200mm.FLYINGWAY. FWAA-1561
1700100156	USB Cable.10P 1.0mm Housing.USB A(F).15cm
UP-APL03CB-A10-0001	UP 4000 carrier board kit for WiFi and 5G module
UP-APL03CB-A10-0002	UP 4000 carrier board kit for M.2 2280
UP-APL03CB-A10-0003	UP 4000 carrier board kit for WiFi and BT module
UP-POEV2-30W-A10-0001	POE 25W Carrier board for UP 4000
UPCR-CAN1-A10-0001	UP CAN Bus Carrier Board with USB/UART interface for UP product line
UP-BRKIT-A10-0001	Bracket KIT of board fixture for all UP series

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All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts.

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