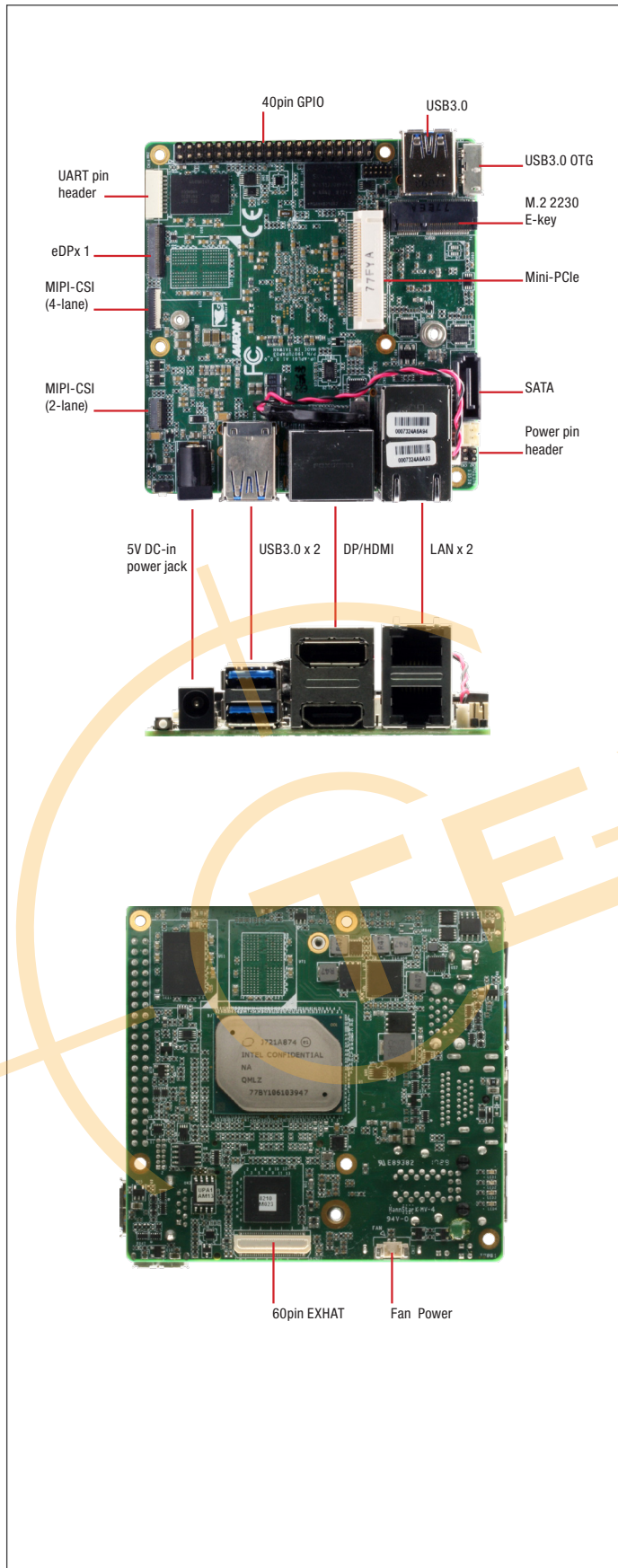


UP Squared

UP Squared Developer Board with Intel® Pentium® N4200/ Celeron® N3350 Processor SoC



Features

- Intel® Pentium® N4200/ Celeron® N3350 Processor SoC
- Onboard LPDDR4 Memory up to 8GB
- Onboard eMMC Storage up to 128GB
- Gigabit LAN x 2, USB 2.0 x 2, USB 3.0 (Type A) x 3
- 5V DC-in, 4-6A
- 40 pin GPIO x 1
- DP/eDP/HDMI x 1
- MIPI-CSI (4-Lane & 2-Lane) x 1
- Mini-PCle /M.2 2230 x 1
- SATA3 x 1
- 60pin EXHAT



Specifications

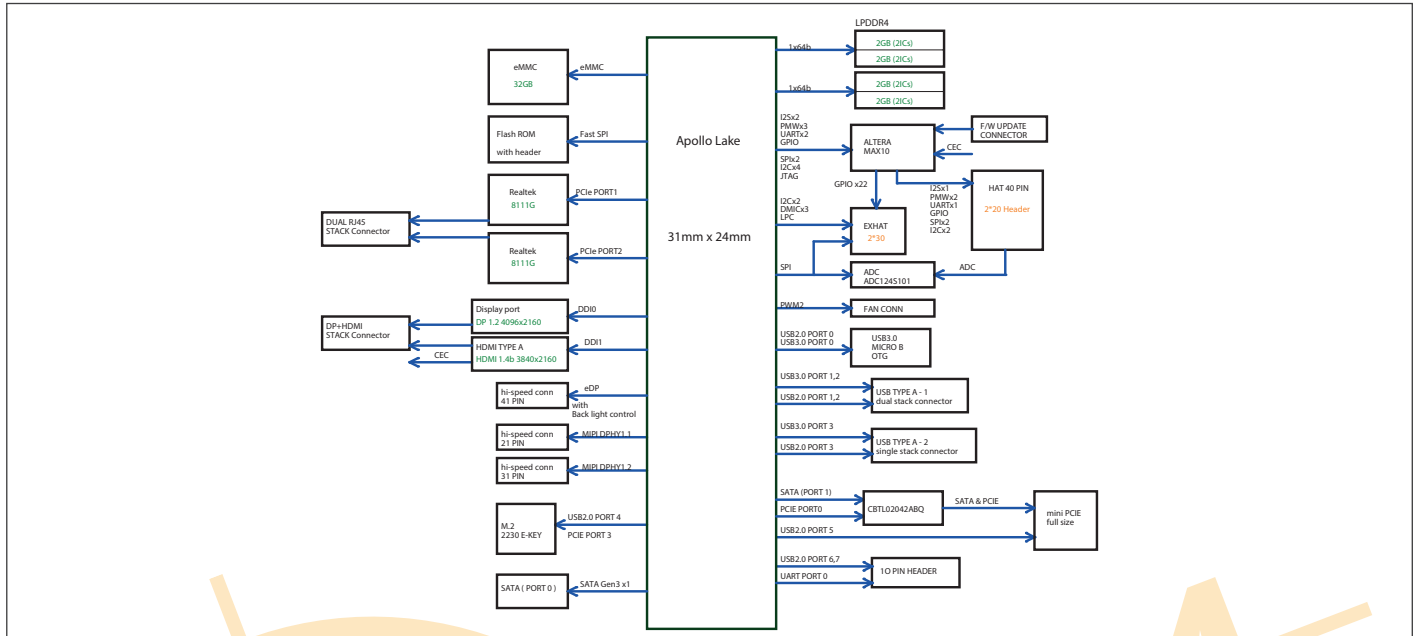
System	
Processor	Intel® Celeron® Processor N3350 Intel® Pentium® Processor N4200 Intel Atom® x7-E3950 Intel Atom® x5-E3940
Graphics	Intel® HD Graphics
Memory	Up to 8GB onboard LPDDR4
Storage	Up to 128GB onboard eMMC
I/O	HDMI 1.4b x 1 DP 1.2 x 1
Camera	MIPI-CSI via 21 Pin FPC connector x 1 MIPI-CSI via 31 Pin FPC connector x 1
USB	USB 2.0 x 2 (via 10 Pin Header x 1) USB 3.2 Gen 1 x 3 (Type-A) USB 3.2 Gen 1 OTG x 1 (Micro B)
Expansion	40-pin GPIO x 1 Full-sized mPCIe x 1 (PCIe & SATA [x1], USB2.0 [x1]) M.2 2230 E-Key x 1 (PCIe [x1], USB2.0 [x1]) SATA III x 1 60 Pin EXHAT x 1
Display Interface	HDMI 1.4b x 1 DP 1.2 x 1 eDP 1.3 x 1
Ethernet	GbE x 2 (Realtek 8111H CG)
Security	fTPM
RTC	Yes
OS Support	Windows® 10 IoT Enterprise LTSC 2021 Windows IoT Core Linux Ubuntu 20.04 LTS Linux Yocto 3.1
Power Requirement	
Power	5V DC-in
Power Supply Type	AT/ATX (AT as default)
Power Consumption (Typical)	15.05W
Mechanical	
Dimension	3.37" x 3.54" (85.6 mm x 90 mm)
Net Weight	0.463 lbs (0.21kg)
Gross Weight	0.639 lbs (0.29kg)
Environment	
Operating Temperature	32°F ~ 140°F (0°C ~ 60°) / 0.5 airflow
Operation Humidity	0%~90% relative humidity, non-condensing
MTBF	173,446 Hours
Certification	CE/FCC Class A, RoHS complaint, REACH

Packing List

- UP Squared with Heatsink

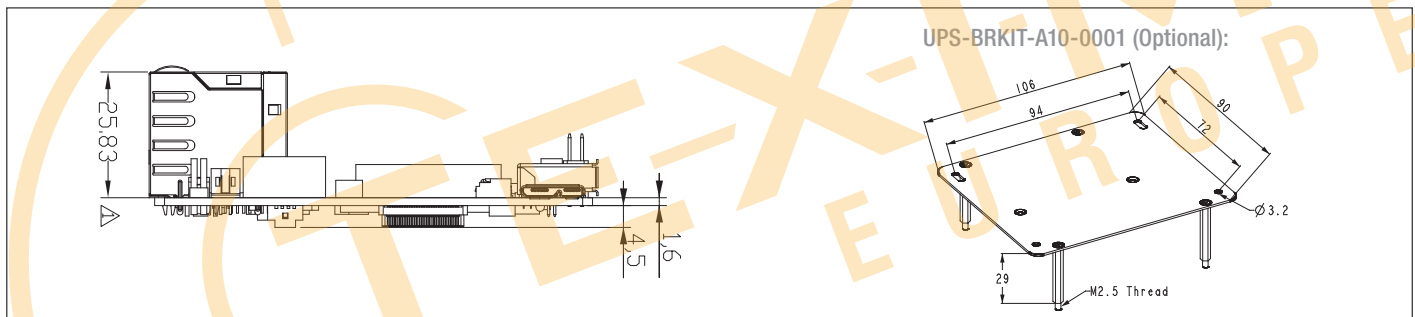


Block Diagram



Dimension

Unit: mm



Optional Accessories

Part Number	Description
1255300362	(TF)AC/DC Adapter.5VDC.30W.6A.SUNWARD.AD36AM050600
1702020911	(TF)POWER CORD.SP12N 2P.C8 2P.91cm.NISPT-2 for US
1709070500	SATA cable
1702150155	SATA power cable(15cm)
1702150306	SATA power cable(30cm)
170010015G	UART to USB cable
9651926001	(TF).M.2 2230 WiFi Kit.802.11ac.2.4G/5G.W/BT Intel.9260.NG.WG.NV.958867 w/2 cable & antenna
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
UPS-BRKIT-A10-0001	Bracket KIT of board fixture for all UP series

Ordering Information

Part number	CPU	CORE	MEMORY	STORAGE	HEATSINK
UPS-APLC2F-A20-0232	Intel® Celeron® Processor N3350	2 Core	2GB	32GB	FANLESS
UPS-APLC2F-A20-0432	Intel® Celeron® Processor N3350	2 Core	4GB	32GB	FANLESS
UPS-APLP4F-A20-0432	Intel® Pentium® Processor N4200	4 Core	4GB	32GB	FANLESS
UPS-APLP4F-A20-08128	Intel® Pentium® Processor N4200	4 Core	8GB	128GB	FANLESS
UPS-APLP4F-A20-0864	Intel® Pentium® Processor N4200	4 Core	8GB	64GB	FANLESS
UPS-APLX5F-A20-0432	Intel Atom® x5-E3940	4 Core	4GB	32GB	FANLESS
UPS-APLX7F-A20-0464	Intel Atom® x7-E3950	4 Core	4GB	64GB	FANLESS
UPS-APLX7F-A20-0864	Intel Atom® x7-E3950	4 Core	8GB	64GB	FANLESS

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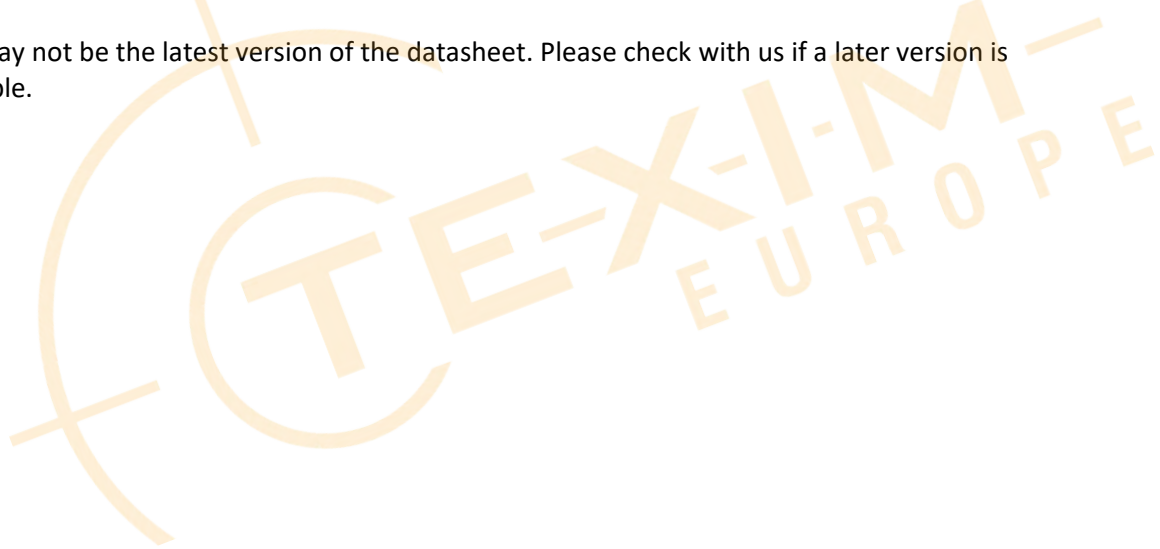
It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application.

Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary over time.

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

Please contact us if you have any questions about the contents of the datasheet.

This may not be the latest version of the datasheet. Please check with us if a later version is available.





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