

UP Squared Edge

UP Squared Gateway System with Intel Atom® x7-E3950 Processor SoC



Features

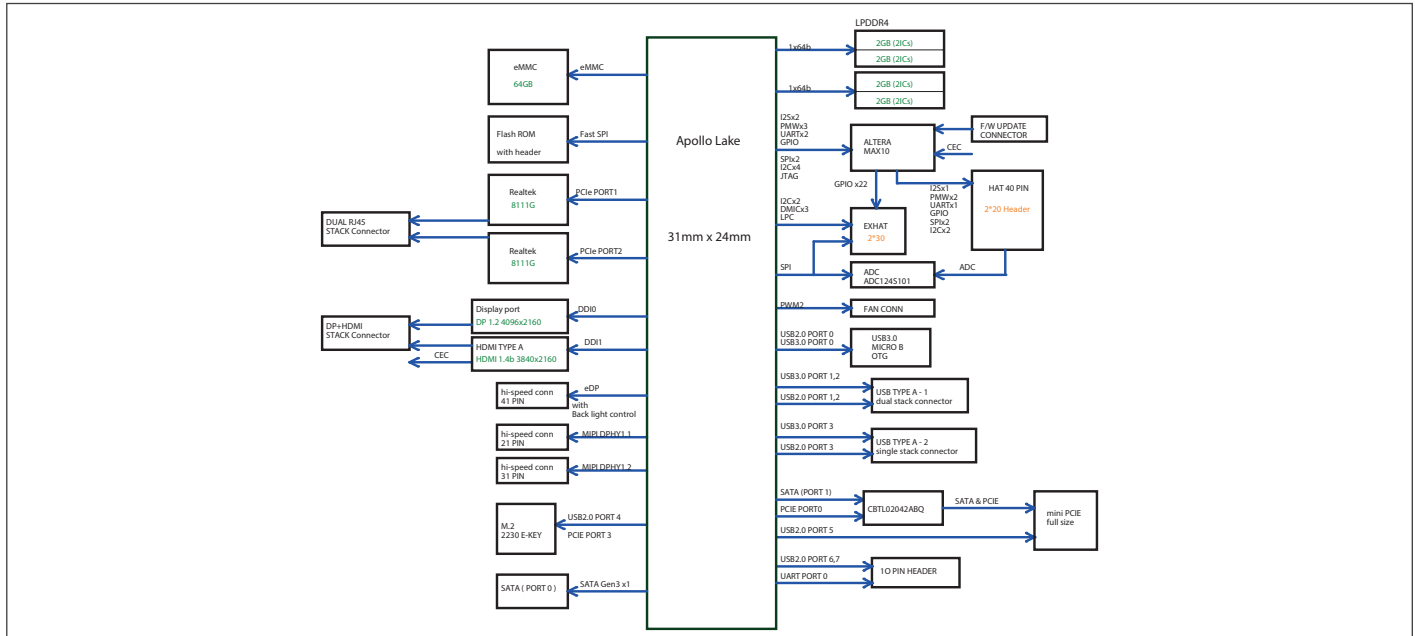
- Intel Atom® x7-E3950 Processor SoC
- Onboard LPDDR4 Memory up to 8GB
- Onboard eMMC Storage up to 128GB
- Gigabit LAN x 2, USB 2.0 x 2, USB 3.0 (Type A) x 3
- 5V DC-in, 4-6A
- 40 pin GPIO x 1
- DP/eDP/HDMI x 1



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)	18W
Mechanical	
Dimension	3.93" x 4.13" x 2.73" (100 mm x 105 mm x 69.4 mm)
Net Weight	2.20 lbs (1 kg)
Gross Weight	3.30 lbs (1.5kg)
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

Block Diagram



Packing List

- UP Squared Edge

Ordering Information

Part number	CPU	CORE	MEMORY	STORAGE	HEATSINK
UPS-EDGE-X70864-U01	Intel Atom® x7-E3950	4 Core	8GB	64GB	FANLESS

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