

# UP Squared 6000 Edge

UP Squared 6000 System with Intel® Atom® x6000E Pentium® Celeron® Processor SoC

Front View



Rear View



## Features

- Intel® Atom® x6000E Pentium® Celeron® Processor SoC
- Onboard LPDDR4 Memory up to 8GB
- Onboard eMMC Storage up to 64GB
- GbE x 1, 2.5GbE x 1 (Intel® i210, i225)
- USB 3.2 x 3 (Type A x 2, Type C x 1)
- 40 pin GPIO x 1
- DP 1.2 / HDMI 2.0b
- COM x 1
- M.2 2230 E-Key / M.2 2280 M-Key / M.2 3052 B-Key x 1
- SATA 6Gb/s x 1
- TPM 2.0
- 12V DC-in, 6A
- Supports Intel AX210 WiFi 6 via M.2 2230



## Specifications

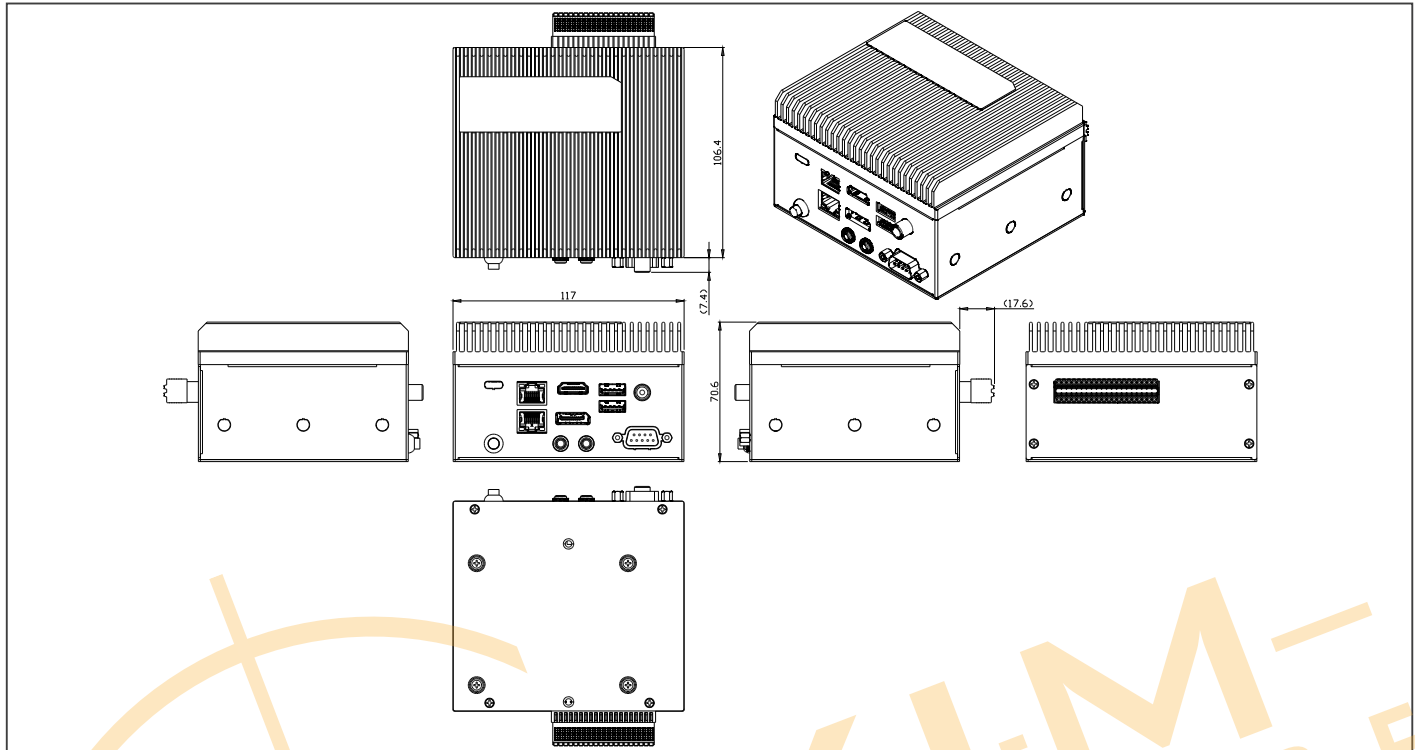
System	
CPU	Intel® Celeron® N6210 Processor SoC Intel® Pentium® J6426 Processor SoC Intel® Atom® X6413E Processor SoC Intel® Atom® X6425RE Processor SoC
Memory	Up to 8GB LPDDR4
Graphics	Intel® UHD Graphics VPU: Hailo-8™ M.2 2280 B+M key AI module via m.2 2280 (Optional by SKU from ordering information)
Storage	Up to 64GB onboard eMMC Optional with M.2 2280 M-key x 1, SATA 6Gb/s x 1
Ethernet	GbE x 1, 2.5GbE x 1 Atom: Intel® i210-IT, i225-IT PC Client: Intel® i211-AT, i225-V
WiFi/BT	Optional with M.2 2230 E-key x 1
Expansion Slot	M.2 2230 E-Key x 1 (PCIe Gen 3.0 [x1], USB 2.0 [x1]) M.2 2280 M-Key x 1 (PCIe Gen 3.0 [x2]) M.2 3052 B-Key x 1 (USB 3.2 Gen 2) Nano SIM slot x 1
Security	TPM 2.0 (Limited to Atom series)
OS Support	Windows® 10 IoT Enterprise Windows IoT Core Ubuntu 20.04 LTS Yocto 3.1
I/O Placements	
USB	USB 3.2 Gen 2 x 2 (Type-A) USB 3.2 Gen 2 x 1 (Type-C) (support OTG) x 1 (Limited to Atom series)
Display Port	HDMI 2.0b x 1, DP 1.2 x 1
Ethernet	GbE x 1, 2.5GbE x 1 Atom: Intel® i210-IT, i225-IT PC Client: Intel® i211-AT, i225-V
COM	RS232/RS422 x 1 (Limited to Atom series)
Audio	Line out x 1, Mic in x 1
GPIO	40 Pin GPIO x 1
Power Supply	
Power requirement	12V DC-in (Lockable plug)
Power supply type	AT/ATX (ATX as default)
Power Consumption(Typical)	Balance current: 24.72W, Max current: 25.92W
Mechanical	
Mounting	VESA Mount/Wall Mount (Optional)
Dimensions (WxHxD)	4.6" x 4.2" x 2.8" (117mm x 106mm x 7 0mm)
Net Weight	1.8 lbs (0.7kg)
Gross Weight	2.31lb (1.05Kg)
Environment	
Operating Temperature	32°F ~ 140°F (0°C ~ 60°) / 0.5 airflow
Operating Humidity	0% ~ 90% relative humidity, non-condensing
Storage Temperature	-4°F ~ 158°F (-20°C ~ 70°C)
MTBF	402,617 Hours
Certification	CE/FCC Class A, RoHS Compliant, REACH

Note: All specifications are subject to change without notice.

# UP Squared 6000 Edge

## Dimension

Unit: mm



## Ordering Information

Part number	CPU	Memory	Storage	USB 3.2 Type C	COM Port	TPM 2.0	LAN	VPU
UPN-EDGE-EHLCN2-A10-0232	Intel® Celeron® N6210 Processor SoC	2GB	32GB	No	No	No	i211-AT / i225-V	—
UPN-EDGE-EHLPJ4-A10-0432	Intel® Pentium® J6426 Processor SoC	4GB	32GB	No	No	No	i211-AT / i225-V	—
UPN-EDGE-EHLX4E-A10-0432	Intel® Atom® X6413E Processor SoC	4GB	32GB	Yes	Yes	Yes	i210-IT / i225-IT	—
UPN-EDGE-EHLX4RE-A10-0864	Intel® Atom® X6425RE Processor SoC	8GB	64GB	Yes	Yes	Yes	i210-IT / i225-IT	—
UPN-EDGE-EHLX4RE-A10-0864-HALO	Intel® Atom® X6425RE Processor SoC	8GB	64GB	Yes	Yes	Yes	i210-IT / i225-IT	Halo-8™ M.2 2280 B+M key AI module via m.2 2280

## Packing List

- 40Pin Phoenix Connector
- Quick Start Guide
- UP Squared 6000 Edge

## Optional Accessories

Part Number	Description
1255X00032	12VDC/6A Adapter
1702031803	Power cord for EU
1702031802	Power cord for US
170203180J	Power cord for UK
170203180E	Power cord for Japan
170203180B	Power cord for China
1702031811	Power cord for Taiwan
9651926001	M.2 2230 WiFi Kit.802.11ac.2.4G/5G,W/BT w/2 cable & antenna
9741364A00	Wireless LAN Kit M.2 2230 802.11ac/a/b/g/n + BT4.0,2T2R,with 2 sets of cable & antenna
UP-SATAKIT-A10-0001	SATA KIT for UPN-EDGE-APL01/UPN-EDGE-EHL01

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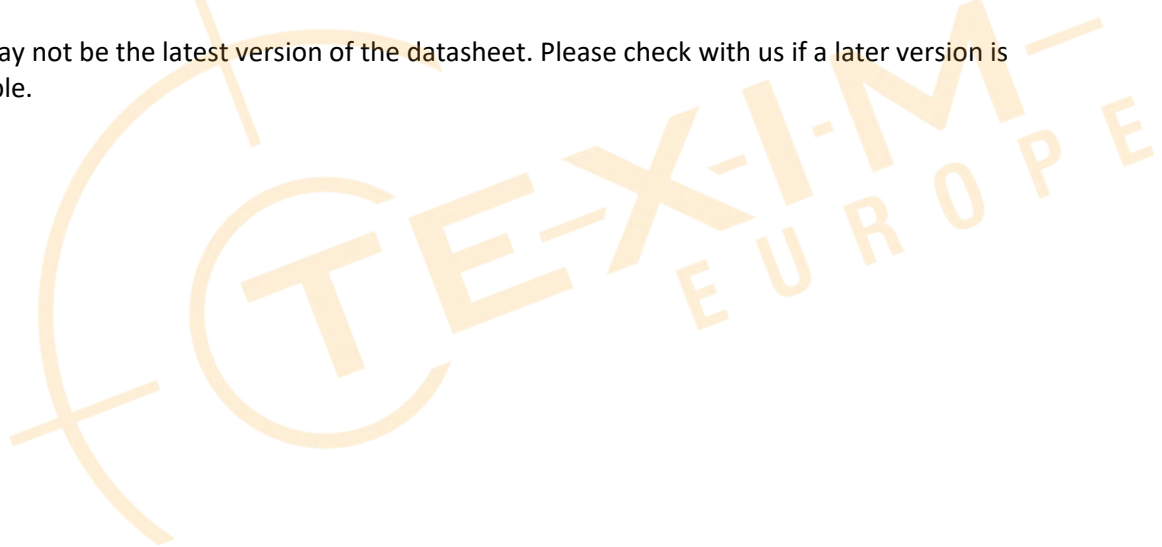
It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application.

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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