

# UP Squared 6000 Edge Computing Kit

UP Squared 6000 Edge Computing Kit with Intel® Atom® Processor SoC



## Features

- Intel® Atom® x6425RE Processor SoC
- Onboard LPDDR4 Memory 8GB
- Onboard eMMC Storage 64GB
- GbE x 3, 2.5GbE x 1
- USB 3.2 x 3 (Type A x 2, Type C x 1)
- 40 pin GPIO x 2 (1x from MB, 1x from CB(PSE))
- DP 1.2 / HDMI 2.0b
- COM x 2 (1x from MB, 1x from CB(PSE))
- M.2 2230 E-Key / M.2 2280 M-Key / 3052 B-Key x 1
- SATA3 x 2 (1x from MB, 1x from CB)
- TPM 2.0
- 12V DC-in, 6A



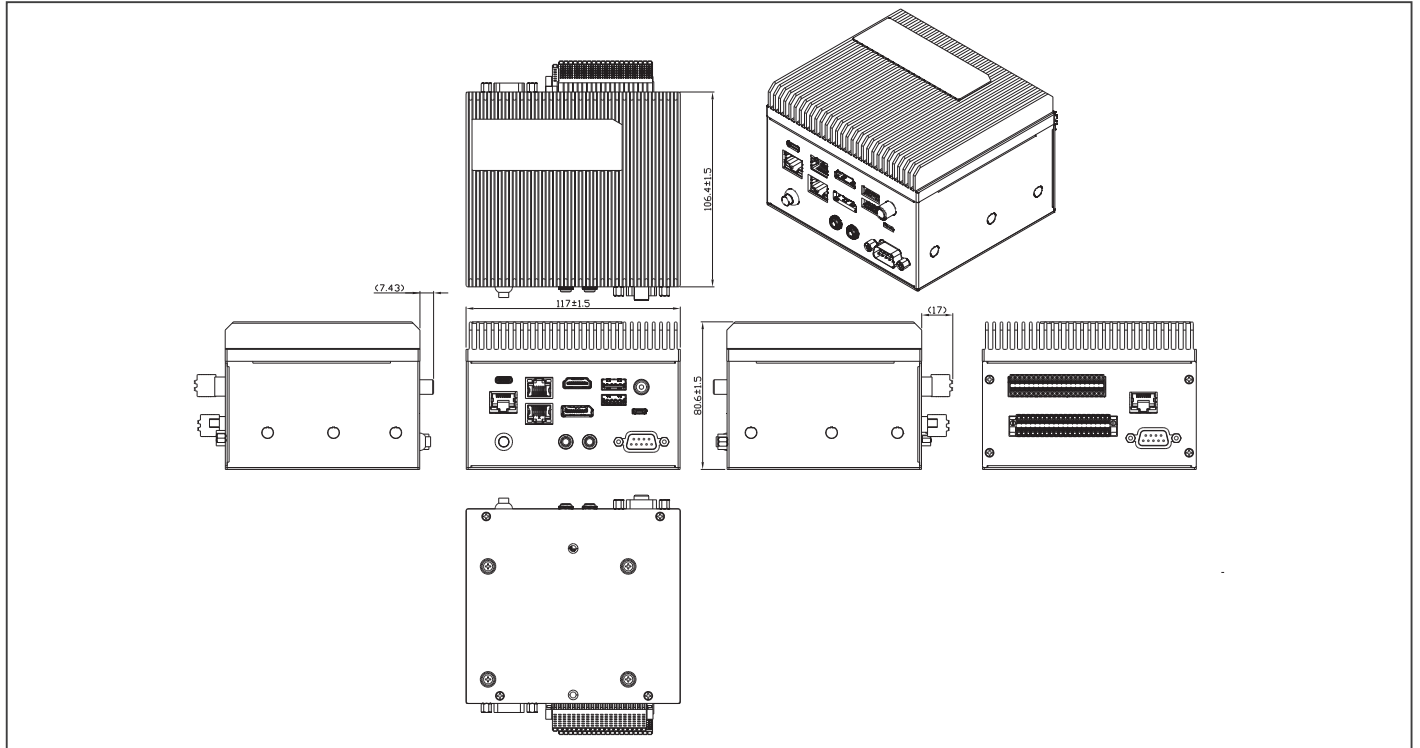
## Specifications

System	
CPU	Intel® Atom® X6425RE Processor SoC
Memory	Onboard 8GB DDR4
Graphics	Intel® UHD Graphics
Storage	Onboard eMMC 64G
Ethernet	GbE x 3 (Intel® i210-IT x 1, Marvell Alaska x 2 from PSE), 2.5GbE x 1 (i225-IT)
WiFi/BT	Optional with M.2 2230 E-key x 1
Audio	Line out x 1 Mic in x 1
USB	USB 3.2 Gen 2 Type A x 2 USB 3.2 Gen 2 Type C (support OTG) x 1 Micro USB (PSE debug port) x 1
Expansion Slot	40 pin GPIO x 2 (1x from MB, 1x from CB(PSE)) M.2 2230 E-key x 1 M.2 2280 PCIe Gen3.0x2 M-key x 1 SATA3 x 2 (1x from MB, 1x from CB) M.2 3052 B-key x 1 Mini PCIe slot x 1 (via USB only) Nano SIM slot x 2 TPM 2.0
I/O Placements	
Power	DC-in Jack x 1, Power Button x 1
USB	USB 3.2 Gen 2 Type A x 2 USB 3.2 Gen 2 Type C (support OTG) x 1 Micro USB (PSE debug port) x 1
Display Port	HDMI 2.0b x 1 DP 1.2 x 1
Ethernet	RJ45 x 4
COM	RS232/RS422 x 1 (From MB) RS232 x 1 (From CB(PSE))
Environment	
Power	12V DC-in (Lockable plug)
Form Factor	4.6" x 4.2" x 3.2" (11.7 x 10.6 x 8.2 cm)
Gross Weight	2.65lb (1.2Kg)
Operating Temperature	32°F ~ 122°F (0°C ~ 50°C)
Operating Humidity	0% ~ 90% relative humidity, non-condensing
Certification	CE/FCC Class A, RoHS Compliant, REACH
OS Support	Preinstalled Software, Ubuntu 20.04 LTS and 5.13 Kernel Intel® Distribution of OpenVINO™ toolkit 2021 Intel® Media SDK, Intel® Distribution for Python* MRAA and UPM I/O and sensor libraries for C++, Python*, Java*, and JavaScript* Docker-CE, k3s Kubernetes, ONNX, AWS Greengrass, SQLite 3 Node.js, cmake, gcc, Openssl, Openssh-server/client, git, vim, tmux

# UP Squared 6000 Edge Computing Kit

## Dimension

Unit: mm



## Ordering Information

Part Number	Description
UPN-EDGE-EHLX4RE-A10-0864-FDK	UP Squared 6000 system. Atom x6425RE CPU. 8GB RAM. 64GB eMMC. FDK image pre-load

## Optional Accessories

Part Number	Description
1255X00032	12VDC/6A Adapter (already included in Kit)
1702031803	Power cord for EU (already included in Kit)
1702031802	Power cord for US (already included in Kit)
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

## Packing List

- UP Squared 6000 Edge Computing Kit
- Quick Start Guide
- 40Pin Phoenix Connector x 2
- 12V/6A Power adapter x 1
- Power Cord for EU x 1
- Power Cord for US x 1
- Ubuntu License sticker x 1