

UP Squared 6000 Edge Computing Kit

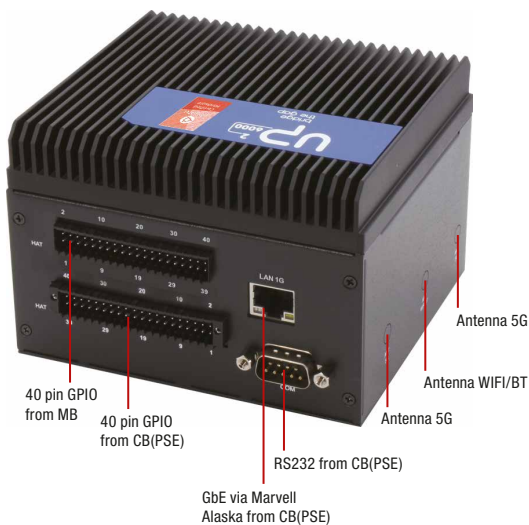
UP Squared 6000 Edge Computing Kit with Intel® Atom® Processor SoC



Front View



Rear View



*CB=Carrier board; MB=Main board

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



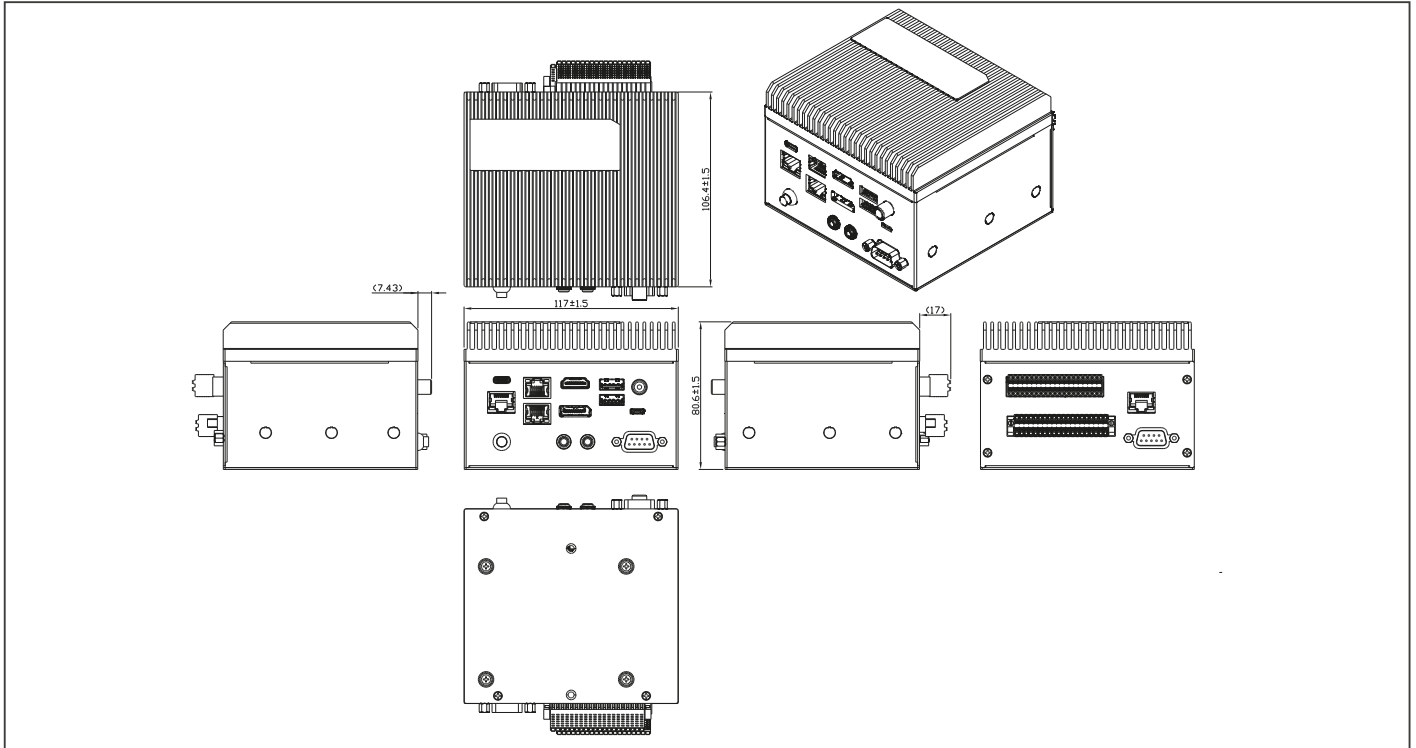
Specifications

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) Micro 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
EP-PS12V6A72WFJ	Power Supply Unit 12V@6A, 72 Watt
EP-PS12V8A96WUPX	Power Supply Unit 12V@8A, 96 Watt
EP-CBPC250V3PEU	Power cord (EU plug)
EP-CBPC125V3PUS	Power cord (U.S. plug)
EP-CBPC250V3PUK	Power cord (UK plug)
RE-WFKIT-9260NVP	Intel® Wireless-AC 9260 M.2 2230 WiFi kit
EP-SSM280256TKS	M.2 SSD 2280 256GB, PCIe Gen3 x 4, M Key, 3D TLC, Kingston
RE-FM5G150NA210	5G module North America M.2 3052 with RF cable and Antenna
RE-FM5G150AE210	5G module Asia(excl China)/Europe/Australia M.2 3052 with RF cable and Antenna

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