

Unleashing the new powerful UP Xtreme i11 Edge Compute Enabling Kit, powered by the 11th Gen Intel® Core™ processors with Iris® Xe graphics.

I/O interfaces include:

3x USB 3.2 Gen 2 (Type A), 1x USB 2.0, 1x USB 4.0 (Type C)\*,  
1x GbLAN (i219), 1x 2.5GbLAN (i225), 1x HDMI 2.0b, 1x DP + 1x DP 1.4 (via USB Type C)\*,  
16-pin GP-bus\*, COM Ports (2x RS232/422/485), M.2 2230 E key, M.2 2280 M key,  
Supports 5G Module (M.2 3042/3052 onboard SIM card slot).

\* These I/Os are removed from Part Number: UPX-EDGE-TGLxx-A10-16128-FDXX-0001

### WHAT'S IN YOUR KIT?



1x UP Xtreme i11 system  
Ubuntu 20.04

Intel® Edge Insights for Vision software package

\* This I/O is removed from PN: UPX-EDGE-TGLxx-A10-16128-FDXX-0001

1x 12V8A (96W) Power Supply  
1x EU power cord  
1x US power cord

#### You will need to have the following:

- A monitor with HDMI or DP, and respective cables.
- USB keyboard and mouse.
- Ethernet cable or WiFi module (optional, to be installed manually).
- UP AI Core XM 2280 M.2 module (optional for UPX-EDGE-TGLxx-A10-16128-FDKTxxxxx, to be installed manually).

\*UPX-EDGE0TGLxx-A10-16128-FDAIxxxxx SKU comes with XM 2280 installed (2x Intel® Movidius™ Myriad™ X)

## 1 GET READY



- The UP Xtreme i11 Edge Compute Enabling Kit (UPX-EDGE-TGLxx-A10-16128-FDxxxxxxx) comes with **active cooling, RTC battery, RAM and storage.**
- The system comes with **Ubuntu 20.04 Desktop preinstalled**, including the Intel® Edge Insights for Vision software package.
- Please follow these steps **carefully** before connecting cables and powering ON the system.

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## 2 CONNECT HARDWARE

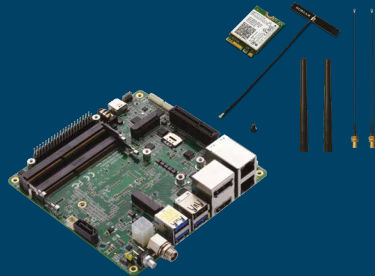


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## 3 SETUP DETAILS

- Connect the monitor with the system powered down.
- Power up the system. The system will turn on automatically and boot into the OS.
- Log in to the Ubuntu 20.04 OS with the following credentials:
  - username: **devkit**
  - password: **devkit**
- If proxy settings are required, you can set them from System Settings > Network > Network Proxy
- Get Started with Edge Insights for Vision:  
<https://www.intel.com/content/www/us/en/developer/articles/training/devkit-gsg21.html>

Caution: **This is a high performance system and may get hot during operation.**



 **M.2 2230 WiFi Kit with UP Xtreme i11**  
Intel® Wireless-AC 9260  
(802.11ac, Bluetooth 5.0)



 **UP AI Core XM 2280 with UP Xtreme i11**  
AI hardware accelerator with 2x Intel® Movidius™  
Myriad X



**QUESTIONS?  
REACH US HERE**



**UP Community**  
<https://www.up-community.org>

## Product Specifications

<b>System</b>	UP Xtreme i11 Edge Compute Enabling Kit
<b>SoC</b>	Intel® Core™ i7-1185GRE (up to 4.4 GHz)
	Intel® Core™ i5-1145GRE (up to 4.1 GHz)
<b># of Cores</b>	Quad Core
<b>Graphics</b>	Intel® Iris® Xe Graphics
<b>VPU</b>	Optional (via M.2 2280)
<b>FPGA</b>	Intel® FPGA Altera Max V for 16-pin GP-bus (Removed from PN: UPX-EDGE-TGLXX-A10-16128-FDXX-0001)
<b>System memory</b>	16GB RAM via 2x 8GB SO-DIMM DDR4
	VERTICAL (3200MT/s)
<b>Storage capacity</b>	128GB SATA SSD via 1x SATA 3.0 connector with power connector
	optional 1x M.2 2280 M key (combo 2x PCIe[x1]) NVME
<b>Power Requirement</b>	DC-IN (12V) lockable power connector
<b>Power Supply Type</b>	AT/ATX (default AT mode)
<b>Power Consumption(Typical)</b>	60W

## China RoHS Requirements

Component Name	Hazardous or Toxic Materials or Elements					
	Lead (Pb)	Mercury (Hg)	Cadmium (Cd)	Chromium (Cr(VI))	Hexavalent biphenyls (PBBS)	Polybrominated diphenyl ethers (PBDEs)
PCB and Components	0	0	0	0	0	0
Wires & Connectors for Ext. Connections	0	0	0	0	0	0
CPU & RAM	0	0	0	0	0	0

This form is prepared in compliance with the provisions of SJ/T 11364.  
 O: The level of toxic or hazardous materials present in this component and its parts is below the limit specified by GB/T 26572.  
 X: The level of toxic or hazardous materials present in the component exceed the limits specified by GB/T 26572, but is still in compliance with EU Directive 2011/65/EU (RoHS 2).

**Notes:**  
 1. The Environment Friendly Use Period indicated by labelling on this product is applicable only to use under normal conditions.  
 2. Individual components including the CPU, RAM/memory, HDD, optical, and PSU are optional.  
 3. LCD Module and Touch Control Module only applies to certain products which feature these components.

## Safety Precaution

Please read the following safety instructions carefully. It is advised that you keep this quick start guide for future references.

1. Take note of all cautions and warnings on the device.
2. Make sure the power source matches the power rating of the device.
3. Position the power cord so that people do not step on it. Do not place anything over the power cord.
4. Always completely disconnect the power before working on the system's hardware.
5. Do not make any connections while the device is powered on. A sudden rush of power may damage sensitive electronic components.
6. If you plan to not use the device for a long time, disconnect it from the power supply to avoid damage by transient over-voltage.
7. Always disconnect this device from any power supply before cleaning.
8. While cleaning, use a damp cloth instead of liquid or spray detergents.
9. Make sure the device is installed near a power outlet and is easily accessible.
10. Keep this device away from humidity.
11. Place the device on a solid surface during installation to prevent it from falling.
12. Do not cover the openings on the chassis. This is to ensure optimal heat dissipation.
13. Keep an eye for high temperatures when the system is running.
14. Do not touch the heat sink or heat spreader when the system is running.
15. Never pour any liquid into the openings. This could cause fire or electric shock.
16. As most electronic components are sensitive to static electrical charge, be sure to ground yourself when installing internal components in any static-shielded containers.
17. If any of the following situations arise, please contact our service personnel:
  - I. Damaged power cord or power supply
  - II. Liquid intrusion through the device
  - III. Exposure to moisture
  - IV. Device is not working as expected or in a manner as described in this quick start guide
  - V. The device is dropped or damaged
  - VI. Any obvious signs of damage on the device
18. Do not operate the device in an uncontrolled environment temperatures beyond 60 °C.
19. Store the device between -40°C to 80°C to prevent damage.

## FCC Statement

This device complies with Part 15 FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received including interference that may cause undesired operation.

**Caution:** There is a danger of explosion if the battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions and your local government's recycling or disposal directives.

**Attention:** Il y a un risque d'explosion si la batterie est remplacée de façon incorrecte. Ne la remplacer qu'avec le même modèle ou équivalent recommandé par le constructeur. Recycler les batteries usées en accord avec les instructions du fabricant et les directives gouvernementales de recyclage.

## Regulatory

