Quick Start Guide
UP Xtreme i11

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

WHAT'S IN YOUR PACKAGE?

1x UP Xtreme i11 board
1x active cooler (installed)
1x RTC battery (installed)

You will Need the Following, Not Included

- 12V Power adapter and Power cord.
- USB drive for OS installation.
- DDR4 SODIMM RAM (max. 64GB).
- Storage unit (SATA or M.2 2280 NVMe® interfaces).
- A monitor with HDMI or DP with 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, to be installed manually).

1 GET READY

Please refer to https://github.com/up-board/up-community/wiki/Setup for instructions on how to prepare the bootable USB drive for your preferred Operating System:

ubuntu®
yocto project
Windows 10

- The UP Xtreme i11 board comes with the already installed active cooler and RTC battery.
- SODIMM RAM (max. 64GB) needs to be purchased separately and installed.
- Storage options (SATA Disk or NVMe® Disk) needs to be purchased separately and installed.
- Please follow the initial installation steps (Step 2 and Step 3) carefully before connecting cables and powering ON the system.

2 INSTALL RAM

3 ADD STORAGE

STORAGE OPTIONS.

1. SATA disk via 1 x SATA 3.0
2. NVMe® SSD via M.2 2280 M key

For connecting the RAM and Storage, please also refer the respective product on how to connect to their respective slots on UP Xtreme i11.

4 CONNECT HARDWARE

After installing both RAM and Storage**, your UP Xtreme i11 Board is now ready with RAM and Storage disks.

** For connecting the RAM and Storage, please also refer the respective product on how to connect to their respective slots on UP Xtreme i11.

5 HARDWARE SETUP DETAILS

1. Prepare a USB bootable drive for your preferred OS (Ubuntu, Yocto, Windows)
2. Insert the USB drive before connecting the 12V DC adapter.
3. Please connect HDMI before powering on the device. Upon receiving power, the board will turn on automatically.
4. The board is set to automatically boot from the inserted USB drive.
5. You do not need to make changes to the BIOS setting to install the operating system.

For more info on the BIOS and how to change the BIOS password, see https://github.com/up-board/up-community/wiki

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

<table>
<thead>
<tr>
<th>System</th>
<th>UP Xtreme Edge Compute Enabling Kit</th>
</tr>
</thead>
<tbody>
<tr>
<td>SoC</td>
<td>Intel® Core™ i7-1185G7 (up to 4.4 GHz)</td>
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<tr>
<td></td>
<td>Intel® Core™ i5-1145G7 (up to 4.1 GHz)</td>
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<tr>
<td></td>
<td>Intel® Core™ i3-1115G4 (up to 3.9 GHz)</td>
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<tr>
<td></td>
<td>Intel® Celeron® 6305E (up to 2.0 GHz)</td>
</tr>
<tr>
<td>Cores</td>
<td>4x Celeron®/G4560X-Dual Core</td>
</tr>
<tr>
<td></td>
<td>i7-1165G7/8/10-1145G7-Quad Core</td>
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<tr>
<td></td>
<td>Intel® UHD Graphics 600, Intel® UHD Graphics 630, Intel® UHD Graphics 640</td>
</tr>
<tr>
<td>VPU</td>
<td>optional (via M.2 2280)</td>
</tr>
<tr>
<td>FPGA</td>
<td>Intel® FPGA Altera Max 7 or 60-pin QG288</td>
</tr>
<tr>
<td>System memory</td>
<td>2x DDR4 2400 512MB/1GB</td>
</tr>
<tr>
<td>Storage capacity</td>
<td>via 1x SATA 3.0 connector with power connector / 1x M.2 2280 M key (combo 2x PCIe[x1]; NVMe)</td>
</tr>
<tr>
<td>Power Requirement</td>
<td>DC-5V(12V) lockable power connector</td>
</tr>
<tr>
<td>Power Supply Type</td>
<td>ATX(12V) (default ATT module)</td>
</tr>
<tr>
<td>Power Consumption(Typical)</td>
<td>52W</td>
</tr>
</tbody>
</table>

China RoHS Requirements

<table>
<thead>
<tr>
<th>Component Name</th>
<th>Hazardous or Toxic Materials or Elements</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCB and Components</td>
<td>0 0 0 0 0 0</td>
</tr>
<tr>
<td>Wires &amp; Connectors for Ext. Connections</td>
<td>0 0 0 0 0 0</td>
</tr>
</tbody>
</table>

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: If a failure should occur, the battery is removed and replaced. Failure to replace the battery. Reason: In case the battery is not replaced, the battery should be replaced by your local government recycling or disposal authorities.

Regulatory

M.2 2230 WIFI Kit with UP Xtreme i11
Intel® Wireless-AC 9560 (802.11ac; Bluetooth 5.0)
UP AI Core XMF 2280 with UP Xtreme i11
AI hardware accelerator with 2x Intel® Modivis™ Myriad X
UP AI Core XP8 with UP Xtreme i11
AI hardware accelerator with 2x Intel® Modivis™ Myriad X

Questions?
Reach us here

UP Community
https://www.up-community.org

Expand your UP Xtreme i11 Board to fit your exact needs

Safety Precaution

Please read the following safety instructions carefully.

1. AI cautions and warnings on the device should be noted.
2. Make sure the power source matches the power rating of the device.
3. Position the power cord so that people cannot 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. No connections should be made when the system is powered with a sudden rush of power as it may damage sensitive electronic components.
6. If the device is not to be used 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 device. 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 to prevent static charge. Use a grounding wrist strap and contain all electronic components in any static-shielded containers.
17. If any of the following situations arise, please contact our service personnel:
   - Damaged power cord or plug
   - Liquid intrusion through the device
   - Exposure to moisture
   - Device is not working as expected or in a manner as described in this manual
   - The device is dropped or damaged
   - Any obvious signs of damage displayed on the device
18. Do not leave this device in an uncontrolled environment with temperatures beyond -40°C to 85°C. The device’s permitted storage temperatures are (-40°C ~ 85°C) in order to prevent damage.

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www.up-board.org/www.up-shop.org/www.up-community.org