What’s in your kit?
- 1x UP Squared board
- 1x active heatsink (attached)
- 1x RTC battery (attached)

You will need the following, not included:
- 5V / 6A Power adapter and power cord
- USB drive for OS installation
- A monitor with either HDMI or DisplayPort
- USB keyboard and mouse
- Ethernet cable or WiFi (purchased separately)

Quick Start Guide

1 Prepare your bootable USB drive
   https://wiki.up-community.org/Setup

2 Connect hardware

   a. Insert the USB drive before connecting the 5V / 6A DC adapter. Upon receiving power, the board will turn on automatically.
   b. The board is set to automatically try to boot from the inserted USB drive.
   c. You do not need to make changes to the BIOS settings to install the operating system.

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

Caution: this is a high-performance board and may get hot during operation.
Optional accessories

**AI hardware accelerator**
UP AI Core X

**mPCIe LTE module kit**
Quectel 4G LTE CAT4 Global module EG-25G

**M.2 2230 WiFi kit**
WiFi 802.11 AC 2T2R Bointec DGF109A

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**Product specifications**

<table>
<thead>
<tr>
<th>System</th>
<th>UP Squared</th>
</tr>
</thead>
<tbody>
<tr>
<td>SoC</td>
<td>Intel® Celeron® N3350 (up to 2.4 GHz)</td>
</tr>
<tr>
<td></td>
<td>Intel® Pentium® N4200 (up to 2.5 GHz)</td>
</tr>
<tr>
<td></td>
<td>Intel® Atom® x5-E3940 (up to 1.86GHz)</td>
</tr>
<tr>
<td></td>
<td>Intel® Atom® x7-E3950 (up to 2.00GHz)</td>
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<tr>
<td># of Cores</td>
<td>N3350-Duo Core</td>
</tr>
<tr>
<td></td>
<td>N4200/E3940/E3950-Quad Core</td>
</tr>
<tr>
<td>Graphics</td>
<td>Intel® HD Graphics 500-N3350/E3940</td>
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<tr>
<td></td>
<td>Intel® HD Graphics 505-N4200/E3950</td>
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<tr>
<td>CPU</td>
<td>Intel Atom® x5-E3940 (up to 2.0Ghz)</td>
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<tr>
<td></td>
<td>Intel Atom® x7-E3950 (up to 2.4Ghz)</td>
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<td></td>
<td>Intel® Pentium® N4200 (up to 2.5 GHz)</td>
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<tr>
<td></td>
<td>Intel® Celeron® N3350 (up to 2.4 GHz)</td>
</tr>
<tr>
<td>System memory</td>
<td>2GB</td>
</tr>
<tr>
<td></td>
<td>4GB</td>
</tr>
<tr>
<td></td>
<td>8GB</td>
</tr>
<tr>
<td>Storage capacity</td>
<td>16GB / 32GB</td>
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<tr>
<td>Power requirement</td>
<td>5V DC-in @ 6A 5.5/2.1mm jack</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>PBBs, PBDEs, Hg, Cd, Cr(VI), Br, HCB, PBBs, PBDEs</td>
</tr>
<tr>
<td>Wires &amp; Connectors for Ext. Connections</td>
<td>PBBs, PBDEs</td>
</tr>
<tr>
<td>CPU &amp; RAM</td>
<td>PBBs, PBDEs</td>
</tr>
</tbody>
</table>

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**Safety Precaution**

Please read the following safety instructions carefully:

1. All 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 shocks.
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:
   - I. Damaged power cord or plug
   - II. Liquid intrusion through the device
   - III. Device is dropped or damaged
   - IV. Device is not working as expected or in a manner as described in this manual
   - V. The device is dropped or damaged
   - VI. Any obvious signs of damage displayed on the device

**FCC Statement**

This device complies with Part 15 FCC Rules. Operation is subject to the following two conditions:

1. The device may not cause harmful interference, and
2. The device must accept any interference received including interference that may cause undesired operation.

Cautions: 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.

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**Regulatory**