UP is a credit card size board with the high performance and low power consumption features of the latest tablet technology: the Intel® Atom™ x5 Z8350 Processors (codename Cherry Trail) 64 bits up to 1.92GHz. The internal GPU is the new Intel Gen 8 HD 400 with 12 Execution Units up to 500MHz to deliver extremely high 3D graphic performance. UP is equipped with 1GB/2GB/4GB DDR3L RAM and 16GB/32GB/64GB eMMC.

UP has 40-pin General Purpose bus which provides the freedom to makers to build up their shield. There are more interfaces available, such as 4x port USB2.0 on connectors, 2x port USB2.0 + 1x UART on header, 1x USB 3.0 OTG, 1x Gbit Ethernet (full speed), 1x DSI/eDP port, 1x Camera (MIPI-CSI), 1x HDMI, RTC.

When it comes to security, UP has Intel security features needed for professional IoT applications such Intel AES New Instructions and Intel Identity Protection Technology.

It’s UP to you to choose which operation system is best for your application. The CPU is supported by Android 6. Marshmallow, Microsoft Windows 10 and we support and enable Linux, through our UP Community.

UP has a standard industrial PC operating temperature range of 32-140°F/0-60°C, which makes it flexible for many applications.

UP is perfect for professional makers.

UP - Applications

Drones
Education
Robotics
Media Center
Internet of Things
Home Automation