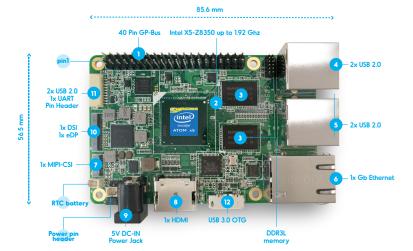


specification



DDR3L

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 HMDI**, **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



Media Center



Education



Internet of Things



Robotics



Home Automation







HDMI

O.

USB 2.0



Intel® Atom™ x5-Z8350 Processor (2M Cache, 1.44 GHz

Graphics

Intel® HD 400 Graphics ,12 EU GEN 8, up to 500MHz Support DX*11.1/12, Open GL*4.2, Open CL*1.2 OGL ES3.0, H.264, HEVC(decode), VP8

Video & Audio

Camera interface

CSI (4 Mega pixel)

USB 2.0

RTC

Power

5V DC-in @ 4A 5.5/2.1mm jack

Dimensions

3.37" x 2.22" / 85.60 mm × 56.5 mm

Operating humidity

10%~80%RH non-condensing

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USB 3.0



₩indows 10





₹CEF© REACH

Memory 1GB / 2GB / 4GB DDR3L-1600

Storage Capacity 16GB eMMC / 32 GB / 64 GB eMMC

Display interface

Ethernet

x Gb Ethernet (full speed) RJ-45

USB 3.0

1x UB3.0 OTG

Expansion

Max V. ADC 8-bit@188ksos

Compatible Operating system

Microsoft Windows 10 full version

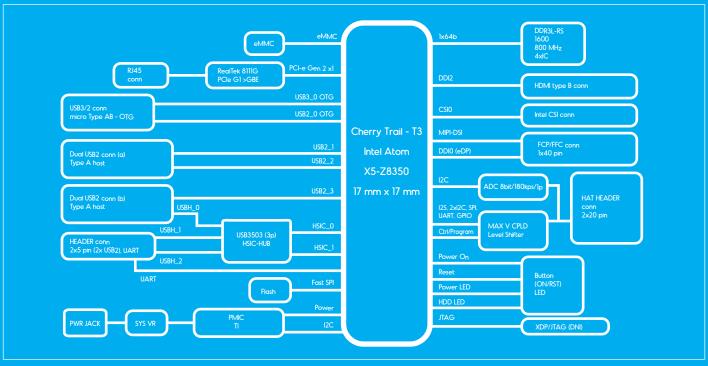
Linux (ubilinux, Ubuntu, Yocto) • Android Marshmallow

Operating Tempature

32-140°F / 0~60°C

Certificate

CE/FCC Class A, RoHS complaint Microsoft Azure certified, REACH



UP - Pinout



UP-CHT01-A10-0116 UP-CHT01-A10-0216 UP-CHT01-A10-0232

1GB RAM+16GB eMMC 2GB RAM+16GB eMMC 2GB RAM+32GB eMMC UP-CHT01-A10-0432 UP-CHT01-A10-0464 4GB RAM+32GB eMMC 4GB RAM+64GB eMMC Optional accessories

Heatsink/RTC battery Power adapter USB3.0 OTG cable HDMI cable