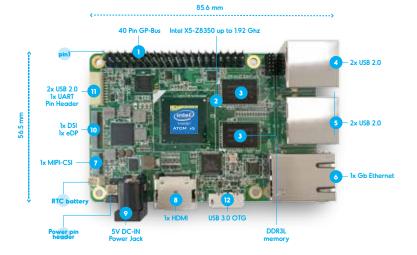


specification

bridge the gap



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 5.0 Lollipop, Microsoft Windows 10 and we support and enable Linux, through our UP

UP has a standard industrial PC operating temperature range of 32-104°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







HOMI

0

—USB 2.0

SOC

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

4x UB2.0 2x USB 2.0 pin header (10 pins in total)

RTC

Power

5V DC-in @ 3A 5.5/2.1mm jack

Dimensions

3.37" x 2.22" / 85.60 mm × 56.5 mm

Operating humidity

10% \sim 80% RH non-condensing







—US 3.0



Windows 10 🖭 🐧



₹CEF©

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

40 pin General Purpose bus, supported by Altera Max V. ADC 8-bit@188ksos

Compatible Operating system

Microsoft Windows 10 full version, Windows IoT Core

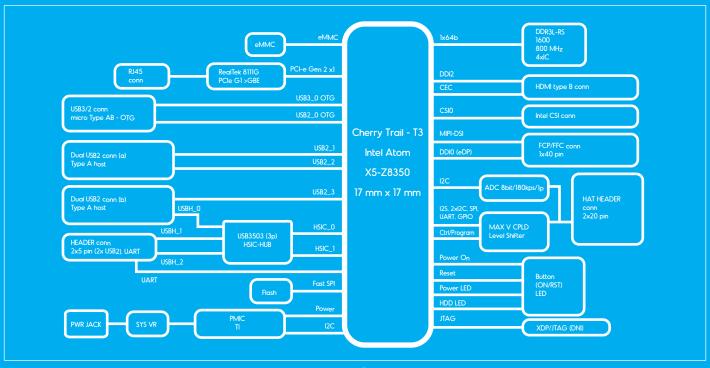
Linux (ubilinux, Ubuntu, Yocto) • Android Lollipop • Brillo

Operating Tempature

32-140°F / 0~60°C

Certificate

CE/FCC Class A, RoHS complaint Microsoft Azure certified



UP - Pinout



UP-CHT04 -A11-0001 UP-CHT04 -A11-0002

1GB RAM+16GB eMMC 2GB RAM+16GB eMMC UP-CHT04 -A11-0003 UP-CHT04 -A11-0004 2GB RAM+32GB eMMC 4GB RAM+32GB eMMC

Included accessories Optional accessories Power adapter USB3.0 OTG cable HDMI cable DSI adapter cable