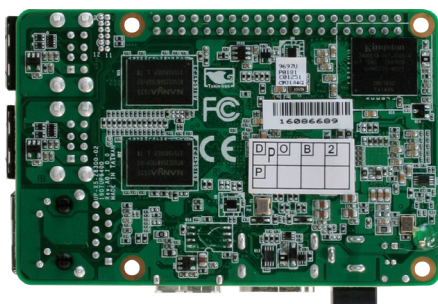
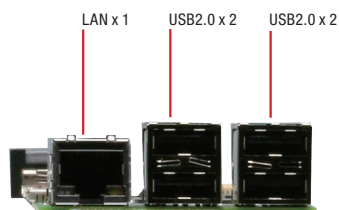
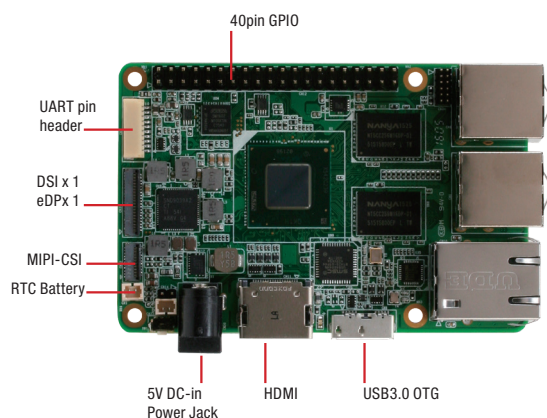


Features

- Intel® Atom™ x5-Z8350 SoC
- Onboard DDR3L Memory up to 4GB
- Onboard eMMC Storage up to 64GB
- Gigabit LAN x 1, USB 2.0 x 4, USB 3.0 x 1, HDMI x 1
- 5V DC-in
- 40 pin GPIO x 1
- DSI/eDP x 1
- MIPI-CSI x 1



Specifications

System	
Processor	Intel® Atom™ x5-Z8350 Processor SoC
Graphics	Intel® HD 400 Graphics, 12 EU GEN 8, up to 500MHz Support DX*11.1/12, Open GL*42, Open CL* 1.2 OGL ES3.0, H.264, HEVC(decode), VP8
I/O	HDMI x 1 I2S Audio port x 1
Camera	MIPI-CSI (4 MEGA pixel)
USB	USB 2.0 x4 USB 2.0 pin header (10 pins in total) x 2 USB3.0 OTG x 1
Expansion	40 pin General Purpose bus, supported by Altera Max V. ADC 8-bit@188ksos
RTC	Yes
Power	5V DC-in @ 4A 5.5/2.1mm jack
Dimension	3.37"x 2.22" (85.6mm x 56.5mm)
Memory	1GB/ 2GB/ 4GB DDR3L-1600
Storage	eMMC 16GB / 32GB/ 64GB
Display Interface	DSI/eDP
Ethernet	Gb Ethernet (full speed) RJ-45 x 1
OS Support	Win 10 Linux (ublinux, Ubuntu, Yocto) Android Marshmallow
Operating Temperature	32°F ~ 140°F (0°C ~ 60°C)
Operation Humidity	10% ~ 80% relative humidity, non-condensing
Certification	CE/FCC Class A, RoHS Compliant

The diagram illustrates the Cherry Trail-T3 17mmx17mm module, which is based on the Intel Atom x5-Z8300 or x5-Z8350 processor. The module is shown with various interfaces and components:

- Top Interface:**
 - eMMC:** 32GB / 16GB storage.
 - Realtek 8111G:** Ethernet controller.
 - PCle Gen.2 X1:** Peripheral Component Interconnect Express interface.
 - ESRS Connector:** External Serial RS connector.
- Left Interface:**
 - Micro USB3.0 Type B:** USB 3.0 interface.
 - DUAL USB Connector Type A1:** USB 2.0 interface.
 - DUAL USB Connector Type A2:** USB 2.0 interface.
 - 1*10 pin Header:** General purpose header.
- Right Interface:**
 - DDR3L-RS 1600:** Random Access Memory (8000x2, Max 2GB, 4xLC).
 - HDMI TYPE B:** HDMI 1.4P 1920x1080 interface.
 - FPC CONNECTOR 1 X 21 PIN:** Flexible Printed Circuit connector.
 - FPC/FPC CONNECTOR 1 X 40 PIN:** Flexible Printed Circuit connector.
 - ADC 8bit/180ksw/1p (ADC081C021):** Analog-to-Digital Converter.
 - PCA9574:** I2C to 1-Wire bridge.
 - MAX V CPLD Level Shifter:** Voltage level shifter.
 - HAT 40 PIN 2*20 Header:** Header for HAT (Hardware Attached To) module.
- Bottom Interface:**
 - DC JACK 5V/3A:** DC power input.
 - SYS VR:** System Voltage Regulator.
 - PMIC T1:** Power Management IC (SAC0853AC1938).
 - Flash ROM:** Non-volatile memory.
 - Fast SPI:** Serial Peripheral Interface.
 - Power Rail:** Power output.
 - I2C:** Inter-Integrated Circuit interface.
- Internal Components:**
 - Switch Button:** Power button and Reset button.

Technical drawing of a mechanical assembly in cross-section. The drawing shows a shaft with a gear mounted on it, housed within a housing. The dimensions are indicated as follows:

- 16.75: Dimension of the housing height.
- 1.6: Dimension of the shaft diameter.
- 2.34: Dimension of the gear thickness.

Part number	Description
UP-CHT01-A20-0116-A11	UP board with z8350 CPU, 1GB RAM+16GB eMMC, passive heatsink
UP-CHT01-A20-0216-A11	UP board with z8350 CPU, 2GB RAM+16GB eMMC, passive heatsink
UP-CHT01-A20-0232-A11	UP board with z8350 CPU, 2GB RAM+32GB eMMC, passive heatsink
UP-CHT01-A20-0432-A11	UP board with z8350 CPU,4GB RAM+32GB eMMC, passive heatsink
UP-CHT01-A20-0464-A11	UP board with z8350 CPU, 4GB RAM+64GB eMMC, passive heatsink

04-10

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