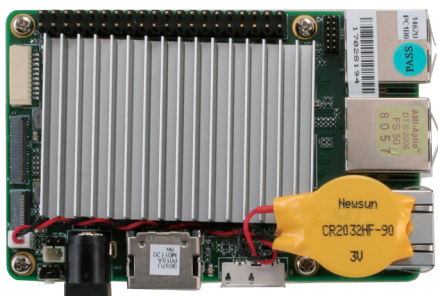
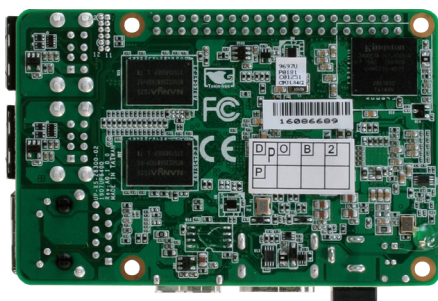
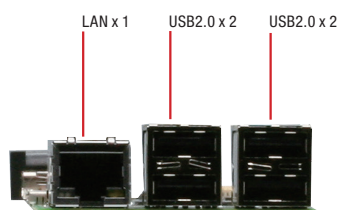
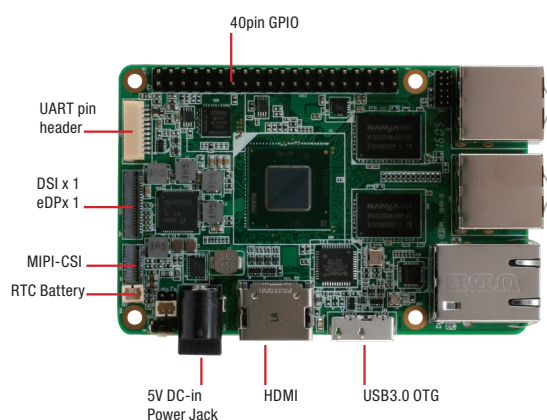


UP Board

UP Developer Board with Intel® Atom™ x5-Z8350 Processor SoC



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



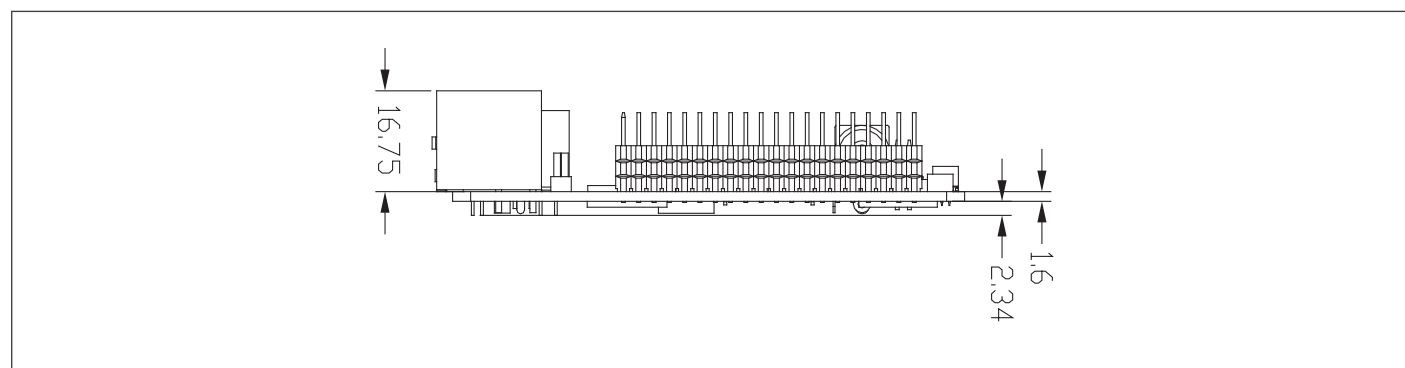
Specifications

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 its various interfaces and components:

- Processor:** Intel Atom x5-Z8300 or x5-Z8350 (17mmx17mm).
- Storage:** eMMC (32GB / 16GB) and Realtek 8111G (PCIe Gen.2 X1).
- Connectivity:**
 - DDR3L-RS 1600 (800MHz, Max 2GB, 4xLC).
 - DDI0 (HDMI TYPE B, HDMI 1.4P 1920x1080).
 - CSI_0 (FPC CONNECTOR 1 X 21 PIN).
 - DSI_0 (FPC/FPC CONNECTOR 1 X 40 PIN).
 - DDI0(eDP).
 - ADC (8bit/180ksw/1p (ADC081C021)).
 - PCA9574 (I2C).
 - MAX V CPLD Level Shifter (3xI2C, SPI, UART, GPIO).
 - Ctrl/Program.
- Input/Output:**
 - ESAS Connector.
 - Micro USB3.0 Type B (OTG, USB3_0, USB2_0).
 - DUAL USB Connector Type A1 (USB2_1, USB2_2).
 - DUAL USB Connector Type A2 (USB2_3, USBH_1).
 - USB HSIC (USBH_2, USBH_3).
 - Flash ROM (Fast SPI).
 - DC JACK (5V/3A) (DC-IN).
 - SYS VR (VSYS).
 - PMIC (TI, SMC5933AC27938).
- Other Components:**
 - Switch Button.
 - HAT 40 PIN (2"x30" Header).
 - Power button.
 - Reset button.

Unit: mm



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

- **UP-CHT01 with Heatsink**

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[AAEON:](#)

[UP-CHT01-A20-0432-A11](#)