

UP Board Introduction



What is Maker



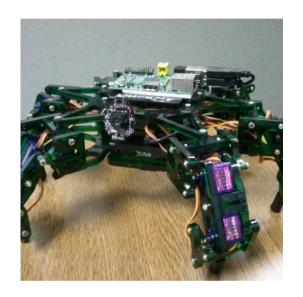


Raspberry Pi 3 model B

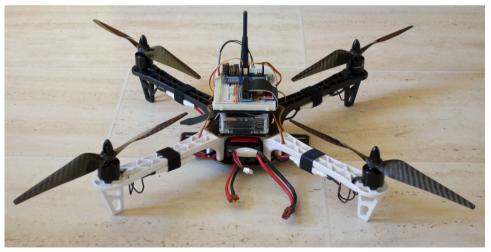
- •5 million units sold world wide each year
- Open source for everyone
- •USD 35 selling price buying online
- •Thousands of add-on HAT modules
- •Do it yourself and make what you want it to be
- •Robots, Drones, Home media center, mini-NAS server... etc



Maker applications







Build it yourself robots and drones plus much more!



Why UP



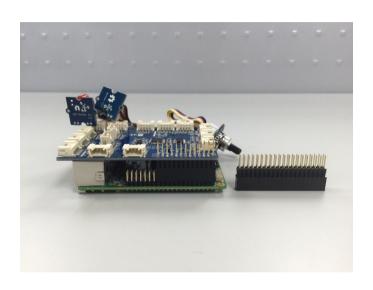


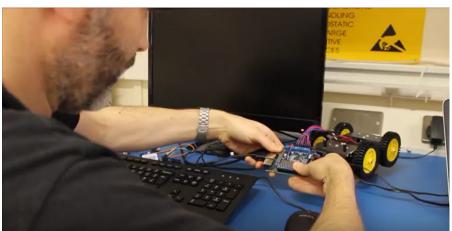
Professional maker + Industrial application

- •For professionals who requires high CPU processing performance and real time response
- •Imagine all you can do with Raspberry Pi and much more, all add-on HAT modules from Pi can be used on UP board
- •6x USB 2.0, 1x USB 3.0, 1x HDMI, 1x eDP, 1x MIPI DSI, 4GB RAM, 64GB eMMC and up to 1.92Ghz Intel x5-Z8350 CPU
- •UP is not only for makers but also industrial application where performance and size is the key factor. At low price as well!



UP with add-on HAT modules





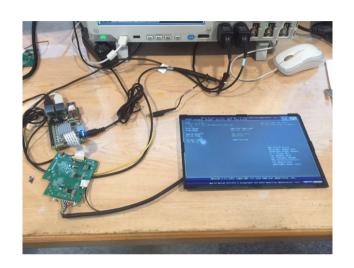
https://youtu.be/NKESXBM0YJ8

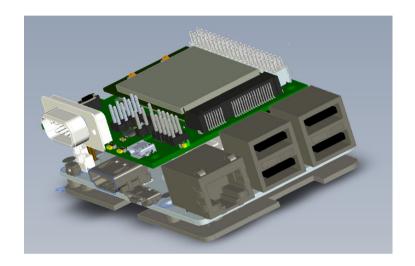
UP supports all available Pi HAT modules plus more multi-function pins

- •In the video we demonstrate UP connecting to a stepper motor HAT module that can control the movement of the wheels in the motor car
- •UP offers more multi-function pins compare to Raspberry Pi which provides more application usage for customized HAT module



UP with add-on HAT modules





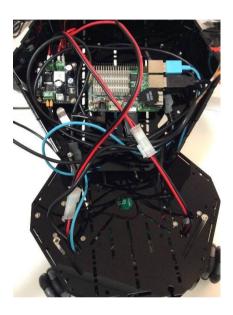
UP supports all available Pi HAT modules plus more multi-function pins

- •With 3G/LTE, WIFI/BT, Lora and other expansion modules through HAT, UP is able to have great flexibility in all types of communication protocols
- •UP also supports MIPI DSI and eDP display panel



Intel application with UP





Intel adapted UP board in their Real Sense kit and Robotics demo

- •Intel Real Sense 3D camera team partner with AAEON to create a Intel Real Sense Kit bundling UP board + Real sense 3D camera to sell as turn key solution for developers
- •Besides Intel Real Sense team, Intel Robotics and Droid team also in discussion of cooperation



Intel IDF announcement with UP



Largest Intel annual event, the Intel IDF will announce partnership with UP

- •AAEON and Intel Real Sense team will sign contract for the Real Sense kit and announce it on Intel IDF, 4/13
- •UP is presented in the rehearsal!



UP Kick starter campaign





UP specs

X86 64bit RTC/ WOL/PXE Industrial operation temp. 0-60 C

3 years available longevity

Customization feasibility

eMMC up to 64GB up to 166MB/s read up to 45 MB/s write

Memory up to 4GB DDR3L

Android Lollipop
Windows 10
Linux,and more

40 pin GP-bus Same Pinout of Raspberry Pi2

14 nm technology 2W SDP CPU

Hardware Security
AES new Instruction

1x USB 3.0 OTG 4x USB 2.0 2x USB2.0 pin header 1 Gb Ethernet

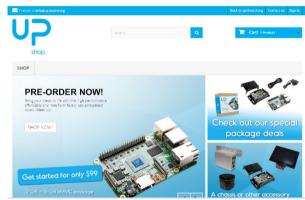
Intel Atom QuadCore x5-Z8350 up to 1.92Ghz Intel HD Gen 8 w/12 Graphic Execution Units HDMI
DSI for LCD/TFT
MIPI for Camera



UP support







Get your UP board



Join the community

Free download Linux OS*/ Windows IoT Core image Free download 3D chassis stp file Free download android sdk

Open block diagram
Open pin definition
Open 3D board stp. file

*limited editions



UP Eco-system



























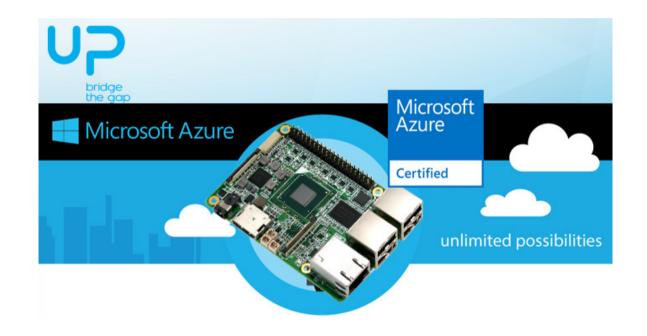






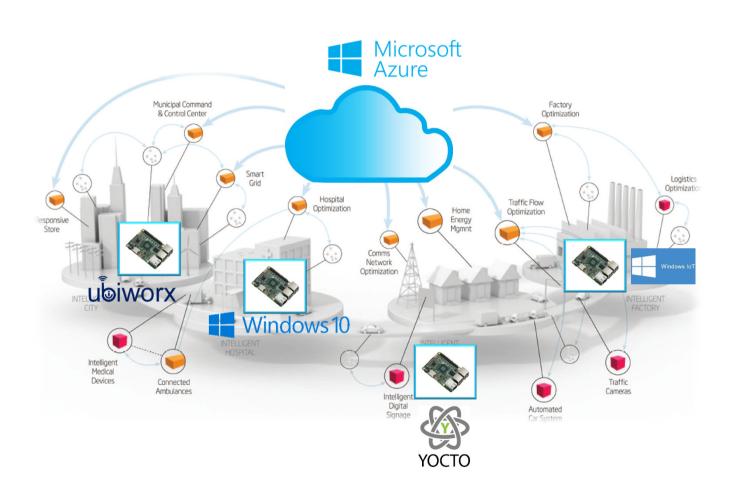


UP with Microsoft Azure certify





UP with IoT



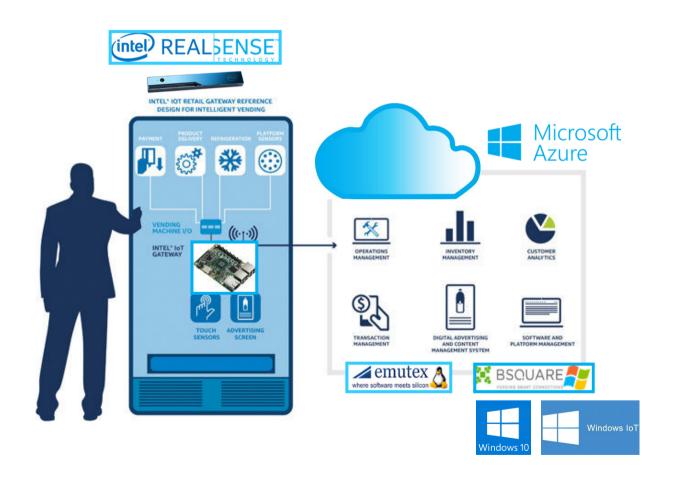


UP in Smart Home





UP in Smart Vending





UP in Digital Signage















Order Information

Packing list

- 1x UP board
- 1x Quick start up guide

	Description	PN
MP	x5-8350, 64 bit 1GB RAM, 16GB eMMC	UP-CHT01-A10-0116
	x5-8350, 64 bit 2GB RAM, 16GB eMMC	UP-CHT01-A10-0216
	x5-8350, 64 bit 2GB RAM, 32GB eMMC	UP-CHT01-A10-0232
	x5-8350, 64 bit 4GB RAM, 32GB eMMC	UP-CHT01-A10-0432
	x5-8350, 64 bit 4GB RAM, 64GB eMMC	UP-CHT01-A10-0464

www.aaeon.com



Selling point

- Credit card size high performance PC board
- Flexible expansion with thousands of HAT modules
- Multifunction pins compare to Raspberry Pi
- Multi-displays support, HDMI, eDP, MIPI DSI
- Extensive I/O ports: 6x USB 2.0, 1x USB 3.0, 1x GbE, UART
- Multi OS support, Windows 8.1/10, Linux, Android
- Community service for any technical issues
- Strong partnership with Intel



