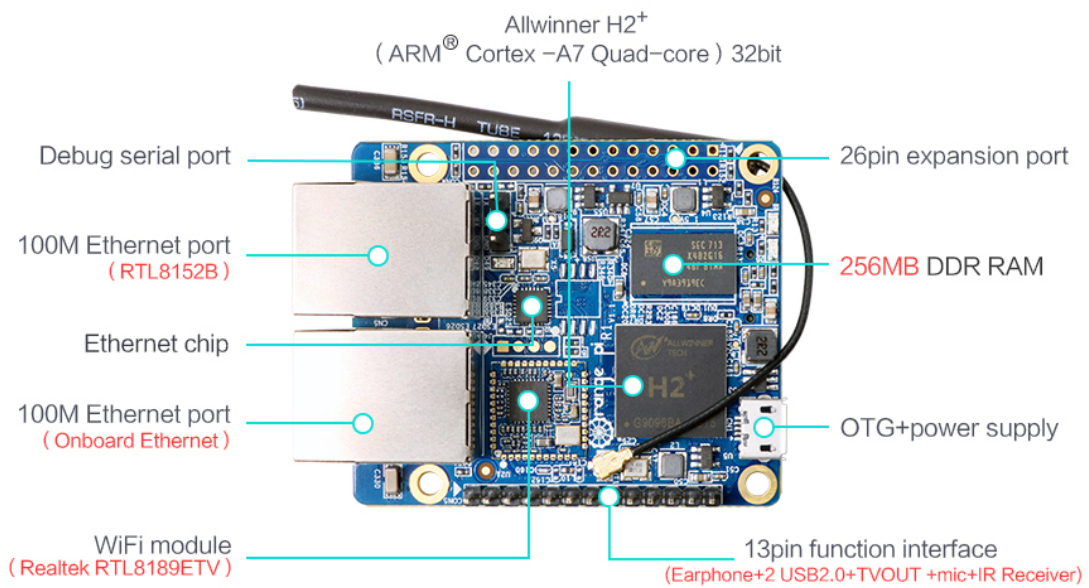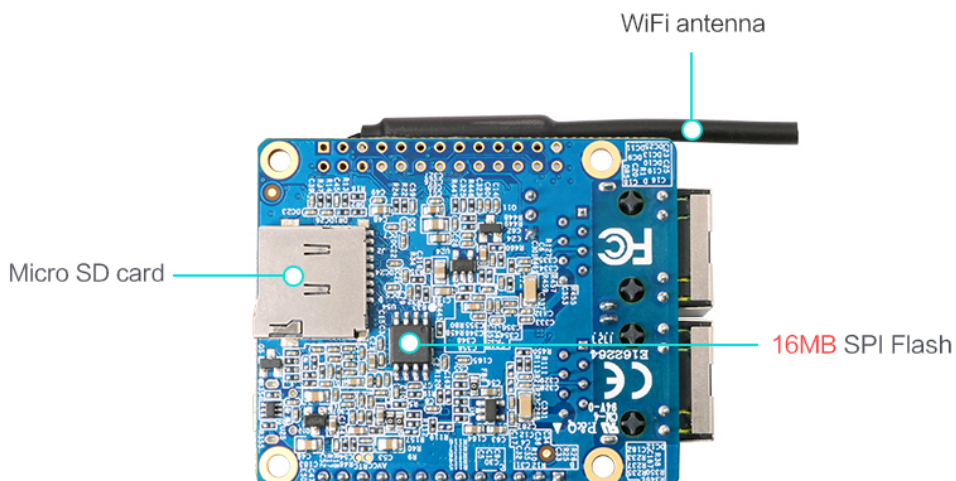## What's Orange Pi R1?

It's an open-source single-board computer. It can run Android 4.4, Ubuntu, Debian. It uses the AllWinner H2$^+$ SoC, and has 256MB DDR3 SDRAM.

Top view

Allwinner H2$^+$
（ARM$^®$ Cortex −A7 Quad−core）32bit

Debug serial port

100M Ethernet port
（RTL8152B）

Ethernet chip

100M Ethernet port
（Onboard Ethernet）

WiFi module
（Realtek RTL8189ETV）

26pin expansion port

256MB DDR RAM

OTG+power supply

13pin function interface
(Earphone+2 USB2.0+TVOUT +mic+IR Receiver)

Bottom view

WiFi antenna

Micro SD card

16MB SPI Flash

Orange Pi R1 is for anyone who wants to start creating with technology – not just consuming it. It's a simple, fun, useful tool that you can use to start taking control of the world around you.

What can I do with Orange Pi R1?

You can use it to build…

- A computer
- A wireless server
- Games
- Music and sounds
- HD video
- A speaker
- Android
- Scratch
- Pretty much anything else, because Orange Pi R1 is open source

Hardware specification:

CPU	H2⁺ Quad-core 32-bit Cortex-A7
GPU	Mali400MP2 GPU @600MHz, Supports OpenGL ES 2.0
Memory （SDRAM）	256MB DDR3 (shared with GPU)
Onboard Storage	TF card (Max. 32GB) / Spi flash(16MB)
Wifi Antenna	Yes
Onboard Network	100M/10M Ethernet RJ45(Onboard Ethernet)
	100M/10M Ethernet RJ45(RTL8152B)
Onboard WIFI	Realtek RTL8189ETV, IEEE 802.11 b/g/n
Audio Input	No
Video Outputs	Supports external board via 13pins
Power Source	USB OTG can supply power
USB 2.0 Ports	one USB 2.0 OTG
Buttons	Power button
GPIO(1x3) pin	UART,ground.
Low-level peripherals	26 Pins Header, compatible with Raspberry Pi B+
	13 Pins Header, with 2x USB, IR pin, AUDIO(MIC, AV)
LED	Power led & Status led
Supported OS	Android4.4, Lubuntu, Debian, Armbian Image