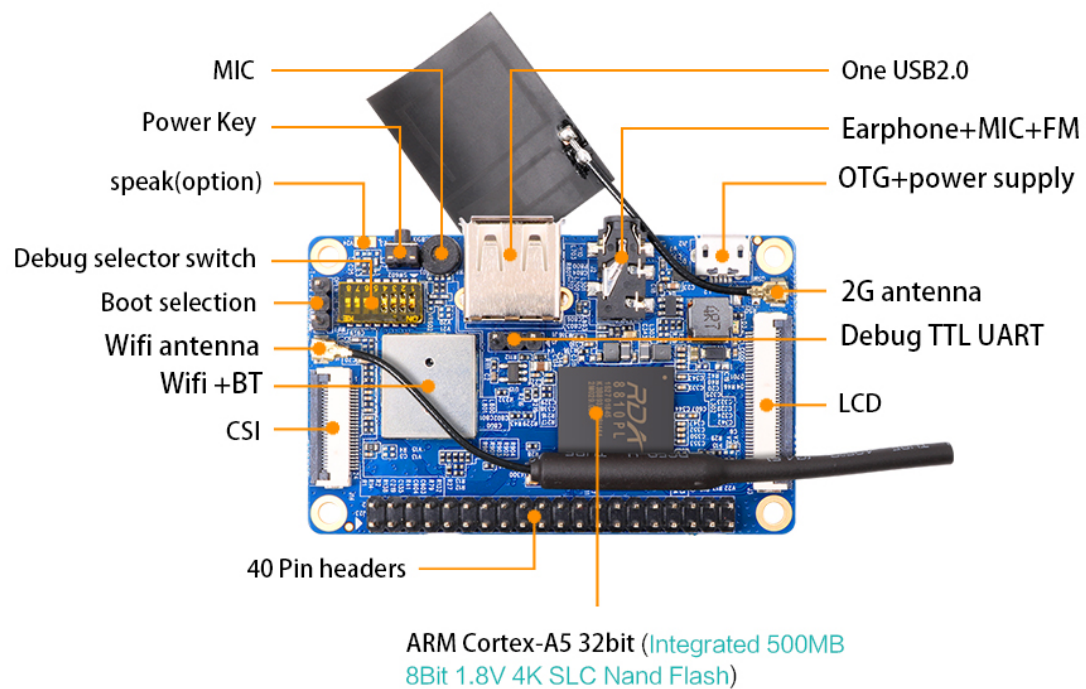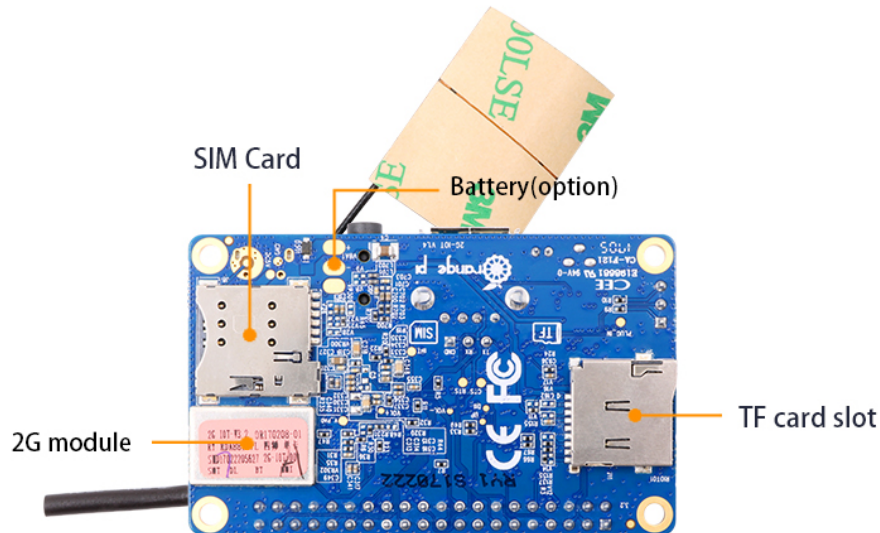## What's Orange Pi 2G-IOT?

It's an open-source single-board computer. It can run Android 4.4, Ubuntu, Debian, Raspbian image. It uses the ARM Cortex-A5 32bit SoC, and has Integrated 256MB LPDDR2 SDRAM

Top view

MIC

Power Key

speak(option)

Debug selector switch

Boot selection

Wifi antenna

Wifi +BT

CSI

One USB2.0

Earphone+MIC+FM

OTG+power supply

2G antenna

Debug TTL UART

LCD

40 Pin headers

ARM Cortex-A5 32bit (Integrated 500MB 8Bit 1.8V 4K SLC Nand Flash)

Bottm view

SIM Card

Battery(option)

2G module

TF card slot

What can I do with Orange Pi 2G-IOT?

Build...
A computer
A wireless server
Games
Music and sounds
HD video
A speaker
Android
Scratch
Pretty much anything else, because Orange Pi 2G-IOT is open source

Who's it for?

Orange Pi 2G-IOT 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.

Hardware specification

CPU	ARM Cortex—A5 32bit
GPU	• Separate graphic processor, Vivante's GC860 • support OpenGLES1.1/2.0 • support OpenVG1.4 • support DirectFB • support GDI/DirecShow • 30M Triangle/s, 250M Pixel/s
Memory (SDRAM)	Integrated 256MB LPDDR2 SDRAM
Onboard Storage	TF card / Integrated 500MB 8Bit 1.8V 4K SLC Nand Flash
Onboard WIFI+BT	RDA5991, WIFI+BT
Video Input	A CSI input connector Camera： Supports 8—bit YUV422 CMOS sensor interface Supports CCIR656 protocol for NTSC and PAL Supports SM pixel camera sensor Supports video capture solution up to 1080p@30fps
Audio Input	MIC、3.5 mm Jack
Video Outputs	LCD
Audio Output	3.5 mm Jack、 FM、SPEAK（Optional）
2G mode	The four frequency single card GSM/GPRS Dedicated accelerators SIM card
USB 2.0 Ports	One USB 2.0 HOST, One USB 2.0 OTG
Power Source	USB OTG input can supply power Battery input can supply power（Optional）
Buttons	Power Button(SW602)
Low—level peripherals	40 Pins Header,compatible with Raspberry Pi B+
GPIO(1x3) pin	UART, ground.
LED	Power led
Supported OS	Android, Ubuntu, Debian, Raspbian image

Interface definition

Product size	68mm × 42mm
Weight	21g