Orange Pi 3 LTS

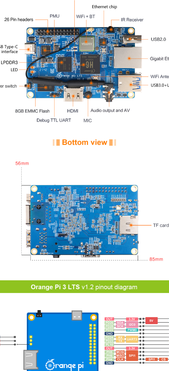
Official website data download:
http://www.orangepi.org/downloadresources/

Product description

What's Orange Pi 3 LTS?

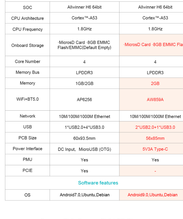
It' s an open-source single board computer. It can run Android 9, Ubuntu, Debian. It uses the Allwinner H6 SoC, and has 2GB LPDDR3 SDRAM.

‖ Top view ‖



‖ Bottom view ‖

Orange Pi 3 LTS v1.2 pinout diagram



Who' s it for?

Orange Pi 3 LTS 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 3 LTS?

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 3 LTS is open source.

Orange Pi 3 VS Orange Pi 3 LTS

Model	Orange Pi 3	Orange Pi 3 LTS
Hardware features		
SOC	Allwinner H6 64bit	Allwinner H6 64bit
CPU Architecture	Cortex™-A53	Cortex™-A53
CPU Frequency	1.8Ghz	1.8Ghz
Onboard Storage	MicroSD Card 8GB EMMC Flash(EMMC/Default Empty)	MicroSD Card 8GB EMMC Flash
Core Number	4	4
Memory Bus	LPDDR3	LPDDR3
Memory	1GB/2GB	2GB
WiFi+BT5.0	AP6256	AW859A
Network	10M/100M/1000M Ethernet	10M/100M/1000M Ethernet
USB	1*USB2.0+4*USB3.0	2*USB2.0+1*USB3.0
PCB Size	65x65.5mm	56x85mm
Power Interface	DC Input、MicroUSB (OTG)	5V3A Type-C
PMU	Yes	Yes
PCIE	Yes	-
Software features		
OS	Android7.0,Ubuntu,Debian	Android9.0,Ubuntu,Debian

Orange Pi 3, Orange Pi 3 LTS Dimension

Hardware specification:

CPU	Allwinner H6 Quad-Core 64-Bit 1.8GHz High-Performance Cortex-A53 Processor
GPU	• High-performance multi-core GPU Mali T720 • OpenGL ES3.1/2.0/1.0/1.1 • Microsoft DirectX 11 FL9_3 • ASTC(Adaptive Scalable Texture Compression) • Floating point operation greater than 75 GFLOPS
RAM	2GB LPDDR3 (Shared with GPU)
Onboard Storage	• Micro SD Card Slot • 8GB EMMC Flash
Onboard Ethernet	• YT8531C Chip • Support 10/100M/1000M Ethernet
Onboard WiFi+Bluetooth	• AW859A Chip • Support IEEE 802.11 a/b/g/n/ac • Support BT5.0
Video Output	• HDMI 2.0a • TV-CVBS Output
Audio Output	• HDMI Output • 3.5mm Audio Port
Power Supply	5V3A Type-C
Power Management Chip	AXP805
USB Port	1* USB 3.0 HOST , 2* USB 2.0 HOST
Low-Level Peripherals	• 26Pin Connector With 1*I2C, 1*SPI, 1*UART & Multiple GPIO Ports
Debug Serial Port	UART-TX、UART-RX & GND
LED	Power LED & Status LED
IR Receiver	Support IR Remote Control
Button	Power Button (SW4)
Supported OS	Android 9.0、Ubuntu、Debian

Appearance specification introduction:

Dimension	56mm×85mm
weight	45g

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Completely open source maker artifact

Orange Pi 3 LTS runs Android

Orange Pi 3 LTS runs Ubuntu / Debian

Product display

Front

Back

45° angle

45° angle

45° angle

FCC WARNING
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
Any changes or modifications not expressly approved by the party responsible for compliance
could void the user's authority to operate the equipment.
NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
-- Reorient or relocate the receiving antenna.
-- Increase the separation between the equipment and receiver.
-- Connect the equipment into an outlet on a circuit different
from that to which the receiver is connected.
-- Consult the dealer or an experienced radio/TV technician for help.
To maintain compliance with FCC's RF Exposure guidelines, This equipment should be installed and operated with minimum distance between 20cm the radiator your body: Use only the supplied antenna.