

Orange Pi Orange Pi 5

Orange Pi 5 16GB Single Board Computer Instruction Manual

Brand: Orange Pi | Model: Orange Pi 5

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1. INTRODUCTION

The Orange Pi 5 is a high-performance single board computer (SBC) designed for a wide range of applications, from embedded systems to mini PCs. It features the Rockchip RK3588S 8-core 64-bit processor, combining quad-core A76 and quad-core A55 architectures, manufactured with an 8nm process. With a main frequency of up to 2.4GHz, integrated ARM Mali-G610 GPU, and a built-in NPU delivering 6 TOPS of computing power, the Orange Pi 5 offers robust processing capabilities. This model comes with 16GB of LPDDR4/4x RAM and supports up to 8K video display processing.

This manual provides essential information for setting up, operating, and maintaining your Orange Pi 5, ensuring you can maximize its potential for your projects.

2. WHAT'S IN THE BOX

Upon opening the package, verify that all components are present:

- Orange Pi 5 16GB Single Board Computer
- 5V4A Type C Power Supply



Image: The Orange Pi 5 single board computer shown alongside its included 5V4A Type C power supply.

3. PRODUCT OVERVIEW

3.1 Key Features

- **Processor:** Rockchip RK3588S, 8-core 64-bit (Quad-core A76 + Quad-core A55), up to 2.4GHz.
- **GPU:** ARM Mali-G610, with high-performance 3D/2D image acceleration.
- **NPU:** Built-in Neural Processing Unit with 6 TOPS computing power for AI applications.
- **Memory:** 16GB LPDDR4/4x RAM.
- **Video Output:** HDMI 2.1 supporting 8K resolution, USB-C (DP1.4), dual MIPI D-PHY video output for multi-screen display.
- **Storage Expansion:** Onboard M.2 PCIe 2.0 interface for NVMe SSDs.
- **Connectivity:** Gigabit LAN port, 2x USB 2.0, 1x USB 3.0, Type-C port.
- **Operating System Support:** Orange Pi OS, Android 12, Debian 11.

Image: Diagram highlighting the core features of the Orange Pi 5, including the RK3588S processor, 16GB LPDDR4/4x RAM, Gigabit Ethernet, HDMI 2.1, 26-pin headers, and Type-C power supply.

3.2 Board Layout and Interfaces

Familiarize yourself with the various ports and components on the Orange Pi 5 board:

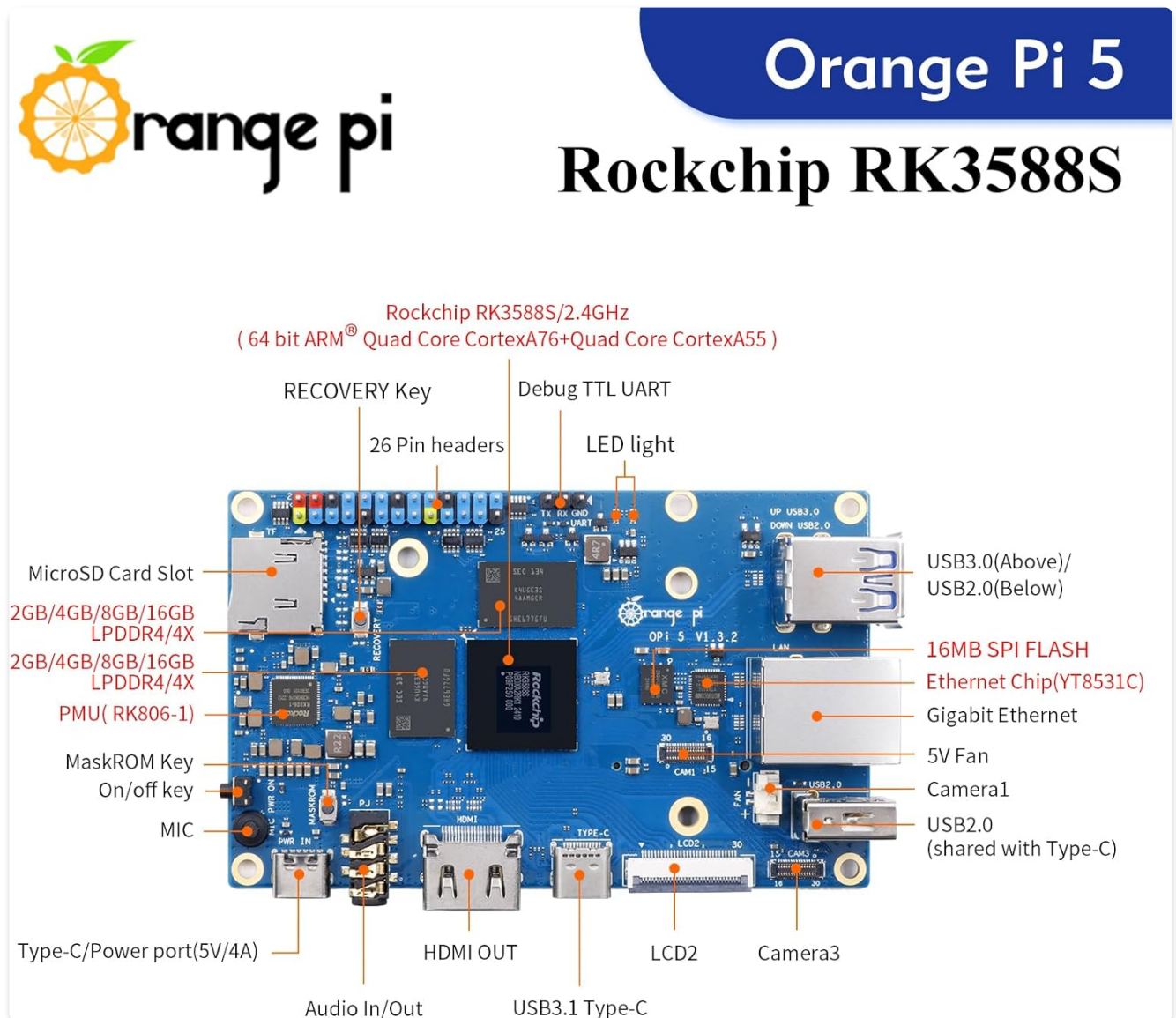


Image: Top view of the Orange Pi 5 board with key components and interfaces labeled, including USB ports, Ethernet, HDMI, Type-C, and GPIO pins.

- **Rockchip RK3588S:** The central processing unit.
- **MicroSD Card Slot:** For booting operating systems or expanding storage.
- **26 Pin Headers:** General Purpose Input/Output (GPIO) pins for connecting external hardware and sensors.
- **HDMI OUT:** For connecting to displays, supporting up to 8K resolution.
- **USB 3.0 (Blue):** High-speed USB port.
- **USB 2.0 (Black):** Standard USB ports.
- **Gigabit Ethernet:** For wired network connectivity.
- **Type-C/Power Supply (5V/4A):** Primary power input and data/display output (DP1.4).
- **M.2 PCIe 2.0:** Slot for NVMe SSD expansion (located on the underside).
- **MIPI D-PHY (Camera/LCD):** Interfaces for camera and display modules.
- **Audio In/Out:** 3.5mm audio jack.

- **Recovery Key:** Button for system recovery or flashing.



Orange Pi 5

Rockchip RK3588S

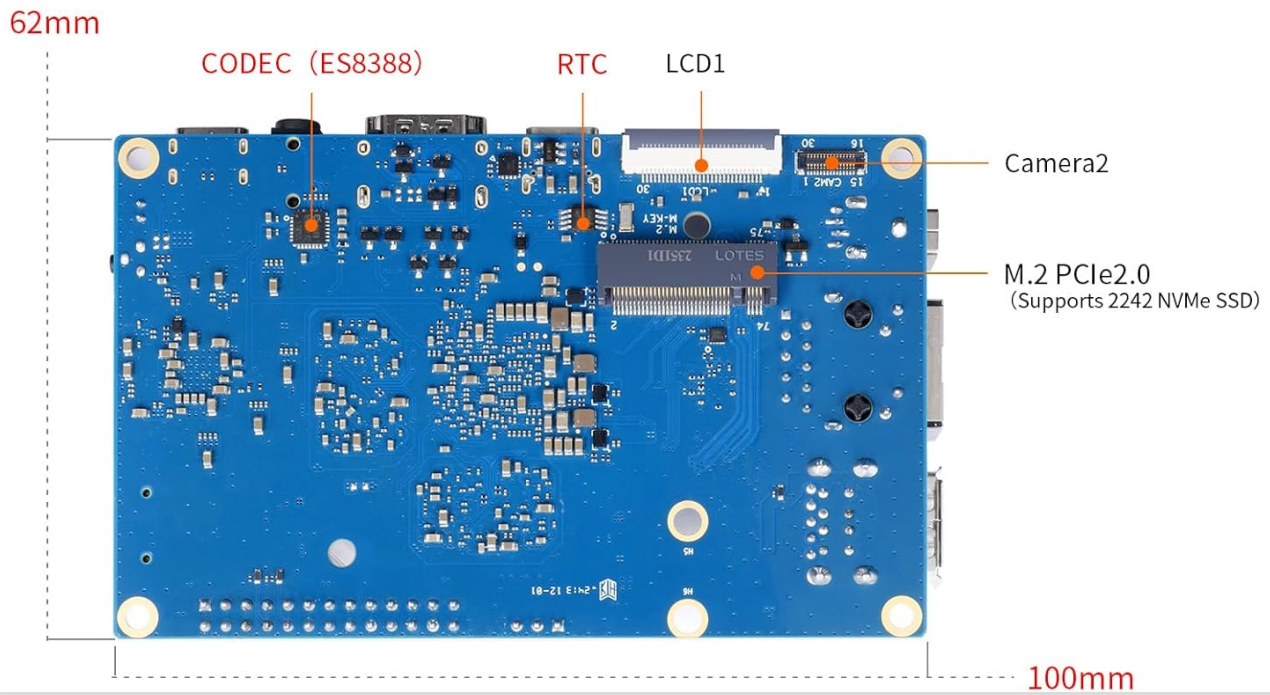


Image: Bottom view of the Orange Pi 5 board, clearly showing the M.2 PCIe 2.0 slot for NVMe SSDs.

Orange Pi 5 v1.3.2 Pin Definition

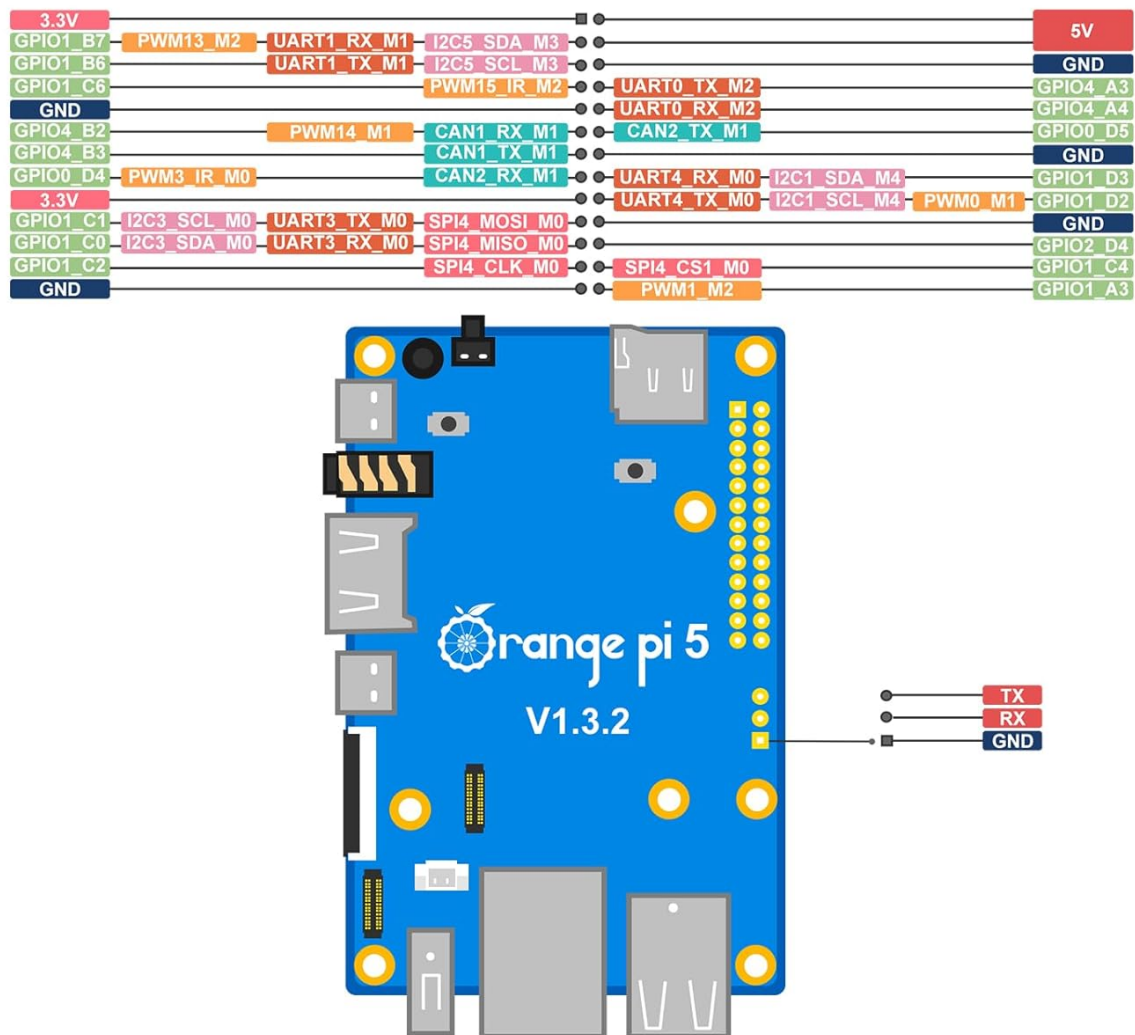


Image: Detailed pin definition diagram for the Orange Pi 5 V1.3.2, illustrating the layout and function of the 26-pin GPIO header.

4. SETUP GUIDE

Follow these steps to get your Orange Pi 5 ready for operation:

- 1. Prepare Storage:** Insert a microSD card with a compatible operating system image, or install an NVMe SSD into the M.2 slot if you plan to boot from it.
- 2. Connect Peripherals:**
 - Connect a display to the HDMI OUT port.
 - Connect a keyboard and mouse to the USB ports.
 - (Optional) Connect an Ethernet cable to the Gigabit LAN port for wired network access.
- 3. Power On:** Connect the included 5V4A Type C power supply to the Type-C power input port on the Orange Pi 5. The board should power on automatically.
- 4. Initial Boot:** The Orange Pi 5 will attempt to boot from the prepared storage device. Follow the on-screen instructions for your chosen operating system.



Image: Close-up of the 5V4A Type C power supply included with the Orange Pi 5, essential for proper operation.

5. OPERATING SYSTEMS

The Orange Pi 5 supports a variety of operating systems, offering flexibility for different use cases:

- **Orange Pi OS:** The official operating system developed by Orange Pi, optimized for their hardware.
- **Android 12:** Enables the Orange Pi 5 to function as a powerful Android mini PC, suitable for media consumption and Android applications.
- **Debian 11:** A popular Linux distribution, providing a stable and versatile environment for development, server applications, and general computing.

For detailed instructions on how to download and flash operating system images to your storage device, please refer to the official Orange Pi documentation and community forums.

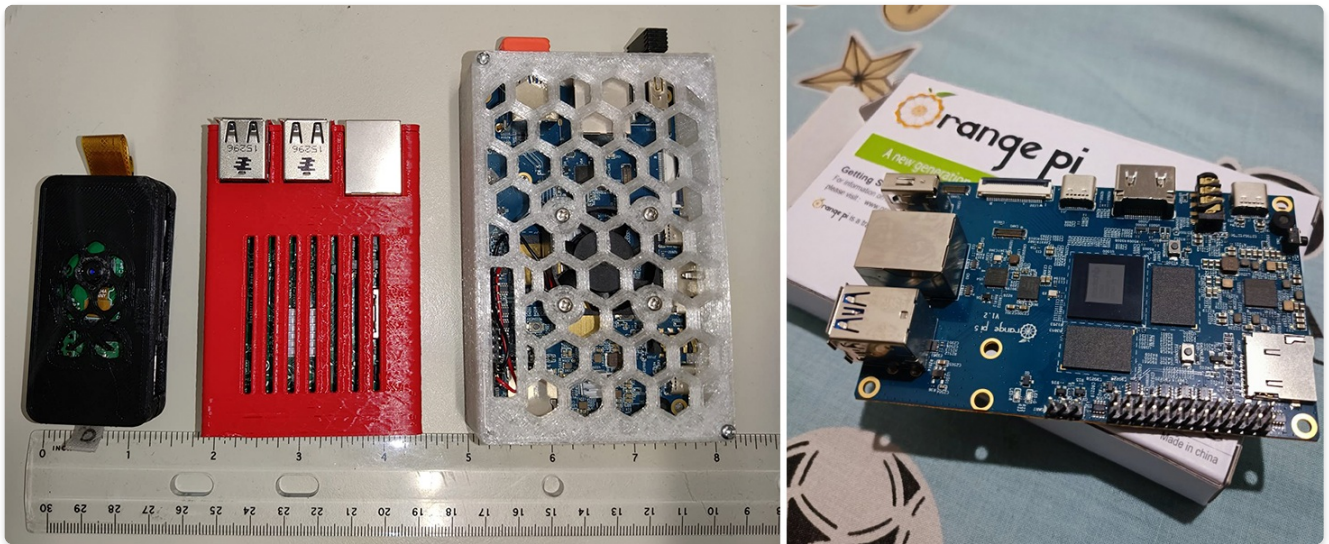


Image: Visual representation of the operating systems supported by Orange Pi 5, including Orange Pi OS, Android 12, and Debian 11.

6. APPLICATIONS AND USE CASES

The versatility and powerful specifications of the Orange Pi 5 make it suitable for numerous applications:

- **Mini PC/Desktop Replacement:** Capable of handling daily computing tasks, web browsing, and office applications.
- **Edge Computing:** Its NPU and processing power are ideal for local data processing and AI inference at the edge.
- **Artificial Intelligence (AI) Development:** A robust platform for developing and deploying AI models.
- **Cloud Computing Clients:** Can serve as a thin client for cloud-based services.
- **AR/VR Applications:** Supports high-resolution video output and processing for augmented and virtual reality projects.
- **Intelligent Security Systems:** Suitable for video surveillance, facial recognition, and other smart security solutions.
- **Home Automation:** Can act as a central hub for smart home devices.
- **Gaming and Emulation:** Capable of running various games and emulators.
- **Wireless Server:** Can be configured as a small-scale server for various purposes.
- **Open Source Projects:** Its open-source nature encourages experimentation and custom development.

Feedback I received:

★★★★★

Chegou tudo certo, funcionando perfeitamente!



Feedback I received:

★★★★★

Plaquinha muito top, dá pra substituir um PC em muitos aspectos. Processador bastante potente



Image: Examples of application scenarios for the Orange Pi 5, including Tablet PC, Edge computing, Artificial intelligence, Cloud computing, AR/VR, and Intelligent security.

7. TECHNICAL SPECIFICATIONS

Feature	Detail
Processor	Rockchip RK3588S (8-core 64-bit, Quad-core A76 + Quad-core A55)
CPU Speed	Up to 2.4 GHz
GPU	ARM Mali-G610
NPU	6 TOPS computing power
RAM	16GB LPDDR4/4x
Video Output	HDMI 2.1 (8K), USB-C (DP1.4), Dual MIPI D-PHY
Storage Expansion	M.2 PCIe 2.0 (for NVMe SSD), microSD Card Slot
Network	Gigabit Ethernet
USB Ports	1x USB 3.0, 2x USB 2.0, 1x Type-C (shared with DP)
GPIO	26-pin header
Operating Systems	Orange Pi OS, Android 12, Debian 11
Dimensions (LxWxH)	3.94 x 2.44 x 1.81 inches (100 x 62 x 46 mm)
Item Weight	9.6 ounces (272 grams)
Power Supply	5V/4A Type-C

8. TROUBLESHOOTING

This section addresses common issues you might encounter with your Orange Pi 5.

8.1 No Power/No Boot

- **Check Power Supply:** Ensure the 5V4A Type C power supply is correctly connected to the board and a working power outlet. Using an underpowered supply can lead to instability or failure to boot.
- **Verify SD Card/SSD:** Confirm that your microSD card or NVMe SSD is properly inserted and contains a valid, uncorrupted operating system image. Try re-flashing the OS image.
- **Power LED:** Check if the power LED on the board illuminates when power is connected. If not, there might be an issue with the power supply or the board itself.

8.2 No Display Output

- **HDMI Cable:** Ensure the HDMI cable is securely connected to both the Orange Pi 5 and your display. Try a different HDMI cable.
- **Display Input:** Confirm your display is set to the correct HDMI input source.
- **OS Configuration:** Some operating systems might require specific display configurations. If you can access the board via SSH or serial console, check display settings.

8.3 Network Connectivity Issues

- **Ethernet Cable:** For wired connections, ensure the Ethernet cable is securely plugged into the Gigabit LAN port and your router/switch. Check router status.
- **Driver Issues:** Verify that the network drivers are correctly installed and enabled within your operating system.

8.4 Overheating

- **Ventilation:** Ensure the board has adequate airflow. Avoid placing it in enclosed spaces without ventilation.
- **Heatsink/Fan:** For prolonged high-load operations, consider adding a heatsink or a small fan to the CPU for better thermal management.

9. MAINTENANCE

Proper maintenance can extend the lifespan and ensure optimal performance of your Orange Pi 5:

- **Keep it Clean:** Regularly clean the board with a soft, dry brush or compressed air to remove dust and debris, especially from heatsinks and connectors.
- **Avoid Moisture:** Keep the board away from liquids and high humidity environments.
- **Stable Power:** Always use the recommended 5V4A Type C power supply to prevent damage from unstable voltage.
- **Software Updates:** Keep your operating system and installed software updated to benefit from performance improvements, bug fixes, and security patches.
- **Handle with Care:** Avoid dropping the board or subjecting it to physical shocks. Handle by the edges to prevent static discharge damage to components.

10. WARRANTY AND SUPPORT

Orange Pi is committed to providing high-quality open-source hardware and intelligent products. For specific warranty information, please refer to the terms and conditions provided at the time of purchase or visit the official Orange Pi website.

For technical support, community discussions, and additional resources, please visit the official Orange Pi website or their dedicated community forums. These platforms offer a wealth of information, tutorials, and peer support to help you with your projects.

Manufacturer: Shenzhen Xunlong Software CO., Limited

Related Documents

Orange Pi 5 Pro Board Orange Pi 5 Pro User Manual 	Orange Pi 5 Pro User Manual: Features, Setup, and Development Guide Comprehensive user manual for the Orange Pi 5 Pro development board. Explore its RK3588S processor, AI capabilities, extensive interfaces, and learn how to install and configure Linux, Android, and OpenWRT operating systems. Ideal for makers and developers.
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Orange Pi 5 Plus Board Orange Pi 5 Plus User Manual 	Orange Pi 5 Plus User Manual Comprehensive user manual for the Orange Pi 5 Plus development board, detailing hardware specifications, operating system installation (Linux, Android, OpenWRT), and usage guides for various features and interfaces.
Orange Pi 3B Board Orange Pi 3B User Manual 	Orange Pi 3B User Manual: Setup, Features, and Testing Guide A comprehensive user manual for the Orange Pi 3B development board. This guide covers hardware features, setup instructions, operating system installation (Linux and Android), and detailed testing procedures for various interfaces and components. Essential for makers and developers working with the RK3566-based SBC.

Documents - Orange Pi – Orange Pi 5

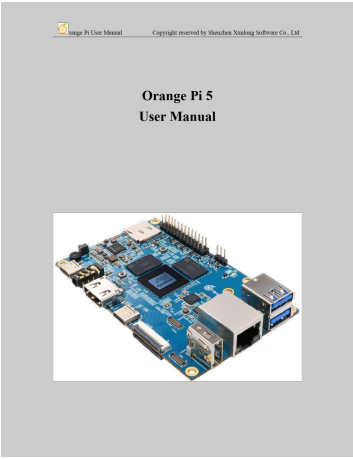


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Orange Pi 5 Plus User Manual



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Orange Pi 5 Pro User Manual



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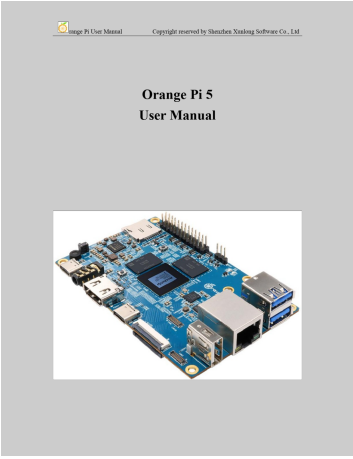
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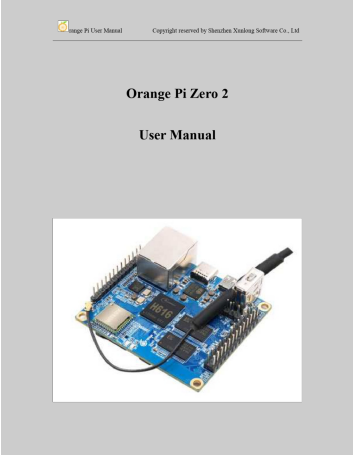
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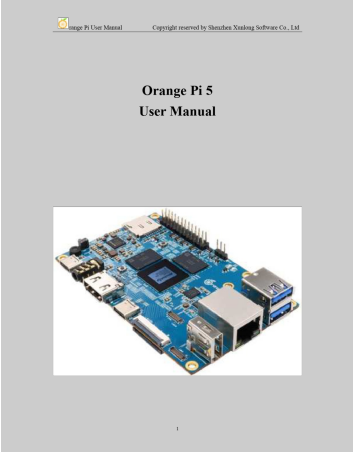
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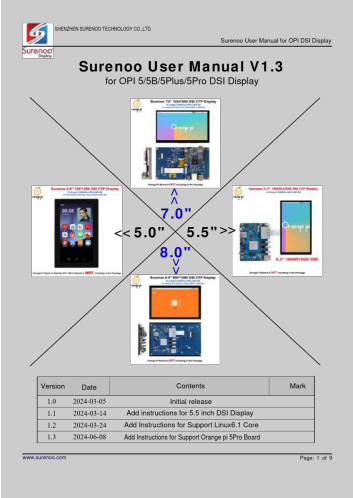
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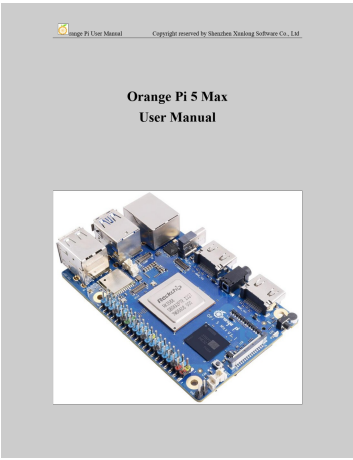
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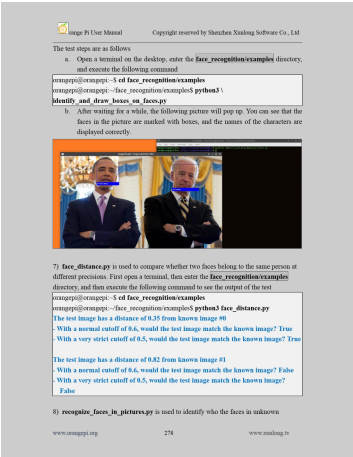
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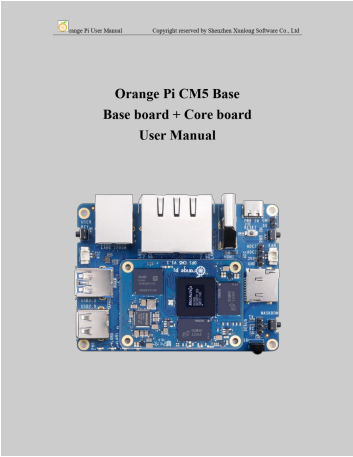


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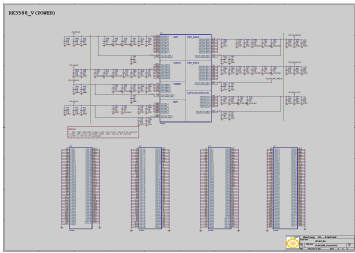


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Raspberry PI Orange Pi Controller Internet of Things IoT Exciting Project Ideas Teamwork Internati ... graceful way so as to minimise the risk of losing data or corrupting files. I recently purchased an **Orange Pi 5 Pro** with a 64GB eMMC and a 512GB NVMe SSD, then installed OpenMediaVault OMV on it to ...

lang:en score:12 filesize: 1.12 M page_count: 11 document date: 2025-04-08

Comparing Edge2 Rock 5A ROC 3588S and Orange Pi5 Pro River 17 mag 2024 — x1 30 Pin 0 5mm FPC			
	Edge2	Rock 5A	ROC 3588S
CPU	Rockchip RK3588	Rockchip RK3588	Rockchip RK3588
GPU	Rockchip Mali-G78	Rockchip Mali-G78	Rockchip Mali-G78
RAM	8GB LPDDR4X	8GB LPDDR4X	8GB LPDDR4X
Storage	16GB eMMC	16GB eMMC	16GB eMMC
Connectivity	4G LTE, Wi-Fi 6, Bluetooth 5.2	4G LTE, Wi-Fi 6, Bluetooth 5.2	4G LTE, Wi-Fi 6, Bluetooth 5.2
Dimensions	115.5 x 51.5 x 15.5 mm	115.5 x 51.5 x 15.5 mm	115.5 x 51.5 x 15.5 mm
Weight	100g	100g	100g
Price	\$120	\$120	\$120
OS	Android 11	Android 11	Android 11
Power	5V 2A	5V 2A	5V 2A
Buttons	Power, Volume	Power, Volume	Power, Volume
Ports	USB-C, USB-A, HDMI, MIPI	USB-C, USB-A, HDMI, MIPI	USB-C, USB-A, HDMI, MIPI
Camera	13MP	13MP	13MP
Audio	3.5mm	3.5mm	3.5mm
Temperature	-40°C to 85°C	-40°C to 85°C	-40°C to 85°C
Compliance	CE, FCC, RoHS	CE, FCC, RoHS	CE, FCC, RoHS

[pdf] Specifications Dimension Guide

Comparing Edge2 Rock 5A ROC 3588S and Orange Pi5 Pro River 17 mag 2024 — x1 30 Pin 0 5mm FPC Connector 4 lane MIPI DSI Interface Resolution up to 4K@60Hz 40 1 pagina comparing edge2 with rock 5a roc 3588s orange pi5 pro dl khadas products specs |||

Comparing Edge2, **Orange Pi 5** Pro, Radxa ROCK 5A, and ROC-RK3588S-PC CPU GPU NPU RAM MCU eMMC SPI Flash MicroSD USB-A USB-C HDMI Media MIPI Expand IO Audio Ethernet Wi-Fi Bluetooth M.2 Button LED FAN RTC Supported OS Operating Conditions Board Dimensions Weight Khadas Only Compliances **Orange Pi 5** P...

lang:en score:11 filesize: 65.36 K page_count: 1 document date: 2024-03-28

Product Line
PI-RACK

Type
RM-PI-T2

Supported Models **RASPBerry PI 5**
ORANGE PI 3B
ORANGE PI 5 PRO

DIMENSIONS 1U
COLOR RAL 9004 Black
PACKING DIMENSIONS 80 x 520 x 270 mm
3.14 x 20.47 x 10.63 in
PRODUCT DIMENSIONS 44 x 482 x 217 mm
height x width x depth 1.73 x 18.98 x 8.54 in

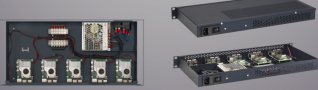


RASPBerry PI

The RM-PI-T2 enables you to securely mount up to five Raspberry Pi 5 in a 1U server cabinet. The rack mount kit is supplied with 75 watt power supply, C13 power outlet and an on- and off switch.

External power cable and Raspberry Pis are not included

MOUNT UP TO FIVE RASPBerry PI 5



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[pdf] Specifications Datasheet Dimension Guide Warranty Accessories Borchure

Rackmount IT RM PI T2 rack accessory Mounting bracket Product Brochure Datasheet 0 6 MB mmo 119812040 1727227324 0438 1857049 objects icecat biz |||

Product Line PI-RACK Type RM-PI-T2 Supported Models RASPBerry PI 5 ORANGE PI 3B **ORANGE PI 5** PRO DIMENSIONS 1U COLOR RAL 9004 Black PACKING DIMENSIONS 80 x 520 x 270 mm 3.14 x 20.47 x 10.63 in PRODUCT DIMENSIONS 44 x 482 x 217 mm height x width x depth 1.73 x 18.98 x 8.54 in RASPBerry PI The RM-P...

lang:en score:10 filesize: 578.42 K page_count: 2 document date: 2024-08-01

Product Line
PI-RACK

Type
RM-PI-T2

Supported Models **RASPBerry PI 5**
ORANGE PI 3B
ORANGE PI 5 PRO

DIMENSIONS 1U
COLOR Metallic Dark Blue
PRODUCT DIMENSIONS 44 x 482 x 217 mm
height x width x depth 1.73 x 18.98 x 8.54 in





MOUNTING INSTRUCTIONS

- Remove the square metal plates in case you want to install a monitor (HDMI) and/or a fan (Raspberry Pi) on the rack. Quantity depending on the amount of Raspberry Pi to be installed.
- Place your Raspberry Pi on the rack with the connectors facing the square holes and use four holes per Raspberry Pi to fix it on the rack.
(To avoid power connection we would advise you to install a grounded cooling fan on each processor.)
- Connect the 2 pins of the power wire to pin 4 and 5 of the Raspberry Pi.
- Use the cable clips to secure the cable to the bracket.
- Place the kit on the rack and slide it towards the front until it is fully closed.
- Use the M4x12 screws to fix the kit to the rack. The square holes are located on the back of the rack.
- Plug in the power cord and then turn on the power with the power switch on the back of the rack.
- Place your Pi Rack in your 19 inch rack.

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PACKAGE CONTENTS

Qty	Description
1	Pi Rack
20	4x M4x12 Screws
7	2x Fan
7	Cable clip

Consider the environment,
recycle where applicable.

For more information on recycling, please visit: www.rackmount.it

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[pdf] Installation Guide Instructions Dimension Guide Guide Accessories

Rackmount IT RM PI T2 rack accessory Mounting bracket InstallGuide 0 6 MB mmo 119812040 1727227331 8661 2018756 objects icecat biz |||

Product Line PI-RACK Type RM-PI-T2 Supported Models RASPBerry PI ORANGE PI 3B 4 **ORANGE PI 5** PRO DIMENSIONS 1U COLOR Metallic Dark Blue PRODUCT DIMENSIONS 44 x 482 x 217 mm height x width x depth 1.73 x 18.98 x 8.54 in MOUNTING INSTRUCTIONS 1. Remove the square metal plates in case you want ...

lang:en score:10 filesize: 572.51 K page_count: 2 document date: 2024-09-13



[\[pdf\]](#) Confidentiality Request Letter

World Leading IoT Product and Solution Provider BRUCE LEO CODICO Mar 1 2025 · * 3 5mm

Headphone Jack HDMI OUT with Audio Connectivity UGREEN USB C Power Supply 65W Linux tcom
rubik pi product brief v1 1459177 8 codico de mpattachment file id 1410 |||

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Thundercomm Technology Co ... rchase external SD card separately 85 mm x 56 mm

Raspberry Pi OS Android Ubuntu Media Play OS ... **Orange Pi 5** Plus Rockchip RK
3588 8nm 4 x Arm A76 2.4GHz 4 x Arm A55 1.8GHz Mail G610MP4 6 Tops 8GB...

lang:en **score:9** filesize: 1.39 M page_count: 9 document date: 2025-01-03