

Orange Pi Orange Pi 5

Orange Pi 5 4GB Rockchip RK3588S Single Board Computer User Manual

Model: Orange Pi 5 (4GB RAM variant)

1. INTRODUCTION

This manual provides comprehensive instructions for the Orange Pi 5 4GB Single Board Computer. The Orange Pi 5 is a high-performance, open-source development board designed for a wide range of applications, including edge computing, artificial intelligence, cloud computing, AR/VR, intelligent security, and smart home systems.

It features a Rockchip RK3588S 8-core 64-bit processor (quad-core A76 + quad-core A55) with a main frequency up to 2.4GHz, an integrated ARM Mali-G610 GPU, and a built-in NPU with 6Tops computing power. This model comes with 4GB of LPDDR4/4x RAM and supports 8K display processing capabilities.



Figure 1: Orange Pi 5 4GB Single Board Computer and included 5V4A Type-C power supply.

2. What's in the Box

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

- Orange Pi 5 4GB Single Board Computer
- 5V4A Type C Power Supply



Figure 2: The included 5V4A Type-C power supply.

3. PRODUCT OVERVIEW

The Orange Pi 5 board is equipped with various ports and components to facilitate its functionality. Familiarize yourself with the layout below.

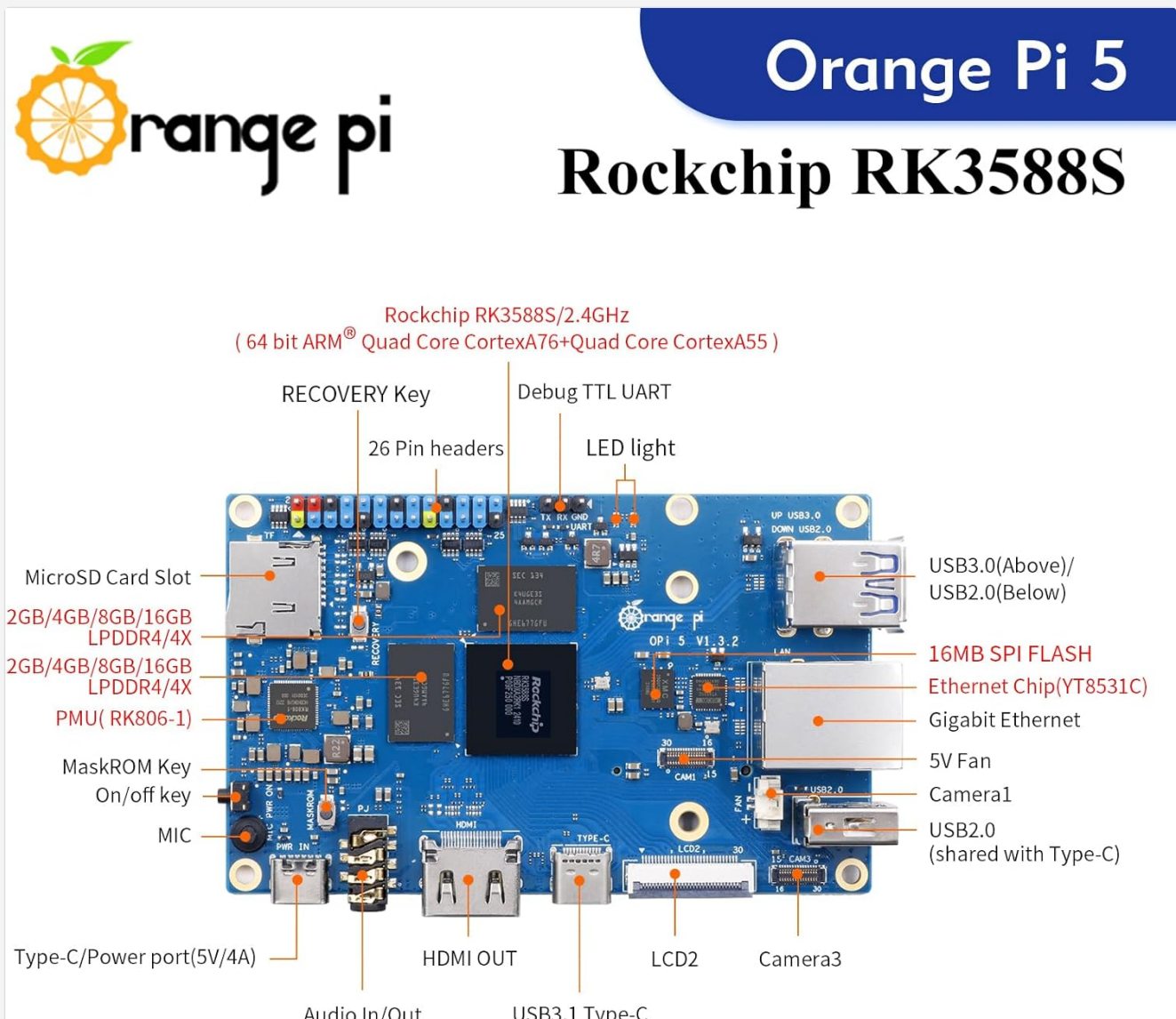


Figure 3: Top view of the Orange Pi 5 board, highlighting key components such as the Rockchip RK3588S processor, RAM modules, USB ports (USB 3.0, USB 2.0), Gigabit Ethernet, HDMI output, Type-C port (power/DP1.4), MicroSD card slot, 26-pin headers, and camera interfaces.

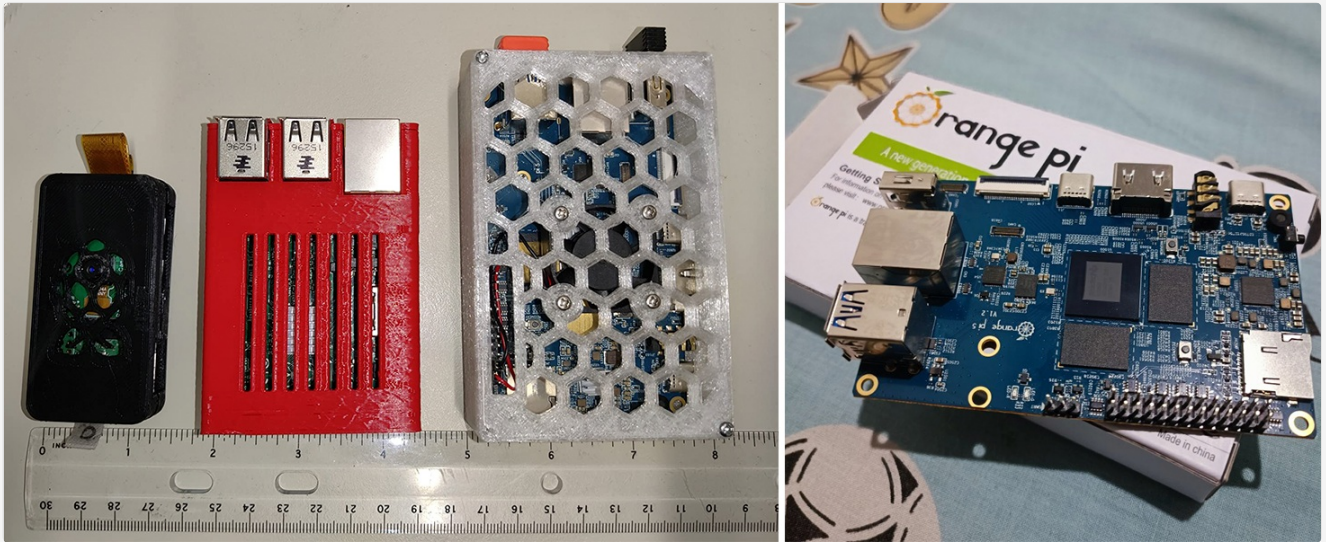


Figure 4: Diagram illustrating the core features of the Orange Pi 5, including the RK3588S CPU, 4GB LPDDR4/4x RAM, Gigabit Ethernet, HDMI 2.1, 26-pin headers, and Type-C power supply.

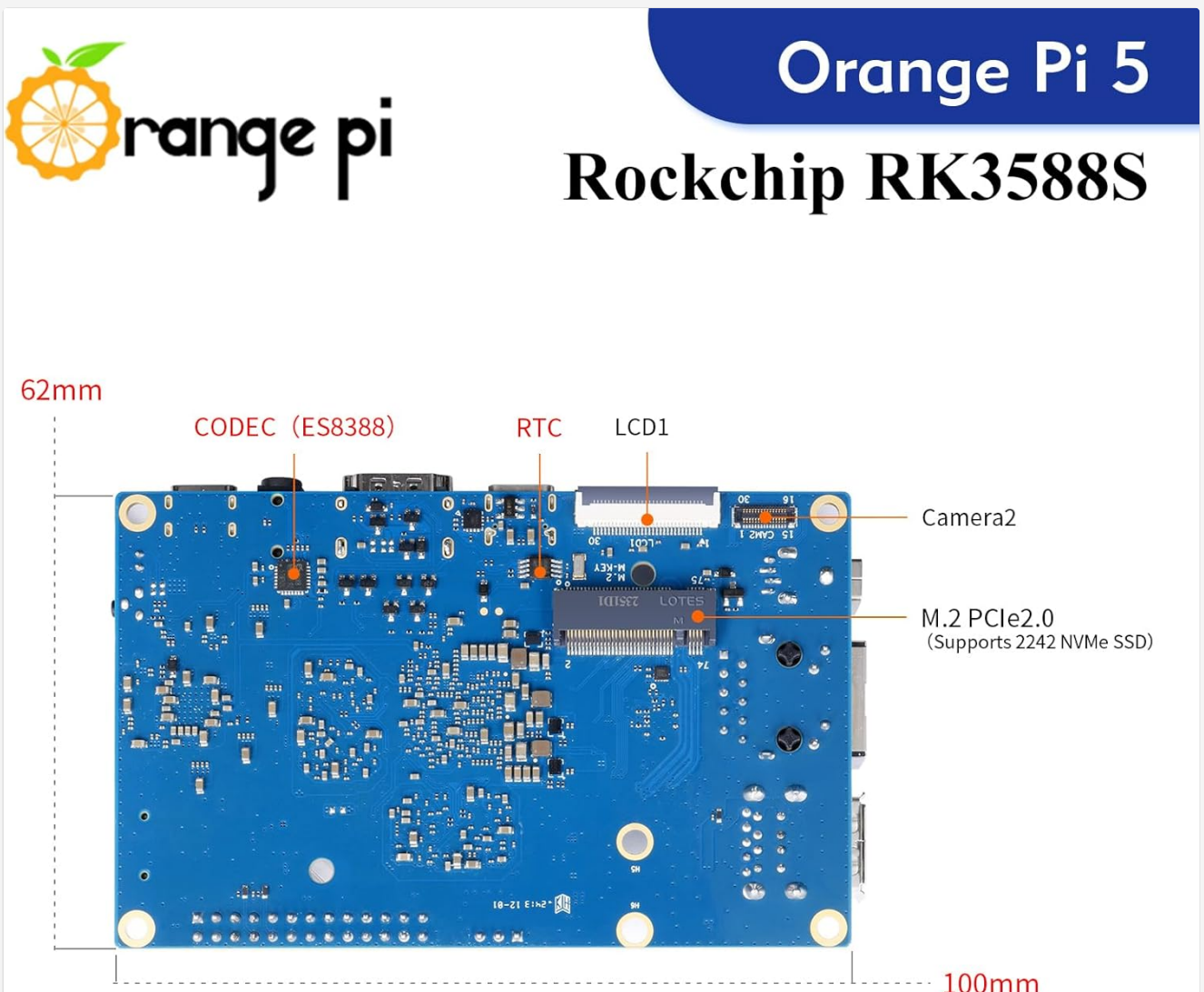


Figure 5: Bottom view of the Orange Pi 5 board, featuring the M.2 PCIe 2.0 interface for NVMe SSDs, CODEC (ES8388), RTC, and additional camera interfaces.

3.1. Key Interfaces and Components

- **Processor:** Rockchip RK3588S (8-core, 64-bit, up to 2.4GHz)
- **GPU:** ARM Mali-G610

- **NPU:** 6Tops computing power
- **RAM:** 4GB LPDDR4/4x
- **Video Output:** HDMI 2.1 (8K support), USB-C (DP1.4), Dual MIPI D-PHY
- **Storage:** MicroSD Card Slot, M.2 PCIe 2.0 (supports 2242 NVMe SSDs)
- **Networking:** Gigabit LAN port
- **USB Ports:** 1x USB 3.0, 2x USB 2.0, 1x Type-C (power/DP1.4)
- **GPIO:** 26-pin header for general purpose input/output
- **Camera Interfaces:** Multiple MIPI CSI interfaces (CAM1, CAM2, CAM3)
- **Audio:** Audio In/Out jack

Orange Pi 5 v1.3.2 Pin Definition

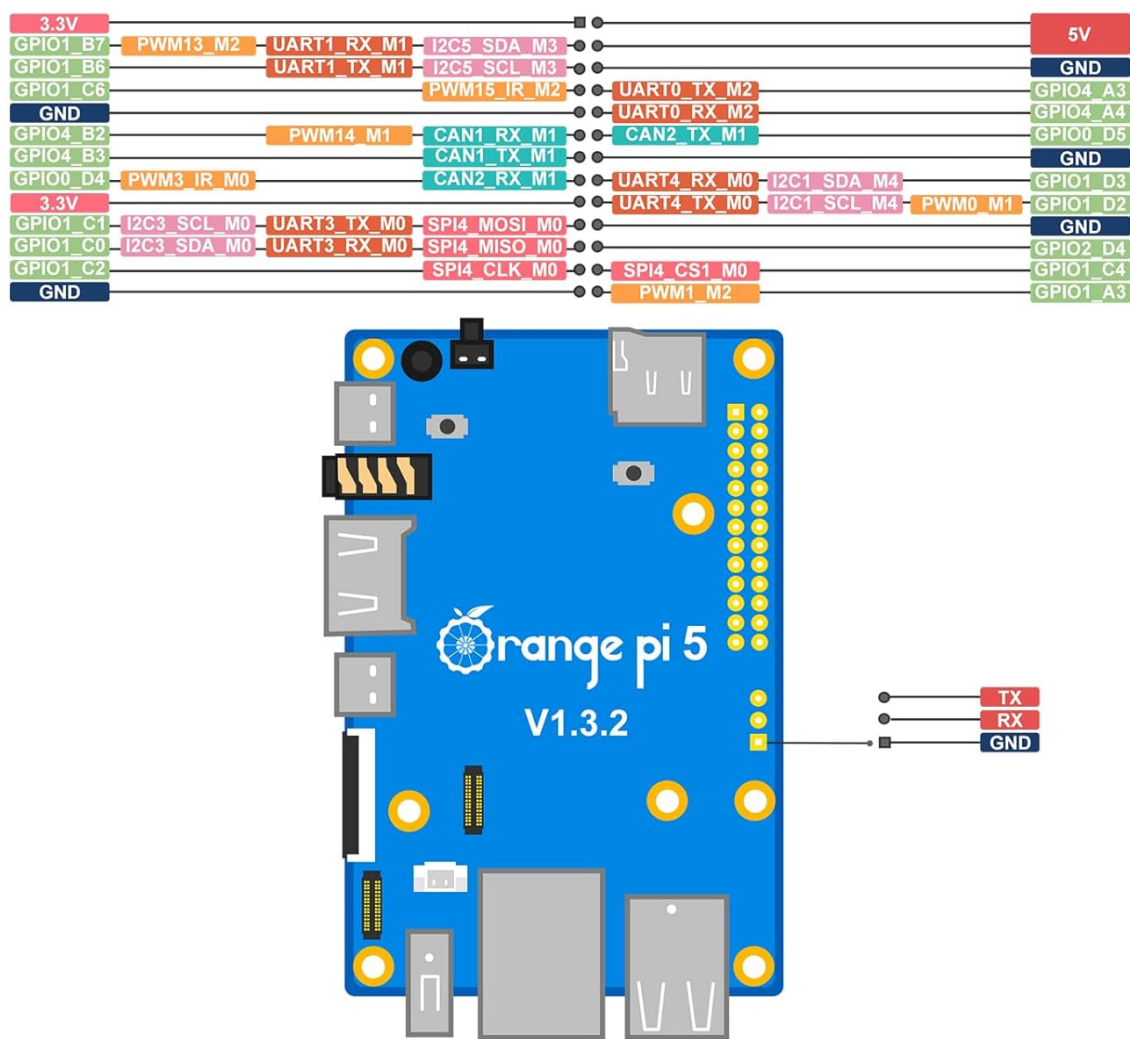


Figure 6: Pin definition diagram for the Orange Pi 5 v1.3.2, detailing the GPIO, UART, I2C, SPI, and PWM pins.

4. SPECIFICATIONS

Feature	Detail
Processor	Rockchip RK3588S, 8-core (Quad-core A76 + Quad-core A55), 64-bit, up to 2.4 GHz
GPU	ARM Mali-G610

Feature	Detail
NPU	6 TOPS
RAM	4GB LPDDR4/4x
Storage Support	MicroSD card slot, M.2 PCIe 2.0 (for NVMe SSD)
Video Output	HDMI 2.1 (8K@60Hz), USB-C (DP1.4), Dual MIPI D-PHY
Networking	Gigabit Ethernet
USB Ports	1x USB 3.0, 2x USB 2.0, 1x Type-C (Power/DP1.4)
GPIO	26-pin header
Operating Systems	Orange Pi OS, Android 12, Debian 11
Dimensions	Approximately 7.44 x 4.02 x 2.72 inches (Package Dimensions)
Weight	Approximately 8.8 ounces

5. SETUP GUIDE

Follow these steps to set up your Orange Pi 5:

1. Prepare Storage:

The Orange Pi 5 requires an operating system to function. You can install an OS onto a MicroSD card or an NVMe SSD (via the M.2 slot).

- **MicroSD Card:** Download your preferred operating system image (e.g., Orange Pi OS, Android 12, Debian 11) from the official Orange Pi website. Use a disk imaging tool (e.g., Balena Etcher) to write the image to a high-speed MicroSD card (Class 10 or higher recommended). Insert the prepared MicroSD card into the MicroSD card slot on the board.
- **NVMe SSD:** For enhanced performance, install a compatible 2242 NVMe SSD into the M.2 PCIe 2.0 slot. You will then need to flash the OS to the NVMe drive, typically after an initial boot from a MicroSD card or via specific flashing tools.

2. Connect Peripherals:

- **Display:** Connect a monitor or display to the HDMI OUT port using an HDMI cable. Alternatively, use a USB-C to DisplayPort cable for the Type-C port.
- **Keyboard and Mouse:** Connect a USB keyboard and mouse to the available USB 2.0 or USB 3.0 ports.
- **Network:** For wired internet access, connect an Ethernet cable to the Gigabit LAN port.
- **Audio:** If needed, connect speakers or headphones to the Audio In/Out jack.

3. Power On:

Connect the included 5V4A Type-C power supply to the Type-C power port on the Orange Pi 5. The board should power on automatically, and the operating system should begin to boot.

6. OPERATING INSTRUCTIONS

Once the Orange Pi 5 has successfully booted into your chosen operating system, you can begin using it. The operation will largely depend on the specific OS installed (e.g., Orange Pi OS, Android 12, Debian 11).

- **Operating System Interface:** Navigate the desktop environment or Android interface using your connected keyboard and mouse.
- **Software Installation:** Install applications and development tools as required by your projects. Refer to the documentation for your specific operating system for detailed instructions on package management and software installation.
- **Development:** The Orange Pi 5 is an open-source development board. Utilize its GPIO pins, camera interfaces, and other expansion options for custom hardware projects. Consult the Orange Pi community forums and official documentation for programming guides and examples.
- **Shutdown:** Always perform a proper shutdown through the operating system's menu to prevent data corruption. Do not simply disconnect the power supply.

7. MAINTENANCE

To ensure the longevity and optimal performance of your Orange Pi 5, consider the following maintenance tips:

- **Cooling:** The RK3588S processor can generate heat under heavy load. Consider adding a heatsink or a small fan, especially if the board is enclosed or used for demanding applications, to prevent thermal throttling and ensure stable operation.
- **Cleaning:** Periodically clean the board with a soft, dry brush or compressed air to remove dust accumulation, which can impede cooling and potentially cause short circuits. Ensure the board is powered off and disconnected from all power sources before cleaning.
- **Environment:** Operate the Orange Pi 5 in a clean, dry environment, away from extreme temperatures, humidity, and direct sunlight.
- **Software Updates:** Regularly update your operating system and installed software to benefit from performance improvements, security patches, and new features.

8. TROUBLESHOOTING

If you encounter issues with your Orange Pi 5, refer to the following common troubleshooting steps:

- **No Power/No Boot:**
 - Ensure the 5V4A Type-C power supply is correctly connected and functioning.
 - Verify that the MicroSD card or NVMe SSD contains a properly flashed operating system image. Try re-flashing the OS.
 - Check for any visible damage to the board or power supply.
- **No Display Output:**
 - Confirm the HDMI or USB-C (DP) cable is securely connected to both the Orange Pi 5 and the monitor.
 - Ensure the monitor is powered on and set to the correct input source.
 - Try a different HDMI cable or monitor if available.
 - Some operating systems may require specific display configurations; consult OS documentation.
- **Peripheral Issues (Keyboard/Mouse/USB devices):**
 - Try connecting the device to a different USB port.
 - Ensure the device is functioning correctly by testing it on another computer.
 - Some operating systems may require specific drivers for certain peripherals.
- **Network Connectivity Problems:**

- Verify the Ethernet cable is properly connected to the Gigabit LAN port and your router/switch.
- Check your router/switch for internet connectivity.
- Ensure network settings within the operating system are correctly configured (e.g., DHCP enabled).

• **System Instability/Freezing:**

- Ensure adequate cooling is provided, especially if running demanding applications. Overheating can lead to instability.
- Check for sufficient power supply. An underpowered board can behave erratically.
- Verify the integrity of your MicroSD card or NVMe SSD. Corrupted storage can cause system issues.
- Ensure your operating system and kernel are up to date.

For further assistance, refer to the official Orange Pi community forums or support resources.

9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official Orange Pi website or contact your retailer. Keep your proof of purchase for warranty claims. Orange Pi is committed to providing open-source hardware and software. Community support is available through official forums and online resources, where users can find guides, share projects, and troubleshoot issues. Manufacturer: Shenzhen Xunlong Software CO.,Limited



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Related Documents - Orange Pi 5

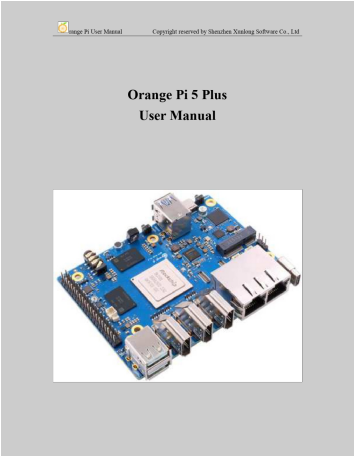
	Orange Pi 5 Pro User Manual: Features, Setup, and Development Guide Comprehensive user manual for the Orange Pi 5 Pro development board. Explore its RK3588S processor, AI capabilities, extensive interfaces, and learn how to install and configure Linux, Android, and OpenWRT operating systems. Ideal for makers and developers.
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	Orange Pi 5B Orange Pi 5B Orange Pi 5B Linux Android SDK
	Orange Pi 4B User Manual - Shenzhen Xunlong Software Co., Ltd. Comprehensive user manual for the Orange Pi 4B single board computer, detailing hardware specifications, setup, Android and Linux system usage, firmware flashing, and development environment setup.
	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.
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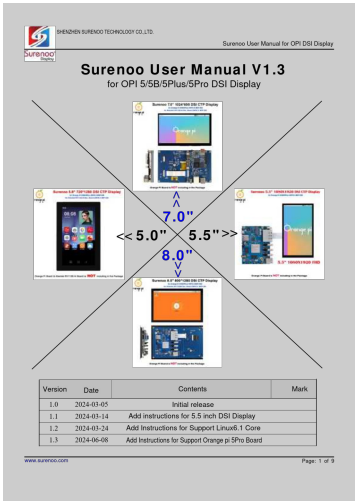
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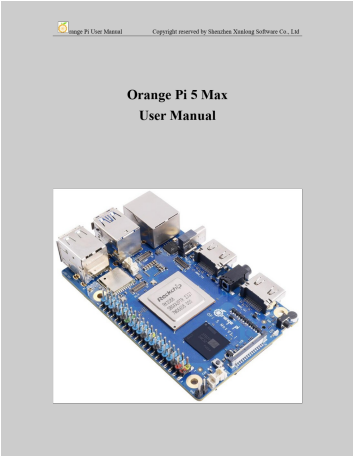
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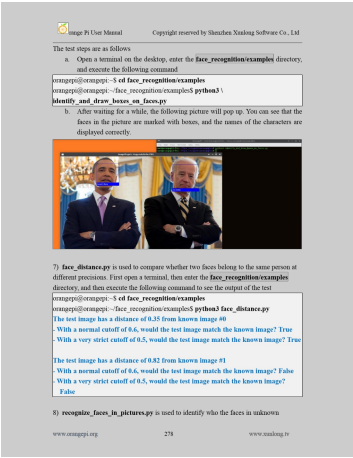
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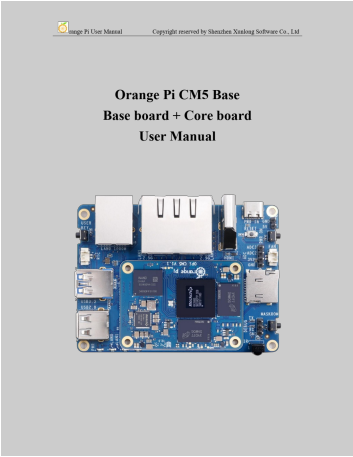
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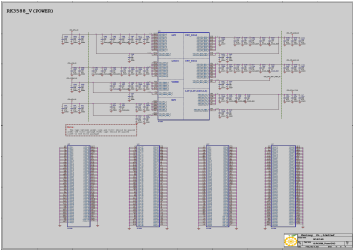
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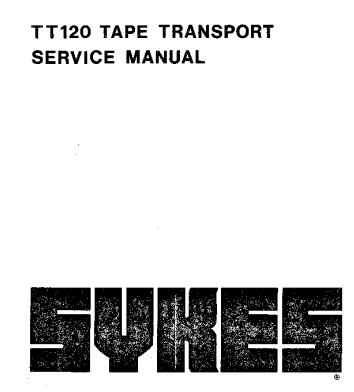
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Teamwork Internati ... graceful way so as to minimise the risk of losing data or corrupting files. I recently purchased an **Orange Pi 5 Pro** with a 64GB eMMC and a 512GB NVMe SSD, then installed OpenMediaVault OMV on it to ...
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	Comparing edge2, orange pi 5 pro, radxa rock 5a, and roc-rk3588s-pc			
	edge2	orange pi 5 pro	radxa rock 5a	roc-rk3588s-pc
CPU	ARMv8-A 64-bit Cortex-A78AE @ 2.2GHz	ARMv8-A 64-bit Cortex-A78AE @ 2.2GHz	ARMv8-A 64-bit Cortex-A78AE @ 2.2GHz	ARMv8-A 64-bit Cortex-A78AE @ 2.2GHz
GPU	ARM Mali-G78 MP2 @ 1000MHz	ARM Mali-G78 MP2 @ 1000MHz	ARM Mali-G78 MP2 @ 1000MHz	ARM Mali-G78 MP2 @ 1000MHz
RAM	LPDDR5-6400 8GB/16GB/32GB	LPDDR5-6400 8GB/16GB/32GB	LPDDR5-6400 8GB/16GB/32GB	LPDDR5-6400 8GB/16GB/32GB
Storage	eMMC 128GB/256GB/512GB	eMMC 128GB/256GB/512GB	eMMC 128GB/256GB/512GB	eMMC 128GB/256GB/512GB
Connectivity	Wi-Fi 6E, Bluetooth 5.3, USB-C, HDMI	Wi-Fi 6E, Bluetooth 5.3, USB-C, HDMI	Wi-Fi 6E, Bluetooth 5.3, USB-C, HDMI	Wi-Fi 6E, Bluetooth 5.3, USB-C, HDMI
Dimensions	115.5 x 55.5 x 11.5 mm	115.5 x 55.5 x 11.5 mm	115.5 x 55.5 x 11.5 mm	115.5 x 55.5 x 11.5 mm
Weight	15g	15g	15g	15g
OS	Android 13, Ubuntu 22.04, Debian 11	Android 13, Ubuntu 22.04, Debian 11	Android 13, Ubuntu 22.04, Debian 11	Android 13, Ubuntu 22.04, Debian 11
Price	\$129.99	\$129.99	\$129.99	\$129.99

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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



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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...
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[pdf] Installation Guide Instructions Dimension Guide Guide Accessories

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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 ...
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