

ORICO 9848RU3

ORICO 4 Bay RAID Hard Drive Enclosure

Model: 9848RU3

1. INTRODUCTION

Thank you for choosing the ORICO 4 Bay RAID Hard Drive Enclosure. This device is designed to provide flexible and secure data storage solutions for 3.5-inch SATA hard drives, supporting various RAID modes for enhanced data backup, expansion, and management. This manual will guide you through the setup, operation, maintenance, and troubleshooting of your enclosure to ensure optimal performance and longevity.

2. SAFETY INFORMATION

Please read and follow these safety guidelines carefully to prevent damage to the device or injury to yourself:

- Ensure the power supply voltage matches the requirements specified on the device.
- Do not expose the enclosure to water, moisture, or extreme temperatures.
- Place the enclosure on a stable, flat surface with adequate ventilation. Do not block the cooling fan or vents.
- Avoid dropping or subjecting the device to strong impacts.
- Do not attempt to disassemble or repair the enclosure yourself. Refer all servicing to qualified personnel.
- Always power off and disconnect the enclosure before installing or removing hard drives.

3. PRODUCT OVERVIEW

The ORICO 4 Bay RAID Hard Drive Enclosure is a robust and efficient direct attached storage (DAS) solution. It features an aluminum alloy shell and an 80mm silent cooling fan for excellent heat dissipation, ensuring stable operation.



Figure 3.1: Front view of the ORICO 4 Bay RAID Hard Drive Enclosure, showcasing the four drive bays.

Key Features:

- **Flexible RAID Expansion:** Supports 8 modes of configuration including RAID 0, 1, 3, 5, 10, JBOD, CLONE, and CLEAR for data backup and security.
- **Massive Storage Capacity:** Supports 3.5-inch SATA disks, with a maximum storage capacity of up to 88TB (22TB per single disk).
- **High-Speed Data Transmission:** USB 3.0 interface with SATA 6Gbps, offering transfer rates up to 235 MB/s.
- **Built-in 150W Power Supply:** Ensures smooth data transfer during multi-disk reading without the need for external large power adapters.
- **Efficient Heat Dissipation:** Equipped with an 80mm silent cooling fan and designed with front and rear vents for effective heat export.
- **Safety Protection:** Tray-less design with independent safety locks to prevent accidental ejection or loss of hard disks.
- **Wide Compatibility:** Perfectly compatible with Windows, Mac OS, and Linux systems.

88TB Massive Storage

Single Disk Up to 22TB



22 million
HD Photos



7.3K
HD Videos



3.6 million
HIFI Music



3.6K
Files

Figure 3.2: The enclosure supports up to 88TB of total storage, with individual disks up to 22TB.

Safety Protection

Plug and Play, compatible with 3.5-inch hard drive



Figure 3.3: Internal view illustrating the efficient heat dissipation system with an 80mm fan and airflow design.

5Gbps High-Speed Transfer



Figure 3.4: Compatibility overview showing support for Windows, Mac OS, Linux, Android, and various 3.5-inch HDD types.

4. SETUP GUIDE

4.1 Unpacking the Enclosure

Carefully remove all components from the packaging. Verify that all items listed below are present:

- ORICO 4 Bay Hard Drive Enclosure

- 1M USB-B to USB-A Cable
- Power Cable
- Safety Keys
- User Manual (this document)

Packing List



- | | |
|---------------------|----------------------|
| 1 4Big DAS | 2 Power Cord |
| 3 Data Cable | 4 Key |
| | 5 User Manual |

Figure 4.1: Contents included in the product package.

4.2 Hard Drive Installation

The enclosure features a tray-less design for easy installation and removal of 3.5-inch SATA hard drives.

1. Ensure the enclosure is powered off and disconnected from your computer.
2. Gently open the front door of the desired drive bay.
3. Slide your 3.5-inch SATA hard drive into the bay until it is firmly seated.
4. Close the front door. The safety lock design helps secure the drive. Use the provided safety keys to lock the bays if desired, preventing accidental ejection.
5. Repeat for additional hard drives.

Comprehensive Compatibility



Suitable Devices



Laptop



Desktop



iPad



OTG Phone



Projector



NAS



Monitoring

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Compatible 3.5" Hard Drives



Regular disk.



Enterprise disk



NAS disk



Surveillance disk



Gaming disk

.....

Figure 4.2: Illustrates the easy hard drive installation and the safety lock mechanism.

4.3 RAID Configuration

The ORICO enclosure supports 8 RAID modes. Configuration is typically done via DIP switches located on the rear panel. Refer to the table below for specific settings and their implications. **Note:** Configuring RAID modes will reinitialize the drives, leading to data loss. Back up any important data before proceeding.

8 RAID Modes

RAID Mode	Minmum Number of Disks	Capacity Utilization	Safety
RAID 0	 2-5	★ ★ ★ ★	
RAID 1	 2	★ ★	
RAID 3	 3-5	★ ★ ★	
RAID 5	 3-5	★ ★ ★	
RAID 10	 4	★ ★	
JBOD	 2-5	★ ★ ★ ★ ★	
Clear	 1-5	★ ★ ★ ★ ★	
Clone	 2-5	★	



Figure 4.3: Overview of the 8 supported RAID modes and their characteristics.

Important Note: RAID combinations are based on the minimum capacity of the hard drive. For optimal performance and capacity utilization, it is strongly advised to use hard drives of the same capacity when creating a RAID array.

4.4 Connecting to Your Computer

1. Connect the power cable to the enclosure's power input and then to a power outlet.
2. Connect the USB 3.0 cable from the enclosure's USB-B port to an available USB-A port on your computer.
3. Power on the enclosure using the power switch on the rear panel.

Efficient Heat-dissipation



- Honeycomb Cooling Pads
- Powerful Silent Fan



- Aluminum Alloy Shell
- Mesh Airflow Design

Figure 4.4: Connection of the power cable to the enclosure, highlighting the built-in 150W power supply.

4.5 Initial Disk Management

After connecting and powering on the enclosure, your operating system may detect new hardware. For new hard drives or after a RAID configuration, you will need to initialize, partition, and format the disks using your operating system's disk management utility (e.g., Disk Management in Windows, Disk Utility in macOS).

5. OPERATING THE ENCLOSURE

5.1 Power On/Off

Use the power switch on the rear of the enclosure to turn the device on or off. Always ensure safe removal of the device from your computer before powering off to prevent data corruption.

5.2 Data Transfer

Once the drives are recognized and formatted by your operating system, you can begin transferring data. The USB 3.0 interface provides high-speed data transfer, making it efficient for large files and backups.

Built-in 150W Power Supply



Figure 5.1: Demonstrates the 5Gbps high-speed data transfer capability of the enclosure.

5.3 LED Indicators

Each drive bay is equipped with an LED indicator light. These lights provide visual feedback on the working status of the installed hard drives. A solid light typically indicates power and connection, while a blinking light usually signifies data activity.

5.4 Intelligent Sleep Mode

The enclosure features an intelligent sleep mode. If there is no data activity for 10 minutes, the device will automatically enter sleep mode to conserve power and extend the lifespan of the hard drives. It will automatically wake up upon data access.

6. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your ORICO enclosure.

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the enclosure. Do not use liquid cleaners or aerosols. Ensure vents are free from dust accumulation.
- **Ventilation:** Always ensure the enclosure has proper airflow around it. Do not place it in enclosed spaces or near heat sources. The built-in fan requires unobstructed air intake and exhaust.
- **Data Backup:** Regularly back up critical data stored on the enclosure to another location, especially if not using a redundant RAID mode.

7. TROUBLESHOOTING

If you encounter issues with your ORICO 4 Bay RAID Hard Drive Enclosure, please refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Enclosure not detected by computer	Loose USB cable connection, power off, driver issue, faulty USB port.	Check USB cable connection. Ensure enclosure is powered on. Try a different USB port or cable. Restart computer.
Hard drives not appearing in OS Disk Management	Drives not properly seated, RAID configuration not complete, drives uninitialized/unformatted.	Ensure drives are fully inserted. Verify RAID configuration via DIP switches. Initialize, partition, and format drives in Disk Management.
Drives or enclosure overheating	Poor ventilation, excessive workload, faulty fan.	Ensure adequate space around the enclosure for airflow. Reduce continuous heavy data transfer if possible. Check if the cooling fan is operating.
Drives periodically disappear from computer	Unstable USB connection, power fluctuations, drive issues.	Try a different USB cable or port. Ensure stable power supply. Check hard drive health. Update USB drivers on your computer.
RAID configuration not working as expected	Incorrect DIP switch settings, incompatible drives, drives not initialized after RAID setup.	Double-check DIP switch settings against the manual. Ensure all drives are of the same capacity and type for RAID. Re-initialize and format the RAID volume.

If the problem persists after attempting these solutions, please contact ORICO customer support for further assistance.

8. SPECIFICATIONS

Feature	Specification
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Feature	Specification
Brand	ORICO
Model Number	4 BAY With RAID (9848RU3)
Memory Storage Capacity	88 TB (Max)
Compatible Devices	Laptop, Desktop
Hard Disk Form Factor	3.5 Inches
Max Number of Supported Devices	4
Data Transfer Rate	5 Gigabits Per Second (USB 3.0)
Manufacturer	SHENZHEN ORICO TECHNOLOGIES CO.,LTD
Package Dimensions	13.8 x 10.7 x 9 inches
Item Weight	9.53 pounds
ASIN	B0F4QJZL6X
Hardware Interface	USB 3.0 Type B, USB 3.0 Type A
Color	Space Grey
Hardware Platform	PC
Material	Alloy Steel

9. WARRANTY AND SUPPORT

ORICO products are designed and manufactured to the highest quality standards. For information regarding warranty coverage and terms, please refer to the warranty card included in your product packaging or visit the official ORICO website.

For technical support, product inquiries, or service requests, please contact ORICO customer support through their official channels. Details can typically be found on the ORICO website or in the contact information provided with your purchase.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question