

ORICO ORICO TB4

ORICO Thunderbolt 4 Docking Station User Manual

Model: ORICO TB4

INTRODUCTION

The ORICO Thunderbolt 4 Docking Station is a versatile 12-in-1 hub designed to expand the connectivity of your computer. It offers high-speed data transfer, multi-monitor support, and efficient power delivery, making it an ideal solution for professionals requiring extensive port options and high performance.

This manual provides detailed instructions for setting up, operating, and maintaining your ORICO Thunderbolt 4 Docking Station to ensure optimal performance and longevity.

PACKAGE CONTENTS

Packing List

- | | |
|---------------------------------|----------------------------|
| 1 Thunderbolt 4 Dock | 2 40Gbps Data Cable |
| 3 20V 6.5A Power Adapter | 4 User Manual |



Image: Contents of the ORICO Thunderbolt 4 Docking Station package, including the dock, power adapter, USB-C cable, and user manual.

Please verify that all items are present in the package:

- 1x Aluminum Thunderbolt 4 Dock
- 1x 130W Power Adapter
- 1x 1M/3.3FT Support 40Gbps USB-C to USB-C Cable
- 1x Instruction Manual

PRODUCT OVERVIEW AND PORT LAYOUT

The ORICO Thunderbolt 4 Docking Station features a comprehensive array of ports to meet diverse connectivity needs. Familiarize yourself with the port layout for proper connection.

12-in-1 Thunderbolt 4 Docking Station



Image: Detailed view of the ORICO Thunderbolt 4 Docking Station, highlighting all 12 ports on the front and rear panels with their respective functions.

Front Panel Ports:

- **3.5mm Audio (Combo Jack):** For headphones or microphones.

- **USB-C 3.2 Gen 2 (10Gbps):** High-speed USB-C data port.
- **USB-A 3.2 Gen 1 (10Gbps):** High-speed USB-A data port.
- **Thunderbolt 4 Port (PD 15W):** Downstream Thunderbolt 4 port with 15W Power Delivery for mobile devices.
- **Thunderbolt 4 Host Port (PD 85W):** Upstream Thunderbolt 4 port for connecting to your computer, providing up to 85W Power Delivery.
- **Power Switch:** To turn the docking station on/off.

Rear Panel Ports:

- **DC IN:** Power input for the 130W power adapter.
- **DP 1.4 (DisplayPort):** Video output for connecting a monitor, supporting up to 8K@30Hz or 4K@60Hz.
- **HDMI 2.0:** Video output for connecting a monitor, supporting up to 8K@30Hz or 4K@60Hz.
- **LAN (Gigabit Ethernet):** For wired network connection.
- **USB-A 2.0 (x2):** Standard USB-A ports for connecting peripherals like keyboards and mice.
- **TF/SD Card Slots:** For reading and writing to SD and TF (MicroSD) memory cards.

SETUP

Follow these steps to set up your ORICO Thunderbolt 4 Docking Station:

1. **Connect Power:** Plug the 130W power adapter into the "DC IN" port on the rear of the docking station, then connect the adapter to a power outlet.
2. **Connect to Host Device:** Use the provided 1M/3.3FT USB-C to USB-C cable to connect the Thunderbolt 4 Host Port (PD 85W) on the docking station to a Thunderbolt 4 or USB-C port on your laptop or desktop computer.
3. **Connect Peripherals:**
 - **Monitors:** Connect your monitors to the HDMI 2.0 and/or DP 1.4 ports on the rear of the dock.
 - **USB Devices:** Connect USB-A and USB-C devices to the corresponding ports on the front and rear panels.
 - **Ethernet:** Connect an Ethernet cable from your network router/modem to the LAN port.
 - **Audio:** Connect headphones or a headset to the 3.5mm audio combo jack.
 - **Memory Cards:** Insert SD or TF cards into the dedicated slots.
4. **Power On:** Press the Power Switch on the front panel of the docking station. The indicator light will illuminate.

Wide compatibility

macOS



MacBook Pro 14 inch
2021, M1 Pro or M1 Max chip



MacBook Pro 14 inch
2023, M2/M3 Pro or Max chip



MacBook Pro 16 inch
2021, M1 Pro or M1 Max chip



MacBook Pro 16 inch
2023, M2/M3 Pro or Max chip

Systems



macOS 11.4 and above



Windows 10 and above

Thunderbolt

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ORICO TB4-SV-EP

ORICO Technologies Co., LTD

Category: Dock

Operating System: macOS

Self or Bus Powered: Self Powered

Number of Thunderbolt Ports: 2

Thunderbolt Version: Thunderbolt 4

2*TB4 ports, Port A - UFP up to 40Gbps @45W PD charging, Port B - DFP up to 40Gbps @15W, support daisy chain

1*USB-C, USB3.1 Gen2, up to 10Gbps

1*USB-A, USB3.1 Gen2, up to 10Gbps

2*USB-A, USB2.0 up to 480Mbps

1*DP1.4, support 1*4K 60Hz, 1*8K 30Hz, 1*10K 30Hz etc.

1*HDMI2.0, support 1*4K 60Hz, 1*8K 30Hz, 1*10K 30Hz etc.

1*RJ45, Gigabit Ethernet

1*TF, 10.33 Card Slot

1*SD, SD3.0 Card Slot

1*Audio, 3.5mm

Windows, support Win10 & Win11

MacOS, support Ventura

Product Website:

<https://www.thunderbolttechnology.net/product/orico-tbt4-dock-1>



Image: The ORICO Thunderbolt 4 Docking Station demonstrating wide compatibility with various MacBook Pro models and Windows 10/11 systems.

The docking station is plug-and-play and generally requires no driver installation. It is compatible with macOS 11.4 and above, and Windows 10 and above.

OPERATING INSTRUCTIONS

Data Transfer

The Thunderbolt 4 ports support data transfer speeds of up to 40Gbps, enabling rapid transfer of large files. The USB 3.2 Gen 2 ports offer 10Gbps, while USB 2.0 ports provide standard speeds for peripherals.

40Gbps Ultra High Speed

Transfer 3GB files in 1 Second

 **Thunderbolt 4**
Downstream

 **Thunderbolt 4**
Upstream

40Gbps



Image: A visual representation of the 40Gbps ultra-high-speed data transfer capability of the ORICO Thunderbolt 4 Dock, showing quick file copying.

Video Output and Multi-Screen Expansion

The docking station supports connecting a single monitor with up to 8K resolution (8K@30Hz via DP 1.4 or HDMI 2.0) or two monitors with 4K resolution each (4K@60Hz). This is ideal for demanding visual tasks such as video editing and graphic design.

Single 8K 30Hz Resolution

Experience unparalleled detail



DP 1.4
32.4Gbit/s



HDMI 2.0
18 Gbit/s

Image: A laptop connected to a large 8K monitor, demonstrating the single 8K@30Hz resolution output capability of the ORICO Thunderbolt 4 Dock.

Note: Users of M1/M2/M3 chip laptops or tablets are restricted to extending a single display. Dual display output is supported on Mac M1/M2/M3 Pro/Max versions and Intel chip Macs.

Power Delivery and Charging

The Thunderbolt 4 host port delivers up to 85W of power to charge your connected laptop. The downstream Thunderbolt 4 port supports Power Delivery (PD) charging at 15W for mobile devices like smartphones or tablets.

Fast-Charging to Multiple Devices



Image: The ORICO Thunderbolt 4 Dock simultaneously charging a laptop with 85W power delivery and a mobile phone with 15W power delivery.

Daisy Chaining

Utilize the downstream Thunderbolt ports for daisy chaining, allowing you to connect multiple Thunderbolt devices in a series. This feature is particularly useful for expanding storage capabilities and connecting multiple high-bandwidth peripherals, addressing the substantial data processing requirements of video editors and other creative professionals.

Video Guide: Port Functions

Video: A detailed instructional video demonstrating the function and proper use of each port on the ORICO Thunderbolt 4 Docking Station.

MAINTENANCE

To ensure the longevity and optimal performance of your ORICO Thunderbolt 4 Docking Station, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to wipe the exterior of the dock. Avoid using liquid cleaners or aerosols, as they may damage the device.
- **Ventilation:** Ensure the dock is placed in a well-ventilated area to prevent overheating. Do not block any ventilation openings.
- **Storage:** When not in use for extended periods, store the dock in a cool, dry place away from direct sunlight and extreme temperatures.
- **Cable Management:** Avoid bending or kinking cables excessively, especially at the connectors, to prevent damage.

TROUBLESHOOTING

If you encounter issues with your ORICO Thunderbolt 4 Docking Station, refer to the following common troubleshooting steps:

- **No Power:**
 - Ensure the power adapter is securely connected to both the dock and a working power outlet.
 - Check if the power switch on the dock is pressed and the indicator light is on.
- **No Display Output:**
 - Verify that the display cables (HDMI/DP) are securely connected to both the dock and the monitor.
 - Ensure your computer's display settings are configured to detect and extend/mirror to the external monitor(s).
 - For M1/M2/M3 Mac users, remember that only a single external display is supported unless it's a Pro/Max chip.
 - Try updating your computer's graphics drivers.
- **USB Devices Not Recognized:**
 - Reconnect the USB device to a different port on the dock.
 - Ensure the dock is properly connected to your host computer.
 - Restart your computer.
- **Slow Data Transfer:**
 - Ensure you are using the Thunderbolt 4 ports for maximum speed.
 - Check the capabilities of your connected device and cable; they must also support high speeds.
- **Dock Overheating:**
 - Ensure adequate ventilation around the dock. Do not place it in an enclosed space.
 - Reduce the number of high-power devices connected if possible.

If the issue persists after trying these steps, please contact ORICO customer support for further assistance.

SPECIFICATIONS

Feature	Detail
Brand	ORICO
Model Number	ORICO TB4
Product Dimensions	9.21 x 3.46 x 2.56 inches
Item Weight	2.49 pounds
Hardware Interface	Thunderbolt
Ports	2x Thunderbolt 4 (40Gbps, 85W PD Host, 15W PD Downstream), 1x USB-C 3.2 Gen 2 (10Gbps), 1x USB-A 3.2 Gen 1 (10Gbps), 2x USB-A 2.0, 1x HDMI 2.0, 1x DP 1.4, 1x Gigabit Ethernet, 1x 3.5mm Audio, SD/TF Card Slots
Video Output	Single 8K@30Hz or Dual 4K@60Hz
Power Delivery	Up to 85W to host, 15W to downstream Thunderbolt 4 port
Compatible Devices	Desktops, Laptops, Monitors (macOS 11.4+, Windows 10+)
Manufacturer	SHENZHEN ORICO TECHNOLOGIES CO.,LTD

WARRANTY AND SUPPORT

ORICO products typically come with a standard manufacturer's warranty. Please refer to the warranty card included in your package or visit the official ORICO website for detailed warranty terms and conditions.

For technical support, product inquiries, or warranty claims, please contact ORICO customer service through their official website or the contact information provided in your product documentation.

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

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