

OWC OWCTB3GM000H32

OWC Gemini Thunderbolt (USB-C) Docking Station and External RAID Storage Solution User Manual

Model: OWCTB3GM000H32

Brand: OWC

INTRODUCTION

This manual provides detailed instructions for the OWC Gemini Thunderbolt (USB-C) Docking Station and External RAID Storage Solution. It covers setup, operation, maintenance, troubleshooting, and technical specifications to ensure optimal performance and longevity of your device.

SAFETY INFORMATION

- Read all instructions carefully before using the device.
- Do not expose the device to moisture or extreme temperatures.
- Use only the power adapter supplied with the device.
- Do not attempt to open or repair the device yourself. Refer all servicing to qualified personnel.
- Ensure proper ventilation around the device to prevent overheating.

PACKAGE CONTENTS

Verify that all items are present in your package:

- OWC Gemini Thunderbolt (USB-C) Docking Station
- Power Adapter
- Thunderbolt (USB-C) Cable
- User Manual (this document)
- Drives (pre-installed for 32TB model)

PRODUCT OVERVIEW

The OWC Gemini is a versatile docking station and external storage solution designed for high-performance data

management and expanded connectivity.



Image: Front view of the OWC Gemini Thunderbolt Docking Station, showcasing its sleek black design and OWC branding.

Key Features

- **Dual Drive Bays:** Supports 2.5-inch and 3.5-inch SATA drives for flexible storage configurations.
- **Hardware RAID:** Offers RAID 0, RAID 1, SPAN, and JBOD modes for optimized performance or data redundancy.
- **Thunderbolt (USB-C) Connectivity:** Two Thunderbolt 3 (USB-C) ports for host connection, daisy-chaining, and power delivery (up to 27W).
- **Expanded Connectivity:** Includes two USB 3.2 Gen 2 Type-A ports, one HDMI port, one 2.5 Gigabit Ethernet port, and one SD 4.0/UHS-II media slot.
- **High-Resolution Display Support:** HDMI 2.1 supports up to 8K @ 120Hz, and Thunderbolt 3 supports up to 8K @ 60Hz or 4K @ 120Hz.

Port Layout

The OWC Gemini provides a comprehensive set of ports for various connectivity needs.

7 Ports of



Connectivity

Image: Rear view of the OWC Gemini Docking Station, highlighting the 7 ports of connectivity including Thunderbolt, USB, HDMI, and Ethernet.

1. **Thunderbolt 3 (USB-C) Host Port:** Connects to your computer.
2. **Thunderbolt 3 (USB-C) Downstream Port:** For daisy-chaining, additional displays, or charging USB-C devices.
3. **USB 3.2 Gen 2 Type-A Ports (x2):** For connecting USB peripherals.
4. **HDMI 2.1 Port:** For connecting an external display.
5. **2.5 Gigabit Ethernet Port:** For high-speed network connectivity.
6. **SD 4.0/UHS-II Media Slot:** Located on the front panel for convenient access.
7. **DC 12V Power Input:** Connects to the power adapter.

Frontside SD Card Slot



Image: Close-up of the front panel of the OWC Gemini, showing the easily accessible SD card slot.

SETUP

1. Drive Installation (if applicable)

For models without pre-installed drives, follow these steps to install 2.5-inch or 3.5-inch SATA drives.

Flexible Storage Two Bays

- 2.5-inch drives
- 3.5-inch drives



Image: The OWC Gemini unit illustrating its two flexible drive bays, compatible with both 2.5-inch and 3.5-inch drives.

1. Ensure the device is powered off and disconnected from your computer.
2. Open the drive bay door(s) according to the product's physical design.
3. Insert your 2.5-inch or 3.5-inch SATA drives into the bays, ensuring they are securely seated.
4. Close the drive bay door(s).

2. RAID Configuration

The OWC Gemini supports hardware RAID. Refer to the specific RAID configuration utility or physical switches on the device (if present) to set your desired RAID level (RAID 0, RAID 1, SPAN, or JBOD).

Hardware RAID

- RAID 0
- RAID 1
- span
- JBOD (Independent)



Image: Two OWC Gemini units, emphasizing the hardware RAID capabilities for configurations like RAID 0, RAID 1, SPAN, and JBOD.

RAID Levels Explained:

- **RAID 0 (Striping):** Combines drives for maximum speed and capacity, but offers no data redundancy.
- **RAID 1 (Mirroring):** Duplicates data across drives for redundancy, sacrificing half the total capacity for data protection.
- **SPAN (Concatenation):** Combines drives into a single large volume without striping or mirroring.
- **JBOD (Just a Bunch Of Disks):** Treats each drive as an independent volume.

3. Connecting to Your Computer

1. Connect the power adapter to the DC 12V power input on the OWC Gemini and then to a power outlet.
2. Connect one end of the Thunderbolt (USB-C) cable to the host port on the OWC Gemini.
3. Connect the other end of the Thunderbolt (USB-C) cable to a Thunderbolt (USB-C) port on your computer.
4. The device should power on automatically.

4. Initializing Drives

After connecting, your operating system may prompt you to initialize and format the new drives. Follow the on-screen instructions. For macOS, use Disk Utility. For Windows, use Disk Management.

OPERATING INSTRUCTIONS

Data Transfer

Once the drives are initialized and formatted, they will appear as accessible volumes on your computer. You can drag and drop files to and from these volumes as you would with any other storage device.

Using the USB Ports

Connect USB peripherals such as external drives, keyboards, or mice to the two USB 3.2 Gen 2 Type-A ports. These ports support data transfer speeds up to 10 Gb/s.

Connecting an External Display

Use the HDMI 2.1 port to connect an external monitor. The Gemini supports resolutions up to 8K @ 120Hz via HDMI.

Network Connectivity

Connect an Ethernet cable from your network router or switch to the 2.5 Gigabit Ethernet port on the Gemini for high-speed wired network access.

Using the SD Card Slot

Insert an SD 4.0/UHS-II compatible SD card into the front-facing slot for quick data transfer from cameras or other devices.

Daisy-Chaining and Power Delivery

Thunderbolt Ports



- Daisy-chain connection capabilities
- Add an additional display
- Charge USB-C devices

Image: A close-up of the OWC Gemini's Thunderbolt ports, illustrating their use for daisy-chaining, connecting additional displays, and charging USB-C devices.

The second Thunderbolt 3 (USB-C) port allows you to:

- **Daisy-chain** additional Thunderbolt devices.
- Connect an **additional display** (up to 8K @ 60Hz or 4K @ 120Hz).
- **Charge USB-C devices** with up to 27 watts of power.

MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the device. Do not use liquid cleaners or aerosols.
- **Ventilation:** Ensure that the ventilation grilles are not obstructed to prevent overheating.
- **Firmware Updates:** Periodically check the OWC website for firmware updates to ensure optimal performance and compatibility.
- **Safe Ejection:** Always safely eject the OWC Gemini from your operating system before disconnecting it or powering it off to prevent data corruption.

TROUBLESHOOTING

Device Not Recognized

- Ensure all cables are securely connected, especially the Thunderbolt cable to both the Gemini and your computer.
- Verify the power adapter is correctly connected and the device is receiving power.
- Try connecting the Gemini to a different Thunderbolt port on your computer.
- Restart your computer.
- Check your operating system's Disk Utility (macOS) or Disk Management (Windows) to see if the drives are detected but uninitialized or unformatted.

Slow Data Transfer Speeds

- Ensure you are using a Thunderbolt 3 compatible cable and port.
- Check the RAID configuration. RAID 1 (mirroring) will have slower write speeds than RAID 0 (striping).
- Close any unnecessary applications that might be consuming system resources.
- Ensure your computer's drivers are up to date.

Display Issues

- Verify the HDMI cable is securely connected to both the Gemini and your monitor.
- Check your display settings in your operating system.
- Ensure your monitor supports the resolution and refresh rate you are attempting to use.
- Try a different HDMI cable or monitor if available.

Network Connection Problems

- Ensure the Ethernet cable is securely connected to both the Gemini and your network device.
- Check your computer's network settings.
- Restart your router/modem.

SPECIFICATIONS

| Feature | Detail |
|------------------|--|
| Brand | OWC |
| Model Number | OWCTB3GM000H32 |
| Storage Capacity | 32.0TB (as configured) |
| Drive Bays | 2 (supports 2.5" and 3.5" SATA drives) |
| RAID Levels | SPAN, RAID 0, RAID 1, JBOD (Hardware RAID) |
| Host Interface | Thunderbolt 3 (USB-C) |

| | |
|--------------------|---|
| Data Transfer Rate | Up to 40 Gb/s (Thunderbolt 3), Up to 10 Gb/s (USB 3.2 Gen 2) |
| Ports | (1) Thunderbolt 3 (USB-C) Host, (1) Thunderbolt 3 (USB-C) Downstream, (2) USB 3.2 Gen 2 Type-A, (1) HDMI 2.1, (1) 2.5 Gigabit Ethernet, (1) SD 4.0/UHS-II |
| Display Support | HDMI 2.1: Up to 8K @ 120Hz; Thunderbolt 3: Up to 8K @ 60Hz or 4K @ 120Hz |
| Power Delivery | Up to 27W via Thunderbolt 3 |
| Compatible Devices | Desktop, Laptop, Tablet (with Thunderbolt/USB-C port) |
| Color | Black |
| Weight | 9.35 lbs (approx.) |
| UPC | 810100983697 |

WARRANTY AND SUPPORT

Warranty Information



OWC products are covered by a limited warranty. Please refer to the official OWC website or your purchase documentation for specific warranty terms and conditions. Keep your proof of purchase for warranty claims.









Technical Support

For technical assistance, troubleshooting, or further inquiries, please visit the official OWC support website or contact their customer service.

[OWC Support Website](#)

Related Documents - OWCTB3GM000H32

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|  <p>OWC Gemini (1GbE)</p> <p>Support Manual</p> <p>Introduction</p> <p>1.1 System Requirements</p> | <p>OWC Gemini (1GbE) - Support Manual and User Guide</p> <p>Comprehensive support manual for the OWC Gemini (1GbE) storage solution, covering system requirements, setup, assembly, RAID configuration, device management, software, troubleshooting, and safety precautions.</p> |
|  <p>OWC Gemini</p> | <p>OWC Gemini Dual Bay Thunderbolt 3 Dock User Manual</p> <p>Comprehensive user manual for the OWC Gemini Dual Bay Thunderbolt 3 Dock, covering system requirements, installation, RAID settings, troubleshooting, and support resources.</p> |

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| <div><p>OWC Thunderbolt Go Dock</p><p>Support Manual</p><p>Introduction</p><p>1.1 System Requirements</p><p>Operating System:</p><ul style="list-style-type: none">• Mac OS 10.14 or later• PC: Windows 10 or later• Other: Ubuntu, CentOS, Debian, Linux (kernel version recommended)</div> | <p>OWC Thunderbolt Go Dock Support Manual</p> <p>Comprehensive support manual for the OWC Thunderbolt Go Dock, detailing system requirements, hardware features, setup, device drivers, management, troubleshooting, and safety precautions.</p> |
| <div><p>THUNDERBOLT PRO DOCK 10-Port Professional Workflow Solution</p></div> | <p>OWC Thunderbolt Pro Dock User Guide</p> <p>User guide for the OWC Thunderbolt Pro Dock, a 10-port professional workflow solution. Details system requirements, connection, ports, drivers, troubleshooting, and support.</p> |
| <div><p>OWC 14-Port Thunderbolt 3 Dock</p><p>Support Manual</p><p>Introduction</p><p>1.1 System Requirements</p><p>Operating System:</p><ul style="list-style-type: none">• macOS 10.14 or later• Windows 10 or later<p>Hardware:</p></div> | <p>OWC 14-Port Thunderbolt 3 Dock Support Manual Connectivity and Setup Guide</p> <p>Comprehensive support manual for the OWC 14-Port Thunderbolt 3 Dock. Learn about system requirements, package contents, port configurations, setup, OWC Innergize software, unmounting drives, troubleshooting, and safety precautions.</p> |
| <div><p>THUNDERBOLT 3 DOCK 10-Port Professional Workflow Solution</p></div> | <p>OWC Thunderbolt 3 Dock User Guide: Setup, Features, and Support</p> <p>Official user guide for the OWC Thunderbolt 3 Dock. Provides detailed information on system requirements, package contents, port connections, usage notes, troubleshooting, and technical support for Mac and Windows users.</p> |