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- › SABRENT /
- › SABRENT EC-SSD2 Dual NVMe M.2 SSD Docking Station Instruction Manual

SABRENT EC-SSD2

SABRENT EC-SSD2 Dual NVMe M.2 SSD Docking Station Instruction Manual

Model: EC-SSD2

1. INTRODUCTION

This manual provides detailed instructions for the setup, operation, and maintenance of your SABRENT EC-SSD2 Dual NVMe M.2 SSD Docking Station. This device is designed for convenient data transfer and offline cloning of PCIe NVMe M.2 SSDs.



Image 1.1: SABRENT EC-SSD2 Dual NVMe M.2 SSD Docking Station with included cables.

2. PACKAGE CONTENTS

Verify that all items are present in the package:

- Dual NVMe SSD enclosure
- USB Type-C to USB Type-C cable
- USB Type-C to USB Type-A cable
- AC power adapter (5V / 4AMP)
- Instruction manual (this document)



Image 2.1: Contents of the SABRENT EC-SSD2 package, including the docking station, cables, and power adapter.

3. SYSTEM REQUIREMENTS

Before using the docking station, ensure your system meets the following requirements:

- **Operating System:** Windows 7 or higher / Mac OS 10.5 or higher / Linux Kernel 2.4 and higher
- **Available Port:** USB Type-C or USB Type-A port (depending on cable used)
- **Power:** Standard AC power outlet

4. PRODUCT FEATURES

- **Dual SSD Support:** Read from and write to two NVMe M.2 SSDs simultaneously.
- **Tool-Free Design:** Quick-release lid for easy SSD installation and removal without tools.
- **Offline Cloning:** Clone drives directly without requiring a computer connection.
- **High-Speed Data Transfer:** USB 3.2 Gen 2 interface supports data speeds up to 10Gbps. Backward compatible with USB 3.1 and USB 3.0.
- **Enhanced Heat Dissipation:** Full aluminum construction and a built-in cooling fan prevent thermal throttling.

- **NVMe M.2 Compatibility:** Supports M.2 form factors 2230, 2242, 2260, 2280, and 22100. **Note: Not compatible with M.2 SATA / AHCI SSDs.**



Image 4.1: Diagram illustrating the internal cooling fan for heat dissipation.

5. SETUP INSTRUCTIONS

5.1. Installing NVMe M.2 SSDs

1. Gently slide open the top cover of the docking station.
2. Insert your NVMe M.2 SSD(s) into the designated slots (Slot A and Slot B). Ensure the SSDs are inserted firmly into the M.2 connectors.
3. Secure the SSD(s) using the provided rubber fasteners.
4. Close the top cover until it clicks into place.

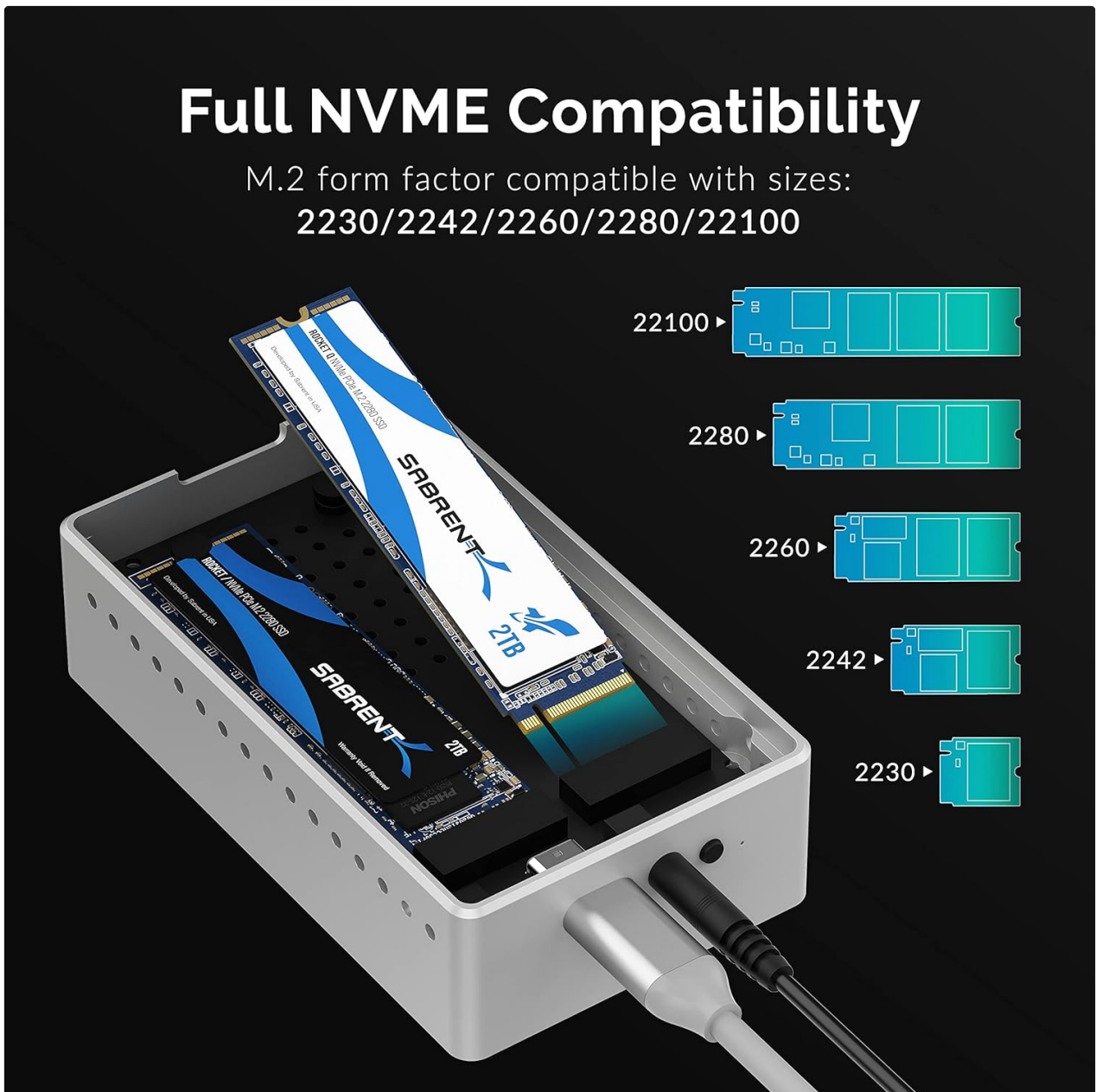


Image 5.1: Illustration of NVMe M.2 SSD installation into the docking station, showing compatible sizes.

5.2. Connecting the Docking Station

1. Connect the AC power adapter to the DC 5V port on the docking station and then to a power outlet.
2. For computer connection:
 - Use the USB Type-C to Type-C cable to connect the docking station's Type-C port to a USB-C port on your computer.
 - Alternatively, use the USB Type-C to Type-A cable to connect the docking station's Type-C port to a USB-A port on your computer.
3. Power on the docking station using the power switch.
4. Your computer should automatically detect the connected SSD(s). If the SSDs are new, they may need to be initialized and formatted through your operating system's disk management utility before use.



Image 5.2: Diagram showing the ports on the SABRENT EC-SSD2: Power, DC 5V, and Type-C.

6. OPERATING INSTRUCTIONS

6.1. Data Transfer (Connected to Computer)

When connected to a computer, the docking station functions as an external dual SSD enclosure. You can access and transfer files to and from both SSDs simultaneously. The device supports USB 3.2 Gen 2 speeds up to 10Gbps for efficient data handling.

Lightning Fast Speed

USB 3.2 supports data transmission speeds of up to 10Gbps for steady and efficient data transfer.

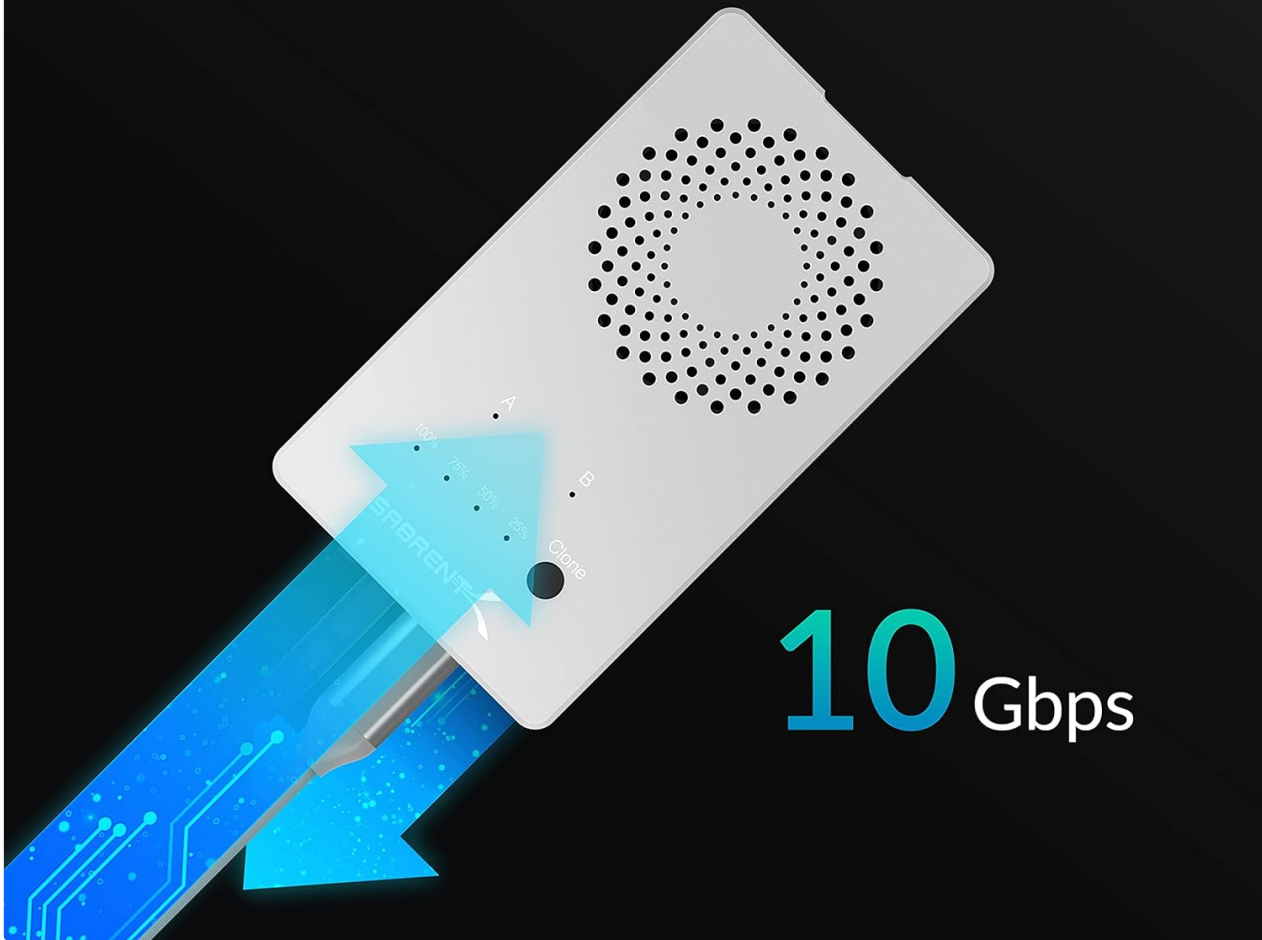


Image 6.1: Visual representation of high-speed data transfer capability (10Gbps).

6.2. Offline Cloning Function

The offline cloning function allows you to duplicate an SSD without a computer connection. This is ideal for system upgrades or creating backups.

1. Ensure the docking station is disconnected from any computer.
2. Insert the **Source SSD** (the drive you want to copy from) into **Slot A**.
3. Insert the **Target SSD** (the drive you want to copy to) into **Slot B**. **Important: The Target SSD must be equal to or larger in capacity than the Source SSD. All data on the Target SSD will be overwritten.**
4. Connect the AC power adapter to the docking station and a power outlet. Power on the device.
5. Press and hold the **"Clone"** button for approximately 3-5 seconds until the cloning progress indicator lights (25%, 50%, 75%, 100%) begin to flash.
6. Release the button. The cloning process will begin. The indicator lights will show the progress (25%, 50%, 75%, 100%).
7. Once all four indicator lights are solid, the cloning process is complete.
8. Power off the docking station, then safely remove the SSDs.



Image 6.2: Diagram illustrating the offline cloning process from Source SSD (A) to Target SSD (B).

Note on Cloned Drives: After cloning, the target drive will have the same partition structure as the source drive. Any additional capacity on the target drive will appear as unallocated space. You may need to use disk management software (e.g., Windows Disk Management, MiniTool Partition Wizard) to extend existing partitions or create new ones to utilize the full capacity of the target drive.

7. MAINTENANCE

- Keep the device clean and free from dust. Use a soft, dry cloth for cleaning.
- Avoid exposing the device to extreme temperatures, humidity, or direct sunlight.
- Ensure proper ventilation around the device, especially during extended operation, to allow the cooling fan to function effectively.
- Handle SSDs carefully to prevent damage to the connectors.

8. TROUBLESHOOTING

Issue: SSD not detected by computer.

- Ensure the SSD is correctly seated in its slot and secured.
- Verify that the power adapter is securely connected and the device is powered on.
- Try a different USB cable or a different USB port on your computer.
- Check your computer's Disk Management (Windows) or Disk Utility (macOS) to see if the drive is detected but uninitialized or unformatted.
- Confirm the SSD is a **PCIe NVMe M.2 SSD**, not a SATA M.2 SSD, as the device is not compatible with SATA M.2 drives.

Issue: Slow data transfer speeds.

- Ensure you are using a USB 3.2 Gen 2 compatible port on your computer for optimal speeds.
- Verify the USB cable used supports USB 3.2 Gen 2 (10Gbps). Some cables may be limited to lower speeds.
- Check for other devices connected to the same USB controller that might be consuming bandwidth.

- Monitor SSD temperatures; excessive heat can cause performance throttling. The built-in fan helps, but ensure good airflow.

Issue: Offline cloning fails or does not start.

- Ensure the docking station is disconnected from any computer during the cloning process.
- Confirm the Source SSD is in Slot A and the Target SSD is in Slot B.
- Verify the Target SSD's capacity is equal to or greater than the Source SSD's capacity.
- Press and hold the "Clone" button for the specified duration (3-5 seconds) until the progress lights flash.
- Ensure both SSDs are properly installed and detected by the device (indicated by their respective activity lights when powered on).

9. SPECIFICATIONS

Feature	Detail
Model Number	EC-SSD2
Material	Aluminum
Interface	USB 3.2 Gen 2 (USB Type-C)
Data Transfer Rate	Up to 10Gbps
Compatible SSDs	PCIe NVMe M.2 SSDs (2230, 2242, 2260, 2280, 22100)
Max Supported Capacity	Up to 16 TB (per slot, total 32TB)
Offline Cloning	Supported
Cooling	Built-in fan, Aluminum housing
Dimensions (LxWxH)	4.3 x 2.5 x 1.25 inches
Weight	1.41 ounces (approx. 40 grams)

10. WARRANTY AND SUPPORT

SABRENT products are designed for reliability and performance. For warranty information and technical support, please refer to the official SABRENT website or contact their customer service directly. Keep your purchase receipt for warranty claims.

For further assistance, visit: www.sabrent.com/support

