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› WAVLINK M.2 SSD Cloner Instruction Manual

WAVLINK SATA + NVMe

WAVLINK M.2 SSD Cloner Instruction Manual

Model: SATA + NVMe

1. INTRODUCTION

This manual provides comprehensive instructions for the WAVLINK M.2 SSD Cloner, a dual-bay SSD enclosure designed for efficient data duplication and storage expansion. It supports both NVMe and SATA M.2 SSDs, offering high-speed data transfer and convenient one-click offline cloning capabilities.

Please read this manual thoroughly before using the device to ensure proper operation and to maximize its performance and lifespan.

2. WHAT'S IN THE BOX

- Dual M.2 SSD Enclosure with Offline Clone
- USB-C to USB-C with USB-A Cable
- Thermally Conductive Silicone Pad
- DC 5V/4A Power Adapter
- Quick Start Guide



Figure 2.1: WAVLINK M.2 SSD Cloner with its power adapter and USB cable.

3. PRODUCT FEATURES

- **One-Click Offline Clone:** Supports direct cloning from source disk to target disk without a computer connection. Cloning direction can be changed via a toggle switch. Ensure data is disconnected from the computer before cloning.
- **Flexible Storage Expansion:** Dual-bay design supports up to 8TB total storage (two 4TB SSDs). Includes USB-C to USB-C power cord and USB-A adapter for connecting to various devices like mobile phones, tablets, laptops, and desktops.
- **High Speed Transmission:** USB-C interface supports up to 10Gbps transmission speed. Achieves high-speed reading (935MB/s) and writing (729MB/s) for quick transfer of large files.
- **Wide Compatibility:** Supports M.2 SSDs of various sizes (2280/2260/2242/2230) and interfaces (M and B+M keys). Not compatible with mSATA interface SSDs. Includes silicone buckles and thermally conductive silicone pads for secure SSD installation.

- **Clear Indicators:** Features a DC-IN port, USB-C port, and a single Offline Cloning Key. Blue Status LEDs indicate source and target drives, with a separate blue Offline Cloning Indicator showing progress at 25%, 50%, 75%, and 100%.



Figure 3.1: Detailed view of the cloner's ports, internal layout, and components like silicone pads and buckles.

4. SPECIFICATIONS

Attribute	Value
Brand	WAVLINK
Model Number	SATA + NVMe
Memory Storage Capacity	4 TB (per SSD, up to 8TB total)
Compatible Devices	Laptop, Desktop, Tablet, Smartphone

Max Number of Supported Devices	2
Data Transfer Rate	10 Gigabits Per Second
Hardware Interface	USB 3.2 Gen 2
Item Weight	0.46 Kilograms (1.01 pounds)
Package Dimensions	6.5 x 4.49 x 3.11 inches
Material	Metal
Power Adapter	DC 5V/4A

5. SETUP

Follow these steps to set up your WAVLINK M.2 SSD Cloner and install SSDs:

1. **Slide the Back Cover:** Gently push the top cover of the enclosure in the direction of the arrow to open it.

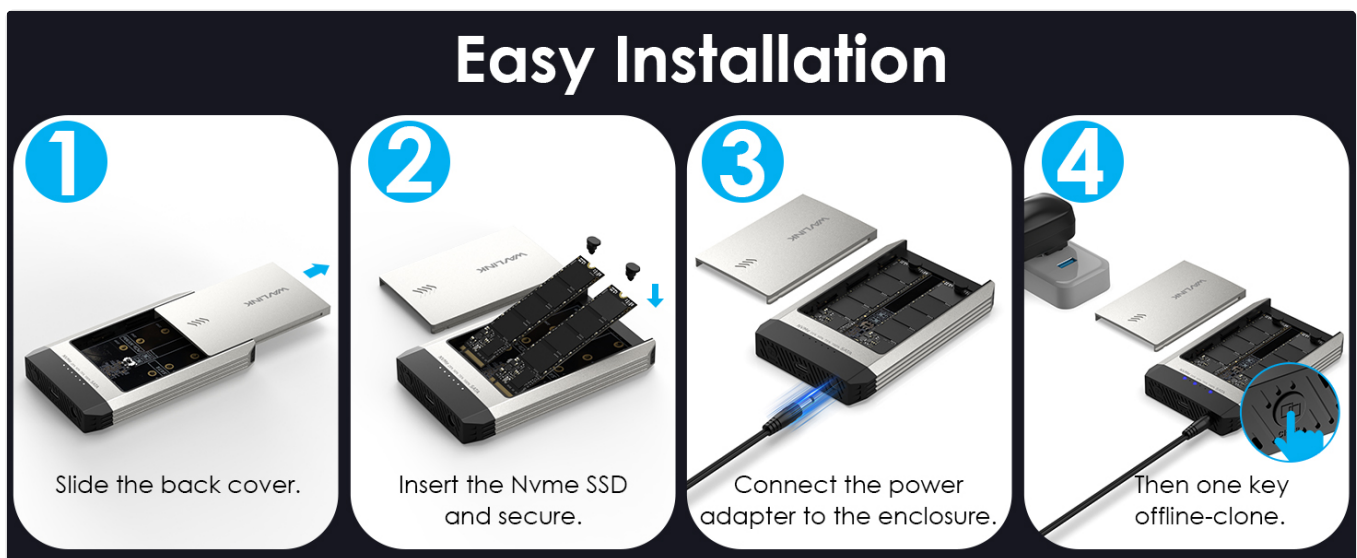


Figure 5.1: Sliding the back cover to reveal the SSD slots.

2. **Insert SSDs:** Carefully insert your M.2 NVMe or SATA SSDs into the designated slots. Ensure they are securely seated. The enclosure supports various M.2 SSD sizes (2230, 2242, 2260, 2280).

Q: What is the difference between WL-ST347 and WL-ST348 ?

A:

1. SSD Compatibility

WL-ST347 is compatible with NVMe and SATA but not suitable for mSATA interfaces;
WL-ST348 is compatible with NVMe and AHCI but not suitable for SATA or mSATA interfaces.

2. Transmission Speed

WL-ST347 supports 10Gbps transmission with read and write speeds of 935MB/s and 729MB/s.
WL-ST348 supports 20Gbps transmission with read and write speeds of 1631MB/s and 1267MB/s.

3. Clone Mode

WL-ST347 supports bidirectional cloning, allowing offline data cloning from NVMe to SATA or SATA to NVMe through a toggle switch.

Figure 5.2: Inserting two M.2 SSDs into the dual bays.

3. **Apply Thermal Pads:** Remove the protective films from the thermally conductive silicone pads and place them directly onto the installed SSDs. This helps dissipate heat during operation.

Your browser does not support the video tag.

Video 5.1: Demonstrates the installation of SSDs and thermal pads. This video is provided by WAVLINK Direct and shows the physical setup process.

4. **Reassemble the Top Lid:** Slide the top lid back onto the enclosure until it clicks securely into place.

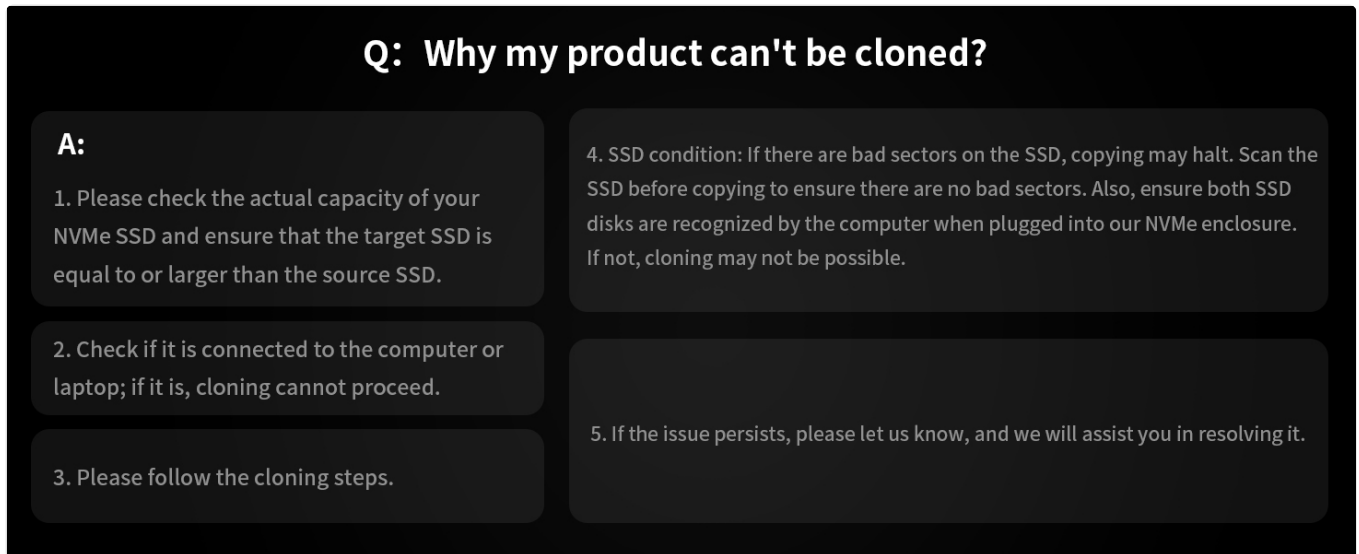


Figure 5.3: Closing the enclosure after SSD installation.

5. **Connect Power Adapter:** Plug the DC 5V/4A power adapter into the DC-IN port of the enclosure and then into a power outlet.

Your browser does not support the video tag.

Video 5.2: Shows connecting the power adapter to the WAVLINK M.2 SSD Cloner. This video is provided by WAVLINK Direct and highlights the power connection.

6. **Connect to Host (Optional for Cloning):** If using as an external drive or for online cloning, connect the USB-C to USB-C/USB-A cable from the enclosure to your computer or compatible device.



Compatible Devices with USB-C & A



Huawei



iPhone



iPad



MacBook Air



HP



ASUS



Dell

Figure 5.4: The cloner connected to a laptop, demonstrating its use as an external drive.

6. OPERATING INSTRUCTIONS

6.1. One-Click Offline Cloning

The offline cloning feature allows you to duplicate an SSD without connecting the enclosure to a computer. This is ideal for system migration or data backup.

1. **Prepare SSDs:** Insert the source SSD into the "Source" slot and the target SSD into the "Target" slot. Ensure the target SSD's capacity is equal to or larger than the source SSD's capacity.

Note: Disconnect the USB data cable from your computer before initiating offline cloning.

2. **Set Cloning Direction:** Use the toggle switch inside the enclosure to select the desired cloning direction (e.g., NVMe to SATA or SATA to NVMe).
3. **Start Cloning:** Press and hold the "Offline Clone Key" button for approximately 3-5 seconds until the LED indicators begin to flash. Release the button, then quickly press it again to confirm and start the cloning process.

One-Click Offline Clone

Be sure to disconnect your computer from the network
before starting the cloning process.



Figure 6.1: Visual representation of the one-click offline cloning process.

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Video 6.1: Detailed demonstration of the offline cloning process, including button presses and LED indicators. This video is provided by WAVLINK Direct and is highly relevant to the cloning function.

4. **Monitor Progress:** The blue LED indicators will light up sequentially (25%, 50%, 75%, 100%) to show the cloning progress. All LEDs will remain solid when the cloning is complete.

6.2. Using as an External SSD Enclosure (Online Mode)

The enclosure can also function as a high-speed external SSD reader/writer when connected to a computer.

1. **Insert SSDs:** Insert one or two M.2 SSDs into the appropriate slots.
2. **Connect to Computer:** Connect the USB-C to USB-C/USB-A cable from the enclosure to your computer's USB port.
3. **Access Drives:** The SSDs will appear as removable drives on your computer. You can now read, write, and manage files.

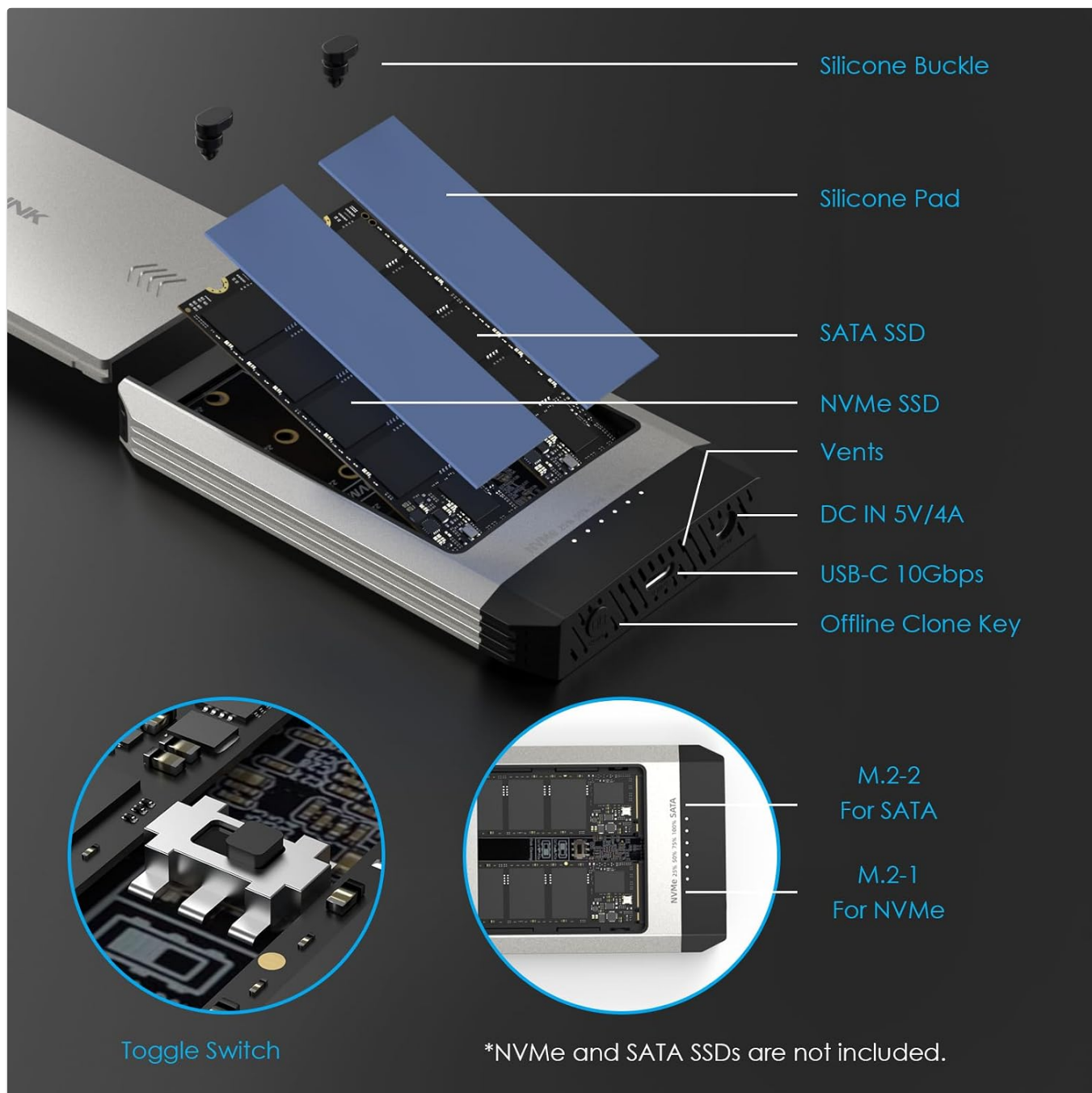


Figure 6.2: Demonstrates the 10Gbps fast transmission when used as an external drive.

7. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the enclosure. Avoid using liquid cleaners or solvents.
- **Handling:** Handle the enclosure and SSDs with care. Avoid dropping or subjecting them to strong impacts.
- **Storage:** Store the enclosure in a cool, dry place away from direct sunlight and extreme temperatures.
- **Thermal Pads:** Ensure the thermal pads are properly placed on the SSDs to maintain optimal operating temperatures, especially during prolonged use or cloning operations.
- **Firmware Updates:** Periodically check the WAVLINK official website for any available firmware updates for your device. Firmware updates can improve performance, compatibility, and stability.

8. TROUBLESHOOTING

Q: Why can't my product be cloned?

- **1. Check Capacity:** Ensure that the target SSD's actual capacity is equal to or larger than the source SSD's capacity.

- **2. Disconnect from Computer:** Verify that the enclosure is disconnected from any computer or laptop. Cloning cannot proceed if it is connected.
- **3. Follow Cloning Steps:** Ensure you are following the exact cloning steps as outlined in Section 6.1.
- **4. SSD Condition:** If there are bad sectors on the SSD, copying may halt. Scan the SSD before copying to ensure there are no bad sectors. Also, ensure both SSD disks are recognized by the computer when plugged into our NVMe enclosure (in online mode). If not, cloning may not be possible.
- **5. Contact Support:** If the issue persists after checking the above, please contact WAVLINK customer support for assistance.

Q: Which SSD is it compatible with?

The WL-ST347 model supports M and B+M key PCIe NVMe SSDs in sizes of 2230/2242/2260/2280. It does not support mSATA interfaces.

The WL-ST348 model (if applicable) supports M and B+M key PCIe NVMe SSDs (as target disk) and AHCI SSDs (as source disk) in sizes of 2230/2242/2260/2280, but does not support SATA or mSATA SSDs.

Q: What conditions mean that cloning is complete?

The indicator lights will flash continuously in the sequence of 25%/50%/75%/100% and then stay at 100%, indicating that the cloning process is complete.

Q: Can I use only one slot of the enclosure?

Yes, you can use a single slot. Alternatively, you can use two slots simultaneously.

9. WARRANTY AND SUPPORT

WAVLINK products are designed and manufactured to the highest standards. For warranty information and technical support, please refer to the Quick Start Guide included in your package or visit the official WAVLINK website.

You can also contact WAVLINK support directly:

Phone: +1 8889730883 (UTC-5) Mon - Fri 9AM - 6PM

Email: Contact@wavlink.com

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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