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› [WAVLINK](#) /

› WAVLINK Dual M.2 NVMe SSD Enclosure User Manual

WAVLINK 20Gbps No Offline Cloning

WAVLINK Dual M.2 NVMe SSD Enclosure User Manual

Model: 20Gbps No Offline Cloning

Brand: WAVLINK

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your WAVLINK Dual M.2 NVMe SSD Enclosure. This device is designed to expand storage for laptops, desktops, and mobile devices, offering high-speed data transfer and efficient cooling.

2. PACKAGE CONTENTS

Please verify that all items are present in your package:

- WAVLINK Dual M.2 NVMe SSD Enclosure
- USB-C to USB-C Cable with USB-A Adapter
- Screwdriver
- Mounting Screws
- User Manual (this document)

Ultra-Fast 20Gbps Velocidad de Transferencia

Velocidad extrema: edición de video instantánea, carga de juegos sin espera.

The advertisement features a sleek, black, vertical WAVLINK Dual M.2 NVMe SSD Enclosure as the central focus. The enclosure has a brushed metal texture and includes status LEDs for SSD1, SSD2, and POWER, along with an ON/OFF button at the bottom. It is connected to a laptop via a blue USB-C cable. A large, glowing blue '20Gbps' graphic is superimposed over the cable. The background is a dark, moody landscape with mountains under a night sky. To the right of the enclosure, two black boxes with white text specify the read and write speeds: 'leer: 1800MB/s' and 'escribir: 1800MB/s'. At the bottom left, a note in Spanish states: 'Nota: USB-C admite hasta 20Gbps; USB-A admite hasta 10Gbps (a través de un cable adaptador)'.

20Gbps

leer:
1800MB/s

escribir:
1800MB/s

Nota: USB-C admite hasta 20Gbps; USB-A admite hasta 10Gbps (a través de un cable adaptador).

Image: The WAVLINK Dual M.2 NVMe SSD Enclosure shown with its packaging, USB-C cable, screwdriver, and mounting screws.

3. SPECIFICATIONS

Feature	Description
Model Number	20Gbps No Offline Cloning (WL-RapidFire U2DA-A)
Dimensions	9 x 4.2 x 16.9 cm; 550 g
Material	Aluminum
Color	Black
Hardware Interface	USB 3.2 Gen 2x2 (20Gbps)

SSD Compatibility	PCIe NVMe M-Key and B+M Key SSDs (2230/2242/2260/2280 sizes). Does not support SATA SSDs.
Max Capacity	Up to 8 TB per slot, 16 TB total with two NVMe SSDs
Data Transfer Rate	Up to 20 Gigabits per second (approx. 1800 MB/s for single SSD)
Supported Features	UASP, Trim, RAID 0 (software configured)
OS Compatibility	Windows, macOS, Android
Special Features	OTG support, Smart Cooling Fan, Tool-free installation

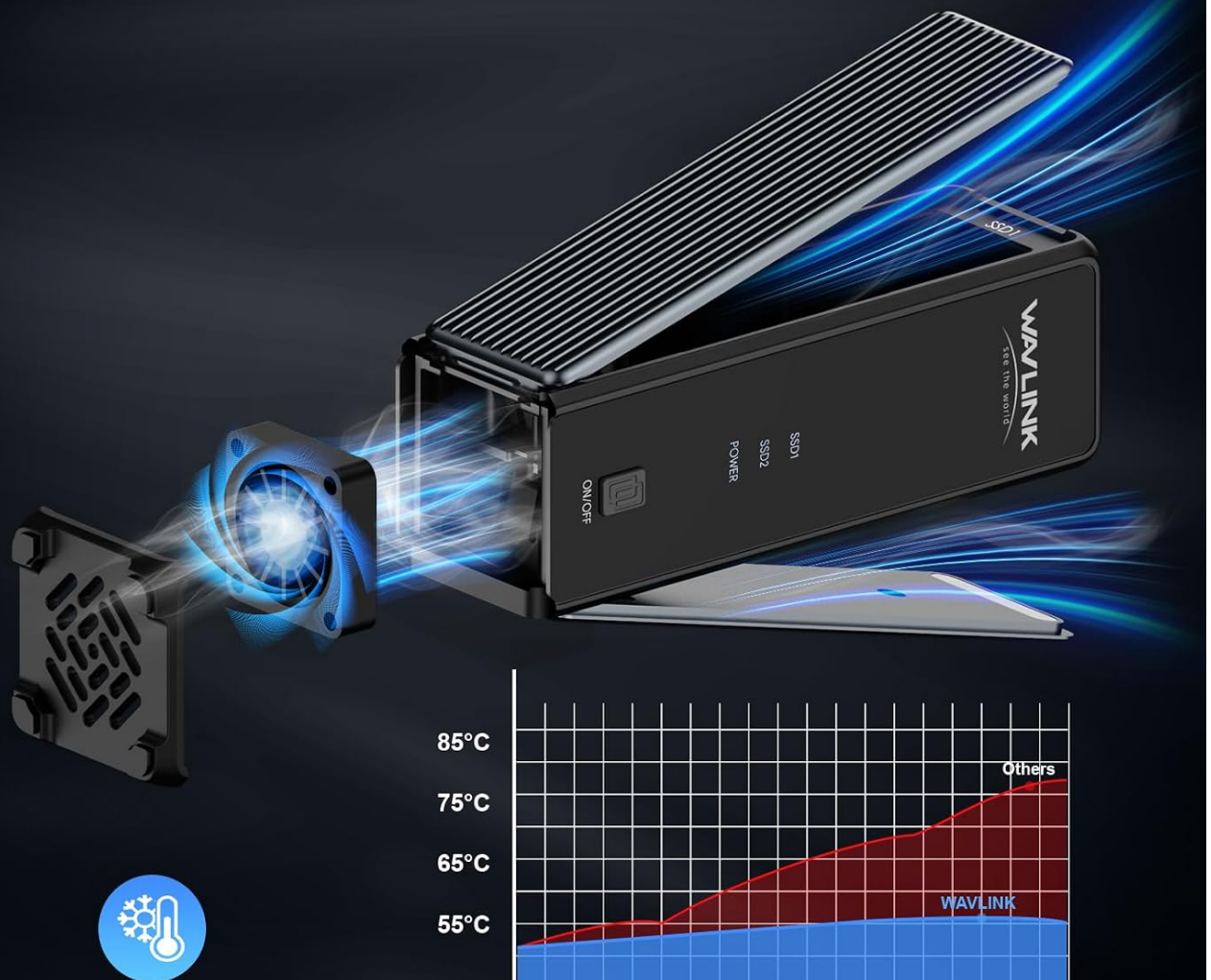
4. SETUP AND INSTALLATION

4.1 SSD Compatibility

This enclosure is designed exclusively for PCIe NVMe M-Key and B+M Key SSDs in sizes 2230, 2242, 2260, and 2280. SATA SSDs are not supported.

Enfriamiento controlado inteligente

Ventilador integrado para estabilidad y vida útil del SSD.



Enfriamiento eficiente

Image: Visual guide to compatible NVMe SSD types (M-Key, B+M Key NVMe) and incompatible SATA SSD types (B-Key SATA, B+M Key SATA).

4.2 Tool-Free SSD Installation

1. **Open the Enclosure:** Gently slide open the left and right covers of the enclosure from the top notch.
2. **Insert SSD:** Align your M.2 NVMe SSD with the slot and insert it firmly. Ensure it is seated correctly.
3. **Close the Enclosure:** Close the covers. They will secure magnetically.

SSD Capacity Computer Model	Samsung 990PRO PCIe4.0 1TB (W/R)	Hikvision C4000 PCIe4.0 4TB (W/R)
Mac mini M1 2020	941MB/s / 940MB/s	929MB/s / 935MB/s
MacBook Pro M1 Pro	938MB/s / 941MB/s	937MB/s / 940MB/s
MacBook Pro 15-inch, 2017	955MB/s / 960MB/s	953MB/s / 958MB/s
ThinkPad Z13 AMD	980MB/s / 986MB/s	954MB/s / 973MB/s
Dell Precision 5760	912MB/s / 930MB/s	910MB/s / 933MB/s
Dell Inspiron 14 Plus 7440	1658MB/s / 1787MB/s	1612MB/s / 1712MB/s
HP EliteBook 840 G8	983MB/s / 1000MB/s	983MB/s / 987MB/s

Nota: Los datos de rendimiento se basan en un solo SSD; Cuando dos SSD funcionan simultáneamente, la velocidad disminuye a aproximadamente la mitad de los valores probados.

Image: Step-by-step illustration of how to open the enclosure, insert an M.2 SSD, and close the enclosure.

5. OPERATING INSTRUCTIONS

5.1 Connecting to a Device

Connect the enclosure to your computer, laptop, or compatible mobile device using the provided USB-C to USB-C cable. For devices with USB-A ports, use the detachable USB-A adapter. The enclosure supports plug-and-play functionality.

Chip inteligente para un rendimiento máximo

Gestión inteligente de nivelación de desgaste, prolonga eficazmente la vida útil del SSD.



Image: The enclosure connected to a laptop, illustrating its 20Gbps ultra-fast transfer speed.

5.2 Data Transfer Speed

The USB 3.2 Gen 2x2 port offers up to 20 Gbps, allowing a single SSD to achieve approximately 1800 MB/s read and write speeds. When two SSDs are installed, they share the full 20 Gbps bandwidth for stable, high-speed transfers.



Velocidad de transmisión 20 Gbps

Velocidad extrema: Instantánea de vídeo,
Null-Warte-Spiel-Laden.

Image: A table detailing performance benchmarks (read/write speeds) across different computer models using specific SSDs.

5.3 OTG Compatibility

The enclosure supports On-The-Go (OTG) functionality, allowing direct access to data from compatible Android phones and tablets.



Acceso móvil OTG

Acceso instantáneo a datos para teléfono y tablet

Image: A user accessing data from the enclosure directly on a smartphone via OTG connection.

5.4 RAID 0 Configuration

RAID 0 is available for users who desire faster combined performance and expanded capacity. This configuration requires software setup using operating system tools (e.g., Disk Management in Windows, Disk Utility in macOS). Please note that RAID 0 stripes data across both drives, meaning if one drive fails, all data on both drives may be lost.

6. MAINTENANCE

6.1 Smart Cooling System

The enclosure features a solid aluminum casing and an integrated cooling fan to maintain stable temperatures during prolonged transfers. The fan automatically adjusts its speed, operating quietly during light tasks and increasing power when the enclosure heats up, ensuring reliable performance and extending SSD lifespan.

Almacenamiento de alta eficiencia tamaño bolsillo

Size: 1.6*1.7*5.0in



• Compared to a 6.9" phone.

Image: An exploded view showing the internal cooling fan and a temperature comparison graph demonstrating efficient cooling.

6.2 UASP and Trim Support

The enclosure supports UASP (USB Attached SCSI Protocol) and Trim commands. UASP enhances transfer responsiveness, while Trim helps maintain long-term SSD performance by optimizing data management.



Image: A visual representation of the intelligent chip (JMS586A) and its supported features: UASP, S.M.A.R.T., and TRIM.

6.3 Cleaning

To clean the enclosure, use a soft, dry cloth. Avoid using liquid cleaners or solvents, as they may damage the device.

7. TROUBLESHOOTING

• Device Not Detected:

- Ensure the SSD is correctly installed and seated firmly in the slot.
- Try connecting the enclosure to a different USB port on your computer.
- Verify that the USB cable is securely connected at both ends.
- Check if the SSD itself is functional by testing it in another compatible device if possible.
- For new SSDs, ensure they are initialized and formatted in your operating system's Disk Management (Windows) or Disk Utility (macOS).

• Slow Transfer Speeds:

- Ensure you are connected to a USB 3.2 Gen 2x2 (20Gbps) compatible port on your host device. USB-A ports typically support up to 10Gbps.
- Confirm your SSD is an NVMe drive, not a SATA drive. SATA drives will not function in this enclosure.
- Close other applications that might be consuming system resources or disk I/O.
- Ensure your operating system and drivers are up to date.

- **Overheating:**

- Ensure the enclosure is placed in a well-ventilated area.
- Avoid blocking the fan vents.
- Prolonged heavy data transfers can generate heat; the intelligent cooling system is designed to manage this. If overheating persists, reduce workload or allow the device to cool.

8. WARRANTY AND SUPPORT

WAVLINK products typically come with a standard manufacturer's warranty. Please refer to the warranty card included with your product or visit the official WAVLINK website for specific warranty terms and conditions.

8.1 Customer Support

For technical assistance or customer service, please contact WAVLINK support:

- **Email:** Contact@wavlink.com
- **Phone:** +1 8889730883 (UTC -5) Mon - Fri 9AM - 6PM
- **Website:** www.wavlink.com

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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

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