

UGREEN 80863

UGREEN M.2 NVME SATA SSD Enclosure (Model 80863) User Manual

1. PRODUCT OVERVIEW

The UGREEN M.2 NVME SATA SSD Enclosure (Model 80863) is designed to convert an M.2 NVME or SATA SSD into a portable external storage device. It features a USB-C 3.1 Gen 2 interface, offering data transfer speeds up to 10Gbps. This enclosure supports various M.2 SSD types and sizes, providing a versatile solution for data access and backup.

Key Features:

- **High-Speed Data Transfer:** USB 3.1 Gen 2 interface supports up to 10Gbps for NVME SSDs and 6Gbps for SATA SSDs.
- **Broad Compatibility:** Supports M-Key NVME, M+B Key NVME, and M+B Key SATA M.2 SSDs.
- **Multiple SSD Sizes:** Compatible with 2230, 2242, 2260, and 2280 form factors.
- **Tool-Free Installation:** Easy and quick SSD installation without the need for tools.
- **Durable Design:** Aluminum alloy casing for efficient heat dissipation and protection.
- **Wide OS Support:** Compatible with Windows, macOS, Linux, Android, and iOS devices.

NVME & SATA Compatible



M KEY NVME



M+B KEY NVME



M+B KEY SATA

Image: The enclosure supports both NVME and SATA M.2 SSDs, including M-Key NVME, M+B Key NVME, and M+B Key SATA, in sizes 2230, 2242, 2260, and 2280.



The image shows a sleek, dark blue UGREEN USB 3.1 Gen2 enclosure connected to a laptop. The enclosure is connected via a black USB cable. The background features a large, stylized '10 Gbps' text and icons representing various data types like music, photos, and documents. Below the enclosure, the text '10Gbps Transfer Speed' is prominently displayed. Underneath, 'USB 3.1 GEN2' is written. At the bottom, there are two horizontal bars: a grey bar for SATA labeled '6Gbps' and a green bar for NVME labeled '10Gbps'.

10Gbps Transfer Speed

USB 3.1 GEN2

SATA	<div></div>	6Gbps
NVME	<div></div>	10Gbps

Image: The enclosure provides high-speed data transfer, reaching up to 10Gbps for NVME SSDs and 6Gbps for SATA SSDs via USB 3.1 Gen 2.



Image: Please note that this enclosure is **NOT compatible** with M-SATA SSDs.

2. PACKAGE CONTENTS

- UGREEN M.2 NVME SATA SSD Enclosure (Model 80863)
- USB-C to USB-C Cable
- USB-C to USB-A Cable
- User Manual



Image: The package includes the enclosure and two types of USB cables for broad connectivity.

3. SETUP INSTRUCTIONS

Tool-Free SSD Installation:

1. **Slide Open:** Gently slide the top cover of the enclosure to open it.
2. **Insert SSD:** Align your M.2 SSD with the slot inside the enclosure and insert it firmly.
3. **Secure SSD:** Use the provided rubber fastener to secure the M.2 SSD in place. Ensure it is properly seated.
4. **Close Enclosure:** Slide the top cover back onto the enclosure until it clicks into place.

Tool-free Installation



Image: Follow these simple steps for tool-free installation of your M.2 SSD into the enclosure.

4. OPERATING INSTRUCTIONS

Connecting to a Device:

After installing your M.2 SSD, connect the enclosure to your computer, laptop, tablet, or smartphone using the appropriate USB-C cable (USB-C to USB-C or USB-C to USB-A). The enclosure is plug-and-play, requiring no additional drivers for most operating systems.

Data Transfer:

Once connected, your operating system should recognize the SSD as an external drive. You can then perform data transfer operations such as copying files, backing up data, or running applications directly

from the SSD.

Compatibility:

The enclosure is compatible with a wide range of devices and operating systems, including:

- Windows (PC)
- macOS (Mac)
- Linux
- Android devices
- iOS devices (with appropriate adapters, if needed)



All in One

Windows/Linux/MAC OS/Android/IOS

Image: The enclosure offers broad compatibility across multiple operating systems and device types.



Image: The enclosure can be used for various applications, including photography, gaming, and media consumption.

5. MAINTENANCE

To ensure optimal performance and longevity of your UGREEN M.2 NVME SATA SSD Enclosure, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the enclosure. Avoid using liquid cleaners or solvents.
- **Storage:** Store the enclosure in a cool, dry place away from direct sunlight and extreme temperatures.
- **Handling:** Handle the enclosure with care to prevent physical damage. Avoid dropping it or exposing it to excessive force.
- **Heat Dissipation:** The aluminum casing is designed for heat dissipation. Ensure proper airflow around the enclosure during extended use to prevent overheating.



Image: The aluminum design aids in heat dissipation, crucial for maintaining SSD performance during operation.

6. TROUBLESHOOTING

If you encounter issues with your UGREEN M.2 NVME SATA SSD Enclosure, refer to the following common troubleshooting steps:

- **SSD Not Recognized:**

- Ensure the M.2 SSD is correctly installed and seated firmly within the enclosure.
- Try connecting the enclosure to a different USB port or a different computer to rule out port or system issues.
- Verify that the M.2 SSD is properly initialized and formatted in your operating system's Disk Management (Windows) or Disk Utility (macOS). New SSDs often require initialization before use.
- Confirm your SSD is NVME or SATA M.2 and not an incompatible type like M-SATA.

- **Slow Transfer Speeds:**

- Ensure you are using a USB 3.1 Gen 2 compatible port on your host device to achieve maximum speeds. Older USB 2.0 or 3.0 ports will result in lower speeds.
- Check the quality of the USB cable. Use the provided UGREEN cables for optimal performance.
- Large file transfers or prolonged heavy use can cause the SSD to heat up, potentially leading to thermal throttling and reduced speeds. Ensure adequate ventilation.

- **"Power Surge on USB Port" Error:**

- This error typically indicates that the USB port is not supplying sufficient power or there is an electrical issue.
- Try connecting the enclosure to a different USB port, preferably a powered USB 3.0/3.1 port directly on your computer's motherboard (for desktops) or a different laptop.
- Avoid using unpowered USB hubs, which may not provide enough power.
- Ensure the SSD is correctly installed and not causing a short circuit.

- **Enclosure Gets Hot:**

- It is normal for the enclosure to become warm during operation, especially during intensive data transfers, as the aluminum casing acts as a heatsink to dissipate heat from the SSD.
- If it becomes excessively hot and performance drops, ensure it is in a well-ventilated area.

7. SPECIFICATIONS

Feature	Specification
Model Number	80863
Material	Aluminum
Interface	USB-C 3.1 Gen 2
Data Transfer Rate	Up to 10 Gbps (NVME), 6 Gbps (SATA)
Compatible SSD Types	M-Key NVME, M+B Key NVME, M+B Key SATA
Compatible SSD Sizes	2230, 2242, 2260, 2280
Max Storage Capacity	2 TB
Compatible Devices	Laptop, PC, Mac, Android, iOS
Operating Systems	Windows, macOS, Linux, Android, iOS

Feature	Specification
Product Dimensions	4.69 x 1.46 x 0.47 inches (11.9 x 3.7 x 1.2 cm)
Item Weight	2.26 ounces (64 grams)

8. WARRANTY AND SUPPORT

UGREEN products come with a standard warranty. For detailed warranty information, product support, or technical assistance, please refer to the warranty card included in your package or visit the official UGREEN website. You may also contact UGREEN customer service directly through their support channels.