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> UGREEN SSD Enclosure, Tool-Free USB C External, 10Gbps M.2 NVMe to USB Adapter/Reader Supports M and B&M Keys and Size 2230/2242 /2260/2280 SSDs

UGREEN 90541

UGREEN SSD Enclosure Instruction Manual

Model: 90541

1. PRODUCT OVERVIEW

The UGREEN SSD Enclosure is a tool-free USB-C external adapter designed for M.2 NVMe SSDs. It supports M and B&M keys and various SSD sizes (2230, 2242, 2260, 2280) up to 8TB. This enclosure provides high-speed data transfer rates of up to 10Gbps, making it ideal for expanding storage, transferring large files, and data recovery. Its aluminum alloy housing and silicone case offer durability and effective heat dissipation.

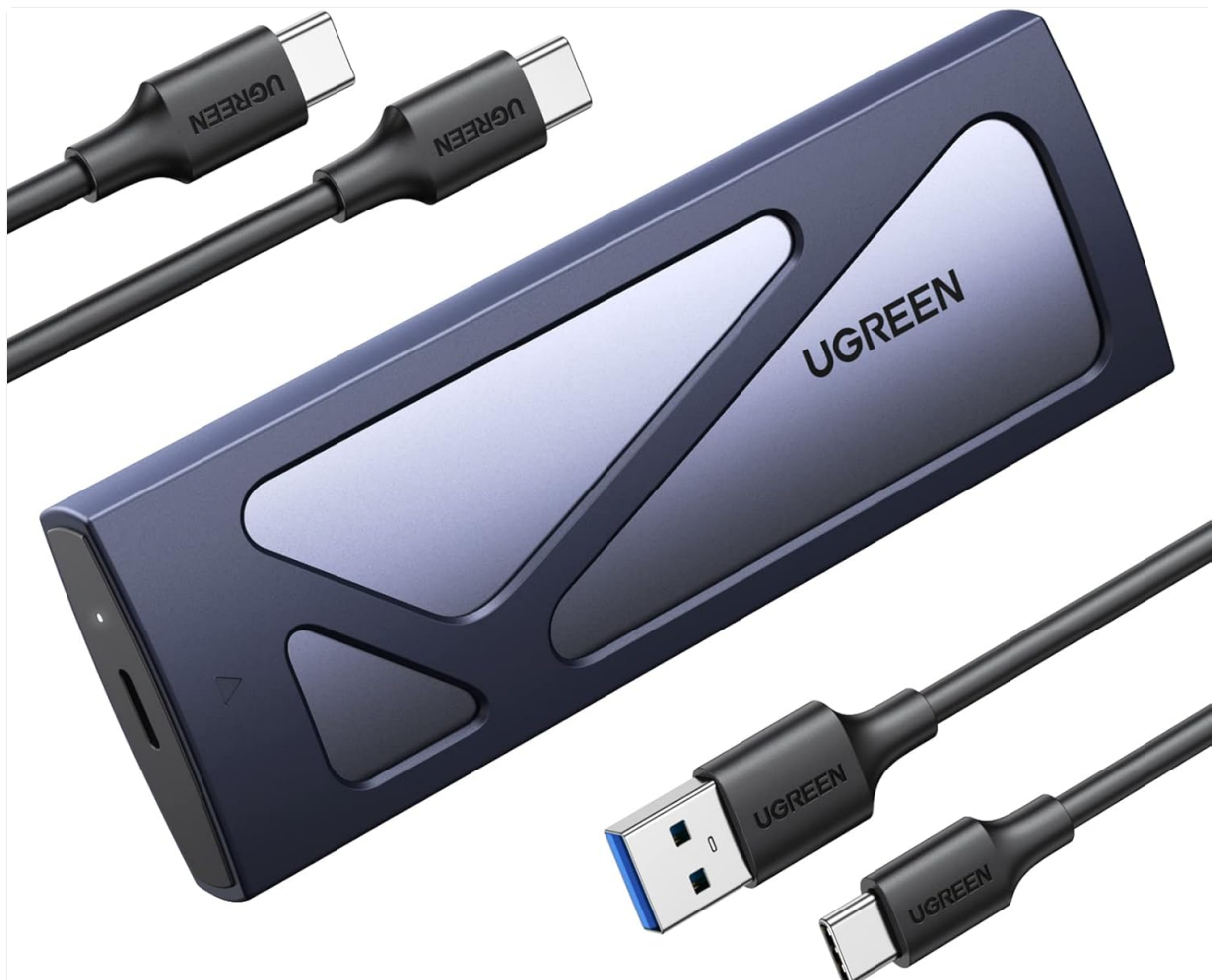


Figure 1: UGREEN SSD Enclosure with included USB-C to USB-C and USB-C to USB-A cables.

The enclosure features a push-button mechanism for tool-free installation and removal of SSDs, ensuring convenience and ease of use. The robust design provides all-round protection for your valuable data.



Figure 2: Illustrates the all-round protection provided by the enclosure's design.

2. WHAT'S IN THE BOX

- Tool-free NVMe M.2 SSD Enclosure
- USB C to USB C Cable
- USB C to USB A Cable
- Silicone Thermal Pad
- User Manual
- External Silicone Case

3. SETUP AND INSTALLATION

Follow these steps for quick and easy installation of your M.2 NVMe SSD into the UGREEN enclosure. No tools are required.

Easy and Quick Installation



Figure 3: Visual guide for the installation process.

1. Press the "PUSH" button on the enclosure to open the tray.
2. Insert your M.2 NVMe SSD into the slot, aligning the interface at a 45-degree angle.
3. Use the included rubber screws to secure the SSD in place. Rotate the rubber buckle to ensure the SSD is fixed without shaking.
4. Peel off the protective film from both sides of the silicone thermal pad and paste it onto the M.2 SSD.
5. Slide the tray back into the enclosure until it clicks securely.
6. Connect the enclosure to your device (PC/laptop) using the provided USB-C to USB-C or USB-C to USB-A cable.



Figure 4: Detail of the push mechanism for easy SSD installation and removal.

Installation Video Guide



Video 1: Official UGREEN guide for tool-free M.2 NVMe SSD Enclosure installation (27 seconds).



Video 2: Official UGREEN guide for M.2 NVMe Enclosure USB C 3.2 installation (43 seconds).

4. OPERATING INSTRUCTIONS

Once the SSD is securely installed and the enclosure is connected to your device, it will function as an external storage drive. For optimal performance, ensure your device supports USB 3.2 Gen2 and use the provided cables to achieve the advertised 10Gbps data transfer rates.

USB 3.2 10Gbps Fast Transmission

1G file transfer in one second



Figure 5: Demonstrates the 10Gbps fast transmission capability of the enclosure.

The enclosure supports UASP (USB Attached SCSI Protocol) and Trim, which enhance transfer speeds and prolong the lifespan of your SSD. Simply drag and drop files to and from the external drive as you would with any other storage device.

5. COMPATIBILITY

The UGREEN M.2 NVMe SSD enclosure is broadly compatible with various devices and operating systems. It is specifically designed for NVMe protocol M/B&M keys and supports 2230, 2242, 2260, and 2280 size SSDs up to 8TB.

Designs for M.2 NVMe SSDs



Figure 6: Compatible M.2 NVMe SSD sizes and key types (M Key, B&M Key).

Compatible Systems: Windows, Mac OS, Linux, Android, IOS systems.

Compatible Devices: Laptops, desktop computers, tablets, and smartphones (with appropriate USB-C ports).

Wide Compatibility



Figure 7: Overview of device and system compatibility.

Important Note: This **does not support** SATA NGFF SSDs or mSATA SSDs. SSDs with heatsinks are also not supported due to space constraints.

6. HEAT DISSIPATION

The UGREEN SSD Enclosure is designed with effective heat dissipation in mind to ensure stable performance and protect your SSD. It features an aluminum alloy shell and includes a 3mm thickened silicone cooling pad.

Effective Heat Dissipation

3 layers of cooling to protect your SSD

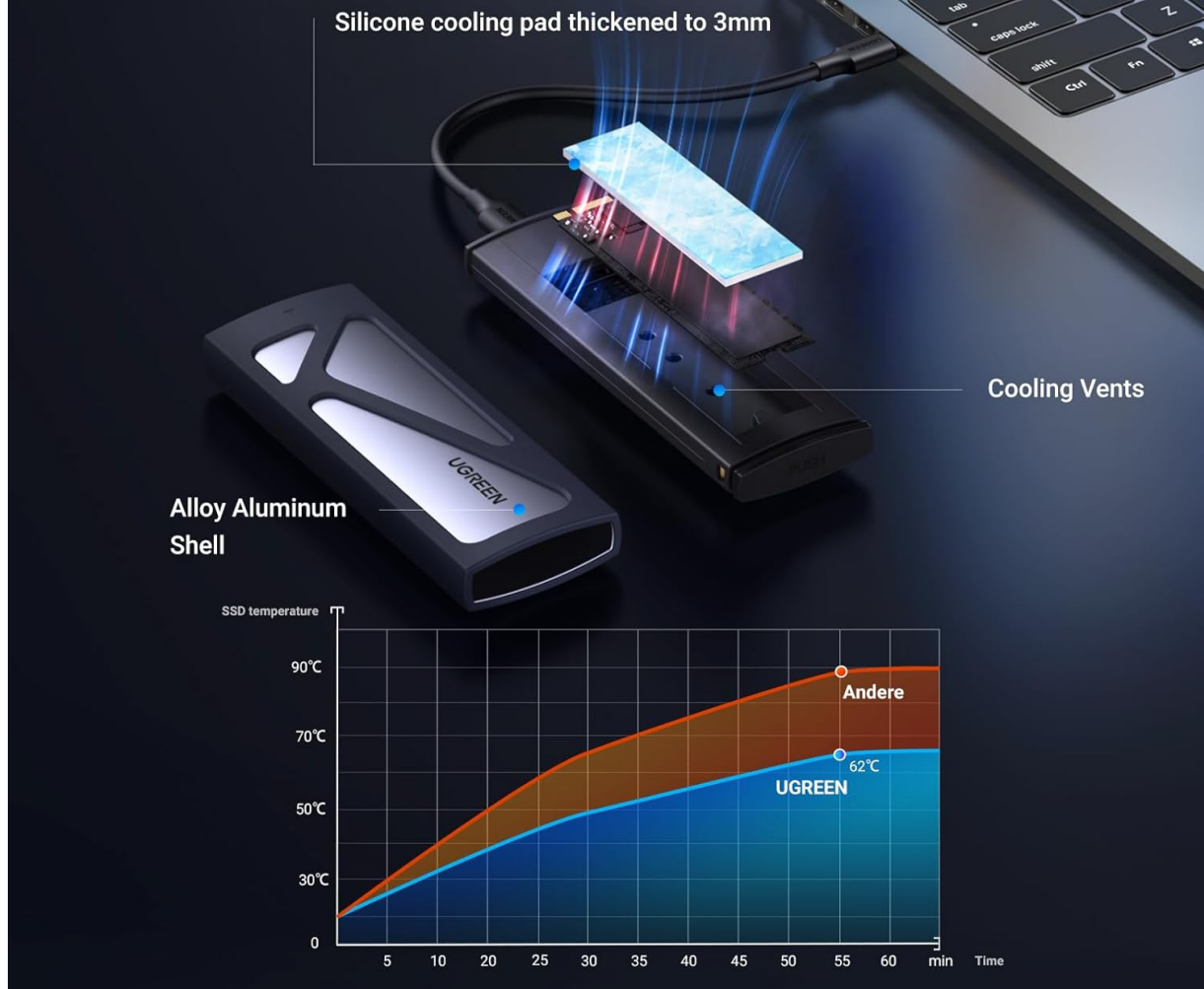


Figure 8: The enclosure's effective heat dissipation system.

The advanced RTL9210 chip, combined with the aluminum housing and thermal pad, helps to dissipate heat generated during high-speed data transfers, preventing overheating and ensuring the longevity of your SSD.

7. SPECIFICATIONS

Feature	Detail
Brand	UGREEN
Model Number	90541
Material	Aluminum
Color	Grey
Data Transfer Rate	10Gbps (USB 3.2 Gen2)
Compatible SSDs	M.2 NVMe (M Key, B&M Key)

Feature	Detail
Supported SSD Sizes	2230, 2242, 2260, 2280
Max Storage Capacity	8 TB
Dimensions	4.8 x 1.65 x 0.55 inches
Item Weight	4.9 ounces (139 Grams)
Chipset	RTL9210

8. TROUBLESHOOTING

- **SSD Not Recognized:** If your SSD is not recognized after installation, ensure it is an NVMe M.2 SSD (not SATA). For new SSDs, you may need to initialize and partition the disk through your operating system's Disk Management utility (Windows) or Disk Utility (Mac OS).
- **Slow Transfer Speeds:** Verify that your device's USB port supports USB 3.2 Gen2 (10Gbps) and that you are using the provided USB-C to USB-C cable for optimal performance. Older USB standards (e.g., USB 2.0, USB 3.0/3.1 Gen1) will result in lower speeds.
- **Enclosure Overheating:** While the aluminum housing and thermal pad are designed for heat dissipation, prolonged high-intensity use may cause the enclosure to warm up. This is normal. Ensure proper airflow around the enclosure.
- **SSD Not Fitting:** Double-check that your M.2 SSD is an NVMe type and matches one of the supported sizes (2230/2242/2260/2280). SSDs with pre-installed heatsinks may not fit.

9. MAINTENANCE

To ensure the longevity and optimal performance of your UGREEN SSD Enclosure, follow these simple maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the enclosure. Avoid using liquid cleaners or abrasive materials.
- **Handling:** Handle the enclosure with care. While it offers protection, avoid dropping, crushing, or throwing the product to prevent internal damage to the SSD.
- **Storage:** Store the enclosure in a cool, dry place away from direct sunlight and extreme temperatures.
- **Disassembly:** Do not attempt to disassemble or repair the product yourself, as this may void the warranty and cause damage.

10. WARRANTY AND SUPPORT

UGREEN products are designed and manufactured to the highest quality standards. For warranty information, technical support, or any product-related inquiries, please refer to the contact details provided in the packaging or visit the official UGREEN website. Keep your purchase receipt for warranty claims.

For more information, visit the [UGREEN Store on Amazon](#).