ORICO B0BPP928BW

ORICO M.2 NVMe SATA SSD Enclosure Adapter User Manual

Model: B0BPP928BW

PRODUCT OVERVIEW

The ORICO M.2 NVMe SATA SSD Enclosure Adapter provides a versatile solution for converting M.2 NVMe or SATA SSDs into a portable external storage device. This tool-free enclosure supports USB C 3.2 Gen 2 for NVMe SSDs, offering speeds up to 10Gbps, and USB C 3.2 Gen 1 for M.2 SATA SSDs, with speeds up to 5Gbps. Its aluminum construction and integrated cooling vest enhance heat dissipation, ensuring stable performance. The enclosure is compatible with various M.2 SSD sizes (2230, 2242, 2260, 2280) and operating systems, making it suitable for a wide range of applications.

WHAT'S IN THE BOX

Verify that all components are present in the package:

Packing list

① M.2 Enclosure
② Package
③ USB-C to C Cable
④ Silicone Plug*2
⑤ Thermal Pad
⑥ Cooling Vest
⑦ Instruction Book

Image: Contents of the ORICO M.2 SSD Enclosure package, showing the enclosure, USB-C to USB-A cable, USB-C to USB-C cable, thermal pad, cooling vest, and instruction book.

- 1 x ORICO M.2 Enclosure
- 1 x USB-C to USB-A Cable (50cm / 20in)
- 1 x USB-C to USB-C Cable (50cm / 20in)
- 1 x Thermal Pad
- 1 x Cooling Vest (Heatsink)
- 2 x Silicone Plugs
- 1 x Instruction Book

SETUP AND INSTALLATION

The ORICO M.2 Enclosure features a tool-free design for easy SSD installation.

Easy to install
Tool-free

1 Slide the button cover to the left and pull the shell out.

2 Stick the thermal pad and the cooling vest on the SSD.

3 Stick the silicone plug to the SSD and insert the SSD in.

4 Place the shell back and slide the button cover back.

Image: Four steps illustrating the tool-free installation process: sliding the cover, applying thermal pad and cooling vest, inserting the SSD with a silicone plug, and closing the cover.

1. **Open the Enclosure:** Slide the button cover to the left and gently pull the shell out to open the enclosure.

2. **Prepare the SSD:** Stick the thermal pad onto your M.2 SSD. Then, place the cooling vest (heatsink) on top of the thermal pad, ensuring good contact.

3. **Insert the SSD:** Carefully insert your M.2 NVMe or SATA SSD into the enclosure's M.2 slot. Secure the SSD in place using the provided silicone plug.

4. **Close the Enclosure:** Slide the shell back into place and push the button cover to the right until it locks, securing the SSD within the enclosure.

OPERATION

After installing your SSD, connect the enclosure to your computer or device using one of the provided USB cables.

Image: The ORICO M.2 SSD Enclosure connected to a laptop, illustrating its high-speed data transfer capabilities for both NVMe and SATA M.2 SSDs.

- **Connection:** Use the USB-C to USB-C cable for devices with a USB-C port, or the USB-C to USB-A cable for devices with a standard USB-A port.
- **Data Transfer Speeds:**
  - When using an **NVMe M.2 SSD**, the enclosure supports USB 3.2 Gen 2, providing data transfer rates up to 10Gbps (approximately 1000MB/s read/write).
  - When using an **M.2 SATA SSD**, the enclosure supports USB 3.2 Gen 1, providing data transfer rates up to 5Gbps (approximately 450MB/s read/write).

- **Initial Use:** For new SSDs, you may need to initialize and format the drive through your operating system's disk management utility before it can be used for storage.
- **Safe Removal:** Always safely eject the drive from your operating system before disconnecting the enclosure to prevent data corruption.

MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your ORICO SSD enclosure.
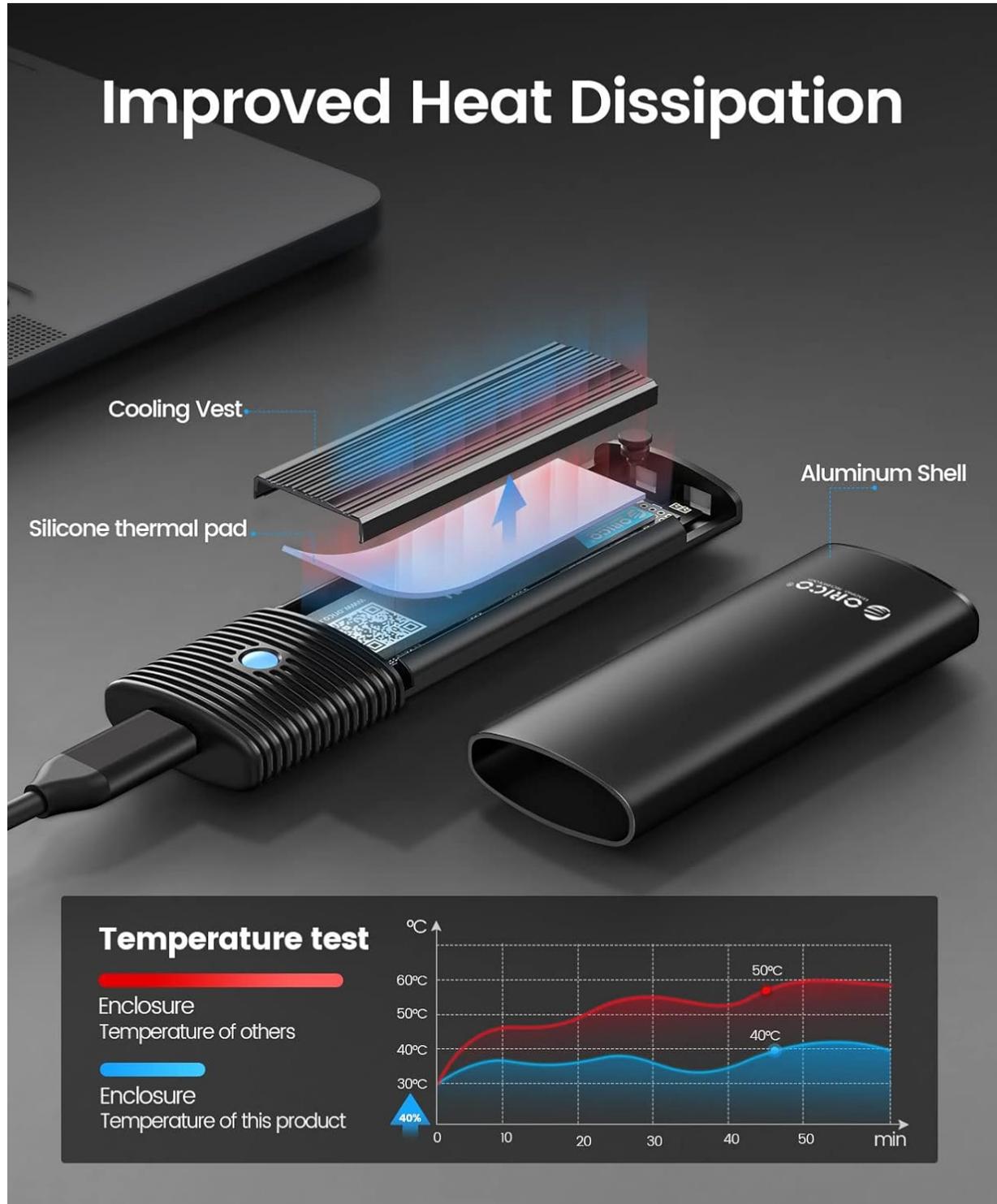

Image: An exploded view illustrating the heat dissipation mechanism of the enclosure, highlighting the cooling vest, silicone thermal pad, and aluminum shell working together to reduce SSD temperature.

- **Heat Dissipation:** The enclosure is designed with an aluminum shell, a cooling vest, and a thermal silicone pad to effectively dissipate heat from the SSD. Ensure these components are correctly installed for optimal thermal performance.

- **Cleaning:** Keep the enclosure clean and free from dust. Use a soft, dry cloth to wipe the exterior. Avoid using liquid cleaners directly on the device.
- **Storage:** Store the enclosure in a cool, dry place away from direct sunlight and extreme temperatures when not in use.
- **Physical Protection:** While durable, avoid dropping the enclosure or subjecting it to strong impacts, which could damage the internal SSD or the enclosure itself.

TROUBLESHOOTING

If you encounter issues with your ORICO M.2 SSD Enclosure, consider the following troubleshooting steps:

- **Drive Not Detected:**
    - Ensure the SSD is correctly seated in the M.2 slot and secured with the silicone plug.
    - Try a different USB port on your computer.
    - Test with a different USB cable.
    - For new SSDs, check Disk Management (Windows) or Disk Utility (macOS) to see if the drive needs to be initialized and formatted.
    - Verify that your SSD is compatible (M-Key/B+M Key NVMe or B+M Key SATA).

- **Slow Transfer Speeds:**
    - Ensure you are connecting to a USB 3.0/3.1/3.2 port on your computer for optimal speeds. USB 2.0 ports will limit performance.
    - Confirm your SSD is capable of the expected speeds.
    - Check if your operating system and drivers are up to date.
    - Ensure the cooling vest and thermal pad are correctly installed to prevent thermal throttling.

- **Enclosure Overheating:**
    - Verify that the cooling vest and thermal pad are properly installed and making good contact with the SSD and enclosure.
    - Ensure adequate airflow around the enclosure.
    - Prolonged heavy data transfer can generate heat; this is normal, but excessive heat may indicate an issue with thermal management components.

- **Intermittent Disconnections:**
    - Check for loose cable connections.
    - Try a different USB cable or port.
    - Ensure your computer's power settings are not configured to turn off USB devices to save power.

SPECIFICATIONS

Model	B0BPP928BW
Brand	ORICO
Hardware Interface	USB Type C

Data Transfer Rate	10 Gigabits Per Second (NVMe), 5 Gigabits Per Second (SATA)
Compatible SSD Types	M.2 NVMe M Key / B+M Key, M.2 NGFF SATA B+M Key SSD
Supported SSD Sizes	2230, 2242, 2260, 2280
Maximum SSD Capacity	Up to 4TB
Material	Aluminum
Compatible Operating Systems	Windows, Mac OS, Linux, Android
Features	Tool-Free Design, UASP Support, TRIM Support, Enhanced Heat Dissipation (Cooling Vest, Thermal Pad)

WARRANTY AND SUPPORT

ORICO products typically come with a manufacturer's warranty. For specific warranty details, including duration and coverage, please refer to the warranty card included in your product packaging or visit the official ORICO website. For technical support, product inquiries, or assistance with troubleshooting, please contact ORICO customer service directly through their official channels.

You can often find support contact information on the ORICO website or within the instruction book provided with your enclosure.