Lemorele SD1L-m.2 nvme

Lemorele M.2 NVMe Enclosure User Manual

Model: SD1L-m.2 nvme

1. Introduction

Thank you for choosing the Lemorele M.2 NVMe Enclosure. This device provides a high-speed, portable solution for your M.2 NVMe SSDs, allowing you to utilize them as external storage. Designed for ease of use and efficient heat dissipation, this enclosure ensures reliable performance for your data transfer needs.

Important Notice: This product exclusively supports NVMe protocol M.2 SSDs. It is NOT compatible with any SATA-based drives, including SATA NGFF (M.2 SATA) SSDs and mSATA SSDs. For new SSDs, initialization is required before they can be recognized by your computer.



Figure 1: Lemorele M.2 NVMe Enclosure and included cables.

2. Setup and Installation

The Lemorele M.2 NVMe Enclosure features a tool-free design for quick and easy SSD installation.

2.1. Supported SSD Types and Sizes

This enclosure supports M-Key NVMe PCIe M.2 SSDs of various sizes: 2230, 2242, 2260, and 2280. Ensure your SSD is NVMe protocol and not SATA.

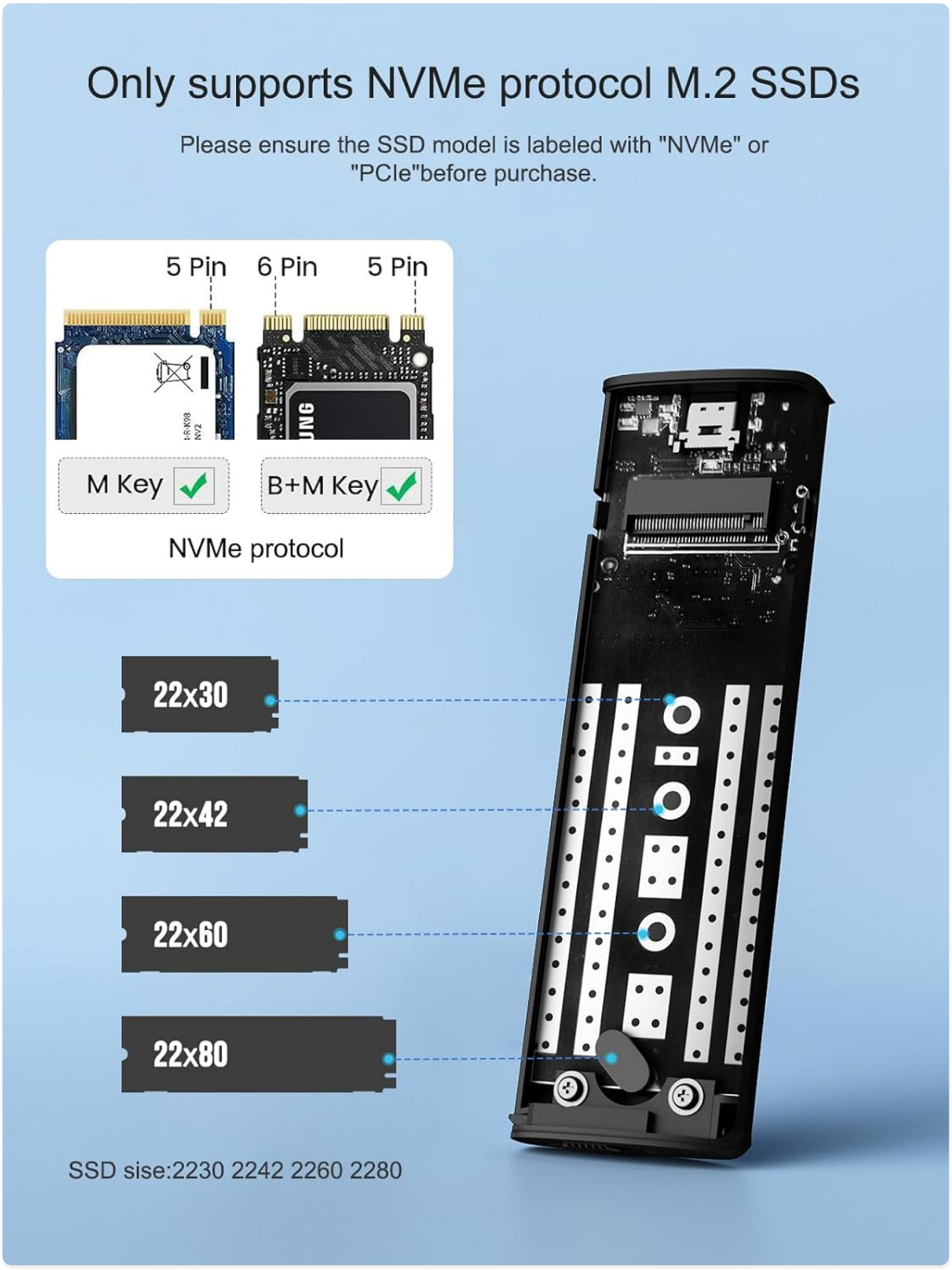


Figure 2: Supported M.2 NVMe SSD types and sizes.

2.2. SSD Installation Steps

1. Gently push the case to open the enclosure. The internal tray will slide out.
2. Align your M.2 NVMe SSD with the M-Key slot on the internal circuit board. Insert the SSD firmly into the slot at an

angle.

3. Once inserted, gently press down the other end of the SSD. Secure it in place using the provided small plastic fastener.
4. Slide the internal tray back into the aluminum alloy shell until it clicks securely into place.

Your browser does not support the video tag.

Video 1: Visual guide for M.2 NVMe SSD installation into the enclosure.

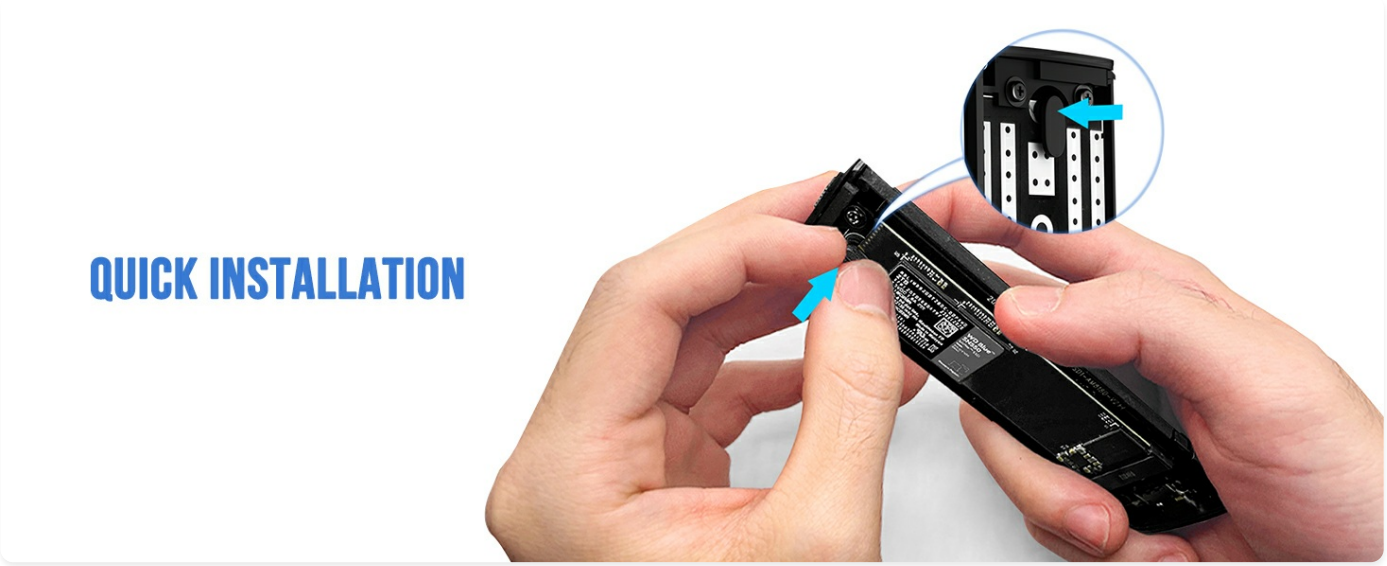


Figure 3: Quick installation process of the SSD.

3. Operating Instructions

The Lemorele M.2 NVMe Enclosure is designed for plug-and-play functionality, requiring no additional drivers for most operating systems.

3.1. Connectivity and Compatibility

Connect the enclosure to your device using the provided USB-C to USB-A or USB-C to USB-C cable. The device interface is Type-C, ensuring broad compatibility.

- **Operating Systems:** Windows, Android, iOS, Mac OS, Linux.
- **Compatible Devices:** Desktop PCs, Laptops, Tablets, PS4, Routers, and other devices supporting external storage via USB.



Figure 4: Wide operating system compatibility.



Figure 5: Various applications for the NVMe enclosure.

3.2. High-Speed Data Transfer

The enclosure utilizes the latest USB 3.2 Gen2 interface, supporting data transfer rates up to 10Gbps. It also supports UASP (USB Attached SCSI Protocol), TRIM, and S.M.A.R.T protocols, which significantly enhance read and write speeds

and optimize SSD performance and lifespan.

- **Data Transfer Rate:** Up to 10 Gigabits Per Second (10Gbps).
- **Protocols Supported:** UASP, TRIM, S.M.A.R.T.



Figure 6: Incredible data transfer speed capabilities.

4. Maintenance and Design Features

4.1. Efficient Heat Dissipation

The enclosure is constructed from aluminum alloy, which provides excellent heat dissipation through direct contact with the SSD. A silicone thermal pad is included to further improve heat transfer, ensuring your SSD operates at optimal temperatures and extends its lifespan, especially during high-speed transfers.



Figure 7: Heat dissipation mechanism.

4.2. Portable and User-Friendly Design

With its small and slim profile, the enclosure is highly portable, making it easy to carry in a bag or pocket. An LED indicator provides visual feedback on the device's connection status.



Figure 8: Compact size for easy portability.

5. Troubleshooting

5.1. SSD Not Recognized

- **New SSD Initialization:** If you are using a brand new SSD, it needs to be initialized and formatted before it can be recognized by your computer. This can typically be done through Disk Management on Windows or Disk Utility on macOS.
- **Compatibility Check:** Double-check that your SSD is an NVMe protocol M.2 SSD. This enclosure does not support SATA M.2 SSDs.
- **Secure Connection:** Ensure the SSD is fully seated in the enclosure's slot and the enclosure is securely connected to your computer's USB port. Try a different USB port or cable.

5.2. Slow Transfer Speeds

- **USB Port Type:** Ensure you are connecting the enclosure to a USB 3.2 Gen2 (10Gbps) compatible port on your computer for maximum speed. Connecting to a USB 2.0 port will result in significantly lower speeds.
- **Cable Quality:** Use the provided high-quality USB cables. Lower quality or longer cables can impact performance.
- **SSD Performance:** The actual transfer speed is also dependent on the performance of your M.2 NVMe SSD.

6. Specifications

Feature	Detail
Brand	Lemorele
Model Number	SD1L-m.2 nvme
Material	Aluminum
Memory Storage Capacity	Up to 2 TB
Compatible Devices	Desktop, Laptop, M.2 NVMe SSD, Tablet
Data Transfer Rate	10 Gigabytes Per Second (10Gbps)
Product Dimensions	1.41 x 0.47 x 4.37 inches
Item Weight	3.52 ounces
Hardware Interface	USB Type C
Color	Silver Grey
Hardware Platform	Linux, Windows, Mac

6.1. What's in the Box

- Lemorele M.2 NVMe Enclosure
- USB-C to USB-A Cable (25cm)
- USB-C to USB-C Cable
- Silicone Thermal Pad
- User Manual

7. Warranty and Support

Lemorele products are designed for reliability and performance. For any technical assistance, warranty claims, or product inquiries, please refer to the official Lemorele support channels.

You can find more information and contact support through the official Lemorele Store:Lemorele Store on Amazon.

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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.

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