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## MOKiN UD1501

# MOKiN UD1501 Dual-Bay NVMe M.2 SSD Enclosure User Manual

Model: UD1501

## PRODUCT OVERVIEW

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The MOKiN UD1501 is a high-performance dual-bay NVMe M.2 SSD enclosure designed for both data storage and offline cloning. It features a 40Gbps USB4 interface for extreme speeds and an upgraded automatic heat dissipation system with a built-in cooling fan to ensure stable operation and safeguard your hard drives. Its tool-free design allows for quick and easy installation of M.2 NVMe SSDs.



Figure 1: MOKiN UD1501 Enclosure and Included Accessories

## SETUP AND INSTALLATION

The UD1501 enclosure features a tool-free design for convenient SSD installation.

1. **Open the Enclosure:** Push the cover in the direction of the arrow to open the enclosure.
2. **Install SSDs:** Insert your NVMe M.2 SSDs into the designated slots. Ensure the 'Source' SSD is in the correct slot and the 'Target' SSD is in its respective slot.
3. **Secure SSDs:** Use the provided clips or fasteners to secure the SSDs firmly in place.
4. **Close the Enclosure:** Slide the cover back until it clicks into place.
5. **Connect Power:** Connect the included 12V/2A power adapter to the enclosure and plug it into a power outlet.
6. **Turn On:** Flip the power switch to the 'On' position.

# One-Key Offline Clone Operation

## Step1:

Push cover in the direction of the arrow;



## Step2:

Install the SSDs;



## Step3:

Insert the fastener;



## Step4:

Long press 'Clone' button for 3s till all the LEDs light up, release it and press the 'Clone' button again.



Figure 2: SSD Installation Steps

## OPERATING INSTRUCTIONS

### Offline Clone Function

The UD1501 allows for direct, offline cloning of SSDs without needing a computer connection. Ensure the capacity of the 'Target SSD' is greater than or equal to the 'Source SSD'.

1. **Insert SSDs:** Place the source SSD into the 'Source' slot and the target SSD into the 'Target' slot.
2. **Power On:** Connect the power adapter and turn on the enclosure.
3. **Initiate Clone:** Press and hold the 'Clone' button for 3 seconds until all LED indicators light up. Release the button, then press it again immediately to start the cloning process.
4. **Monitor Progress:** The blue LED indicators (25%, 50%, 75%, 100%) will illuminate sequentially to show the cloning progress. When the 100% indicator is solid, the cloning is complete.

# One Click Offline Clone

no need to connect laptop,  
12V/2A power adapter included



Figure 3: Offline Clone Setup

# 2-IN-1 M.2 NVMe Enclosure

Tip: Target's capacity  $\geq$  Source's capacity

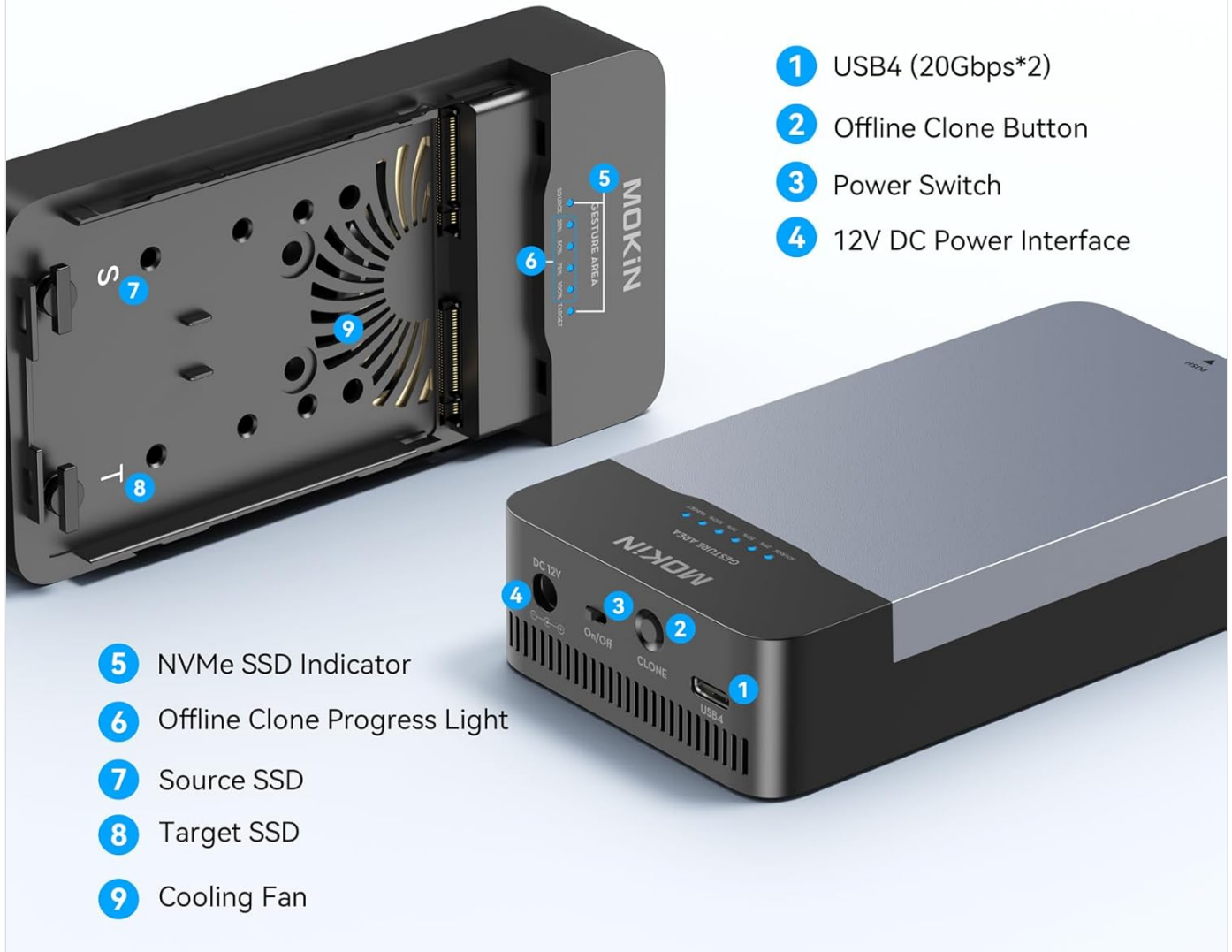


Figure 4: Enclosure Components and Indicators

## Data Transfer (Online Mode)

To use the enclosure as an external SSD drive for data transfer, connect it to your computer using the provided USB-C to USB-C or USB-C to USB-A/C cable. The enclosure supports USB4 speeds up to 40Gbps.

# USB4 Faster Data Transfer

## USB4

40Gbps(20Gbps\*2)SSDs



## USB3.2

10Gbps



## USB3.0

5Gbps

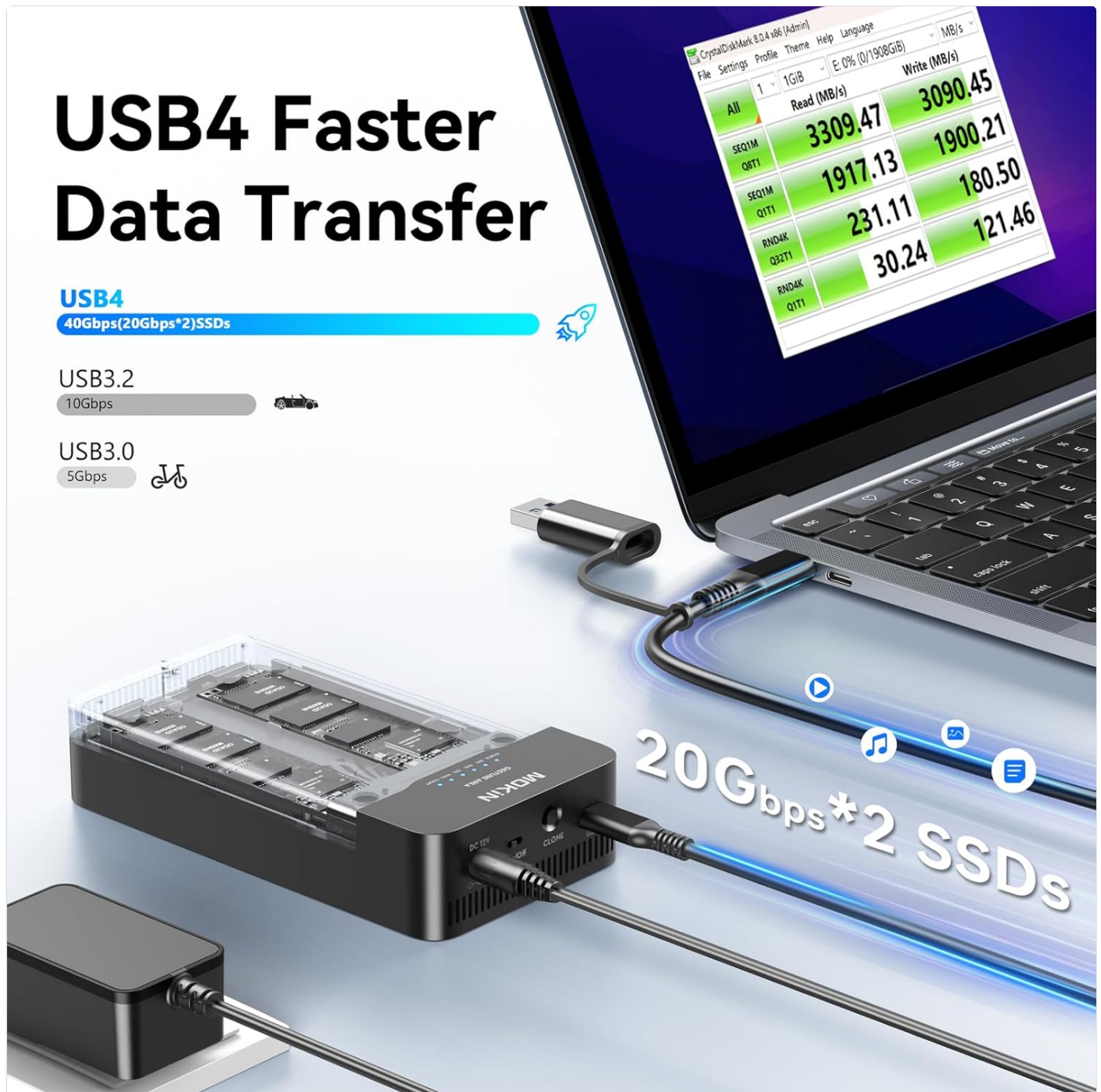


Figure 5: High-Speed Data Transfer via USB4

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Video 1: Demonstration of the 40Gbps NVMe M.2 Duplicator Dual-Bay Offline Clone Tool-Free functionality.

## MAINTENANCE

The MOKiN UD1501 features an upgraded automatic heat dissipation system with a built-in cooling fan to prevent overheating during prolonged use or high-speed operations. This system actively dissipates heat, ensuring the longevity and security of your SSDs.

- Ensure the cooling vents on the enclosure are not obstructed to allow for proper airflow.
- Keep the enclosure in a well-ventilated area.
- Clean the exterior of the enclosure with a soft, dry cloth as needed. Avoid using liquid cleaners.

# Icy Cooling Performance

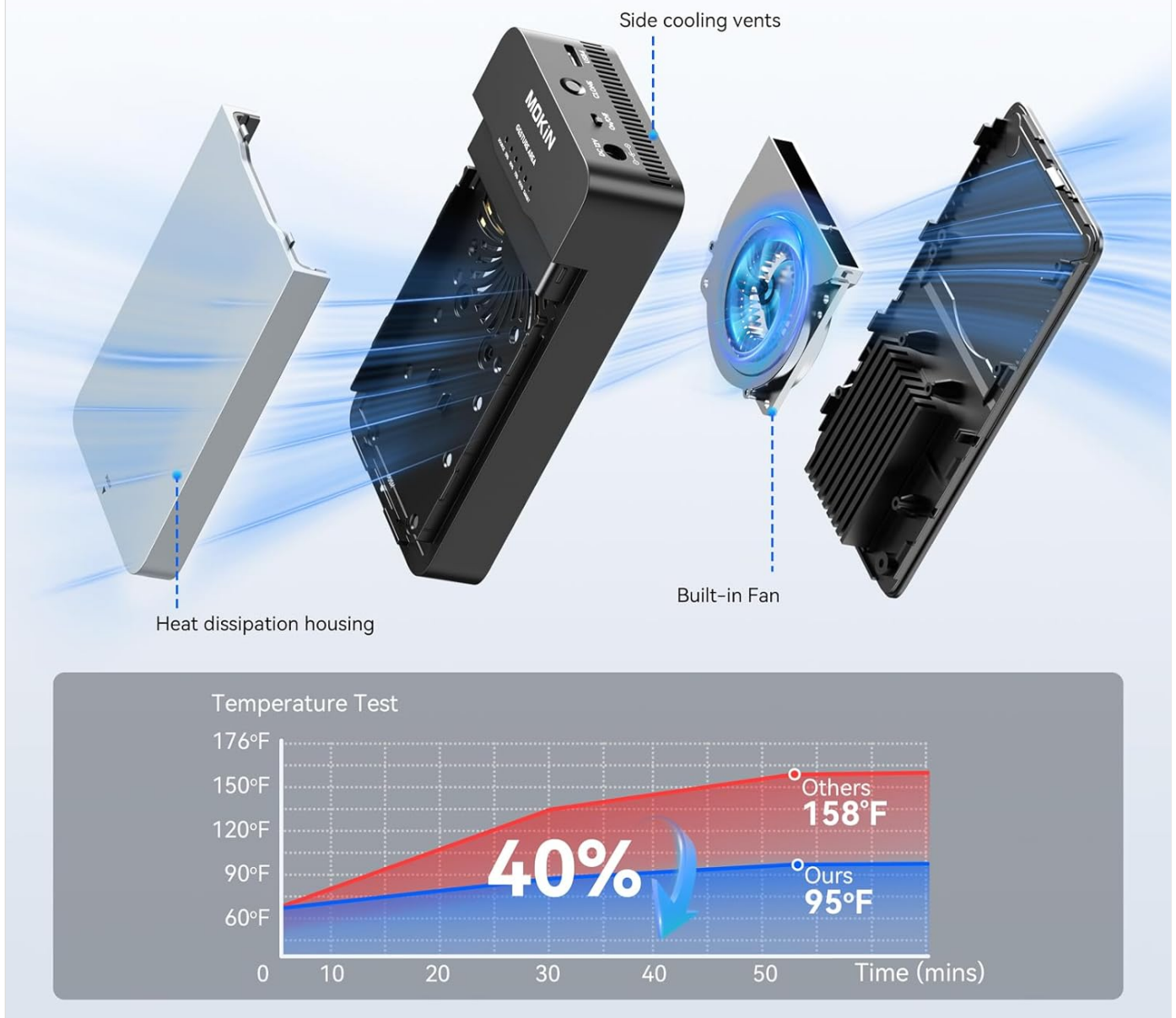


Figure 6: Icy Cooling Performance Features

## TROUBLESHOOTING

Problem	Possible Cause	Solution
Red Constant Light on Indicator	<ul style="list-style-type: none"> <li>SSD not recognized or damaged.</li> <li>Unsupported M.2 SATA drive inserted.</li> <li>Target SSD capacity is less than Source SSD capacity during cloning.</li> </ul>	<ul style="list-style-type: none"> <li>Ensure SSDs are properly seated.</li> <li>Verify SSDs are NVMe M.2 (not SATA or AHCI).</li> <li>For cloning, ensure Target SSD capacity is <math>\geq</math> Source SSD capacity.</li> </ul>
Slow Data Transfer Speeds	<ul style="list-style-type: none"> <li>Connected to a lower speed USB port (e.g., USB 3.0 instead of USB4).</li> <li>Cable issue.</li> </ul>	<ul style="list-style-type: none"> <li>Connect to a USB4 or USB 3.2 Gen 2x2 port on your computer.</li> <li>Try a different high-quality USB-C cable.</li> </ul>

Problem	Possible Cause	Solution
Enclosure Not Detected by Computer	<ul style="list-style-type: none"><li>• Loose cable connection.</li><li>• Power not supplied.</li><li>• Driver issue (rare for plug-and-play).</li></ul>	<ul style="list-style-type: none"><li>• Ensure all cables are securely connected.</li><li>• Verify the power adapter is plugged in and the enclosure is powered on.</li><li>• Try a different USB port or computer.</li></ul>

## SPECIFICATIONS

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- **Model:** UD1501
- **Brand:** MOKiN
- **Memory Storage Capacity:** Up to 8 TB
- **Compatible Devices:** Desktop, Laptop, Router, Smartphone, Tablet
- **Hard Disk Form Factor:** M.2 (2230/2242/2260/2280)
- **Max Number of Supported Devices:** 2
- **Data Transfer Rate:** 40 Gigabits Per Second (USB4)
- **Hardware Interface:** USB 3.0 Type C, USB 3.2 Gen 2x2, USB Type C
- **Color:** Black
- **Material:** Metal
- **Item Weight:** 11.3 ounces
- **Package Dimensions:** 4.96 x 4.88 x 1.69 inches

## COMPATIBILITY

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The MOKiN UD1501 enclosure is designed for wide compatibility:

- **SSD Type:** Supports M.2 PCIe NVMe SSDs with B&M Key or M Key.
- **SSD Sizes:** Compatible with 2230, 2242, 2260, and 2280 form factors.
- **Operating Systems:** Works with Windows, Linux, Mac OS, Chrome OS, and Android.
- **Important Note:** This enclosure **DOES NOT** support M.2 SATA SSDs (B Key or B&M Key) or PCIe AHCI SSDs (M Key).

# Wide Compatibility

Supports 2280/2260/2242/2230 PCIe NVMe SSDs

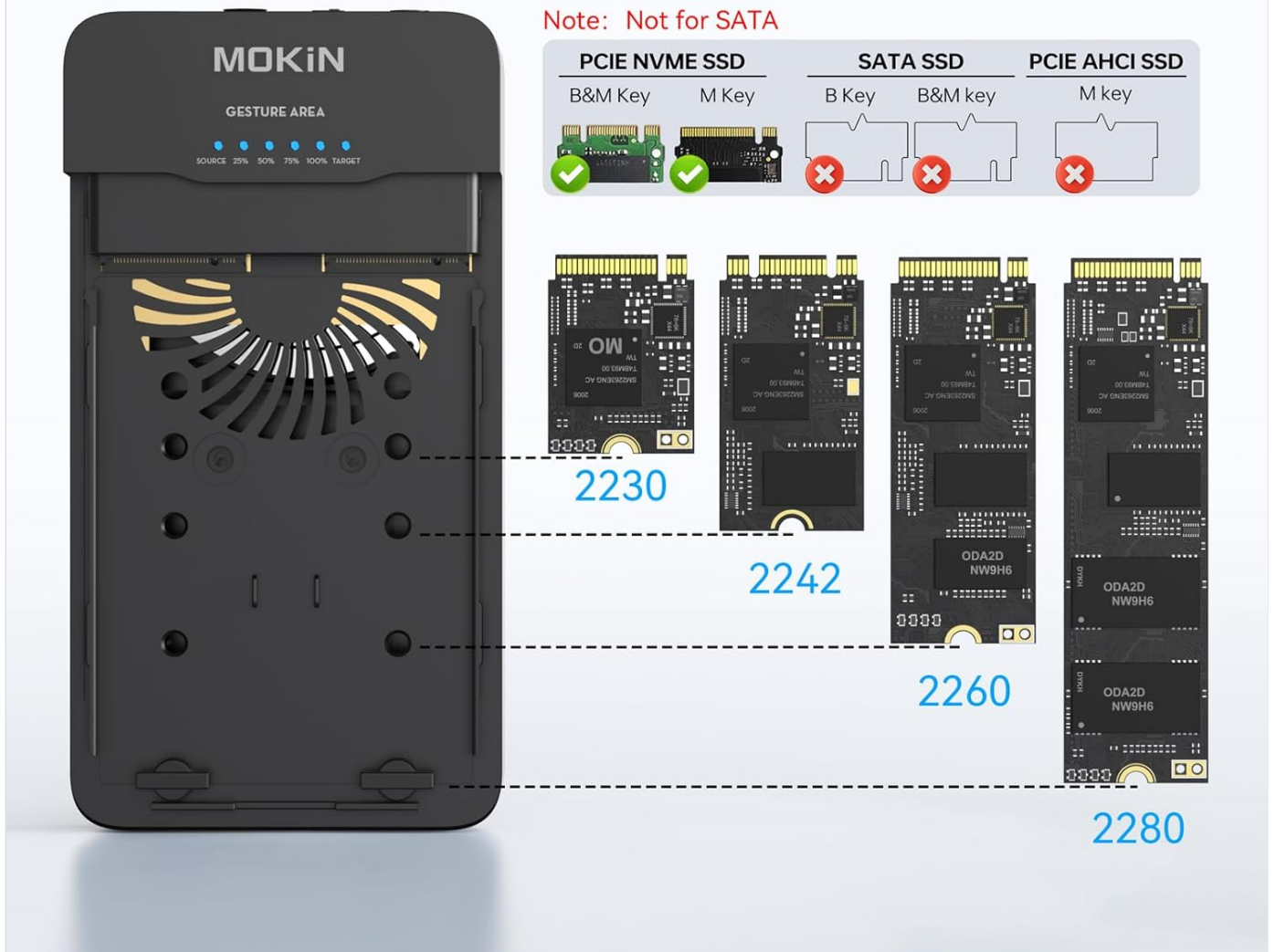


Figure 7: Wide Compatibility Overview

## WARRANTY AND SUPPORT

For warranty information, technical support, or any inquiries regarding your MOKiN UD1501 enclosure, please refer to the official MOKiN website or contact their customer support directly. Contact details are typically provided in the product packaging or on the manufacturer's website.

You can visit the MOKiN Store for more information: [MOKiN Store on Amazon](#)