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› [MOKiN UD1101 40Gbps M.2 NVMe SSD Enclosure Instruction Manual](#)

## MOKiN UD1101

# MOKiN UD1101 40Gbps M.2 NVMe SSD Enclosure Instruction Manual

Model: UD1101

## INTRODUCTION

The MOKiN UD1101 M.2 NVMe SSD Enclosure is designed to provide high-speed external storage for your M.2 NVMe SSDs. Featuring a 40Gbps data transfer rate and robust heat dissipation, this enclosure ensures optimal performance and data integrity. It offers broad compatibility with various devices and operating systems, making it a versatile solution for professionals and enthusiasts alike.

## PACKAGE CONTENTS

Verify that all items are present in your package:

- 1 x MOKiN UD1101 40Gbps M.2 NVMe SSD Enclosure
- 1 x USB4 Cable
- 1 x USB-A to USB-C Cable
- 1 x Retrieve Card Pin
- 1 x Storage Bag
- 1 x User Manual

# Device Detailed Description

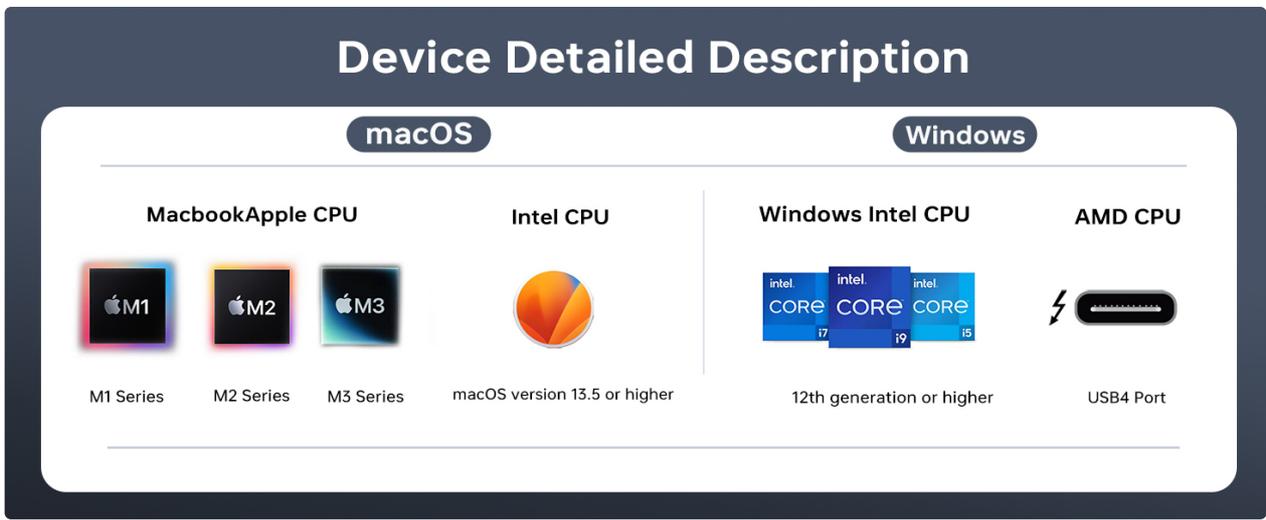


Image: The package contents include the M.2 NVMe SSD enclosure, a USB4 cable, a USB-A to USB-C cable, a retrieve card pin, a storage bag, and a user manual.

## SPECIFICATIONS

Feature	Detail
Model Number	UD1101
Data Transfer Rate	Up to 40 Gigabits Per Second (40Gbps)
Chipset	Advanced ASM2464PD
SSD Compatibility	M-Key and B+M Key NVMe SSDs (2230/2242/2260/2280)
Interface Compatibility	Thunderbolt 3/4, USB4, USB 3.2, USB 3.1, USB 3.0, USB 2.0
Operating System Support	Windows, macOS, Linux, Android, iOS
Material	Aluminum Alloy
Heat Dissipation	Built-in small cooling fan, aluminum alloy shell
Dimensions	5 x 4.88 x 0.83 inches (Package)
Item Weight	0.17 Kilograms (5.9 ounces)

# LED Light Working Status

- In **USB4** or **Thunderbolt mode** displays **blue light**.
- In **USB data mode** displays **green light**.

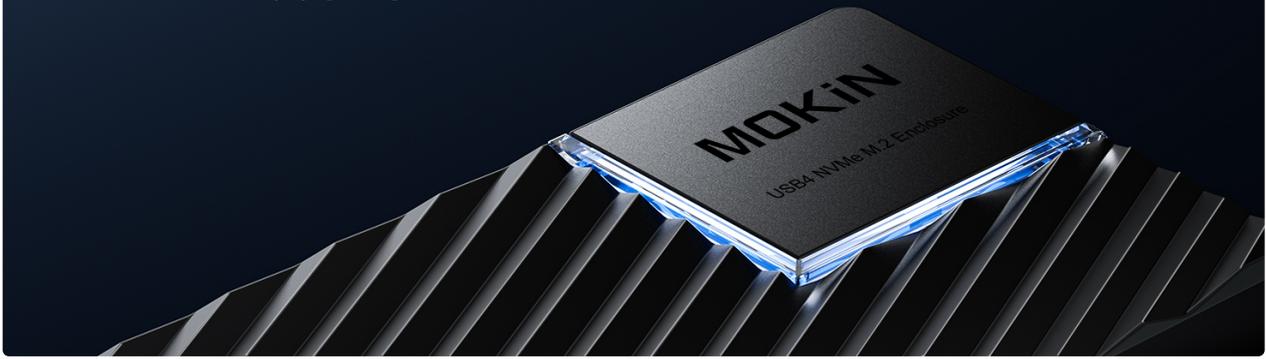


Image: A close-up view of the integrated ASM2464PD chipset, highlighting its role in providing high-speed data transfer and protection features like S.M.A.R.T, UASP, and TRIM.

## SETUP & INSTALLATION

The MOKiN UD1101 enclosure features a tool-free design for quick and easy SSD installation.

1. **Open the Enclosure:** Use the retrieve card pin to gently lift the top cover. The cover will slide open easily.
2. **Insert the SSD:** Align your M.2 NVMe SSD (2230/2242/2260/2280) with the M.2 slot inside the enclosure and insert it at a 45-degree angle.
3. **Secure the SSD:** Gently press the SSD down until it is flat. Use the provided rubber fastener to secure the SSD in place by pushing it into the designated hole.
4. **Apply Thermal Pad (Optional but Recommended):** If your SSD generates significant heat, apply the included thermal pad onto the SSD surface to enhance heat transfer to the aluminum casing.
5. **Close the Enclosure:** Slide the top cover back into position until it clicks securely.

## Easy to Install



1

Lift the top cover and it will open and secure it.



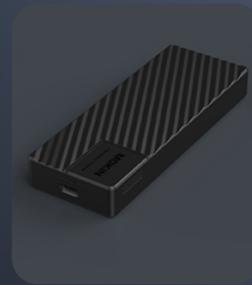
2

Install the SSD & secure it.



3

Completed the installation.



4

Assembling the product & enjoy it.

Image: A four-step visual guide demonstrating the tool-free installation process: 1. Lift the top cover with a pin. 2. Install the M.2 NVMe SSD. 3. Close the cover. 4. Reassemble and enjoy.

## OPERATING INSTRUCTIONS

Once your M.2 NVMe SSD is securely installed in the enclosure, connect it to your device using the provided USB4 or USB-A to USB-C cable.

- **Plug and Play:** The enclosure supports Plug and Play functionality. No drivers are required for most operating systems.
- **LED Indicator:** The built-in LED light indicates the working status:
  - **Blue Light:** Indicates connection via USB4 or Thunderbolt mode (40Gbps).
  - **Green Light:** Indicates connection via USB data mode (10Gbps or lower).
- **First Use (New SSD):** If you are using a brand new SSD, it may need to be initialized and formatted before it appears in your operating system's file explorer. Refer to your OS's disk management tools for this process.



Image: A diagram illustrating the LED indicator light: blue for USB4/Thunderbolt mode (40Gbps) and green for USB data mode (10Gbps).

## HEAT DISSIPATION & PERFORMANCE

The MOKiN UD1101 is engineered for sustained high performance, even during intensive data transfers, thanks to its advanced cooling system.

- **Built-in Cooling Fan:** A small, integrated cooling fan actively dissipates heat generated by the NVMe SSD.
- **Aluminum Alloy Shell:** The robust aluminum alloy casing acts as a large heatsink, drawing heat away from the SSD.
- **Thermal Throttling Prevention:** These combined cooling mechanisms prevent thermal throttling, ensuring your SSD maintains optimal performance and longevity.



Image: A cutaway diagram showing the internal cooling fan and aluminum fins working together to dissipate heat from the SSD, with a graph comparing MOKiN's temperature performance against other enclosures.

Video: This video demonstrates the heat dissipation capabilities of an NVMe enclosure, showing temperature readings before and after 10 minutes of read/write operations, and highlighting the sustained high speeds.

## COMPATIBILITY

The MOKiN UD1101 enclosure offers extensive compatibility with various SSD types, host interfaces, and operating systems.

- **SSD Types:** Supports M-Key and B+M Key NVMe PCIe SSDs. **Note: Not compatible with SATA SSDs.**
- **SSD Sizes:** Compatible with M.2 NVMe SSDs of sizes 2230, 2242, 2260, and 2280.
- **Host Interfaces:** Fully compatible with Thunderbolt 3, Thunderbolt 4, USB4, USB 3.2, USB 3.1, USB 3.0, and USB 2.0.
- **Operating Systems:** Suitable for Windows, macOS, Linux, Android, and iOS systems.
- **Features Supported:** S.M.A.R.T Drive Monitoring, UASP & TRIM.

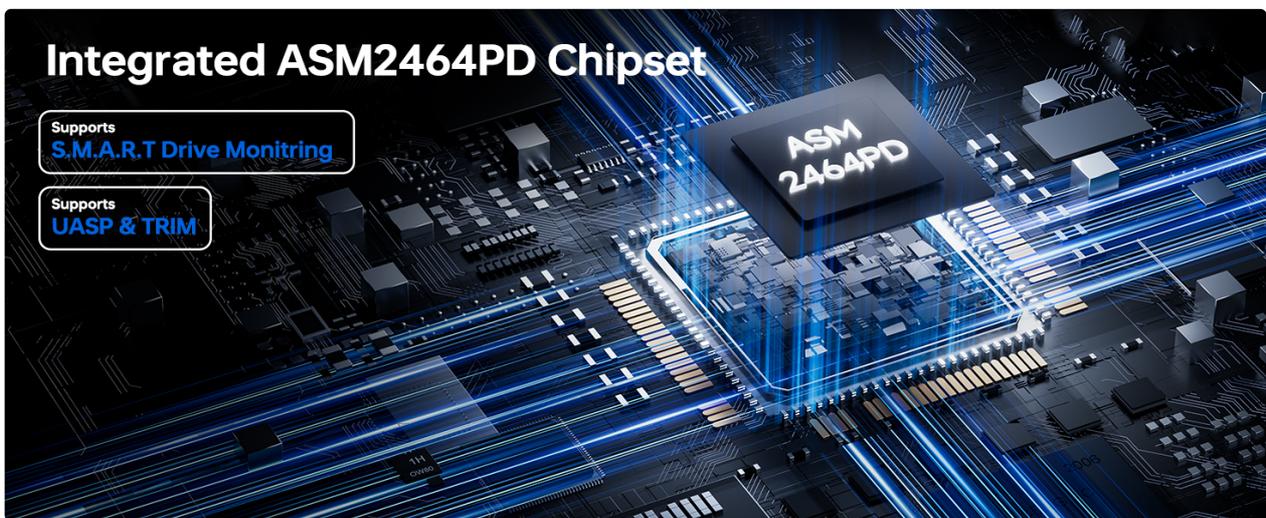


Image: A visual guide showing compatibility with M-Key and B+M Key NVMe SSDs in 2230, 2242, 2260, and 2280 sizes. It explicitly states incompatibility with SATA SSDs.

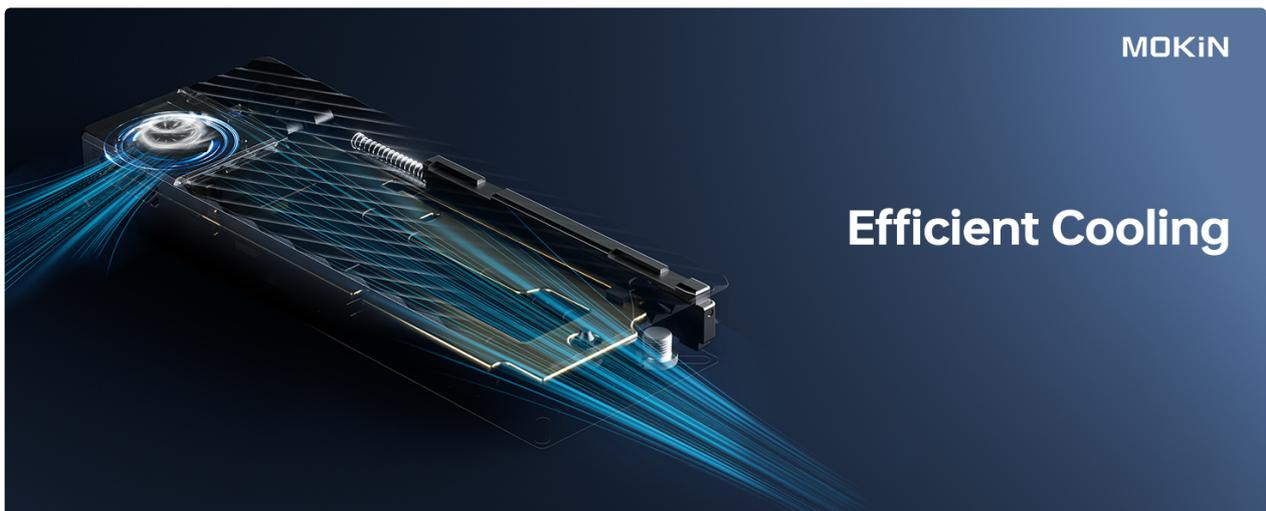
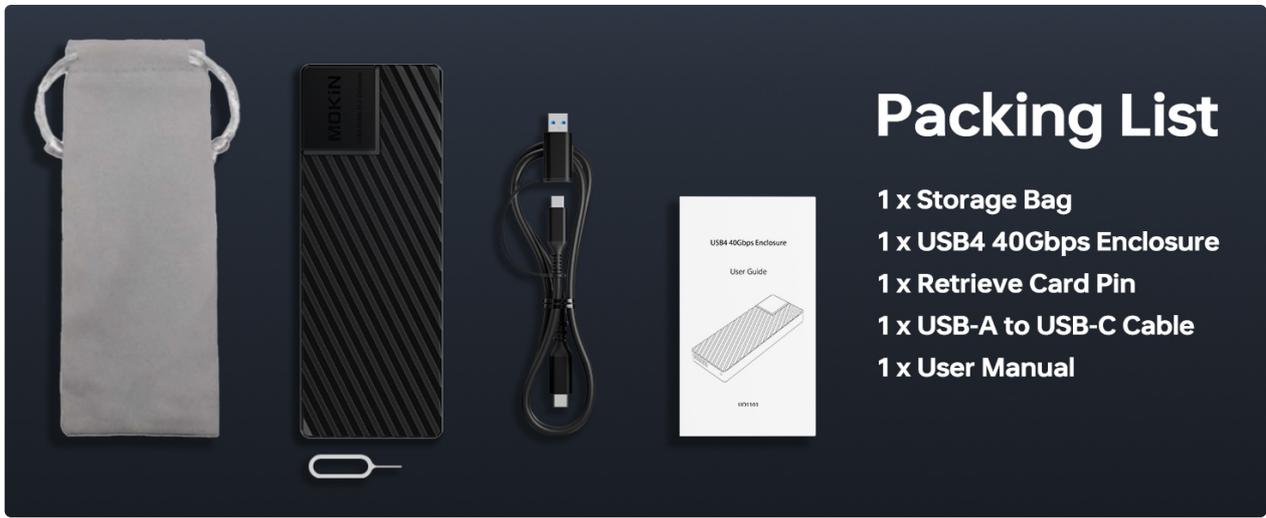


Image: A visual representation of the enclosure's compatibility with various USB standards (Type-C 40Gbps, USB 3.2, USB 3.1, USB 3.0, USB 2.0) and Thunderbolt 4/3.



## Packing List

- 1 x Storage Bag
- 1 x USB4 40Gbps Enclosure
- 1 x Retrieve Card Pin
- 1 x USB-A to USB-C Cable
- 1 x User Manual

Image: A detailed compatibility chart for macOS (Apple CPU M1/M2/M3 Series, Intel CPU macOS 13.5 or higher) and Windows (Intel CPU 12th generation or higher, AMD CPU USB4 Port).

## TROUBLESHOOTING

- **SSD Not Detected:** Ensure the SSD is correctly seated in the M.2 slot and secured with the rubber fastener. Verify that the enclosure is properly connected to your device using the provided cables.
- **New SSD Not Appearing:** If using a brand new SSD, it must be initialized and formatted through your operating system's disk management utility before it can be used.
- **Slow Transfer Speeds:** Ensure you are connected to a Thunderbolt 3/4 or USB4 port on your device for maximum 40Gbps speeds. Older USB ports (e.g., USB 3.0/3.1/3.2 Gen 1) will operate at lower speeds (e.g., 5Gbps or 10Gbps). Check the LED indicator color for the current connection speed.
- **Overheating:** The enclosure is designed with a cooling fan and aluminum casing to prevent overheating. If the enclosure feels excessively hot, ensure proper airflow around the device and consider applying the thermal pad if not already used.

## WARRANTY & SUPPORT

MOKiN provides an **18-month warranty** for this SSD enclosure. If you encounter any questions or issues while using this product, please contact us directly. We are committed to replying within 24 hours to assist you.