

Satechi ST-E2230M

Satechi M.2 NVMe Mini SSD Enclosure (Model ST-E2230M) - User Manual

Comprehensive Guide for Setup, Operation, and Maintenance

1. INTRODUCTION

The Satechi M.2 NVMe Mini SSD Enclosure provides a compact and portable solution for expanding your storage. Designed for M key M.2 2230 NVMe SSDs, it offers high-speed data transfer up to 10Gbps and features active cooling to maintain optimal performance. This manual provides essential instructions for setting up, operating, and maintaining your enclosure.

2. PACKAGE CONTENTS

- Satechi M.2 NVMe Mini SSD Enclosure
- USB-C to USB-C Lanyard Cable (20cm / 7.87in)
- User Manual

3. SSD INSTALLATION

Follow these steps to install your M.2 2230 NVMe SSD into the enclosure. This enclosure supports tool-free installation.

1. Gently slide open the magnetic tempered glass cover of the enclosure.
2. Insert your M key M.2 2230 NVMe SSD into the M.2 slot. Ensure it is fully seated.
3. Secure the SSD using the flexible rubber mount provided. No screws are needed for the SSD itself.
4. Apply the included thermal pad onto the SSD to ensure proper heat dissipation.
5. Close the magnetic tempered glass cover, ensuring it snaps securely into place.

COMPACT & PORTABLE



Figure 1: SSD installation into the Satechi M.2 NVMe Mini SSD Enclosure. The magnetic tempered glass cover is removed, revealing the M.2 slot and the flexible rubber mount for securing the SSD.



PERFECT FOR APPLE ProRes

Store and manage your ProRes files on your iPhone 15/16 Pro or iPhone 15/16 Pro Max.

Figure 2: SSD installed with thermal pad applied, ready for the cover to be reattached. This image highlights the internal components and the thermal solution.

SSD Setup Video

Your browser does not support the video tag.

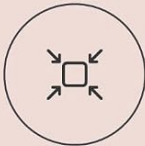
Video 1: Official Satechi guide on how to set up the SSD within the enclosure. This video demonstrates the physical installation steps.

4. OPERATING INSTRUCTIONS

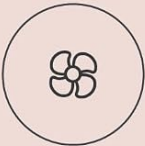
Connecting to Your Device

Connect the USB-C to USB-C lanyard cable to the enclosure's USB-C port and then to a compatible USB-C port on your computer, tablet, smartphone, or other device. The enclosure is plug-and-play and should be recognized automatically by your operating system.

USB-C MINI NVME SSD ENCLOSURE



Compact & Portable



Active-Self Cooling/Heat Dissipating Fan



Fast-Transfer Speeds



Write Protection



Tool-free Installation

Lanyard Cable



*SSD not included

Figure 3: The SSD enclosure connected to a laptop, demonstrating its compact size and direct USB-C connection.

Data Transfer

The enclosure supports USB 3.2 Gen 2 speeds, offering up to 10Gbps (1250MB/s max) for fast data transfer. Performance may vary depending on your host device configuration and the specific SSD used.

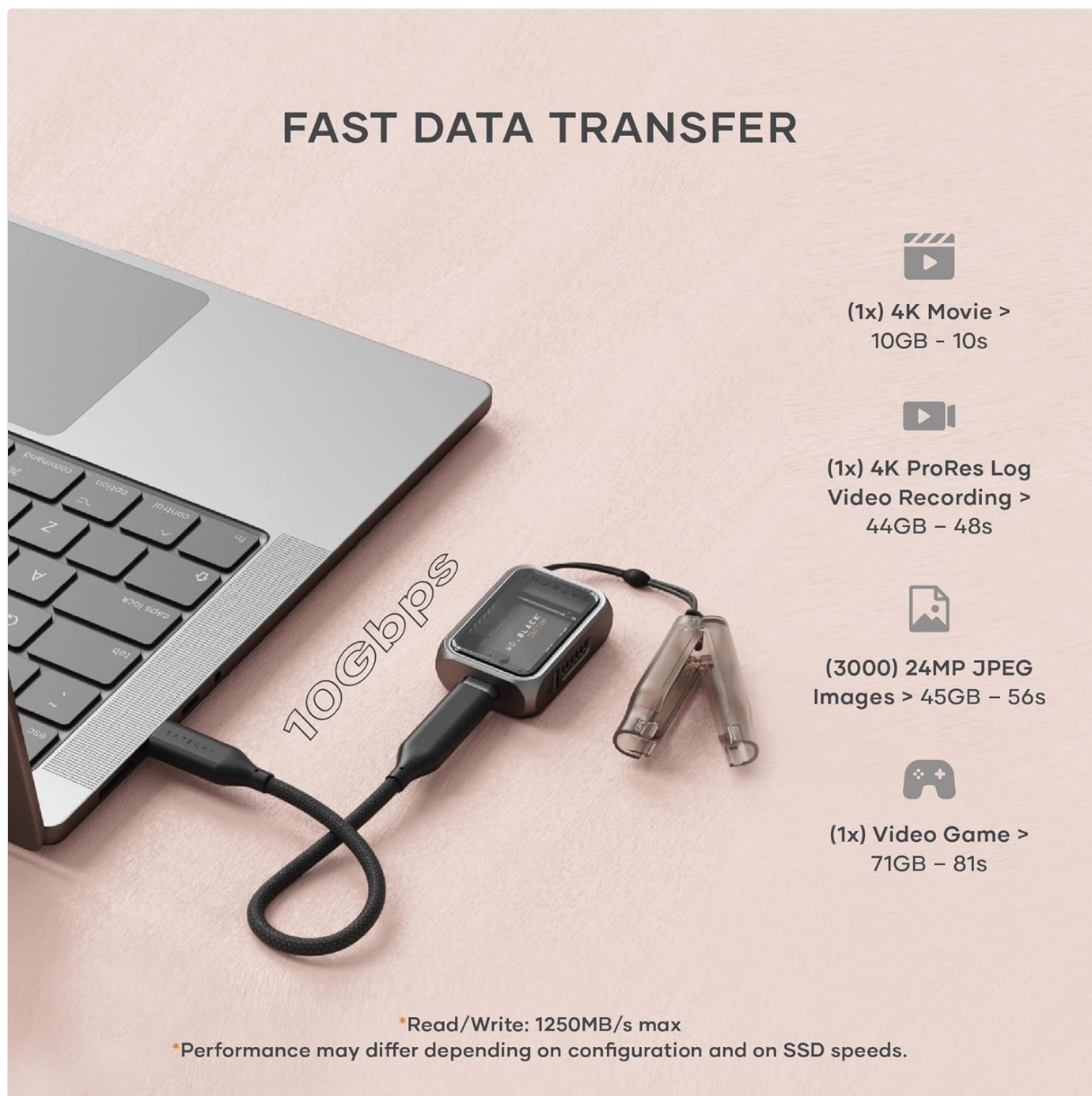


Figure 4: Visual representation of the 10Gbps data transfer capability, showing estimated transfer times for various file sizes.

Write Protection Switch

The enclosure features a physical write protection switch. Slide the switch to the 'Lock' position to prevent accidental data modification or deletion, and to protect against malware. Slide it to 'Unlock' for normal read/write operations.

TRAVEL FRIENDLY



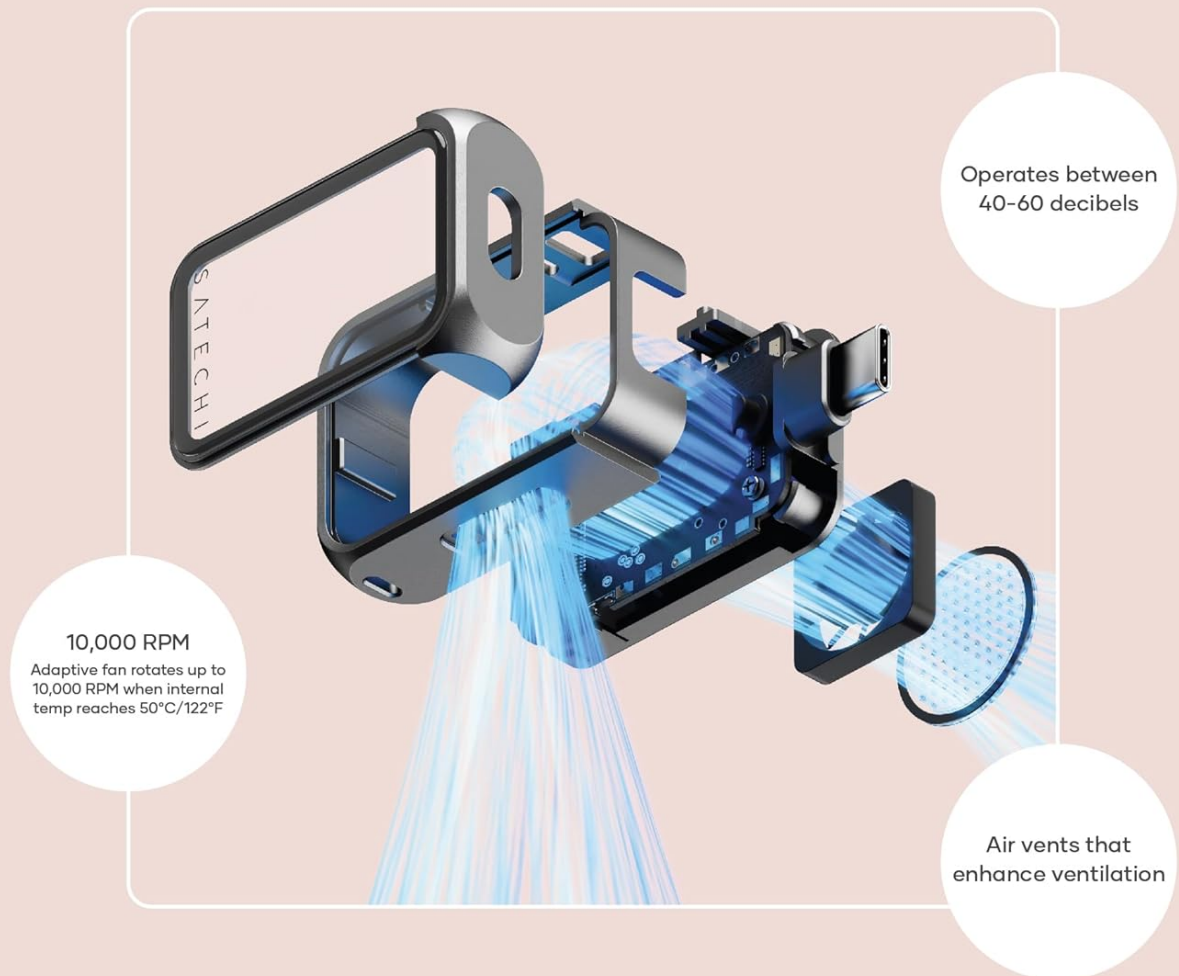
Figure 5: Close-up of the write protection switch on the side of the enclosure, indicating 'Lock' and 'Unlock' positions.

5. FEATURES

Active Self-Cooling

The Satechi Mini SSD Enclosure incorporates a quiet, efficient mini fan that operates between 40 and 60 decibels. This fan adapts to internal temperatures, spinning up to 10,000 RPM when the temperature reaches 122°F (50°C) to prevent thermal throttling. Air vents further enhance ventilation, ensuring optimal temperatures and consistent performance.

EFFICIENT SELF COOLING



***The fan is adaptive - when the internal temperature reaches 50 Celsius or above, the fan speed increases by 15% to 60 decibels.**

Figure 6: Exploded view diagram showing the internal mini fan, air vents, and heat dissipation mechanism for active cooling.

Compact and Portable Design

With dimensions of 2.17 x 1.18 x 0.59 inches and weighing only 1.23 ounces, this enclosure is highly compact and portable. Its premium design features a sleek aluminum enclosure with chamfered edges, scratch-resistant tempered glass, and a braided USB-C lanyard cable for convenience.

TRANSPARENT DESIGN



Figure 7: Detailed view of the enclosure's components, including the magnetic tempered glass door, USB-C connector, and dimensions, emphasizing its compact and premium design.

Wide Compatibility

The enclosure is exclusively designed for M key M.2 2230 NVMe SSDs. It is compatible with a wide range of USB-C devices, including Mac, iPad, iPhone, Windows, Google Chromebook, and DSLR cameras with USB-C ports.

WIDE COMPATIBILITY

Support devices with USB-C port



macOS/iOS



Windows 10/11



Linux



Chrome OS



Android OS



Smartphones



MacBook Pro/Air



iPad Pro/Air



Windows Laptops
& Desktops



Android Tablet



DSLR Cameras



PS5

Figure 8: A visual guide to the enclosure's broad compatibility with different operating systems (macOS/iOS, Windows, Linux, Chrome OS, Android OS) and device types.

6. TROUBLESHOOTING

SSD Not Recognized or Slow Performance

- **Check Write Protection:** Ensure the write protection switch is in the 'Unlock' position if you intend to write data or format the SSD. Some operating systems may not fully recognize a locked drive.
- **Format SSD:** New SSDs typically need to be formatted before use. Access your operating system's Disk Management (Windows) or Disk Utility (macOS) to initialize and format the drive.
- **USB Port Compatibility:** Verify that the USB-C port on your host device supports USB 3.2 Gen 2 (10Gbps) for optimal speeds. Older USB 2.0 or 3.0 ports will result in slower transfer rates.
- **Cable Integrity:** Use the provided USB-C to USB-C lanyard cable or another high-quality, certified USB 3.2 Gen 2 cable to ensure stable and fast connections.

- **Overheating:** While the enclosure has active cooling, prolonged heavy use can still generate heat. Ensure proper airflow around the enclosure. Excessive heat can lead to thermal throttling and reduced performance.

SSD Setup and Speed Test Video

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Video 2: Official Satechi guide on SSD setup and a demonstration of speed testing. This video provides visual aid for troubleshooting common setup issues.

7. SPECIFICATIONS

Model Number	ST-E2230M
Product Dimensions	2.17 x 1.18 x 0.59 inches
Item Weight	1.23 ounces (35g)
Material	Aluminum, Magnetic Tempered Glass
Connector Type	USB Type C (USB 3.2 Gen 2)
Transfer Speed	Up to 10Gbps (1250MB/s max)
SSD Compatibility	M key M.2 2230 NVMe SSDs (up to 2TB)
Special Features	Active Self-Cooling, Braided Cable, Fast Transfer Speed, Travel-Friendly, Write Protection

8. WARRANTY AND SUPPORT

Satechi products are covered by a 2-year limited warranty against defects in materials and workmanship under normal use. For support, please visit the official Satechi website or contact customer service.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

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.

Submit question