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ACASIS TBU401 Pro

ACASIS 40Gbps M.2 NVMe SSD Enclosure User Manual

Model: TBU401 Pro

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, maintenance, and troubleshooting of your ACASIS 40Gbps M.2 NVMe SSD Enclosure (Model: TBU401 Pro). This high-performance enclosure is designed for rapid data transfer and reliable external storage, featuring a built-in cooling fan for optimal thermal management.

2. PRODUCT OVERVIEW

2.1. Package Contents

- SSD enclosure
- 40Gbps cable
- User Manual
- Thermal pads (x2)
- SSD size adapter
- Rubber stopper

2.2. Key Features

- **40Gbps High-Speed Transfer:** Supports ultra-fast data transfer rates for large files and demanding applications.
- **Built-in Cooling Fan:** Enhances heat dissipation to maintain optimal performance and prolong SSD lifespan.
- **Intel Certified Chip:** Features JHL7440 Intel certified chip for stable and reliable performance.
- **Universal Compatibility:** Compatible with Thunderbolt 3/4, USB4/3.2/3.1/3.0/2.0.

- **NVMe SSD Support:** Supports M.2 NVMe SSDs (B+M Key, M-Key) in sizes 2230, 2242, 2260, and 2280.
- **Tool-Free Installation:** Designed for easy and quick SSD installation without the need for tools.



Image: The ACASIS 40Gbps M.2 NVMe SSD Enclosure shown with its included USB-C to USB-C cables.

More Safe Running Temperature

Full Performance With TBU401 PRO

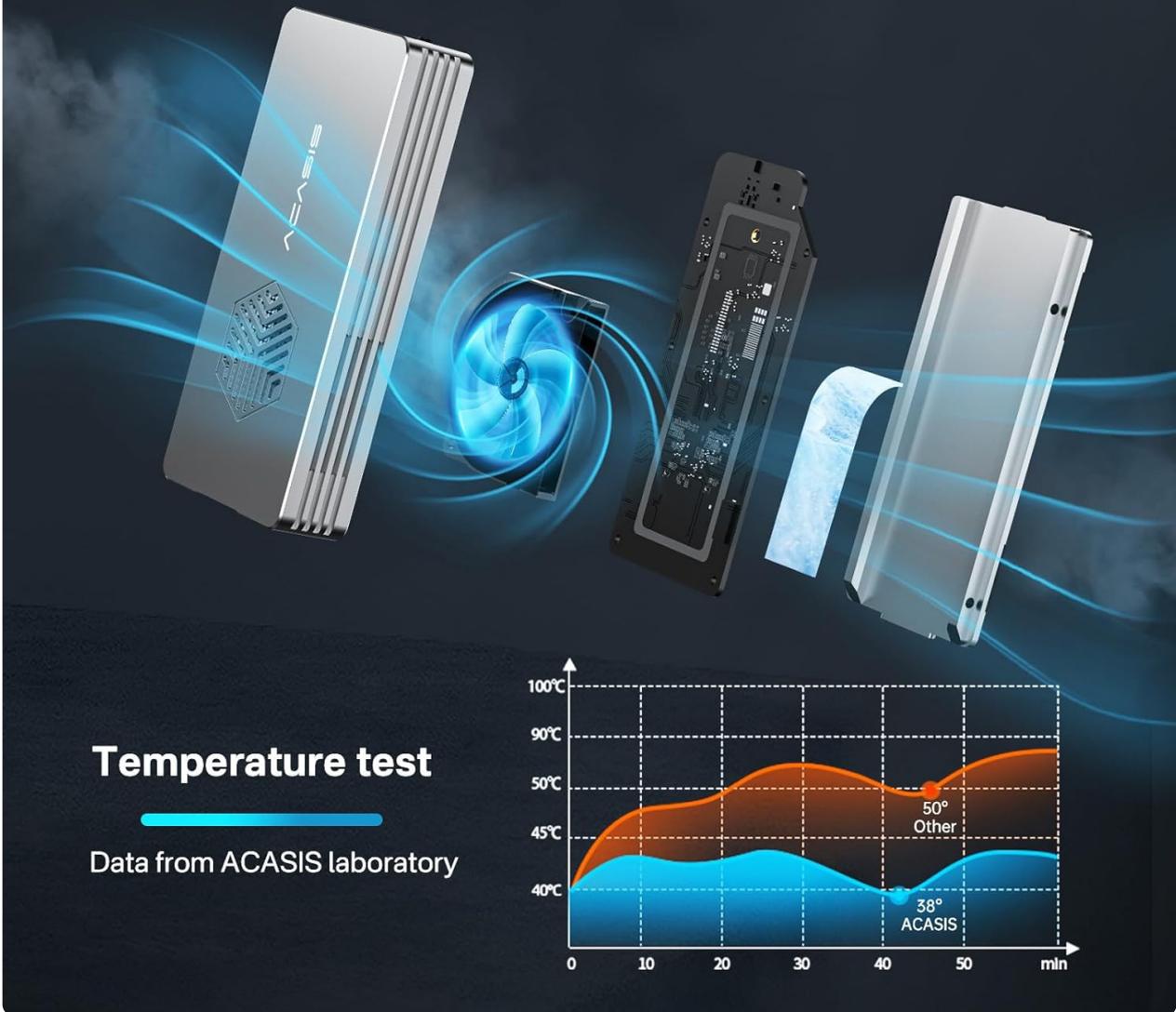


Image: An exploded view diagram illustrating the internal cooling fan and heat dissipation mechanism within the enclosure.

3. SETUP

3.1. SSD Installation

1. **Open the bottom plate:** Gently slide or open the bottom cover of the enclosure.
2. **Insert M.2 NVMe SSD:** Align your M.2 NVMe SSD with the slot and insert it firmly. Secure the SSD with the provided rubber stopper or screw, depending on the design.
3. **Apply Thermal Pad:** Place the thermal pad(s) onto the SSD to ensure proper heat transfer to the enclosure's aluminum body.
4. **Close the lower cover:** Reattach the bottom cover, ensuring it is securely closed.

Compatibility List (partial)

Compatible Devices



Macbook Pro



Macbook Air



Mac Mini



Surface Pro 8



Dell XPS 13



Dell XPS 15



ASUS Zenbook 14X



Acer Swift Go 14



iPad Pro



PS5



X-bos



NS

Compatible Interface

Compatible with Thunderbolt 5/4/3, USB4, USB 3.2/3.1/3.0/2.0

Systems



Windows 7 and above



macOS 10.2 and above



Linux 5.6 and above

Image: A visual guide demonstrating the four steps for tool-free SSD installation.

4. OPERATING INSTRUCTIONS

4.1. Connecting to a Host Device

Connect the ACASIS SSD enclosure to your computer or compatible device using the provided 40Gbps USB-C cable. Ensure the connection is secure. The enclosure is plug-and-play, meaning it should be recognized automatically by your operating system.

4.2. Data Transfer and Performance

The ACASIS TBU401 Pro supports up to 40Gbps data transfer speeds. Actual speeds may vary depending on your SSD, host device, and operating system. For optimal performance, ensure your device supports USB4 or Thunderbolt 3/4.

Fast Transmission

Improve The Creative Efficiency of Video Production



Image: A laptop connected to the ACASIS SSD enclosure, illustrating the 40Gbps data transfer capability.

4.3. Cooling Fan Operation

The built-in cooling fan automatically activates to dissipate heat during intensive operations, helping to maintain stable performance and prevent thermal throttling. The fan operates quietly to minimize disturbance.

4.4. SSD Formatting and Speed Testing

For new SSDs, you may need to format the drive before use. The choice of file system (e.g., ExFAT, APFS) can impact performance and compatibility across different operating systems. For example, APFS generally offers faster speeds on Apple Silicon Macs compared to ExFAT, but ExFAT provides broader compatibility across Windows, macOS, and Linux systems.



The advertisement features a sleek, silver ACASIS TB401 Pro SSD enclosure connected to a laptop via a USB-C cable. A glowing blue arc with the text "40 Gbps" curves around the enclosure. The background is dark with a laptop keyboard visible. Text at the top reads "Next-Gen Data Transfer" and "Transfer 3GB Files In Seconds".

Read	2800MB/S	SSD	Samsung 980 Pro 2TB
Write	2800MB/S	Computer	2023 M2 Macbook Pro

The actual speed varies by different SSDs and computers used

Image: A screenshot of a disk speed test application displaying read and write performance metrics for an SSD.

5. COMPATIBILITY

The ACASIS TB401 Pro SSD Enclosure offers broad compatibility with various devices and operating systems:

5.1. Compatible Devices

- MacBook Pro, MacBook Air, Mac Mini, iPad Pro (M1 Pro/Max compatible)
- Surface Pro 8, Dell XPS 13, Dell XPS 15
- ASUS Zenbook 14X, Acer Swift Go 14
- PlayStation 5 (PS5), Xbox, Nintendo Switch (NS)

5.2. Compatible Systems

- Windows (Windows 7 and above)
- macOS (macOS 10.2 and above)

- Linux (Linux 5.6 and above)

5.3. Interface Compatibility

Fully compatible with Thunderbolt 3/4, USB4. Backward compatible with USB 3.2, 3.1, 3.0, and 2.0 at their respective speed limits.



Image: A detailed chart outlining the compatibility of the enclosure with different devices and operating systems.

6. MAINTENANCE

To ensure the longevity and optimal performance of your ACASIS SSD Enclosure, follow these maintenance guidelines:

- Keep the enclosure clean and free from dust. Use a soft, dry cloth for cleaning.
- Avoid exposing the device to extreme temperatures or humidity.
- Handle the enclosure with care to prevent physical damage.
- Always safely eject the drive from your operating system before disconnecting the cable to prevent data corruption.

7. TROUBLESHOOTING

If you encounter issues with your ACASIS SSD Enclosure, refer to the following common problems and solutions:

7.1. Drive Not Recognized

- Ensure the SSD is correctly installed and seated firmly within the enclosure.
- Try connecting the enclosure to a different USB/Thunderbolt port on your device.
- Test with a different cable if available.
- Check Disk Management (Windows) or Disk Utility (macOS) to see if the drive is detected but unformatted. Format if necessary.

7.2. Slow Data Transfer Speeds

- Verify that your host device's port supports 40Gbps (USB4 or Thunderbolt 3/4).
- Ensure you are using the provided 40Gbps cable.
- Check the SSD's health and performance.
- Close any background applications that might be consuming system resources or disk I/O.
- For Apple Silicon Macs, using APFS format generally yields faster speeds than ExFAT.

7.3. Overheating

- Ensure the thermal pads are correctly placed on the SSD.
- Verify that the cooling fan is operating (a slight hum or airflow might be noticeable).
- Ensure adequate airflow around the enclosure.

40Gb/s NVME Enclosure

When you use the ACASIS TBU401Pro with 2020 and most Macs and PCs from 2020 and beyond, experience up to an astounding 3,151MB/sec. impressive 2805MB/s speeds. You'll also enjoy efficient performance (smooth editing of 4K video, lag-free gaming) and flexible compatibility with older USB-C machines and devices.

ACASIS TBU401 Connected to	Runs as	Real-World Speed
Any Apple Silicon M1/M2/M3/M4 Mac & iPad	USB4(40Gb/s)	2805MB/s
USB4 (40Gb/s) port on any PC	USB4(40Gb/s)	2805MB/s
Thunderbolt 4 port on any PC	USB4(40Gb/s)	2805MB/s
Thunderbolt 3 port on Intel Mac or PC	USB4(40Gb/s)	2805MB/s
USB-C (10Gb/s) port on iPad, Mac, or PC	USB 10Gb/s	990MB/s

Image: A visual guide addressing common issues related to data transfer speeds and potential solutions.

8. SPECIFICATIONS

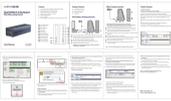
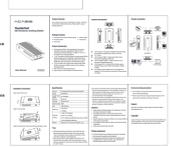
Specification	Detail
Model Number	TBU401 Pro

Material	Aluminum
Item Weight	137 Grams (4.8 ounces)
Memory Storage Capacity (Max)	8 TB
Compatible Devices	Laptop, Desktop, Tablet
Hard Disk Form Factor	M.2 2230/2242/2260/2280
Max Number of Supported Devices	1
Data Transfer Rate	40Gbps (up to 2805MB/s Read / 2734MB/s Write)
Hardware Interface	USB 2.0, USB 3.0, USB 3.1, USB 3.2, USB4, Thunderbolt 3/4
Color	Black
Product Dimensions	4.63"L x 2.24"W x 0.71"H

9. WARRANTY AND SUPPORT

ACASIS products come with a manufacturer's warranty. For detailed warranty information, technical support, or service inquiries, please refer to the contact information provided on the official ACASIS website or your purchase documentation. Our professional team is committed to providing high-quality products and support.

Related Documents - TBU401 Pro

	<p>ACASIS EC-DM201 Dual NVMe M.2 Enclosure User Manual and Cloning Guide User manual and troubleshooting guide for the ACASIS EC-DM201 Dual NVMe M.2 Enclosure, covering installation, offline cloning, and usage as an enclosure or duplicator.</p>
	<p>ACASIS Thunderbolt SSD Enclosure Docking Station TBU405Plus User Manual User manual for the ACASIS TBU405Plus Thunderbolt SSD Enclosure Docking Station. Learn about product features, specifications, interface connections, installation, and usage guidelines.</p>
	<p>Freewell PRO SSD Hub - Mobile Content Creator Accessory Guide Explore the features and functionality of the Freewell PRO SSD Hub, a versatile mobile accessory designed for content creators. This guide covers product overview, design, connectivity, specifications, and safety information.</p>
	<p>ACASIS AC-M03 M.2 NVMe Enclosure & Duplicator: Offline Cloning Guide Step-by-step instructions for using the ACASIS AC-M03 M.2 NVMe enclosure and duplicator for offline SSD cloning. Learn how to clone your data between M.2 NVMe drives.</p>



[ACASIS Dual M.2 NVMe SATA SSD Enclosure with RAID Mode User Manual](#)

Comprehensive user manual for the ACASIS Dual M.2 NVMe SATA SSD Enclosure with RAID Mode (Model EC-6604pro). Learn about package contents, product features, installation, RAID modes (RAID 0, RAID 1, JBOD, Clone), troubleshooting, and specifications.



[4smarts Magnetic SSD Enclosure Kickstand User Guide](#)

Comprehensive guide for the 4smarts Magnetic SSD Enclosure Kickstand, covering safety, installation, technical specifications, MagSafe compatibility, and usage with devices like iPhone 15 Pro for ProRes recording.