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MOVE SPEED HB7450

MOVE SPEED HB7450 2TB SSD User Manual

PCIe 4.0 NVMe M.2 Internal Solid State Drive with Heatsink

INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your MOVE SPEED HB7450 2TB PCIe 4.0 NVMe M.2 Internal Solid State Drive. Designed for high-performance computing, this SSD is compatible with PlayStation 5 consoles, desktops, and laptops, offering significant storage expansion and speed improvements.

WHAT'S IN THE BOX

- 1 x MOVE SPEED HB7450 2TB M.2 SSD
- 1 x Heatsink (not pre-installed)
- Screws for installation
- 1 x Screwdriver
- 1 x User Manual

PCIe 4.0 Technology



Note: 1 MB/s=1 million bytes per second. Base on internal testing, performance may vary depending on host devices, usage conditions, drive capacity, and other factors.

Image: Package contents showing the SSD, heatsink, screws, and screwdriver.

SETUP AND INSTALLATION

The MOVE SPEED HB7450 SSD is designed for easy installation. Please follow the steps below carefully. It is recommended to wear anti-static gloves during installation to prevent damage from static electricity.

1. Heatsink Installation (Optional but Recommended)

The SSD comes with a built-in 1mm graphene composite heat sink. For optimal performance, especially in high-demand scenarios like gaming on a PS5, installing the additional metal heatsink is recommended.

1. Carefully remove the original graphene cooling sticker from the SSD.
2. Remove the protective cover from the adhesive tape provided with the heatsink.
3. Place and stick the tape to the right position on the SSD, ensuring it does not cover the screw hole or the M.2 interface.
4. Align and firmly press the heatsink onto the SSD, adjusting it to the correct position.

MOVESPEED



MOVESPEED is an innovative brand of the listed company AohaiTech, dedicated to individual consumers.

MOVESPEED has a user base of over 50 million across more than 80 countries and regions.



Image: Step-by-step application of the heatsink to the SSD.

2. SSD Installation into Device

The installation process varies slightly depending on your device (PS5, desktop, or laptop). Refer to your device's specific manual for detailed instructions on accessing the M.2 slot.

- Locate the M.2 hard disk interface on your device's motherboard or expansion slot.
- Gently insert the SSD (with the heatsink installed) into the M.2 slot at an angle.
- Once fully seated, push the SSD down and fasten it with the provided screw.



Image: MOVE SPEED HB7450 SSD installed in a PlayStation 5.

Package Includes

SSD X1
Heat Sink X1

Screwdriver X1
Screws X2
User Manual X1



Image: MOVE SPEED HB7450 SSD installed in a laptop.

Maxio MAP1602 Controller

Low power consumption and high efficiency

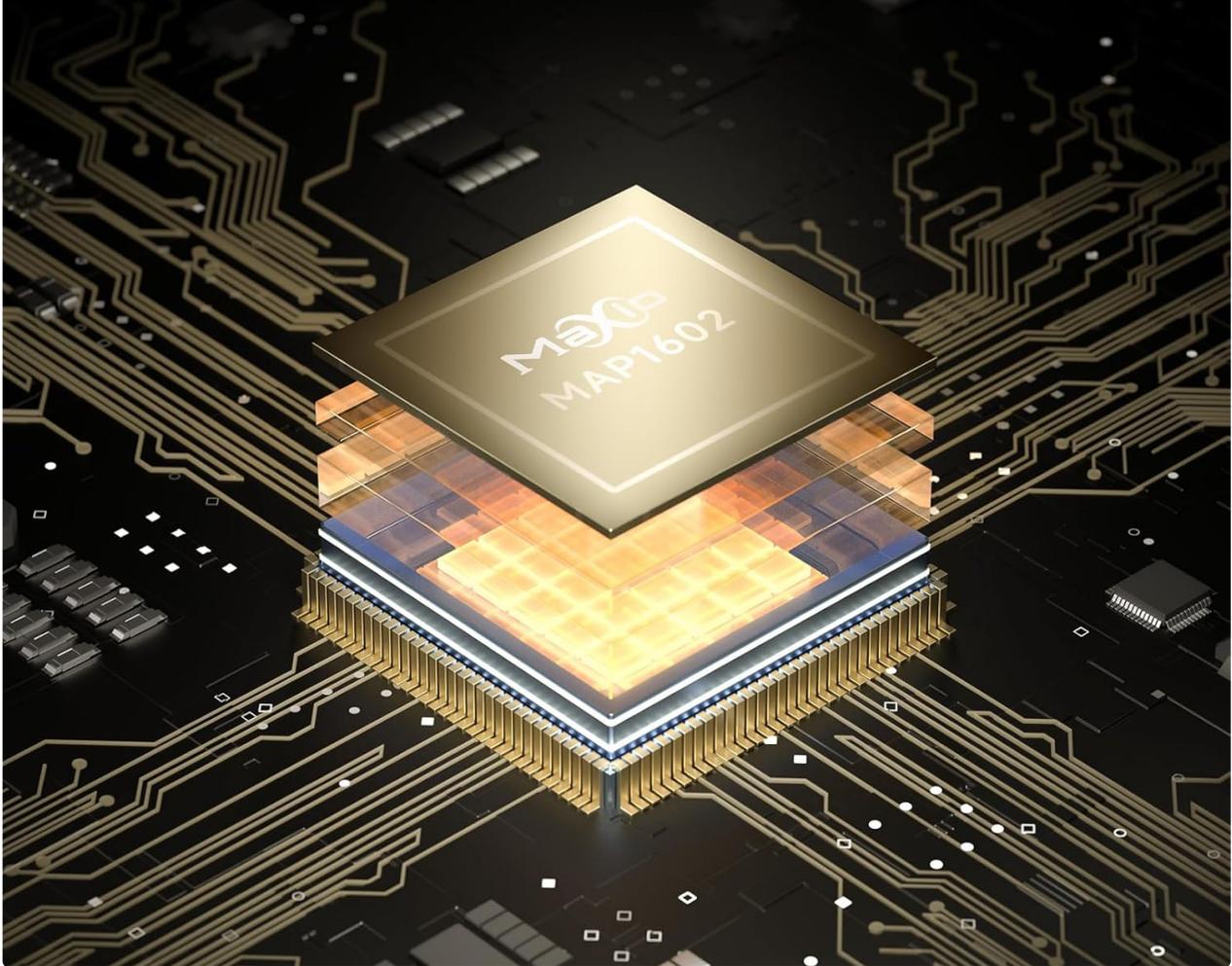


Image: MOVE SPEED HB7450 SSD installed in a desktop PC.

Installation Tutorial Video

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Video: A detailed tutorial demonstrating the installation of the 2TB SSD M.2 with heatsink into a compatible device.

OPERATING INSTRUCTIONS

Once installed, the MOVE SPEED HB7450 SSD operates as a high-speed storage device. For PS5, you may need to format the drive through the console's settings before use. For desktops and laptops, the drive may appear as unallocated space and require initialization and formatting through Disk Management (Windows) or Disk Utility (macOS).

Performance

The HB7450 utilizes PCIe 4.0 technology, offering read speeds up to 7450MB/s and write speeds up to

6500MB/s. This significantly reduces game loading times, operating system boot times, and file transfer durations compared to older PCIe 3.0 or SATA SSDs.

Compatibility

This SSD is fully compatible with PlayStation 5 consoles, as well as most desktops and laptops featuring an M.2 2280 slot that supports NVMe PCIe 4.0. It provides ample storage for games, applications, and large files.

Product Overview Video

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Video: An overview of the MOVE SPEED PCIe 4.0 NVMe M.2 SSD, highlighting its features and speed.

MAINTENANCE

The MOVE SPEED HB7450 SSD is designed for durability and performance. Minimal maintenance is required.

Heat Dissipation

The SSD features a built-in 1mm graphene composite heat sink, which helps to cool down the chip by approximately 10°C during operation. This prevents high-temperature slowdowns and ensures stable performance, even under heavy loads. The optional external heatsink further enhances cooling.

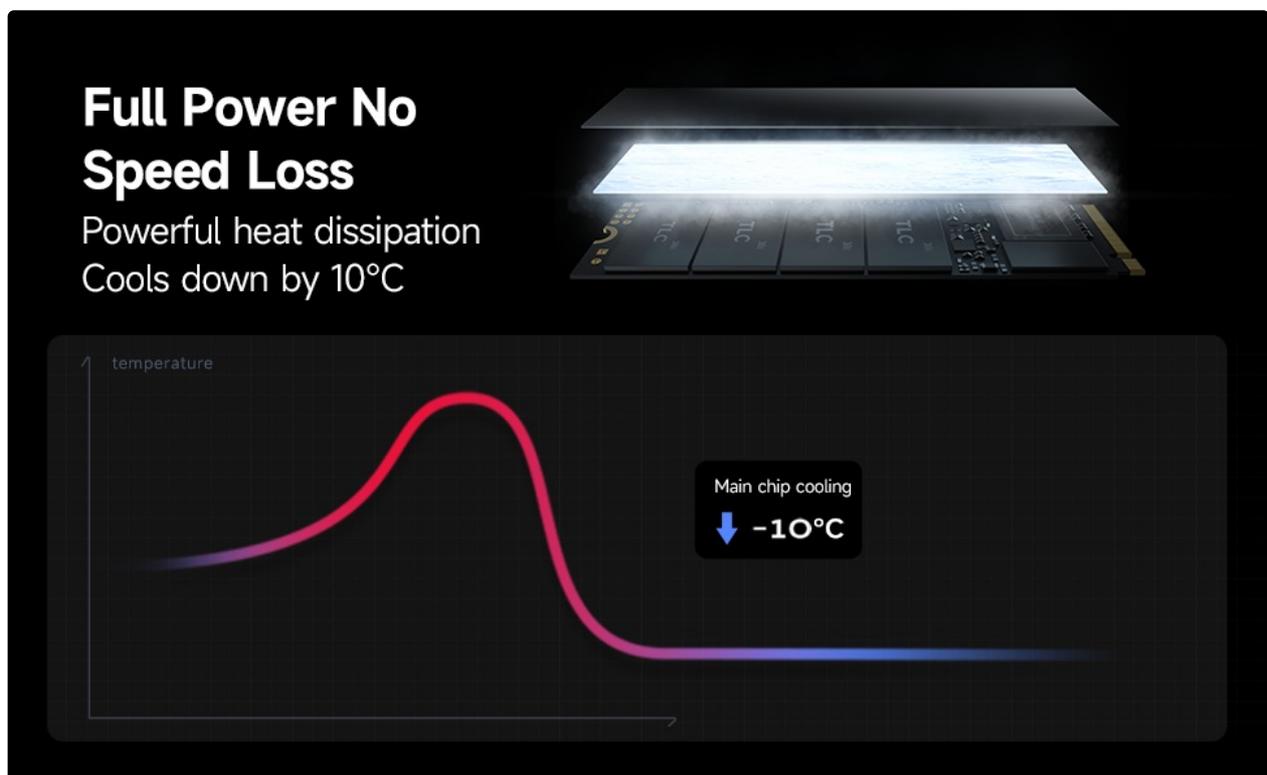


Image: Illustration of the graphene heat dissipation mechanism.

Firmware Updates

Periodically check the MOVE SPEED official website for any available firmware updates for your SSD. Firmware updates can improve performance, stability, and compatibility.

TROUBLESHOOTING

If you encounter any issues with your MOVE SPEED HB7450 SSD, please refer to the following common solutions:

- **Drive Not Detected:** Ensure the SSD is correctly seated in the M.2 slot and securely fastened. Check your device's BIOS/UEFI settings to confirm the M.2 slot is enabled. For new drives, ensure it is initialized and formatted.
- **Slow Performance:** Verify that your device's M.2 slot supports PCIe 4.0. Ensure the heatsink is properly installed to prevent thermal throttling. Check for any background processes consuming system resources.
- **PS5 Specific Issues:** Ensure your PS5 system software is up to date. The PS5 requires specific formatting for M.2 SSDs, which it will prompt you to do upon detection.

If problems persist, please contact MOVE SPEED customer support for further assistance.

SPECIFICATIONS

Feature	Detail
Brand	MOVE SPEED
Model Series	HB7450
Digital Storage Capacity	2 TB
Hard Disk Interface	PCIe x 4
Connectivity Technology	PCIe
Special Feature	PCIe 4.0 NVMe M.2 SSD, 7450MB/s Read Speed, M.2 SSD with Heatsink, Screws and Screwdriver, Perfectly fit for PS5, Laptop, PC, Plug and Play, Easy Installation, M.2 2280 (80mm) Compact Size
Hard Disk Form Factor	80 Millimeters (M.2 2280)
Hard Disk Description	M.2 2280, Solid State Drive
Compatible Devices	Laptop, PC, PlayStation 5 (PS5)

Installation Type	Internal Hard Drive
Color	Black
Item Weight	0.282 ounces
Flash Memory Type	TLC NAND
Controller Technology	Maxio MAP1602

WARRANTY AND SUPPORT

MOVE SPEED provides a **5-year after-sales service time** for all Solid State Drive products. If there is any quality problem within 5 years, you can exchange it for a new one. This warranty covers manufacturing defects and ensures long-term reliability.

For any questions, technical support, or warranty claims, please contact MOVE SPEED customer service. You can find contact information on the official MOVE SPEED website or through your purchase platform.

Additional Product Video

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Video: A promotional video showcasing the Move Speed 2TB SSD PCIe Gen4 HB7450 for PS5 storage.