

## Crucial CT2000T500SSD5

# Crucial T500 2TB PCIe Gen4 NVMe SSD with Heatsink Instruction Manual

Model: CT2000T500SSD5

## INTRODUCTION

The Crucial T500 2TB PCIe Gen4 NVMe SSD is designed for high-performance storage needs, suitable for PlayStation 5, laptops, and desktop PCs. It features sequential read speeds up to 7,400MB/s and write speeds up to 7,000MB/s, enhancing game loading, video editing, and multitasking. This model includes an integrated heatsink for optimal thermal management and is compatible with PlayStation 5 size and performance requirements. It also supports Microsoft DirectStorage for improved game performance.

## SETUP AND INSTALLATION

This section provides instructions for installing your Crucial T500 SSD, particularly focusing on PlayStation 5 installation. Always ensure your device is powered off and unplugged before beginning any installation.

### 1. Prepare Your PlayStation 5

Place your PlayStation 5 horizontally with the disc drive (if applicable) facing the top-left. This orientation is crucial for correctly removing the cover.



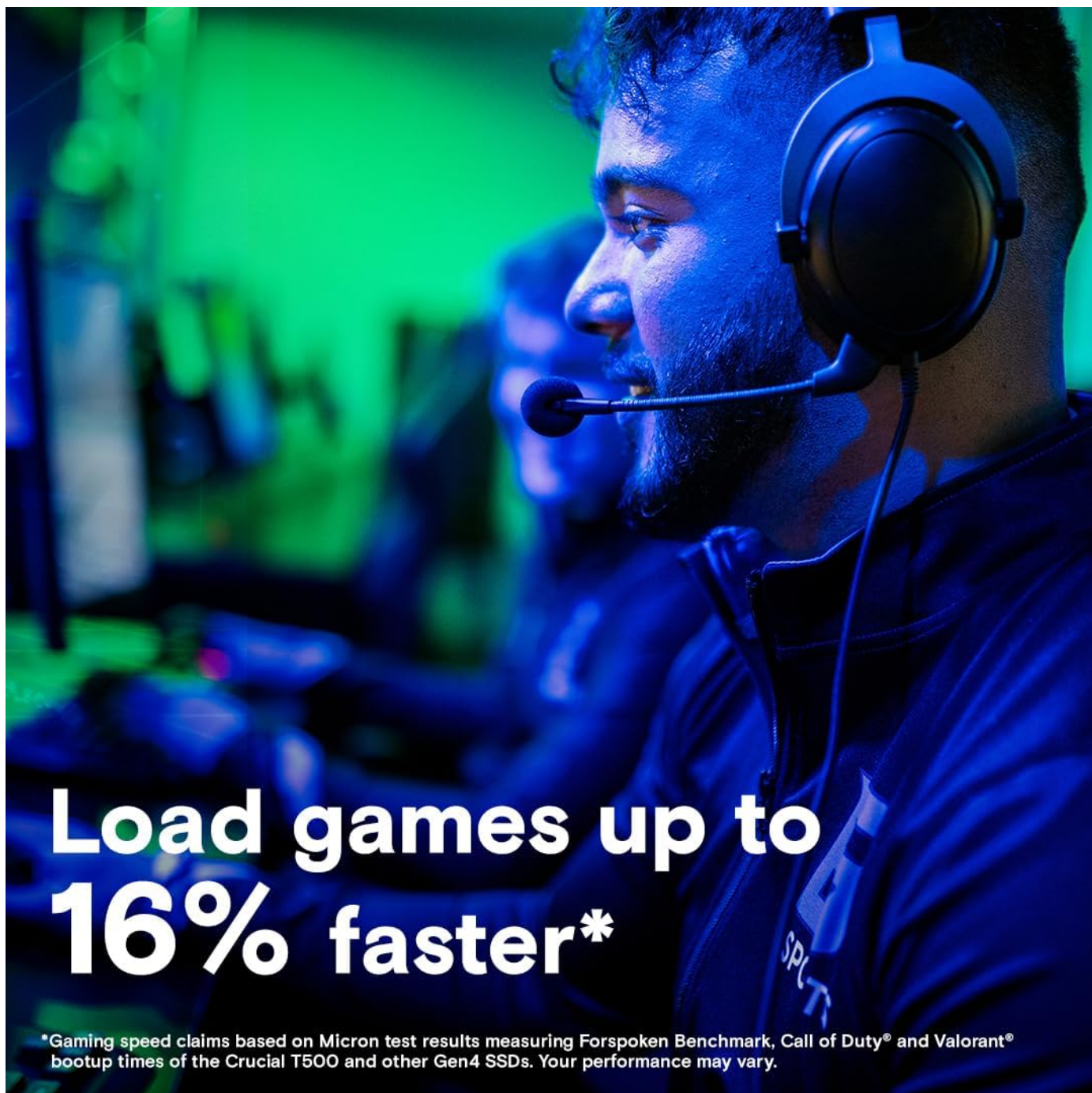
*Image: The Crucial T500 SSD is shown alongside a PlayStation 5 console and its controller, illustrating the product's compatibility.*

## **2. Remove the PS5 Cover**

Grip the bottom-right corner of the PS5 cover and pull it forcefully while sliding it towards the left. The cover should detach with relative ease. It may take a few attempts to get accustomed to the motion.

## **3. Access the M.2 SSD Slot**

Locate the M.2 SSD expansion slot. You will need a small Phillips head screwdriver to remove the screw securing the cover of the expansion slot. Carefully remove the screw and the cover, ensuring not to drop the screw into the console's fan area.



*Image: A detailed view of the PlayStation 5's internal M.2 SSD slot, with the protective cover removed, highlighting the fan and the various screw holes for different SSD lengths.*

#### **4. Install the Crucial T500 SSD**

Inside the M.2 slot, you will find a standoff and a screw. Remove the screw from the standoff. Identify the correct screw hole for your SSD's length (the Crucial T500 is a standard 2280 form factor). Place the SSD into the slot, ensuring the gold contacts align correctly. The SSD should sit at an angle. Gently push down the SSD and secure it with the screw you removed earlier, using the standoff. Finger-tightening is sufficient; do not overtighten.



*Image: The Crucial T500 PCIe Gen4 NVMe M.2 SSD is displayed with its integrated heatsink, ready for installation.*

## 5. Reattach the Covers

Replace the M.2 SSD slot cover and secure it with its screw. Then, align the main PS5 cover with the console, ensuring the disc drive slot is correctly positioned. Slide the cover back into place until it clicks securely.

## 6. Initial Setup and Formatting

After installation, power on your PlayStation 5. The console will detect the new M.2 SSD and prompt you to format it. Follow the on-screen instructions to format the drive. This process will erase all data on the SSD, so ensure it is a new or empty drive. Do not turn off your PS5 or remove the M.2 SSD during formatting.

### Installation Video Guide (PS5)

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*Video: A step-by-step guide demonstrating the installation of the Crucial T500 NVMe SSD into a PlayStation 5 console, including cover removal, SSD placement, and reassembly.*

## OPERATING YOUR CRUCIAL T500 SSD

Once installed and formatted, your Crucial T500 SSD will function as expanded storage for your PlayStation 5 or PC. For PS5, you can move games and applications between the console's internal storage and the M.2 SSD storage. For PC, it will appear as a new drive letter, ready for use.

- **Game Loading:** Experience faster game loading times, up to 16% faster for certain titles.
- **Content Creation:** Benefit from up to 42% faster performance in content creation applications due to high read/write speeds.
- **DirectStorage Support:** On compatible PCs, the T500 supports Microsoft DirectStorage for faster texture rendering and reduced CPU usage.

## MAINTENANCE

To ensure optimal performance and longevity of your Crucial T500 SSD:

- **Firmware Updates:** Regularly check for and install firmware updates from the Crucial website. Firmware updates can improve performance, stability, and compatibility.
- **Avoid Defragmentation:** Unlike traditional hard drives, SSDs do not benefit from defragmentation. It can actually reduce the lifespan of the drive.
- **Monitor Health:** Use SSD management software (if available for your operating system) to monitor the drive's health and performance.
- **Thermal Management:** The integrated heatsink helps manage temperatures. Ensure adequate airflow around your console or PC to prevent overheating, especially during extended use.

## TROUBLESHOOTING

If you encounter issues with your Crucial T500 SSD, consider the following:

- **SSD Not Recognized:**
  - Ensure the SSD is fully seated in the M.2 slot.
  - Verify all screws and covers are correctly reattached.
  - For PS5, ensure formatting was completed successfully.
  - For PC, check Disk Management to see if the drive needs to be initialized and formatted.
- **Slow Performance:**
  - Confirm your system (PS5 or PC motherboard) supports PCIe Gen4 speeds. The T500 is backward compatible with Gen3, but performance will be limited.
  - Ensure the heatsink is properly installed and not obstructed.
  - Check for the latest firmware updates for the SSD.
  - Avoid running intensive tasks simultaneously that might bottleneck system resources.
- **Game Installation Issues (PS5):** If you experience problems playing games installed on the M.2 SSD, try installing them in the console's internal storage to isolate the issue.

## SPECIFICATIONS


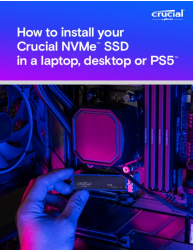
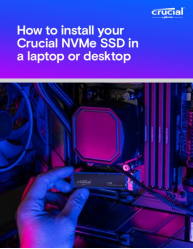
Brand	Crucial
Model Number	CT2000T500SSD5
Capacity	2 TB
Interface	PCIe Gen4 NVMe
Form Factor	M.2 2280 with Heatsink




Sequential Read Speed	Up to 7,400 MB/s
Sequential Write Speed	Up to 7,000 MB/s
IOPS (Read/Write)	Up to 1.18M / 1.44M
NAND Type	TLC NAND
Compatibility	PlayStation 5, Laptop, Desktop (PC)
Dimensions (LxWxH)	3.15 x 0.92 x 0.38 inches
Item Weight	1.23 ounces

## WARRANTY AND SUPPORT

The Crucial T500 SSD is backed by a **5-year limited warranty**, ensuring reliability and peace of mind. For technical support, warranty claims, or additional product information, please visit the official Crucial website or contact their customer service. Additional resources include Acronis cloning software for data recovery and transfers, and a one-month Adobe Creative Cloud All-Apps subscription.

## Related Documents - CT2000T500SSD5

	<p><a href="#">Crucial NVMe SSD with Heatsink Installation Guide for PS5 and Desktops</a></p> <p>Step-by-step instructions from Crucial for installing their NVMe SSD with heatsink into a PlayStation 5 console or desktop computer, covering compatibility, preparation, and installation procedures.</p>
	<p><a href="#">Crucial NVMe SSD Installation Guide for Laptops, Desktops, and PS5</a></p> <p>Comprehensive guide on how to install your Crucial NVMe SSD in laptops, desktops, and PlayStation 5 consoles. Includes steps for installation with and without heatsinks, cloning data, and using Crucial Storage Executive.</p>
	<p><a href="#">Crucial NVMe SSD Installation Guide: Laptop &amp; Desktop</a></p> <p>Learn how to install your new Crucial NVMe SSD in a laptop or desktop with this comprehensive guide from Crucial by Micron. Follow step-by-step instructions to ensure compatibility, prepare your workspace, and successfully upgrade your computer's storage.</p>

	<p><a href="#">How to Install a Crucial NVMe PCIe M.2 SSD in Your Computer</a></p> <p>A step-by-step guide on how to install a Crucial NVMe PCIe M.2 SSD into your computer, including preparation, installation, data cloning, and software setup for optimal performance.</p>
	<p><a href="#">Crucial m4 SSD Firmware Update Guide (Revision 070H)</a></p> <p>Step-by-step guide for updating the Crucial m4 2.5-inch SSD firmware to revision 070H using the Windows update utility. Includes instructions, troubleshooting, and release notes.</p>
	<p><a href="#">How to Install a Crucial SSD in Your Computer</a></p> <p>A step-by-step guide on how to install a Crucial SSD in your computer, including preparation, data cloning, and physical installation. Learn how to improve your computer's speed and performance with a new SSD.</p>