



Manuals.plus /

› **Lenovo** /

› **Lenovo 2 TB Solid State Drive - M.2 2280 Internal - PCI Express NVMe (PCI Express NVMe 4.0 x4) - Black User Manual**

**Lenovo 4XB1D04758**

# **Lenovo 2 TB Solid State Drive - M.2 2280 Internal - PCI Express NVMe (PCI Express NVMe 4.0 x4) - Black User Manual**

Model: 4XB1D04758

## **INTRODUCTION**

This manual provides essential information for the installation, operation, and maintenance of your Lenovo 2 TB Solid State Drive.

The ThinkPad 2TB Performance PCIe Gen4 NVMe OPAL2 M.2 2280 SSD is designed to upgrade your ThinkPad notebook, offering superior data storage and productive performance.



Image: A top-down view of the Lenovo 2TB M.2 2280 NVMe Solid State Drive. The green circuit board is visible with various components and a white label area. The M.2 connector pins are visible on the right side.

## SETUP AND INSTALLATION

Before beginning installation, ensure your computer is powered off and unplugged from the power source. It is recommended to wear an anti-static wrist strap to prevent electrostatic discharge.

1. **Prepare your system:** Open your laptop or desktop computer case. Locate an available M.2 slot on your motherboard. Refer to your computer's motherboard manual for exact M.2 slot locations and compatibility.
2. **Insert the SSD:** Gently align the notches on the Lenovo M.2 SSD with the M.2 slot. Insert the SSD at a slight angle (typically 30 degrees) into the slot until it is fully seated. Do not force the drive.
3. **Secure the SSD:** Once inserted, push the SSD down towards the motherboard. Secure it with the small screw provided with your motherboard or computer case.
4. **Close the system:** Reassemble your computer case and reconnect all cables.
5. **Initialize and format:** After booting your computer, you may need to initialize and format the new SSD through Disk Management (Windows) or Disk Utility (macOS) before it can be used.

## OPERATING PRINCIPLES

The Lenovo 2TB Performance PCIe Gen4 NVMe M.2 2280 SSD operates as a high-speed storage device for your

computer. Utilizing the PCI Express NVMe 4.0 x4 interface, it provides significantly faster data transfer rates compared to traditional SATA SSDs or HDDs.

It functions as the primary or secondary storage for your operating system, applications, and data, enhancing overall system responsiveness and reducing load times.

## MAINTENANCE AND CARE

- **Firmware Updates:** Periodically check the Lenovo support website for firmware updates for your SSD. Firmware updates can improve performance, stability, and compatibility.
- **Data Backup:** Regularly back up important data from your SSD to an external drive or cloud storage. While SSDs are reliable, data loss can occur due to various factors.
- **TRIM Command:** Ensure your operating system has TRIM enabled. TRIM helps maintain the performance and longevity of the SSD by allowing the operating system to inform the SSD which data blocks are no longer in use and can be wiped.
- **Avoid Extreme Temperatures:** Operate the SSD within recommended temperature ranges to ensure optimal performance and lifespan.

## TROUBLESHOOTING

Problem	Possible Cause	Solution
SSD not detected by system.	Incorrect installation, disabled M.2 slot in BIOS, driver issues.	<ol style="list-style-type: none"><li>1. Re-seat the SSD firmly in the M.2 slot.</li><li>2. Check BIOS/UEFI settings to ensure the M.2 slot is enabled and configured correctly (e.g., NVMe mode).</li><li>3. Update motherboard chipset drivers.</li></ol>
Slow performance.	TRIM not enabled, drive nearly full, outdated drivers/firmware.	<ol style="list-style-type: none"><li>1. Verify TRIM is enabled in your OS.</li><li>2. Ensure sufficient free space (ideally 10-15% free).</li><li>3. Update SSD firmware and motherboard drivers.</li></ol>
Data corruption or errors.	Sudden power loss, faulty drive, software issues.	<ol style="list-style-type: none"><li>1. Ensure stable power supply.</li><li>2. Run disk check utilities (e.g., chkdsk on Windows).</li><li>3. If issues persist, consider data backup and potential drive replacement.</li></ol>

## SPECIFICATIONS

**Brand:** Lenovo

**Model:** ThinkPad 2TB Performance PCIe Gen4 NVMe OPAL2 M.2 2280 SSD (4XB1D04758)

**Storage Capacity:** 2 TB (2000 GB)

**Form Factor:** M.2 2280

**Interface:** PCI Express NVMe 4.0 x4

**Drive Type:** Solid State Drive (SSD)

**Color:** Black

**Item Weight:** 0.32 ounces

**Product Dimensions:** 19.69 x 19.69 x 11.02 inches

**Compatible Devices:** Laptop, PC, ThinkPad Notebooks

## WARRANTY AND SUPPORT

This Lenovo SSD is backed by a one-year warranty. For warranty claims or technical support, please visit the official Lenovo support website or contact their customer service.

For more information and support resources, visit the [Lenovo Store on Amazon](#).