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SanDisk SDSSDH3-4T00-G26

SanDisk Ultra 3D NAND Internal SSD User Manual

Model: SDSSDH3-4T00-G26

Brand: SanDisk

1. Product Overview

The SanDisk Ultra 3D NAND Internal SSD is designed to accelerate your PC's performance, offering faster boot-up times, quicker application loading, and enhanced responsiveness for gaming and graphics-intensive tasks. This solid-state drive utilizes 3D NAND technology for improved endurance and efficiency, providing a cooler and quieter computing experience compared to traditional hard drives.



Figure 1.1: Front view of the SanDisk Ultra 3D NAND Internal SSD. This image displays the sleek black casing with the "SanDisk Ultra 3D SSD" branding prominently featured.

Key Features:

- Accelerates PC for faster boot-up and blazing-fast gaming and graphics.
- Ultra-fast sequential read speeds of up to 560MB/s and sequential write speeds of up to 520MB/s.
- 3D NAND technology for greater endurance, longer drive life, and reduced power consumption.
- nCache 2.0 technology for blazing-fast speeds.
- Shock-resistant design to protect data.

2. Setup and Installation

This section provides general guidelines for installing your SanDisk Ultra 3D NAND Internal SSD. Specific installation steps may vary depending on your computer's make and model. It is recommended to consult your computer's user manual for detailed instructions on accessing and replacing internal storage components.

2.1. Physical Installation

1. **Preparation:** Before beginning, ensure your computer is powered off and disconnected from all power sources. It is advisable to wear an anti-static wrist strap to prevent electrostatic discharge (ESD) damage to components.
2. **Accessing the Drive Bay:** Open your computer case or laptop's access panel to locate the 2.5-inch drive bay. This may require removing screws or latches.
3. **Removing the Old Drive (if applicable):** If you are replacing an existing drive, carefully disconnect its SATA data and power cables. Remove any mounting screws or brackets securing the old drive and gently slide it out.
4. **Installing the SSD:** Slide the SanDisk Ultra 3D NAND SSD into the 2.5-inch drive bay. Secure it with the appropriate screws or mounting hardware.
5. **Connecting Cables:** Connect the SATA data cable from your motherboard to the SSD, and connect a SATA power cable from your power supply unit (PSU) to the SSD. Ensure connections are firm.
6. **Closing the Case:** Once the SSD is securely installed and connected, close your computer case or laptop's access panel.



Figure 2.1: The SanDisk Ultra 3D NAND SSD positioned next to a laptop, illustrating its compact 2.5-inch form factor suitable for laptop upgrades.



Figure 2.2: The SSD placed beside an open laptop drive bay, showing the area where the internal storage device is installed.



Figure 2.3: The SanDisk Ultra 3D NAND SSD being slid into the laptop's internal drive bay, demonstrating the physical installation process.

2.2. Software Setup

1. **Initial Boot:** Power on your computer. Access your system's BIOS/UEFI settings to ensure the SSD is recognized.
2. **Initialization and Formatting:** For a new SSD, you will need to initialize and format it before use.
    - **Windows:** Open Disk Management (right-click Start button > Disk Management). Locate the new SSD, right-click it, and select "Initialize Disk." Choose MBR (Master Boot Record) or GPT (GUID Partition Table) based on your system's requirements (GPT is recommended for modern systems and drives larger than 2TB). Then, right-click the unallocated space and select "New Simple Volume" to format it.
    - **macOS:** Open Disk Utility (Applications > Utilities > Disk Utility). Select the new SSD, click "Erase," choose a name, format (e.g., APFS or Mac OS Extended (Journaled)), and scheme (GUID Partition Map).
3. **Operating System Installation or Cloning:**
    - **Clean Installation:** Install your operating system directly onto the new SSD using a bootable USB drive or DVD.
    - **Cloning:** If you wish to migrate your existing operating system and data from an old drive to the new SSD, use a disk cloning software. SanDisk often provides or recommends compatible cloning tools.

3. Operating the SSD

Once installed and configured, the SanDisk Ultra 3D NAND SSD operates seamlessly as your computer's primary storage device. Its solid-state nature means it has no moving parts, contributing to its speed, durability, and quiet operation.

3.1. Performance Benefits

- **Faster Boot Times:** Experience significantly reduced boot-up times for your operating system.
- **Quick Application Loading:** Applications and programs will launch much faster than on traditional hard drives.

- **Enhanced Responsiveness:** Overall system responsiveness, including file transfers and multitasking, will be greatly improved.
- **Quiet Operation:** The absence of moving parts ensures silent operation.
- **Improved Battery Life:** SSDs consume less power than HDDs, potentially extending laptop battery life.



Figure 3.1: An angled view of the SanDisk Ultra 3D NAND SSD, highlighting the standard SATA data and power connectors on its side, essential for connecting to a computer's motherboard and power supply.

4. Maintenance

Unlike traditional hard disk drives (HDDs), Solid State Drives (SSDs) do not require defragmentation. Regular defragmentation can actually reduce the lifespan of an SSD. Instead, SSD maintenance focuses on ensuring the operating system's TRIM command is active and monitoring drive health.

4.1. TRIM Command

The TRIM command helps the operating system communicate with the SSD to efficiently manage data blocks that are no longer in use. This prevents performance degradation over time. Most modern operating systems (Windows 7 and later, macOS, Linux) automatically enable TRIM for SSDs. You can verify its status:

- **Windows:** Open Command Prompt as administrator and type `fsutil behavior query DisableDeleteNotify`. If the result is "DisableDeleteNotify = 0", TRIM is enabled.
- **macOS:** TRIM is typically enabled by default for Apple-supplied SSDs. For third-party SSDs, you might need to enable it using `sudo trimforce enable` in Terminal (use with caution).

4.2. Firmware Updates

Periodically check the SanDisk website for firmware updates for your SSD model. Firmware updates can improve performance, stability, and address potential issues. Follow the instructions provided by SanDisk carefully when performing firmware updates.

4.3. Monitoring Drive Health

Utilize S.M.A.R.T. (Self-Monitoring, Analysis, and Reporting Technology) tools to monitor the health and lifespan of your SSD. Many third-party utilities are available that can read S.M.A.R.T. data and provide insights into the drive's condition.

5. Troubleshooting

This section addresses common issues you might encounter with your SanDisk Ultra 3D NAND Internal SSD.

Problem	Possible Cause	Solution
SSD not detected by BIOS/UEFI or Operating System.	Incorrect cable connection. Incorrect BIOS/UEFI settings. Drive not initialized/formatted. Faulty SATA port or cable.	Ensure SATA data and power cables are securely connected. Check BIOS/UEFI settings: ◦ Ensure SATA controller mode is set to AHCI (not IDE). ◦ Verify that the SATA port the SSD is connected to is enabled. For new drives, initialize and format the SSD in Disk Management (Windows) or Disk Utility (macOS). Try a different SATA port or cable.
Slow performance after installation.	TRIM command not enabled. SSD connected to a slower SATA port (e.g., SATA II instead of SATA III). Outdated drivers or firmware. Drive nearly full.	Verify TRIM is enabled (see Maintenance section). Ensure the SSD is connected to a SATA III (6 Gb/s) port on your motherboard. Update motherboard SATA drivers and SSD firmware. Maintain at least 10-15% free space on the SSD for optimal performance.
Operating system fails to boot from SSD.	Incorrect boot order in BIOS/UEFI. Corrupted OS installation or cloning.	Enter BIOS/UEFI and set the SSD as the primary boot device. If OS was cloned, ensure the cloning process was successful and the source drive was healthy. Consider a clean OS installation if issues persist.

6. Specifications

Detailed technical specifications for the SanDisk Ultra 3D NAND Internal SSD (Model: SDSSDH3-4T00-G26).

Feature	Detail
Hard Drive Type	Solid State Drive (SSD)
Capacity	4 TB
Interface	SATA III (6 Gb/s)
Form Factor	2.5 Inches / 7mm
Sequential Read Speed	Up to 560 MB/s
Sequential Write Speed	Up to 520 MB/s

Feature	Detail
NAND Type	3D NAND
Technology	nCache 2.0
Item Model Number	SDSSDH3-4T00-G26
Hardware Platform	PC
Item Weight	1.92 ounces
Product Dimensions (LxWxH)	0.28 x 3.96 x 2.75 inches
Color	Black
Special Feature	Shock Resistant
Manufacturer	Western Digital Technologies, Inc.
Date First Available	June 10, 2023

7. Warranty and Support

7.1. Warranty Information

SanDisk products are backed by a limited warranty. The specific duration and terms of the warranty for your SanDisk Ultra 3D NAND Internal SSD may vary by region and retailer. Please retain your proof of purchase for warranty claims.

For detailed warranty information, including terms and conditions, please visit the official SanDisk support website or refer to the warranty card included with your product.

7.2. Data Recovery Plans

Optional data recovery plans are available for purchase to protect your valuable data. These plans provide professional data recovery services in case of accidental data loss or drive failure. For more information on available plans, such as the 2-Year or 3-Year Data Recovery Plans, please consult your retailer or the SanDisk website.

7.3. Customer Support

If you encounter any issues or have questions regarding your SanDisk Ultra 3D NAND Internal SSD, please contact SanDisk Customer Support. Support resources typically include:

- Online knowledge base and FAQs.
- Driver and firmware downloads.
- Technical support via phone or email.

Visit the official SanDisk support website for the most up-to-date contact information and support resources:SanDisk Support

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