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Western Digital WDS100T4G0E

Western Digital WD Green SN3000 NVMe SSD User Manual

Model: WDS100T4G0E

INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your Western Digital WD Green SN3000 NVMe Internal SSD. Please read this manual thoroughly before using the product.

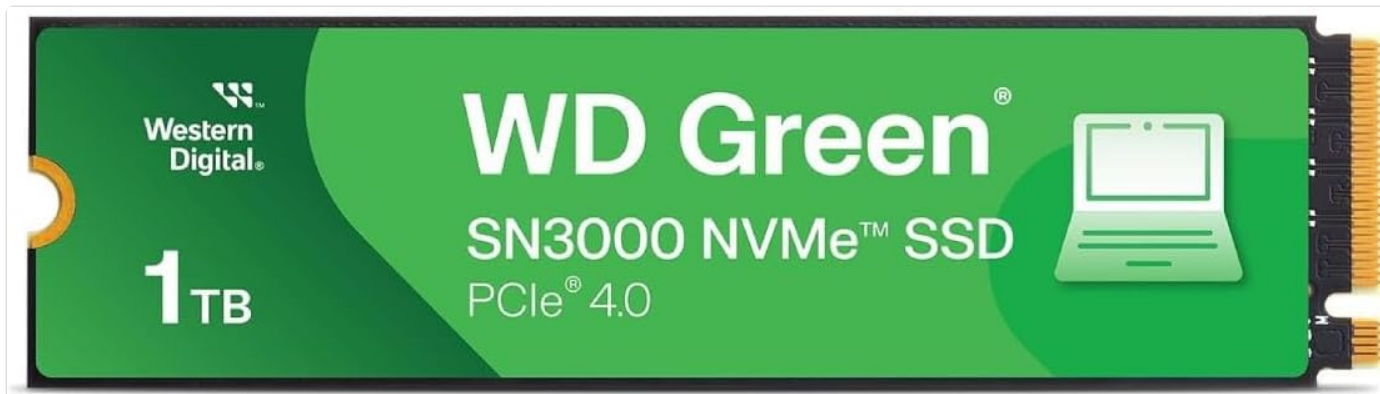


Image: Front view of the Western Digital WD Green SN3000 NVMe SSD, highlighting its green color, "WD Green" branding, "SN3000 NVMe SSD" model name, and "PCIe 4.0" specification, along with "1TB" capacity.

PACKAGE CONTENTS

Verify that all items are present in the package:

- 1 x Western Digital WD Green SN3000 NVMe SSD
- *(No other components are typically included with this product, as it is an internal component.)*

SETUP AND INSTALLATION

The WD Green SN3000 NVMe SSD is designed for internal installation in compatible desktop and laptop computers. Professional installation is recommended if you are unfamiliar with computer hardware.

Before Installation:

- Ensure your system's motherboard has an available M.2 2280 slot that supports PCIe Gen4 NVMe SSDs.

- Back up all important data from your existing storage drive.
- Power off your computer and disconnect it from the power source.
- Discharge any static electricity by touching a grounded metal object.

Installation Steps:

1. Open your computer case or laptop chassis according to the manufacturer's instructions.
2. Locate the M.2 slot on your motherboard. It is typically labeled.
3. Gently insert the WD Green SN3000 NVMe SSD into the M.2 slot at a slight angle. Ensure the gold contacts are fully seated.
4. Press the SSD down and secure it with the screw provided by your motherboard or laptop manufacturer.



Image: The WD Green SN3000 NVMe SSD securely installed in an M.2 slot on a laptop's motherboard, surrounded by other internal components.

Post-Installation:

- Close your computer case or laptop chassis.

- Reconnect all cables and power on your computer.
- Access your system's BIOS/UEFI settings to confirm the SSD is recognized.
- Initialize and format the SSD using your operating system's disk management tools before use.
- For data migration from an old drive, utilize the free downloadable Acronis True Image for Western Digital software.

OPERATING THE SSD

The WD Green SN3000 NVMe SSD operates as a high-speed storage device within your computer system. Once installed and formatted, it functions like any other internal drive.

Key Features and Performance:

- **PCIe Gen4 Performance:** Offers read speeds up to 5,000MB/s, significantly improving application launch times and overall system responsiveness.
- **NVMe Technology:** Utilizes the Non-Volatile Memory Express (NVMe) interface for efficient data transfer and reduced latency.
- **Western Digital nCache 4.0 Technologies:** Enhances performance and improves workflow efficiency.
- **Slim M.2 2280 Form Factor:** Compatible with a wide range of thin laptops and small form factor PCs.



Image: The compact WD Green SN3000 NVMe SSD placed on a laptop's keyboard, illustrating its small size relative to a typical laptop.

MAINTENANCE

Solid State Drives (SSDs) generally require less maintenance than traditional Hard Disk Drives (HDDs). However, following these practices can help ensure optimal performance and longevity:

- **Keep Firmware Updated:** Periodically check the Western Digital support website for firmware updates for your SSD. Firmware updates can improve performance, stability, and compatibility.
- **Avoid Full Capacity:** While SSDs perform well even when nearly full, maintaining some free space (e.g., 10-15%) can help with wear leveling and performance.
- **Enable TRIM:** Ensure your operating system has TRIM enabled. TRIM helps the SSD manage its data blocks more efficiently, preventing performance degradation over time. Most modern operating systems enable TRIM by default for SSDs.
- **Regular Backups:** Always maintain regular backups of your important data. While SSDs are reliable, no storage device is immune to failure.

- **Avoid Defragmentation:** Do not defragment an SSD. Defragmentation is designed for HDDs and can reduce the lifespan of an SSD without providing any performance benefit.

TROUBLESHOOTING

If you encounter issues with your WD Green SN3000 NVMe SSD, consider the following troubleshooting steps:

- **SSD Not Detected:**
 - Ensure the SSD is correctly seated in the M.2 slot.
 - Check your system's BIOS/UEFI settings to confirm the M.2 slot is enabled and the SSD is recognized.
 - Verify your motherboard supports NVMe SSDs and the specific PCIe generation (Gen4).
 - Try the SSD in another compatible M.2 slot or system if available, to rule out a motherboard issue.
- **Slow Performance:**
 - Ensure your system is running in PCIe Gen4 mode if supported. Check BIOS settings.
 - Confirm TRIM is enabled in your operating system.
 - Check for background processes that might be heavily utilizing the drive.
 - Ensure the SSD firmware is up to date.
- **Operating System Not Booting:**
 - Verify the boot order in your BIOS/UEFI settings.
 - If you migrated your OS, ensure the migration process was completed successfully and the boot partition is correctly configured.
 - Attempt a clean installation of the operating system if other steps fail.

For further assistance, refer to the Western Digital support website or contact their customer service.

SPECIFICATIONS

| Feature | Detail |
|--------------------------|---------------------------|
| Brand | Western Digital |
| Series | WD Green SN3000 NVMe SSD |
| Model Number | WDS100T4G0E |
| Digital Storage Capacity | 1 TB |
| Connectivity Technology | PCIe Gen4 NVMe |
| Form Factor | M.2 2280 |
| Read Speed (Max) | Up to 5,000 MB/s |
| Dimensions (LxWxH) | 3.15 x 0.87 x 0.09 inches |
| Item Weight | 0.19 ounces |
| Compatible Devices | Desktop, Laptop |

WARRANTY INFORMATION

Western Digital products typically come with a limited warranty. For specific warranty terms and conditions, including duration and coverage, please refer to the official Western Digital website or the warranty card included with your purchase. Keep your proof of purchase for warranty claims.

CUSTOMER SUPPORT

For technical support, driver downloads, firmware updates, or additional product information, please visit the official Western Digital support website:

<https://support.wdc.com>

You may also find helpful resources and community forums on their website.


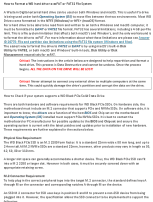
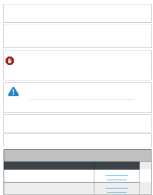
IMPORTANT SAFETY INFORMATION



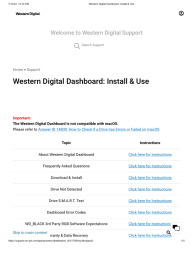
- Always handle the SSD by its edges to avoid touching the components or connectors.
- Protect the SSD from electrostatic discharge (ESD) by using anti-static precautions during installation.
- Do not expose the SSD to extreme temperatures, moisture, or direct sunlight.
- Do not attempt to disassemble or repair the SSD yourself, as this will void the warranty.

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This manual is for informational purposes only. Specifications are subject to change without notice.

Related Documents - WDS100T4G0E

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|---|--|
|  | <p>How to Install and Set Up a WD Black SN850x SSD</p> <p>A step-by-step guide on installing and setting up a new WD Black SN850x NVMe SSD on a Windows computer, including physical installation and disk initialization/formatting.</p> |
|  | <p>Formatting WD Hard Drives and WD Black PCIe SSD Compatibility Guide</p> <p>Learn how to format Western Digital hard drives to exFAT or FAT32 file systems and understand the hardware and software requirements for WD Black PCIe SSDs on Windows and macOS.</p> |
|  | <p>How to Partition, Format, and Troubleshoot WD External Hard Drives on Windows and macOS</p> <p>A comprehensive guide from Western Digital (WD) detailing how to partition and format WD external hard drives for compatibility with Windows and macOS operating systems. It includes troubleshooting steps for common connection and recognition issues, guidance on using WD utilities like WD Security and WD Drive Utilities, and information on drive management.</p> |

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|---|---|
|  | <p>Western Digital OpenFlex Data24 4000 Series Installation Guide</p> <p>This guide provides detailed instructions for the installation of the Western Digital OpenFlex Data24 4000 Series storage platform, covering equipment requirements, safety precautions, unpacking, installation procedures, and connecting to NVMe devices.</p> |
|  | <p>Western Digital OpenFlex Data24 4000 Series Quick-Start Guide: Installation and Setup</p> <p>A concise guide to installing and setting up the Western Digital OpenFlex Data24 4000 Series storage server, covering rail installation, cabling, power, and device discovery.</p> |
|  | <p>Western Digital Dashboard: Install & Use Guide</p> <p>Comprehensive guide on how to install and use the Western Digital Dashboard software for managing your Western Digital and SanDisk storage devices.</p> |