

## Western Digital WDS100T2B0C

# Western Digital WD Blue SN550 NVMe SSD 1TB User Manual

Model: WDS100T2B0C

Brand: Western Digital

This manual provides essential information for the setup, operation, and maintenance of your WD Blue SN550 NVMe SSD.

## 1. INTRODUCTION

The Western Digital WD Blue SN550 NVMe Internal SSD is designed to enhance your computer's performance with high-speed data transfer capabilities. Utilizing the NVMe interface, this solid-state drive offers significantly faster read and write speeds compared to traditional SATA SSDs, making it suitable for various computing tasks including content creation, gaming, and large data processing. This manual will guide you through the necessary steps to install and utilize your new SSD effectively.



Figure 1: Western Digital WD Blue SN550 NVMe SSD

This image displays the top view of the Western Digital WD Blue SN550 NVMe SSD, highlighting its compact M.2 form factor and blue PCB. The product label with model information is clearly visible.

## 2. SAFETY INFORMATION

- Always disconnect power from your computer before installing or removing any internal components.
- Discharge any static electricity from your body by touching a grounded metal object (e.g., your computer's metal chassis) before handling the SSD.
- Handle the SSD by its edges to avoid touching the gold connectors or components.
- Ensure your motherboard supports NVMe M.2 SSDs and has an available M.2 slot. Refer to your motherboard's manual for compatibility.
- Do not force the SSD into the M.2 slot. If it does not fit easily, recheck the orientation and compatibility.

### 3. PACKAGE CONTENTS

Your Western Digital WD Blue SN550 NVMe SSD package should contain:

- Western Digital WD Blue SN550 NVMe SSD (1TB, Model: WDS100T2B0C)
- Quick Installation Guide (may vary by region)

Note: Mounting screws for the M.2 slot are typically provided with your motherboard or computer chassis, not with the SSD itself.



Figure 2: Retail packaging for the Western Digital WD Blue SN550 NVMe SSD.

This image shows the blue and white retail box of the Western Digital WD Blue SN550 NVMe SSD, displaying the product name, capacity (1TB), 3D NAND technology, and read speed of up to 2,400 MB/s.

## 4. SETUP AND INSTALLATION

### 4.1. Pre-Installation Checks

- **Verify Motherboard Compatibility:** Ensure your motherboard has an M.2 slot that supports NVMe PCIe Gen3 x4 SSDs. Consult your motherboard's user manual.
- **Backup Data:** If you are replacing an existing drive, back up all important data before proceeding.
- **Gather Tools:** You will typically need a Phillips-head screwdriver and possibly an anti-static wrist strap.

### 4.2. Physical Installation (Desktop PC)

1. **Power Off and Disconnect:** Shut down your computer completely and disconnect the power cable and all peripherals.
2. **Open Case:** Remove the side panel of your computer case to access the motherboard.
3. **Locate M.2 Slot:** Find an available M.2 slot on your motherboard. It is usually labeled "M.2" or "PCIe M.2".
4. **Remove Standoff/Screw:** If present, remove the small screw and/or standoff from the M.2 slot.
5. **Insert SSD:** Gently slide the WD Blue SN550 NVMe SSD into the M.2 slot at a slight angle (approximately 30 degrees). The notch on the SSD should align with the key in the slot.
6. **Secure SSD:** Once fully seated, push the SSD down until it is parallel with the motherboard. Secure it with the screw you removed earlier. Do not overtighten.
7. **Close Case:** Reattach the side panel of your computer case.
8. **Reconnect Power:** Plug in the power cable and other peripherals.

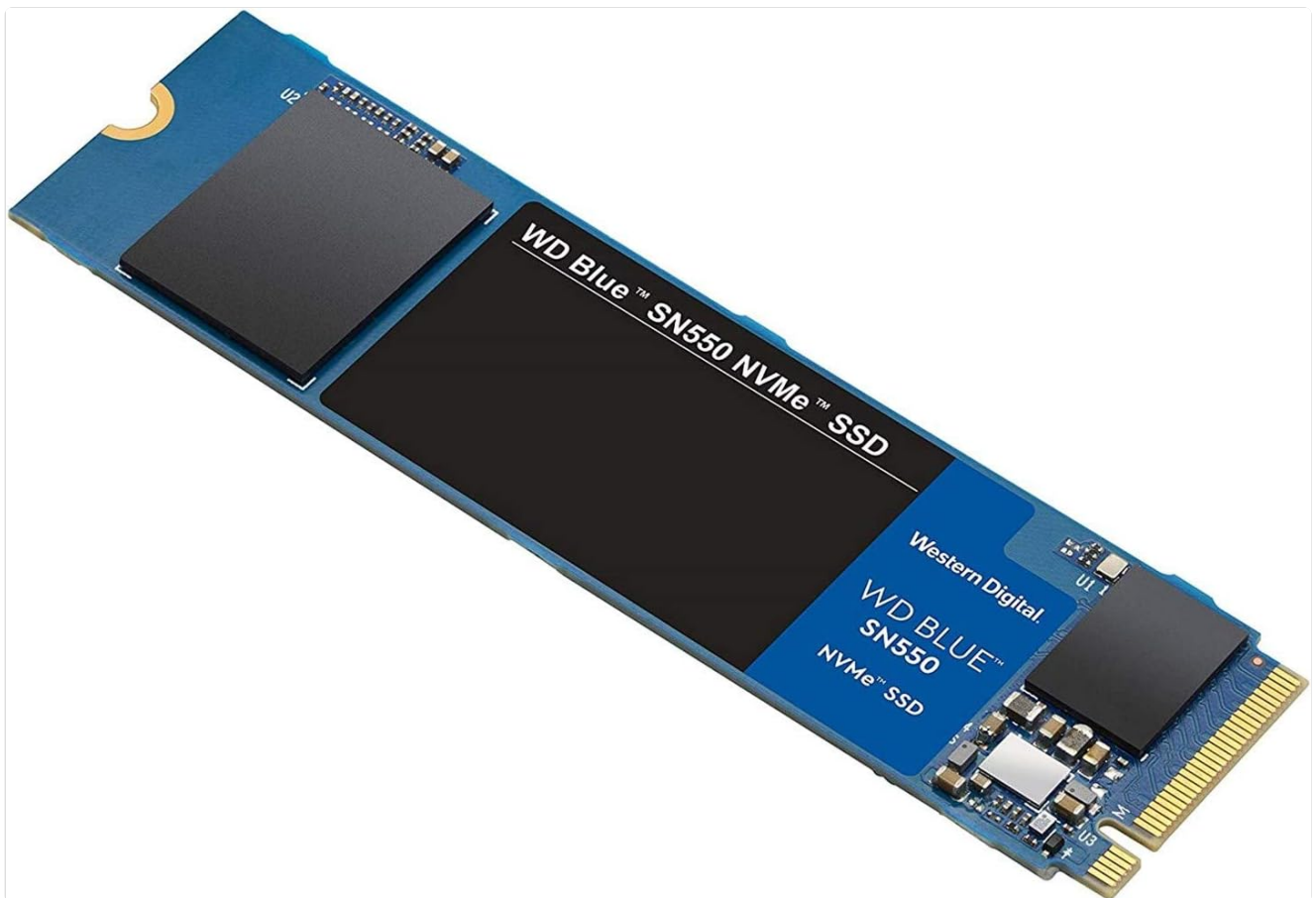


Figure 3: Angled view of the Western Digital WD Blue SN550 NVMe SSD.

This image provides an angled perspective of the Western Digital WD Blue SN550 NVMe SSD, showcasing its M.2 2280 form factor and the gold-plated connector pins. This view is helpful for understanding the orientation during installation.

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Video 1: How to replace an M.2 SSD.

This video demonstrates the process of replacing an M.2 SSD in a laptop, providing visual guidance for physical installation steps.

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Video 2: Install M.2 NVMe drive in a desktop & clone old drive.

This video provides a detailed guide on installing an M.2 NVMe drive in a desktop computer and the process of cloning an existing operating system to the new drive.

### 4.3. Software Setup (Windows)

1. Boot your computer. The system should recognize the new hardware.
2. Initialize the Disk:
  - Right-click on the Start button and select "Disk Management".
  - You should see your new SSD listed as "Unallocated Space".
  - Right-click on the unallocated space and select "Initialize Disk". Choose GPT (GUID Partition Table) for modern systems.
3. Create a New Simple Volume:
  - Right-click on the "Unallocated Space" again and select "New Simple Volume".
  - Follow the wizard to assign a drive letter, choose a file system (NTFS is recommended for Windows), and set a volume label.
4. Operating System Migration (Cloning): If you intend to migrate your operating system from an old drive to the new SSD, you will need disk cloning software. Western Digital often provides or recommends compatible software (e.g., Acronis True Image WD Edition). Follow the software's instructions carefully.

### 4.4. External USB-C NVMe SSD Setup (Optional)

The WD Blue SN550 NVMe SSD can also be used as a high-speed external storage device with a compatible USB-C NVMe enclosure (sold separately). This offers portable, fast storage for various devices.

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Video 3: How To Build A USB C NVMe SSD Storage Drive.

This video demonstrates the process of assembling a USB-C NVMe SSD external storage drive using an M.2 NVMe SSD and a compatible enclosure.

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## 5. OPERATING THE SSD

Once installed and formatted, your WD Blue SN550 NVMe SSD functions like any other storage drive. You can save files, install applications, and store your operating system on it. Its NVMe interface ensures rapid access to data, improving system responsiveness and application load times.

- For optimal performance, ensure your operating system and frequently used applications are installed on the SSD.
- Avoid filling the drive to its maximum capacity, as this can sometimes impact performance.

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## 6. MAINTENANCE

- **WD SSD Dashboard:** Download and install the Western Digital SSD Dashboard software from the official Western Digital website. This utility allows you to monitor the health, temperature, and performance of your SSD. It also provides tools for firmware updates and secure erase functions.
- **Firmware Updates:** Regularly check for and install firmware updates for your SSD using the WD SSD Dashboard. Firmware updates can improve performance, stability, and compatibility.
- **TRIM Support:** Ensure TRIM is enabled in your operating system. TRIM helps maintain the performance of your SSD over time by allowing the operating system to inform the SSD which data blocks are no longer in use and can be wiped internally.
- **Avoid Defragmentation:** Unlike traditional hard disk drives (HDDs), SSDs do not benefit from defragmentation. Defragmenting an SSD can reduce its lifespan without offering any performance benefits.

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## 7. TROUBLESHOOTING

### 7.1. SSD Not Detected

- **Check Physical Connection:** Ensure the SSD is fully seated in the M.2 slot.
- **BIOS/UEFI Settings:** Enter your system's BIOS/UEFI settings and verify that the M.2 slot is enabled and configured correctly (e.g., PCIe mode).
- **Driver Installation:** Ensure your operating system has the necessary NVMe drivers. Windows 10/11 typically include these by default.
- **Disk Management:** Check Disk Management (Windows) or Disk Utility (macOS/Linux) to see if the drive is detected but uninitialized.

### 7.2. Slow Performance

- **NVMe vs. SATA:** Confirm that the SSD is operating in NVMe (PCIe) mode, not SATA mode, if your M.2 slot supports both.
- **TRIM Enabled:** Verify that TRIM is enabled in your operating system.
- **Firmware:** Ensure your SSD has the latest firmware installed.
- **Drive Fullness:** Avoid keeping the drive nearly full. Maintain at least 10-15% free space for optimal performance.
- **Temperature:** High operating temperatures can lead to thermal throttling, reducing performance. Ensure adequate airflow in your system.

## 8. SPECIFICATIONS

Feature	Specification
Model Number	WDS100T2B0C
Capacity	1 TB
Interface	NVMe (PCIe Gen3 x4)
Form Factor	M.2 2280
NAND Type	3D NAND
Sequential Read Speed (Up to)	2,400 MB/s
Sequential Write Speed (Up to)	1,950 MB/s (for 1TB model)
Dimensions (LxWxH)	3.15 x 0.87 x 0.09 inches
Item Weight	0.2 ounces
Hardware Platform Compatibility	PC, Mac, Linux

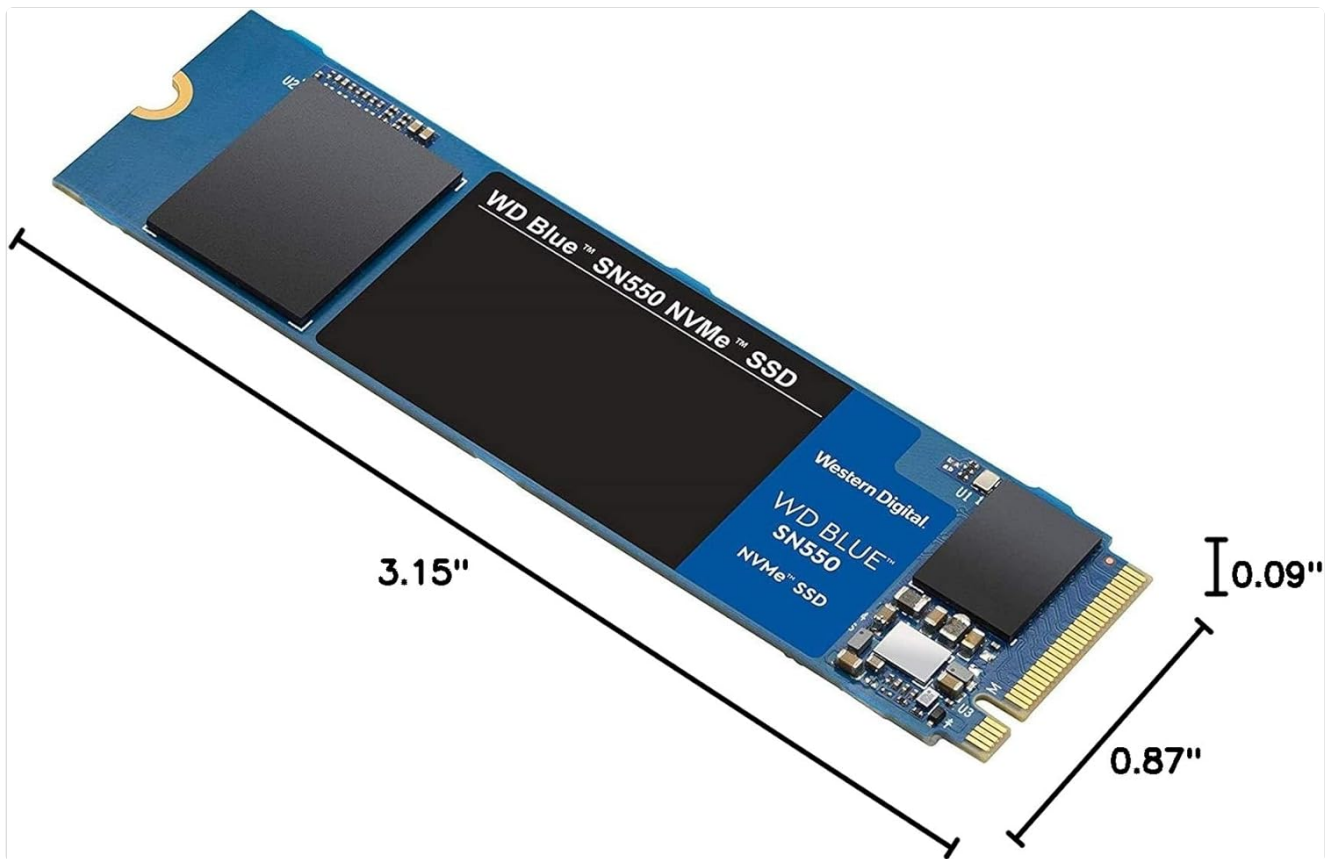


Figure 4: Western Digital WD Blue SN550 NVMe SSD with key dimensions.

This image illustrates the physical dimensions of the Western Digital WD Blue SN550 NVMe SSD, showing its length (3.15"), width (0.87"), and thickness (0.09") in inches, confirming its M.2 2280 form factor.

## 9. WARRANTY AND SUPPORT

Western Digital products typically come with a limited warranty. For specific warranty terms and conditions, please refer to the warranty information included with your product or visit the official Western Digital website.

For technical support, driver downloads, firmware updates, and additional resources, please visit the Western Digital support website:

**[Western Digital Support](#)**