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> [Western Digital 10TB WD Red Pro NAS Internal Hard Drive \(WD103KFBX\) User Manual](#)

## WD WD103KFBX

# Western Digital 10TB WD Red Pro NAS Internal Hard Drive (WD103KFBX) User Manual

Model: WD103KFBX

## INTRODUCTION

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The WD Red Pro series hard drives are engineered for high-intensity, 24x7 multi-user commercial and enterprise Network Attached Storage (NAS) environments. This manual provides essential information for the installation, operation, and maintenance of your Western Digital 10TB WD Red Pro NAS Internal Hard Drive, model WD103KFBX. Please read these instructions carefully before installation and use.

## PRODUCT OVERVIEW

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The WD Red Pro 10TB NAS HDD (WD103KFBX) is a 3.5-inch internal hard drive designed for demanding NAS systems. Key features include:

- **Capacity:** 10TB (10,000 GB) for extensive data storage.
- **Performance:** 7200 RPM rotational speed and SATA 6 Gb/s interface for fast data transfer.
- **Technology:** Utilizes Conventional Magnetic Recording (CMR) and features a 512 MB cache for optimized performance.
- **Workload Rate:** Rated for a 550TB/year workload, suitable for intensive NAS applications.
- **NASware 3.0:** Exclusive technology that enhances compatibility, reliability, and performance in NAS environments.
- **Compatibility:** Extensively tested with a wide range of NAS systems to ensure seamless integration.



Image: The WD Red Pro 10TB NAS HDD, highlighting its capacity.

## SETUP AND INSTALLATION

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This section outlines the general steps for installing your WD Red Pro hard drive into a compatible NAS enclosure. Always refer to your specific NAS system's documentation for detailed installation instructions.

1. **Preparation:** Ensure your NAS system is powered off and disconnected from the power source. Consult your NAS manual for instructions on how to safely open the enclosure and access the drive bays.
2. **Drive Handling:** Handle the hard drive by its edges. Avoid touching the circuit board or connectors to prevent electrostatic discharge (ESD) damage.
3. **Mounting:** Secure the WD Red Pro drive into an available drive bay or tray. Most NAS systems use screws to secure the drive to the tray, which then slides into the enclosure. Ensure the drive is firmly seated to prevent vibration.
4. **Connections:** Connect the SATA data cable from the NAS backplane to the drive's SATA data port. Then, connect the SATA power cable from the NAS power supply to the drive's SATA power port. Ensure both connections are secure.
5. **Enclosure Closure:** Once the drive is installed and connected, close the NAS enclosure according to its manufacturer's instructions.
6. **Power On:** Reconnect the NAS to its power source and power it on. The NAS operating system should detect the new drive.

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**Western Digital**<sup>®</sup>

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**10TB**

**WD103KFBX**

SATA 6Gb/s NX HA710



MDL: WD103KFBX-68CCLN0



S/N: 12345678

**NASware**<sup>™</sup>

Made in Thailand 13 JUL 2023 R/N: 3VXHA2

5VDC: 0.7A 12VDC: 0.9A W/N: 50014EEL12345678

P/N: 2W11072



E319334 B



R-R-WDT-3VXHA2

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D3E024  
RoHS

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223號17樓



**WD Red**<sup>™</sup> Pro  
NAS Hard Drive

CAN ICES-3(B)  
/NMB-3(B)  
DO NOT COVER  
ANY DRIVE HOLES

Image: Front view of the Western Digital 10TB WD Red Pro NAS Hard Drive, showing its label and connectors.



Image: A WD Red Pro drive being inserted into a NAS bay, illustrating proper installation.

## OPERATING THE DRIVE IN A NAS ENVIRONMENT

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Once installed, the WD Red Pro drive operates under the control of your NAS system's operating software. The following are general operational considerations:

- **Initialization:** After installation, access your NAS administration interface. You will typically need to initialize, format, and potentially configure the drive into a RAID array (e.g., RAID 0, 1, 5, 10) depending on your data redundancy and performance requirements.
- **Data Storage:** The drive will function as part of your NAS storage pool, allowing you to store, share, and access data across your network.
- **24x7 Operation:** WD Red Pro drives are designed for continuous 24x7 operation, making them suitable for always-on NAS environments.
- **Monitoring:** Utilize your NAS system's monitoring tools to check drive health, temperature, and performance.

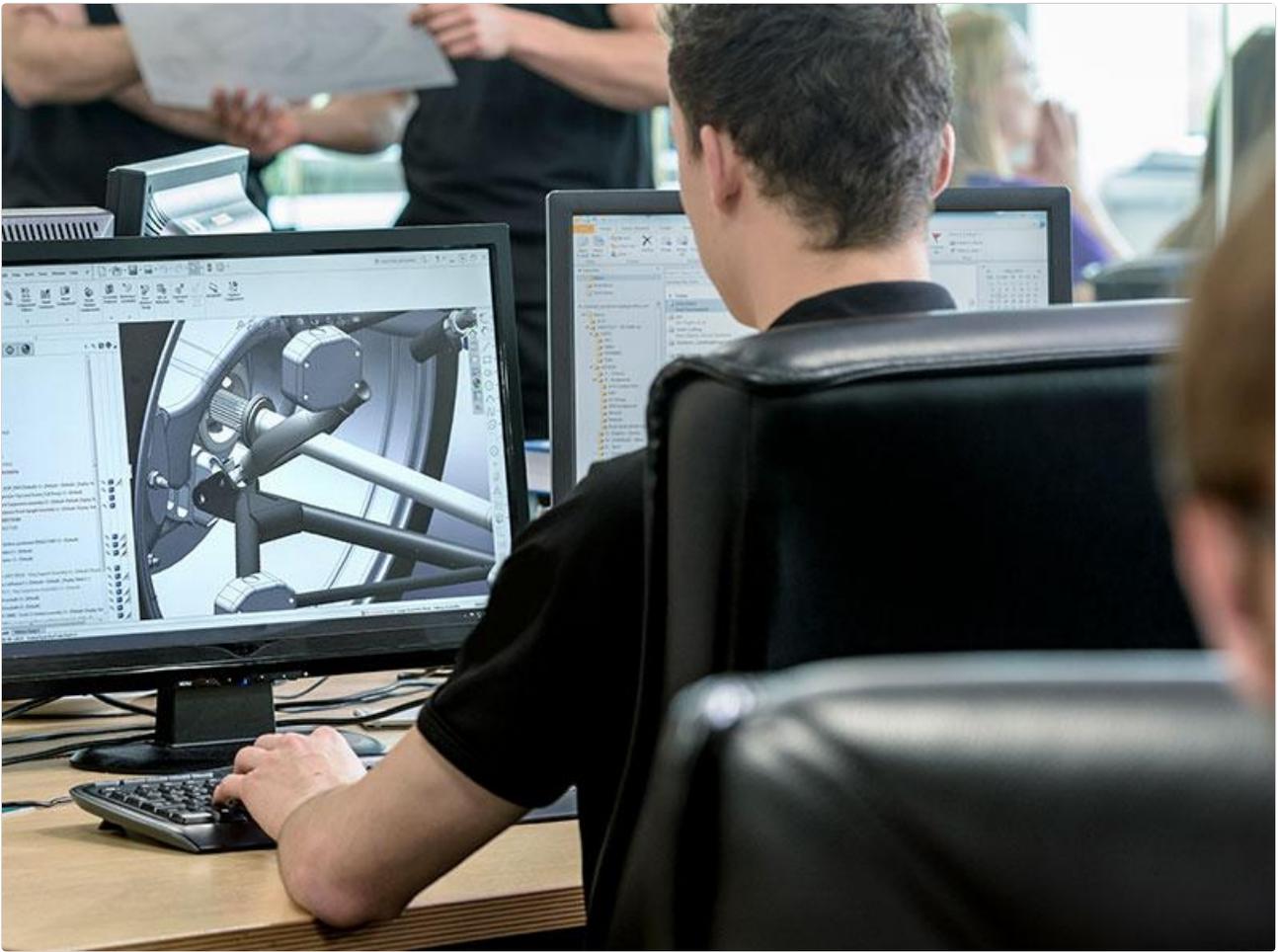


Image: Diagram showing internal hard drive components, representing the advanced technology like NASware 3.0 that improves storage performance.

## MAINTENANCE

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Proper maintenance ensures the longevity and reliability of your WD Red Pro drive and the data stored on it.

- **Environment:** Ensure your NAS enclosure is in a well-ventilated area to prevent overheating. Maintain a stable operating temperature as recommended by your NAS manufacturer.
- **Data Backup:** Regularly back up critical data from your NAS to another storage device or cloud service. While RAID provides redundancy against single drive failures, it is not a substitute for a comprehensive backup strategy.
- **Firmware Updates:** Keep your NAS system's firmware updated. These updates often include performance improvements, bug fixes, and enhanced drive compatibility.
- **Physical Protection:** Avoid physical shocks or impacts to the NAS system, as hard drives are sensitive mechanical devices.

## TROUBLESHOOTING

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If you encounter issues with your WD Red Pro drive, consider the following troubleshooting steps:

- **Drive Not Detected:**
  - Verify that the SATA data and power cables are securely connected to both the drive and the NAS backplane.
  - Ensure the drive is properly seated in its bay or tray.
  - Check your NAS system's compatibility list to confirm the drive model is supported.
  - Try installing the drive in a different bay or using different cables if available.

- **Performance Issues:**

- Monitor your NAS system's CPU and network utilization. High usage can impact drive performance.
- Check for any ongoing NAS processes like data scrubbing, RAID rebuilding, or extensive backups that might be consuming resources.
- Ensure your network infrastructure (cables, switches) is operating optimally.

- **Unusual Noises:**

- While some operational noise is normal, persistent clicking, grinding, or scraping sounds can indicate a potential drive failure.
- If you hear unusual noises, immediately back up any critical data and contact Western Digital support.

- **NAS System Errors:** Refer to your NAS system's error logs and documentation for specific error codes and recommended solutions.

If these steps do not resolve the issue, contact Western Digital customer support or your NAS manufacturer for further assistance.

## SPECIFICATIONS

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Feature	Specification
Model Number	WD103KFBX
Digital Storage Capacity	10 TB (10,000 GB)
Hard Drive Interface	Serial ATA-600 (SATA 6 Gb/s)
Hard Drive Rotational Speed	7200 RPM
Cache	512 MB
Hard Disk Form Factor	3.5 Inches
Hardware Platform	NAS
Workload Rate	550 TB/year
Item Weight	1.47 pounds
Manufacturer	Western Digital Technologies, Inc.
Date First Available	October 1, 2024

## WARRANTY AND SUPPORT

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Your Western Digital 10TB WD Red Pro NAS Internal Hard Drive (WD103KFBX) is backed by a 5-Year Limited Manufacturer's Warranty.

# 5-Year Limited Manufacturer's warranty



Image: A shield graphic indicating the 5-Year Limited Manufacturer's Warranty for WD Red Pro drives.

For warranty claims or technical support, please visit the official Western Digital support website. When contacting support, have your drive's model number (WD103KFBX) and serial number (e.g., 12345678, as seen on the drive label) readily available. The full model number including the suffix is WD103KFBX-SPM95N0. You can find more information and support resources at [www.westerndigital.com/support](http://www.westerndigital.com/support).