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Seagate ST900MM0168

Seagate Enterprise Performance 10K HDD User Manual

Model: ST900MM0168

INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your Seagate Enterprise Performance 10K ST900MM0168 900GB SAS hard drive. Please read this manual thoroughly before proceeding with installation to ensure proper functionality and to prevent data loss or damage to the device.

1. SETUP

1.1 Unpacking

Carefully remove the hard drive from its packaging. Inspect the drive for any visible signs of damage. If damage is observed, do not proceed with installation and contact your vendor immediately.

1.2 Physical Installation

The Seagate ST900MM0168 is a 2.5-inch Small Form Factor (SFF) SAS drive designed for server environments. Ensure your server or storage enclosure supports 2.5-inch SAS drives with a 15mm height.

- Power down the server or storage system completely and disconnect all power cables.
- Locate an available 2.5-inch drive bay.
- Slide the hard drive into the drive bay until it is securely seated. Many server systems use tool-less caddies; ensure the drive is properly latched.
- Secure the drive with screws if required by your system's drive caddy or bay design.



Image 1: Front and back view of the Seagate ST900MM0168 SAS Hard Drive, showing the SAS connector and circuit board.

1.3 Connecting the Drive

Once physically installed, ensure the SAS data and power connector on the drive is fully engaged with the backplane connector in the drive bay. SAS drives typically use a single combined connector for both data and power.

2. OPERATING THE DRIVE

2.1 Initial Configuration

After physical installation, power on your server or storage system. The operating system or RAID controller should detect the new drive. You may need to access your server's BIOS/UEFI or RAID controller utility to configure the drive.

- For single drive use: Initialize and format the drive using your operating system's disk management

tools.

- For RAID configurations: Add the drive to an existing RAID array or create a new one using your RAID controller's management interface. Consult your RAID controller's documentation for specific instructions.

2.2 Data Transfer

Once configured, the drive will be ready for data storage and retrieval. The SAS 12Gb/s interface provides high-speed data transfer capabilities, with external transfer rates up to 1200 MB/s and sustained transfer rates from 215 to 108 MB/s (outer to inner diameter).

3. MAINTENANCE

To ensure optimal performance and longevity of your Seagate hard drive, consider the following maintenance practices:

- **Regular Data Backup:** Implement a robust data backup strategy to protect against data loss.
- **Firmware Updates:** Periodically check the Seagate support website for firmware updates for your specific model (ST900MM0168). Firmware updates can improve performance, reliability, and address known issues.
- **Environmental Control:** Ensure the operating environment maintains appropriate temperature and humidity levels as specified in the drive's technical documentation.
- **Monitoring:** Utilize S.M.A.R.T. (Self-Monitoring, Analysis and Reporting Technology) tools to monitor the health and status of the drive.

4. TROUBLESHOOTING

If you encounter issues with your Seagate ST900MM0168 hard drive, refer to the following common troubleshooting steps:

- **Drive Not Detected:**
 - Verify that the drive is correctly seated in its bay and that the SAS connector is fully engaged.
 - Check power connections to the server/enclosure.
 - Ensure the SAS controller is properly installed and its drivers are up to date.
 - Check the server's BIOS/UEFI or RAID controller settings to see if the drive is recognized.
- **Performance Issues:**
 - Ensure the SAS controller is operating at its maximum supported speed (e.g., 12Gb/s).
 - Check for other bottlenecks in the system (e.g., CPU, RAM, network).
 - Run diagnostic tools to check the drive's health.
- **Unusual Noises:**
 - Clicking, grinding, or loud whirring noises can indicate a mechanical failure. Immediately back up any accessible data and consider replacing the drive.

For more advanced troubleshooting or persistent issues, consult the Seagate support website or contact technical support.

5. SPECIFICATIONS

Key technical specifications for the Seagate Enterprise Performance 10K ST900MM0168 hard drive:

Model Number	ST900MM0168
Digital Storage Capacity	900 GB
Hard Disk Interface	Serial Attached SCSI (SAS)
Connectivity Technology	SAS 12Gb/s
Spindle Speed	10000 RPM
Cache Memory	128 MB
External Transfer Rate	1200 MB/s
Sustained Transfer Rate	215 to 108 MB/s (Outer to Inner Diameter)
Average Latency	2.9 ms
Form Factor	2.5 Inches (SFF)
Dimensions (WxDxH)	70.10 x 100.45 x 15.00 mm (2.760 x 3.955 x 0.591 inch)
Weight	193.0 g (0.426 lbs)
Compatible Devices	Any server that accepts 2.5"x15mm (SFF) SAS drives.



Image 2: Label side of the Seagate ST900MM0168 SAS Hard Drive, showing model number, serial number, and other regulatory information. The link verify.seagate.com is visible for product verification.

6. WARRANTY INFORMATION

The Seagate ST900MM0168 hard drive comes with a **5-year limited warranty**. For detailed terms and conditions, please refer to the official Seagate warranty statement available on their website. To verify the

authenticity and warranty status of your product, you can use the serial number on the drive label at the official Seagate verification portal:

Verify Your Seagate Product

7. TECHNICAL SUPPORT

For further assistance, technical support, or to download drivers and utilities, please visit the official Seagate support website. Have your model number (ST900MM0168) and serial number ready when contacting support.

Seagate Support Website