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**MSI SPATIUMS270SATA25480GB**

# MSI SPATIUM S270 SATA 2.5” 480GB SSD User Manual

Brand: **MSI** | Model: **SPATIUMS270SATA25480GB**

## Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your MSI SPATIUM S270 SATA 2.5” 480GB SSD. Designed for reliable performance and efficiency, this internal solid state drive offers a significant performance boost for desktops and notebooks. Please read this manual thoroughly before using your new SSD.




Image: The MSI SPATIUM S270 SSD alongside its retail packaging, highlighting the product's design and branding.

## Setup and Installation

The MSI SPATIUM S270 SSD utilizes a standard 2.5-inch form factor and SATA III 6Gb/s interface, making it compatible with most modern desktops and laptops. For detailed installation steps, refer to the included Quick Start Guide.

### Physical Installation

1. **Prepare your system:** Ensure your computer is powered off and unplugged.
2. **Open the chassis:** Access the drive bays in your desktop or laptop.
3. **Mount the SSD:** Secure the 2.5-inch SSD into an available drive bay using screws or tool-less mechanisms.
4. **Connect cables:** Attach a SATA data cable from the SSD to an available SATA port on your motherboard, and a SATA power cable from your power supply to the SSD.
5. **Close the chassis:** Reassemble your computer.

## Software Setup

- **BIOS/UEFI Configuration:** Ensure your system's BIOS/UEFI recognizes the new SSD. You may need to set the SATA mode to AHCI for optimal performance.
- **Operating System Installation:** If installing a new operating system, boot from your OS installation media and follow the on-screen prompts to install it on the SPATIUM S270 SSD.
- **Drive Initialization and Formatting:** If adding the SSD as a secondary drive, use Disk Management (Windows) or Disk Utility (macOS) to initialize and format the drive before use.




Image: The MSI SPATIUM S270 SSD displaying its sequential read speed of 500 MB/s and write speed of 450 MB/s, along with its 480GB capacity.

## Operating Instructions

Once installed, the MSI SPATIUM S270 SSD will significantly enhance your system's responsiveness. Enjoy faster system startups, quicker application loading, and seamless multitasking due to its high-speed data transfer capabilities.

## Performance Benefits

- **Rapid Boot Times:** Experience near-instantaneous operating system boot-ups.
- **Faster Application Loading:** Programs and games will launch and load significantly quicker.
- **Improved File Transfers:** Copying and moving large files will be much faster compared to traditional hard drives.
- **Enhanced Multitasking:** Your system will remain responsive even with multiple applications running simultaneously.

## Smart Management Tools

Utilize MSI Center to monitor drive health and optimize performance. The included Actiphy ActiveImage Protector software provides enterprise-level backup and recovery solutions for your data.




Image: A screenshot of the MSI Center software, showing system diagnosis and backup/restore history features, with the MSI SPATIUM S270 SSD in the foreground.

## Maintenance and Data Integrity

The MSI SPATIUM S270 SSD is built with advanced 3D NAND flash technology and features designed to ensure long-term reliability and data integrity.

## Key Features for Durability

- **3D NAND Technology:** Provides higher density, better performance, and improved endurance compared to traditional 2D NAND.
- **High TBW Rating:** With a 250 TBW (Terabytes Written) rating, the drive is designed for extensive daily use.
- **Built-in Error-Correction:** Advanced error-correction capabilities help maintain data accuracy and prevent corruption.
- **TRIM Support:** Optimizes performance and extends the lifespan of the SSD by actively managing data blocks.
- **S.M.A.R.T. Reporting:** Allows monitoring of the drive's health and status.
- **LDPC Coding:** Low-Density Parity-Check coding provides robust error correction for enhanced data protection.




Image: The MSI SPATIUM S270 SSD highlighting its support for TRIM, S.M.A.R.T., LDPC ECC, and End-to-End Data Protection features.

## Troubleshooting

If you encounter issues with your MSI SPATIUM S270 SSD, refer to the following common troubleshooting steps:

- **SSD Not Detected:**
  - Ensure all SATA data and power cables are securely connected.
  - Check your system's BIOS/UEFI settings to confirm the SATA port is enabled and the drive is recognized.
  - Try connecting the SSD to a different SATA port or using different cables.
- **Slow Performance:**
  - Verify that your operating system is configured to use AHCI mode for SATA.
  - Ensure TRIM is enabled in your operating system.
  - Check for available firmware updates for your SSD on the MSI website.
  - Ensure the drive is not excessively full (it's recommended to keep at least 10-15% free space).
- **Operating System Errors/Crashes:**
  - Run a disk check utility (e.g., `chkdsk` on Windows) to scan for file system errors.
  - If issues persist, consider reinstalling your operating system or restoring from a backup.

For further assistance, please contact MSI customer support.

## Specifications

Detailed technical specifications for the MSI SPATIUM S270 SATA 2.5” 480GB SSD:

| Feature | Detail |
|---|---|
| Brand | MSI |
| Series | SPATIUM S270 SATA 2.5” 480GB |
| Model Number | SPATIUMS270SATA25480GB |
| Digital Storage Capacity | 480 GB |
| Hard Disk Description | Solid State Drive |
| Hard Disk Form Factor | 2.5 Inches |
| Hard Disk Interface | Solid State (SATA III 6Gb/s) |
| Sequential Read Speed | Up to 500 MB/s |
| Sequential Write Speed | Up to 450 MB/s |
| TBW (Terabytes Written) | Up to 250 TBW |
| NAND Flash Type | 3D NAND |
| Features | TRIM, S.M.A.R.T., LDPC ECC, Built-in Data Security |

| Feature | Detail |
| --- | --- |
| Compatible Devices | Desktop, Notebook, Gaming Console |
| Item Dimensions (LxWxH) | 12 x 8 x 3 cm |
| Item Weight | 60 g |
| Included Components | Quick Start Guide |
| Country of Origin | China |

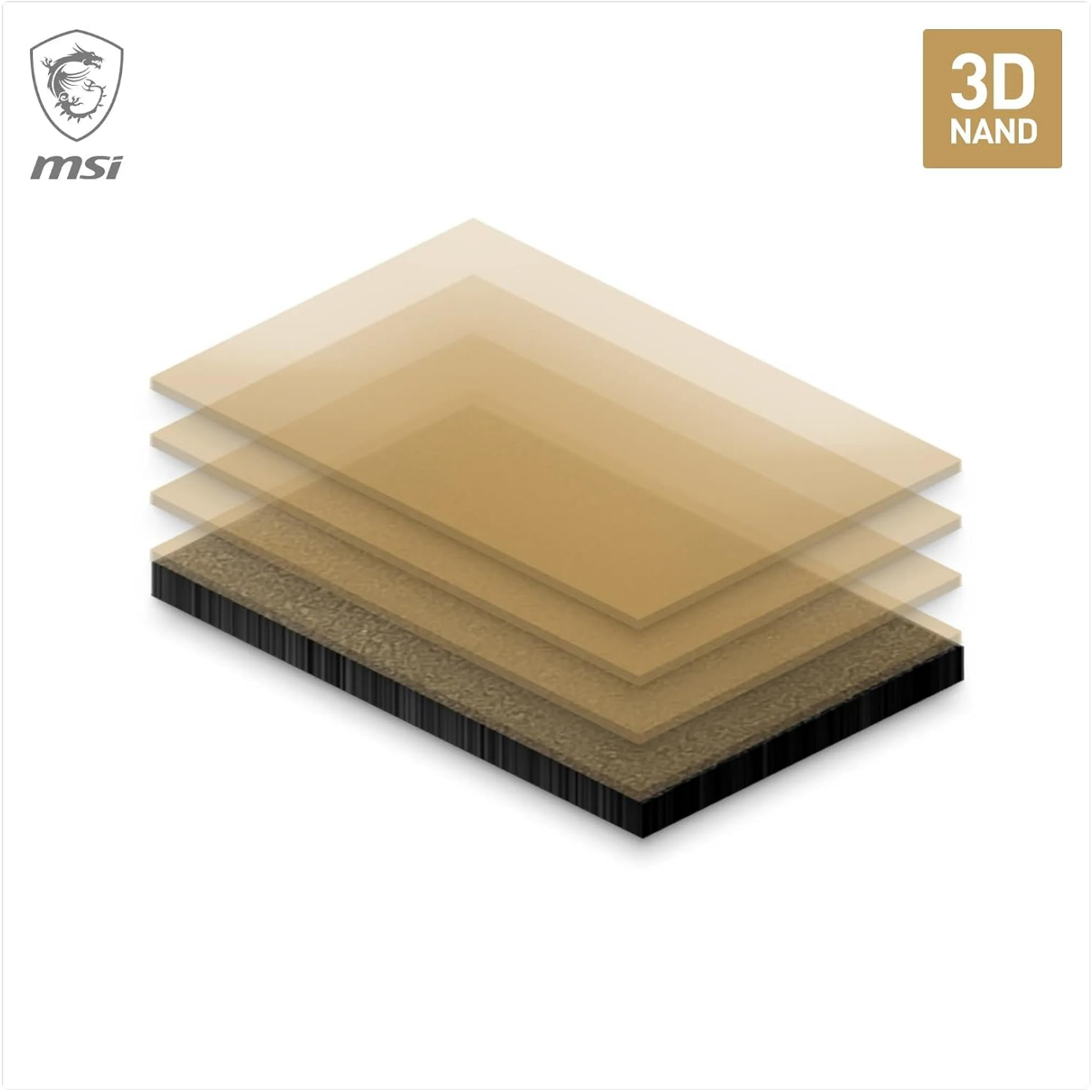



Image: An exploded view diagram showcasing the layered structure of 3D NAND technology, which contributes to the SSD's performance and durability.

## Warranty Information

MSI stands behind the SPATIUM S270 SSD with a comprehensive warranty to ensure your peace of mind.

- **Limited Warranty Period:** The MSI SPATIUM S270 SSD comes with a 5-year limited warranty.
- **Warranty Conditions:** The warranty is valid until the maximum TBW (Terabytes Written) rating of 250 TBW is reached, or 5 years from the date of purchase, whichever comes first.
- **Data Recovery Service:** This product includes a Data Recovery Service as a special feature. Please refer to MSI's official website for details on how to utilize this service.

Please retain your proof of purchase for warranty claims.




Image: The MSI SPATIUM S270 SSD prominently featuring a '5 Years Warranty' badge, emphasizing its long-term reliability.

## Support and Contact Information

For technical support, warranty claims, or further inquiries regarding your MSI SPATIUM S270 SSD, please use the following contact information:

- **MSI Official Website:** Visit www.msi.com for drivers, firmware updates, FAQs, and support resources.
- **Manufacturer:** Micro-Star INT'L CO., LTD. No.69, Lide St., Zhonghe Dist., New Taipei City 235, Taiwan.
- **Importer (India):** Acro Engineering Company, C-87 DDA Sheds, Okhla Industrial Area, Phase-1, New Delhi 110020.

Always refer to the official MSI website for the most up-to-date support information and contact methods.

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**Question**

Example: How do I reset this device or fix this error?

**Details**

Model number, symptoms, what you tried, or the section of the manual you are using.

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