

Manuals+

[Q & A](#) | [Deep Search](#) | [Upload](#)

manuals.plus /

› [Samsung](#) /

› [Samsung 850 EVO 500GB SATA III Internal SSD \(MZ-75E500B/AM\) Instruction Manual](#)

Samsung MZ-75E500B/AM

Samsung 850 EVO 500GB SATA III Internal SSD Instruction Manual

Model: MZ-75E500B/AM | Brand: Samsung

PRODUCT OVERVIEW

The Samsung 850 EVO is a 2.5-inch SATA III internal solid state drive designed to enhance computer performance. It utilizes Samsung V-NAND Technology for optimized computing.

This SSD offers sequential read speeds up to 540MB/s and write speeds up to 520MB/s, with random read/write IOPS performance up to 98K and 90K respectively. It is built for endurance, energy efficiency, and reliability.



Image: Top-down view of the Samsung 850 EVO 500GB SSD, black casing with 'SAMSUNG Solid State Drive' logo.



Image: Angled view of the Samsung 850 EVO 500GB SSD, showing the top and side profile.

PACKAGE CONTENTS

- 1x Samsung 850 EVO 500GB 2.5-inch SATA III SSD
- User Manual (This document)

Note: Connection cables (SATA data and power) and mounting screws/brackets are not included and must be acquired separately.

SPECIFICATIONS

Feature	Detail
---------	--------

Feature	Detail
Model Number	MZ-75E500B/AM
Capacity	500 GB
Form Factor	2.5-inch (7mm)
Interface	SATA 6Gb/s (compatible with SATA 3Gb/s & 1.5Gb/s)
Sequential Read	Up to 540 MB/s
Sequential Write	Up to 520 MB/s
Random Read (IOPS)	Up to 98,000
Random Write (IOPS)	Up to 90,000
Dimensions (LxWxH)	3.94 x 2.75 x 0.28 inches
Weight	1.92 ounces
Hardware Platform	PC

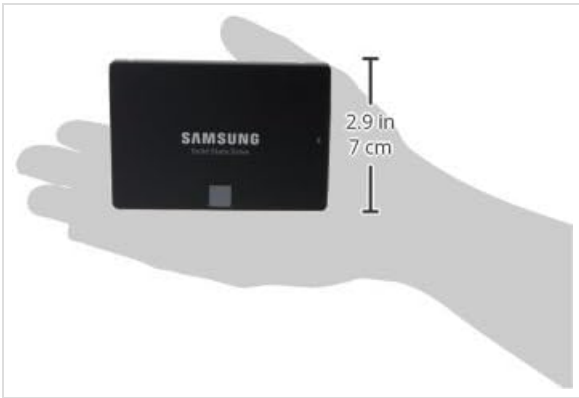


Image: Hand holding the Samsung 850 EVO SSD, with dimensions 2.9 inches (7 cm) indicated.

SETUP & INSTALLATION

Installing the Samsung 850 EVO SSD involves connecting it to your computer's motherboard and power supply.

Required Components (Not Included)

- SATA Data Cable
- SATA Power Cable (from your power supply)
- 2.5-inch to 3.5-inch mounting bracket (for desktop PCs, if your case does not have 2.5-inch bays)
- Spacer (for some laptops, if the SSD is thinner than the original drive)

Installation Steps

1. **Prepare your system:** Power off your computer and disconnect all cables. Open the computer case or access the drive bay in your laptop.
2. **Mount the SSD:** Secure the 2.5-inch SSD into an available drive bay. For desktop PCs, a mounting bracket may be required to fit into a 3.5-inch bay.
3. **Connect Cables:** Connect one end of the SATA data cable to the SSD and the other end to an available SATA port on

your motherboard. Connect a SATA power cable from your power supply to the SSD.

4. **Close and Power On:** Close your computer case, reconnect all cables, and power on your system.
5. **Initialize and Format:** Once the computer boots, you may need to initialize and format the new SSD through your operating system's Disk Management utility before it can be used. Refer to your operating system's documentation for detailed instructions.

Your browser does not support the video tag.

Video: Instructions on how to install an SSD into a computer system.

SOFTWARE

Samsung provides complimentary software to manage and optimize your SSD:

- **Samsung Data Migration Software:** For easy transfer of your existing operating system and data from your old drive to the new Samsung SSD.
- **Samsung Magician Software:** For monitoring drive health, optimizing performance, and managing firmware updates.

These software tools can be downloaded from the official Samsung website.

Your browser does not support the video tag.

Video: Unboxing of the Samsung 850 EVO SSD, including a brief overview of the Samsung Magician software.

MAINTENANCE

- **Firmware Updates:** Regularly check for and install the latest firmware updates using the Samsung Magician software to ensure optimal performance and stability.
- **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.
- **Avoid Defragmentation:** Unlike traditional hard disk drives, SSDs do not benefit from defragmentation. Defragmenting an SSD can reduce its lifespan.
- **Over-provisioning:** Consider utilizing the over-provisioning feature in Samsung Magician to allocate a small percentage of the drive's capacity for internal management, which can improve endurance and sustained performance.

TROUBLESHOOTING


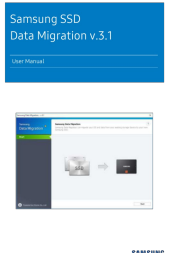
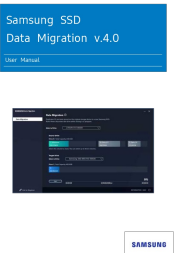
- **SSD Not Detected:**
 - Check all SATA data and power cable connections to ensure they are secure.
 - Verify that the SATA port on the motherboard is enabled in the BIOS/UEFI settings.
 - Ensure the SSD is properly initialized and formatted in Disk Management (Windows) or Disk Utility (macOS).
- **Slow Performance:**
 - Confirm that the SSD is connected to a SATA 6Gb/s port on your motherboard.
 - Ensure AHCI mode is enabled in your BIOS/UEFI settings.
 - Update the SSD firmware using Samsung Magician.
 - Check if TRIM is enabled.
- **Operating System Installation Issues:**
 - Ensure your installation media (USB drive or DVD) is bootable and correctly configured.
 - Verify BIOS/UEFI boot order prioritizes your installation media.




- If migrating data, ensure the source drive is healthy and the migration software completes successfully.

WARRANTY & SUPPORT

The Samsung 850 EVO SSD comes with a 5-year limited warranty. For warranty claims or technical assistance, please contact Samsung customer support or visit the official Samsung website.

Related Documents - MZ-75E500B/AM

	<p>Samsung Magician 6 Installation Guide SSD Management Software</p> <p>Samsung Magician 6 Installation Guide provides comprehensive instructions for installing and using Samsung's SSD management software. Learn about system requirements, new features like RAPID mode and Secure Erase, supported SSD models, and general limitations for an optimal user experience.</p>
	<p>Samsung SSD Data Migration v.3.1 User Manual</p> <p>User manual for Samsung SSD Data Migration software v.3.1, detailing installation, system requirements, limitations, and step-by-step cloning procedures for migrating data to Samsung SSDs.</p>
	<p>Samsung SSD Data Migration v.4.0 User Manual - Guide to Cloning Your Drive</p> <p>Comprehensive user manual for Samsung SSD Data Migration software v.4.0. Learn how to clone your operating system, applications, and data to a new Samsung SSD with step-by-step instructions, system requirements, limitations, and troubleshooting tips.</p>

	<p>Samsung SSD Data Migration v.3.1 User Manual - Guide to Migrating Your Data</p> <p>Comprehensive user manual for Samsung SSD Data Migration software version 3.1. Learn how to quickly, easily, and safely migrate your operating system, applications, and data from an existing storage device to a new Samsung SSD.</p>
	<p>Samsung SSD Data Migration Software User Manual</p> <p>A comprehensive user manual for Samsung's Data Migration software, version 4.0, detailing how to migrate data from a source drive to a new Samsung SSD. Includes system requirements, limitations, step-by-step user guide, troubleshooting, and uninstallation instructions.</p>
	<p>Samsung Magician 7 Installation Guide</p> <p>Comprehensive installation guide for Samsung Magician 7 software, detailing system requirements, supported SSD models, features, limitations, and troubleshooting for optimal SSD performance and management.</p>