

SAMSUNG

870 EVO 2.5" SATA Solid State Drives

The definitive SSD for every need

The perfect choice for creators, IT professionals or everyday users, the latest 870 EVO has indisputable performance, reliability and compatibility built upon Samsung's pioneering technology.



250GB MZ-77E250B/AM | 887276431994

500GB MZ-77E500E | 887276433189

1TB MZ-77E1T0E | 887276433196

2TB MZ-77E2T0E | 887276433202

4TB MZ-77E4T0E | 887276433219

Key Features

Excellence in performance



Everyday users can now enjoy professional-level SSD performance with the 870 EVO, which maximizes the SATA interface limit to 560/530 MB/s sequential speeds,¹ accelerates write speeds and maintains long-term high performance with a larger variable buffer that lets the SSD work faster, longer.

Industry-defining reliability



Meet the demands of each task. From everyday computing to 8K video processing — with up to 2,400 TBW² under a 5-year limited warranty³, plus a stable host experience, low lag with the 6th generation VNAND and steady performance when multi-tasking with the powerful MKX controller.

More compatible than ever



The 870 EVO has been compatibility tested⁴ for major host systems and applications, including chipsets, motherboards, NAS and video recording devices.

Upgrade with ease



Using the 870 EVO SSD is as simple as plugging it into the standard 2.5-inch SATA form factor on your desktop PC or laptop — the renewed migration software takes care of the rest.

Samsung Magician software



Make your drive work smoothly with enhanced Samsung Magician 6 software⁴ that helps you easily manage your drive, keep up with the latest updates, monitor the drive's health and status, or even enhance its performance.

World's No. 1 Flash Memory Brand



Experience the performance and reliability that you can only get from the world's number one brand for flash memory since 2003⁵. All firmware and components, including Samsung's world-renowned DRAM and NAND, are produced in-house, allowing end-to-end integration for quality you can trust.

¹Performance may vary based on SSD's firmware version and system hardware & configuration. Sequential write performance measurements are based on Intelligent TurboWrite technology. Test system configuration: Intel Core i7-7700K CPU @ 4.20GHz, DDR4 1200MHz 32GB, OS - Windows 10 Pro x64, Chipset: ASUS PRIME Z270-A. All performance data was measured with the SSD as a secondary. ²Warrantied TBW (terabytes written) for 870 EVO: 150 TBW for 250GB model, 300 TBW for 500GB model, 600 TBW for 1TB model, 1,200 TBW for 2TB model and 2,400 TBW for 4TB model. ³5-years or TBW, whichever comes first. For more information on the warranty, please find the enclosed warranty statement in the package. ⁴Compatibility tests conducted with Samsung internal, AMD, MSI, Gigabyte, Synology, QNAP, Blackmagic Design and ATMOS. ⁵Source: 2003-2019 IHS Markit data: NAND suppliers' revenue market share.

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No. 1
FLASH MEMORY
SINCE 2003
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Specifications

Interface SATA 6Gbps

Form Factor 2.5"

Hardware	NAND	DRAM
	1XXL V-NAND 3bit MLC	512MB LPDDR4 (250GB)
	Controller	512MB LPDDR4 (500GB)
	MKX	1GB LPDDR4 (1TB)
		2GB LPDDR4 (2TB)
		4GB LPDDR4 (4TB)

Capacity 250GB/500GB/1TB/2TB/4TB

Dimensions (L x W x H) 3.94 x 2.76 x 0.27 inches

Weight 2.08oz

Sequential Read/Write (MB/s) Up to 560/530

Random Read/Write (IOPS)	QD1	QD32
	Up to 13,000/36,000	Up to 98,000/88,000

Device Sleep 2.5 mW support (Up to 6.5 mW for 4TB)

Data Encryption Class 0 (AES 256), TCG/Opal v2.0, MS eDrive (IEEE1667)

Total Bytes Written 150 TBW (250GB), 300 TBW (500GB), 600 TBW (1TB), 1,200 TBW (2TB), 2,400 TBW (4TB)

Warranty Limited 5-year

250GB

500GB

1TB

2TB

4TB

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