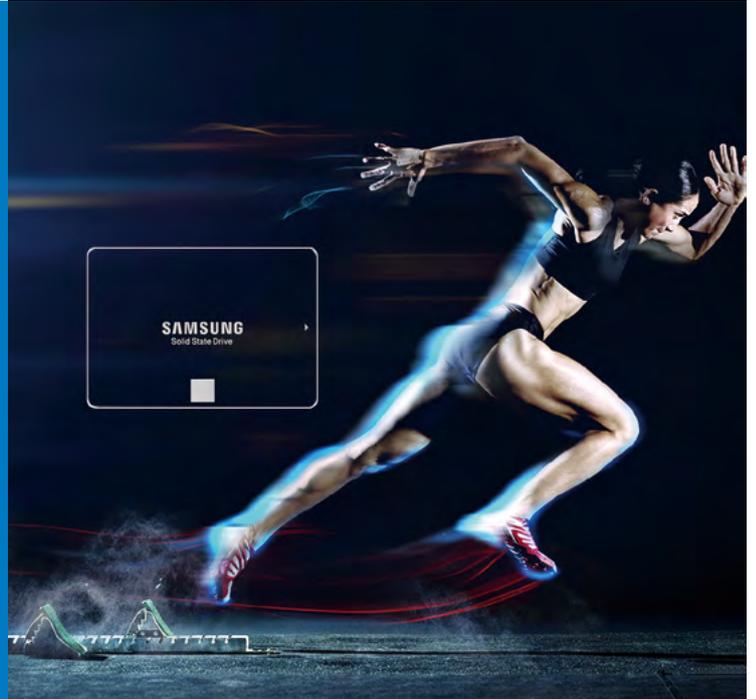


Samsung SSD 750 EVO

PC performance taken
to the next level.



Empower your PC with a smart solution.

High-speed SSDs are now the go-to-upgrade for the new PC experience. For those seeking accelerated performance and robust reliability, Samsung 750 EVO offers both and more.

Highlights

- **Performance** : TurboWrite technology and RAPID mode for ultrafast computing
- **Reliability** : NAND flash-based, lightweight, shock and vibration resistant for computing on the go
- **Security** : Encryption and Secure Erase for superb data protection
- **Ease of use** : Samsung Data Migration and Magician software for easy installation and management

Boost your computing performance

The Samsung 750 EVO boasts a fast random read/write performance of up to 98K/88K IOPS*. Plus, TurboWrite technology dramatically boosts the sequential read/write speeds up to 540/520 MB/s. The RAPID mode provides the option to heighten performance on demand by using free PC memory (DRAM) as a cache, enabling ultrafast multitasking for improved operational efficiency.

* 500 GB performance

Work worry-free anywhere with solid reliability

With no moving parts, the NAND flash-based 750 EVO provides superb durability and is lightweight, making it the ideal choice for computing on the go. It is also shock and vibration resistant for worry-free operation. Guaranteeing up to 100 terabytes written (TBW) or up to 3 years* with 1.5 million hours Mean Time Between Failures (MTBF), the 750 EVO provides outstanding reliability.

* 3 years or TBW (120 GB: 35 TBW, 250 GB: 70 TBW, 500 GB: 100 TBW), whichever comes first.

Secure priceless data with advanced data encryption

Data security is important for everyone and the 750 EVO ensures it remains safe with Samsung SED* technology. An AES 256-bit hardware-based full disk encryption engine secures data without performance degradation.

* Self-Encrypting Drive

Install and manage the 750 EVO with ease

The 2.5-inch form factor and 7 mm height of the 750 EVO is optimized to upgrade desktops and slim laptops, and includes software for simple installation and management. Samsung Data Migration software features robust custom cloning that ensures seamless migration, even if the source data is greater than the capacity of the SSD. Plus, the Samsung Magician software simplifies SSD management, enabling users to maximize both the performance and the lifespan of the SSD, and facilitates data security features, including Secure Erase.

Technical Specifications

Samsung SSD 750 EVO

Usage Application	Client PCs
Capacity	120 GB, 250 GB, 500 GB
Dimensions (LxWxH)	100 x 69.85 x 6.8 mm
Interface	SATA 6 Gb/s (compatible with SATA 3 Gb/s and SATA 1.5 Gb/s)
Form Factor	2.5 inch
Controller	Samsung MGX controller
NAND Flash Memory	Samsung NAND Flash Memory
DRAM Cache Memory	256 MB DDR3 for 120 GB and 250 GB, 512 MB LPDDR3 for 500 GB
Performance¹	Sequential Read : Max. 540 MB/s Sequential Write ² : Max. 520 MB/s 4 KB Random Read (QD1) : Max. 10,000 IOPS 4 KB Random Write (QD1) : Max. 40,000 IOPS 4 KB Random Read (QD32) : Max. 94,000 IOPS (120 GB) / Max. 97,000 IOPS (250 GB) / Max. 98,000 IOPS (500 GB) 4 KB Random Write (QD32) : Max. 88,000 IOPS
Data Security	AES 256-bit Full Disk Encryption (FDE)
Weight	Max. 50 g
Power Consumption³	Active Read/Write (Average) : Max. 2.3 W / 2.5 W Idle : 50 mW Device Sleep : 5 mW
Supporting features	TRIM (Required OS support), Garbage Collection, S.M.A.R.T
Temperature	Operating : 0°C to 70°C Non-Operating : -40°C to 85°C
Humidity	5% to 95%, non-condensing
Vibration	Non-Operating : 20~2000 Hz, 20 G
Shock	Non-Operating : 1,500 G, duration 0.5 m sec, 3 axis
Reliability	MTBF : 1.5 million hours
TBW	120 GB : 35 TBW / 250 GB : 70 TBW / 500 GB : 100 TBW
Warranty	3 years limited

- Sequential performance measurements based on CrystalDiskMark v.3.0.1. Random performance measurements based on Iometer1.1.0. Performance may vary based on SSD's firmware version, system hardware & configuration. Test system configuration : Intel® Core i7-4790K @ 4.0GHz, DDR3 1600MHz 8 GB, OS : Windows® 7 Ultimate x64 SP1, IRST 13.0.3.1001, Chipset : Intel Z97PRO
- Sequential Write performance measurements based on TurboWrite technology. The sequential write performances after TurboWrite region are 130 MB/s (120 GB), 250 MB/s (250 GB) and 300 MB/s (500 GB).
- Power consumption measured with Iometer1.1.0 with Intel i7-4770K, DDR3 8 GB, Intel DH87RL OS : Windows 7 Ultimate x64 SP1



Product Lineup

Density	Model Name	Model Code
120 GB	MZ-750120	MZ-750120BW, MZ-750120B/CN, MZ-750120B/KR
250 GB	MZ-750250	MZ-750250BW, MZ-750250B/CN, MZ-750250B/KR
500 GB	MZ-750500	MZ-750500BW, MZ-750500B/CN, MZ-750500B/KR

Legal and additional information

About Samsung Electronics Co., Ltd.

Samsung Electronics Co., Ltd. inspires the world and shapes the future with transformative ideas and technologies. The company is redefining the worlds of TVs, smartphones, wearable devices, tablets, cameras, digital appliances, printers, medical equipment, network systems, and semiconductor and LED solutions.

For more information

For more information about Samsung SSDs, visit www.samsung.com/ssd or www.samsungssd.com

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