

750 EVO Solid State Drives

120 GB | MZ-750120BW

250 GB | MZ-750250BW

500 GB | MZ-750500BW

SAMSUNG

2.5" of speed, performance and reliability



The advanced consumer SSD in a 2.5" form factor with fast read/write speeds.

- SATA 6Gb/s SSD for Client PCs
- 2.5 inch form factor
- Samsung NAND Flash Memory
- Samsung Magician Software for SSD management
- Samsung Data Migration Software

Key features



Boost productivity with ultrafast computing speeds

The Samsung 750 EVO boasts a fast random read/write (R/W) performance of up to 97K/88K Input/Output Operations Per Second (IOPS). Key to this performance is Samsung TurboWrite technology. With TurboWrite Technology, write speeds have been significantly accelerated during data transfer by creating a high-performance write buffer in an SSD. If a consecutive write operation (i.e. no idle time) exceeds the size of a buffer, the transfer will exit TurboWrite and be processed at "After TurboWrite" speeds. But since the buffer size is more than sufficient for everyday computer use, users experience accelerated speeds for most workloads.



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 working on the go. It's 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 Mean Time Between Failures (MTBF), the 750 EVO provides outstanding reliability.



Secure priceless data with advanced data encryption

Data security is of the utmost importance for both business and personal PC use. The 750 EVO ensures security with Samsung Self-Encrypting Drive (SED) security technology. An AES 256-bit hardware-based encryption engine secures your data without any of the performance degradation you might experience with software-based encryption.



Easy data migration software

The Samsung Data Migration software is simple to use, yet provides a very powerful "Custom Cloning" feature that enables migration even when source data is greater than the SSD's capacity.



Convenient SSD management software

Samsung Magician software eliminates the confusion and uncertainties of SSD management, making it simple for users to maximize the performance and lifetime of their Samsung SSD. In addition to its performance optimization features, Magician also provides 750 EVO users the option of enabling RAPID mode (Real time Accelerated Processing of Input-output Data). RAPID mode is an innovative performance enhancement that processes data on a system level by using free DRAM memory as a cache. Once enabled in Magician, RAPID mode provides an overall PC performance boost.

SSD sales:

1-866-SAM4BIZ

samsung.com/ssd

samsung.com/samsungssd

Follow us

 [youtube.com/samsungbizusa](https://www.youtube.com/samsungbizusa)

 [@SamsungBizUSA](https://twitter.com/SamsungBizUSA)

*3 years or TBW, whichever comes first

Samsung 750 EVO Solid State Drives



	MZ-750120BW	MZ-750250BW	MZ-750500BW	
Usage Application	Client PCs	Client PCs	Client PCs	
Capacity ¹	120GB	250GB	500GB	
Dimensions (WxHxD)	100 x 69.85 x 6.8 (mm) / 3.94" x 2.75" x 0.27"	100 x 69.85 x 6.8 (mm) / 3.94" x 2.75" x 0.27"	100 x 69.85 x 6.8 (mm) / 3.94" x 2.75" x 0.27"	
Interface	SATA 6Gb/s (Compatible with SATA 3Gb/s and SATA 1.5Gb/s)	SATA 6Gb/s (Compatible with SATA 3Gb/s and SATA 1.5Gb/s)	SATA 6Gb/s (Compatible with SATA 3Gb/s and SATA 1.5Gb/s)	
Form Factor	2.5"	2.5"	2.5"	
Controller	Samsung MGX Controller	Samsung MGX Controller	Samsung MGX Controller	
NAND Flash Memory	Samsung NAND Flash Memory	Samsung NAND Flash Memory	Samsung NAND Flash Memory	
DRAM Cache Memory	256MB DDR3	256MB DDR3	512MB LPDDR3	
Performance ²	Sequential Read (Max.):	540 MB/s	540 MB/s	540 MB/s
	Sequential Write ³ (Max.):	520 MB/s	520 MB/s	520 MB/s
	4KB Random Read (QD1)(Max.):	10,000 IOPS	10,000 IOPS	10,000 IOPS
	4KB Random Write (QD1)(Max.):	40,000 IOPS	40,000 IOPS	40,000 IOPS
	4KB Random Read (QD32)(Max.):	94,000 IOPS	97,000 IOPS	98,000 IOPS
	4KB Random Write (QD32)(Max.):	88,000 IOPS	88,000 IOPS	88,000 IOPS
Data Security	AES 256-bit Full Disk Encryption (FDE)	AES 256-bit Full Disk Encryption (FDE)	AES 256-bit Full Disk Encryption (FDE)	
Weight (Max.)	45g	45g	45g	
Reliability (MTBF)	1.5 Million Hours	1.5 Million Hours	1.5 Million Hours	
TBW (Terabytes Written)	35TBW	70TBW	100TBW	
Power Consumption ⁴	Active Read/Write (Average):	Max. 2.3W / 2.5W	Max. 2.3W / 2.5W	Max. 2.3W / 2.5W
	Idle (Max.):	50mW	50mW	50mW
	Device Sleep (Typ.):	5mW	5mW	5mW
Supporting Features	TRIM (Required OS Support), Garbage Collection, S.M.A.R.T	TRIM (Required OS Support), Garbage Collection, S.M.A.R.T	TRIM (Required OS Support), Garbage Collection, S.M.A.R.T	
Temperature	Operating:	0°C to 70°C	0°C to 70°C	0°C to 70°C
	Non-Operating:	-40°C to 85°C	-40°C to 85°C	-40°C to 85°C
Humidity	5% to 95%, Non-Condensing	5% to 95%, Non-Condensing	5% to 95%, Non-Condensing	
Vibration (Non-Operating)	20-2000Hz, 20G	20-2000Hz, 20G	20-2000Hz, 20G	
Shock (Non-Operating)	1500G, Duration 0.5m Sec, 3 Axis	1500G, Duration 0.5m Sec, 3 Axis	1500G, Duration 0.5m Sec, 3 Axis	
Warranty	3 Years Limited	3 Years Limited	3 Years Limited	

¹1GB = 1,000,000,000 bytes. Actual usable capacity may be less (due to formatting, partitioning, operating system, applications or otherwise).

²Sequential performance measurements based on CrystalDiskMark v.3.0.1. Random performance measurements based on Iometer 1.1.0. Performance may vary based on SSD's firmware version, system hardware and configuration. Test system configuration: Intel Core i7-4790K @ 4.0GHz, DDR3 1600MHz 8GB, OS: Windows 7 Ultimate x64 SP1, IRST 13.0.3.1001, Chipset: Intel® Z97PRO.

³Sequential Write performance measurements based on TurboWrite technology. The sequential write performances after TurboWrite region are 130MB/s (120GB), 250MB/s (250GB) and 300MB/s (500GB).

⁴Power consumption measured with Iometer 1.1.0 with Intel i7-4770K, DDR3 8GB, Intel® DH87RL, OS: Windows 7 Ultimate x64 SP1.



Learn more samsung.com/ssd samsung.com/samsungssd insights.samsung.com
 Product support 1-866-SAM4BIZ
 Follow us [youtube.com/samsungbizusa](https://www.youtube.com/samsungbizusa) [@SamsungBizUSA](https://twitter.com/SamsungBizUSA)

SAMSUNG