

Performance PLUS reliability PLUS productivity

Featuring the latest Samsung V-NAND technology and the proven Samsung in-house controller, the Samsung 970 EVO Plus NVMe™ SSD delivers unrivaled performance. Your business will benefit from sequential read/write speeds of up to 3,500/3,300 MB/s. And the faster your computers, the faster your work gets done. Upgrade your PCs and laptops, and upgrade your productivity with the Samsung 970 EVO Plus NVMe™ SSD.



- 250GB** MZ-V7S250B/AM | UPC 887276303734
- 500GB** MZ-V7S500B/AM | UPC 887276303741
- 1TB** MZ-V7S1T0B/AM | UPC 887276303758
- 2TB** MZ-V7S2T0B/AM | UPC 887276303765

Key Features

SSD Designed for Performance

SAMSUNG
V-NAND SSD

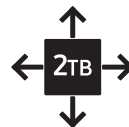
The Samsung 970 EVO Plus delivers breakthrough speeds, best-in-class reliability and capacities of up to 2TB¹. The latest V-NAND memory, Samsung in-house controller, and Intelligent TurboWrite technology enhance 4K and 3D graphic editing, high-end game play and virtually every other task.

NVMe™ Next-Level SSD Speed



The Non-Volatile Memory express (NVMe™) interface is specifically engineered to increase NAND flash storage transfer speeds. Combined with a Samsung in-house controller and Intelligent TurboWrite technology, the 970 EVO Plus streamlines graphic-intensive workflows. The 970 EVO Plus also features firmware optimization to reach sequential read/write speeds up to 3,500/3,300 MB/s².

Design Flexibility



The next advancement in NVMe™ SSD. The 970 EVO Plus fits 250GB, 500GB, 1TB or 2TB onto the compact M.2 (2280) form factor³, greatly expanding storage capacity and saving space for other components. Samsung's innovative technology empowers you with the capacity to do more and accomplish more.

Exceptional Endurance



The new standard in sustainable performance. The 970 EVO Plus is warranted for up to 5 years or up to 1200 TBW (depending on drive size)⁴. The 970 EVO Plus provides your business exceptional endurance.

Unparalleled Reliability



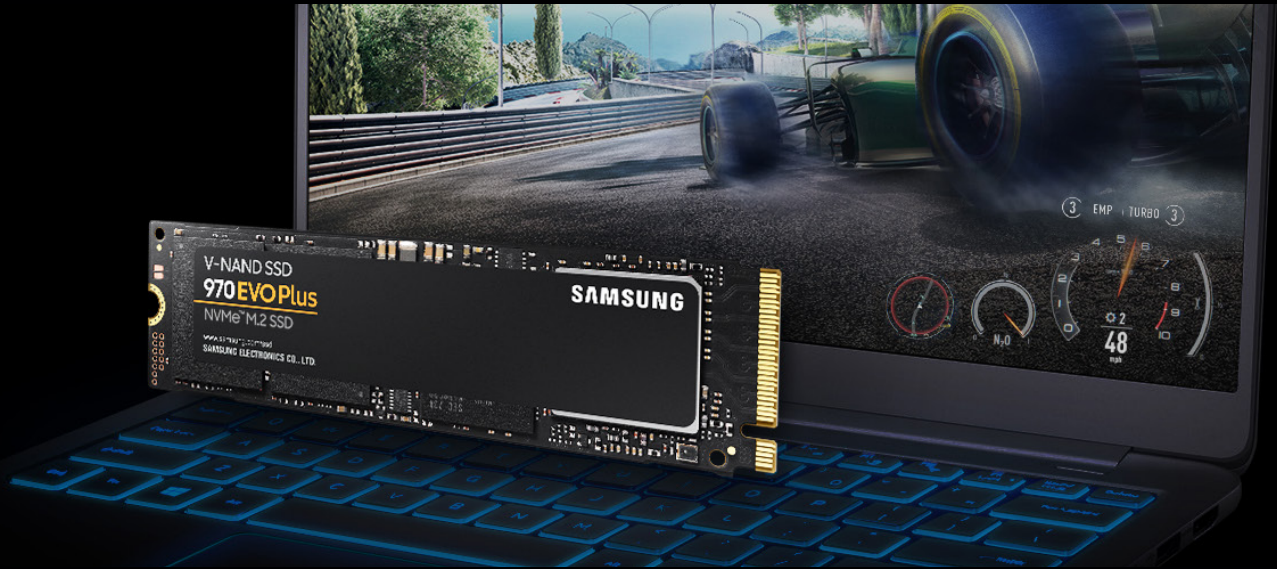
Achieve a new level of drive confidence. Samsung's advanced nickel-coated controller and heat spreader enable superior heat dissipation. The Dynamic Thermal Guard automatically monitors and maintains optimal operating temperatures to minimize performance drops.

Samsung Magician Software



Advanced drive management made simple. The Samsung Magician software will help you keep an eye on your drive. A suite of user-friendly tools helps keep your drive up to date, monitors drive health and speed, and boosts performance through RAPID mode.

¹1 GB=1,000,000,000 bytes by IDEMA. A certain portion of capacity may be used for system file and maintenance, so the actual capacity may differ from what is indicated on the product label. ²Sequential and random performance measurements based on lometer 1.1.0. Performance may vary based on SSD's firmware version, system hardware and configuration. Test system configuration: Intel® Core i7-7700K @ 4.2 GHz, Samsung DDR4 32 GB (16 GB x 2), Windows® 10 Built:10240, ASUS PRIME™ Z270-A. Sequential and random write performance was measured with Intelligent TurboWrite technology activated. The sequential write performances for the portion of data exceeding Intelligent TurboWrite buffer size are: 400 MB/s for 250GB, 900 MB/s for 500GB, 1700 MB/s for 1TB and 1750 MB/s for 2TB. The random write performances for the portion of data exceeding Intelligent TurboWrite buffer size (tested with QD 32 Thread 4) are: 100,000 IOPS for 250GB, 200,000 IOPS for 500GB, 400,000 IOPS for 1TB and 420,000 IOPS for 2TB. Performance may vary depending on SSD's firmware, system hardware and configuration, and other factors. ³M.2 is a specification of form factor for ultra-thin PCs. The M.2 standard allows widths of 12, 16, 22 and 30 mm and lengths of 16, 26, 30, 38, 42, 69, 80 and 110 mm. Commercially, M.2 is popular with a width of 22 mm and lengths of 30, 42, 60, 80 and 110 mm. Samsung provides the most popular form factor with a 22 mm x 80 mm model (i.e., 2280) for user convenience. ⁴Warranty 5 years or TBW, whichever comes first. For more information on the warranty, please find the warranty statement enclosed in the package. ⁵Actual power consumption may vary depending on system hardware and configuration.



*Source: 2003-Q3 2020 IHS Markit data: NAND suppliers' revenue market share

Specifications

Interface	PCIe® Gen3.0 x4, NVMe™ 1.3		Data Encryption	AES 256-bit Full Disk Encryption (Class 0), TCG Opal V2.0, IEEE 1667 (Encrypted Drive)	
Form Factor	M.2 (2280)		Total Bytes Written	Up to 150 TBW (250GB) Up to 300 TBW (500GB)	Up to 600 TBW (1TB) Up to 1,200 TBW (2TB)
Hardware	Controller In-house	DRAM Cache Memory 512MB LPDDR4 (250GB) 512MB LPDDR4 (500GB) 1GB LPDDR4 (1TB) 2GB LPDDR4 (2TB)	Warranty⁴	Limited 5-year	
	NAND Flash Memory Samsung V-NAND 3-Bit MLC				
Capacity¹	250GB/500GB/1TB/2TB		250GB	500GB	1TB
Dimensions (L x W x H)	3.16" x 0.87" x 0.09"		2TB		
Weight (Max.)	0.3 oz. / 8 g.				
Sequential Read/Write (MB/s)²	Up to 3,500/2,300 (250GB) Up to 3,500/3,200 (500GB) Up to 3,500/3,300 (1TB & 2TB)				
Random Read/Write (IOPS)²	QD1 Up to 17,000/60,000 (250GB) Up to 19,000/60,000 (500GB & 1TB) Up to 19,000/62,000 (2TB)	QD32 Up to 250,000/550,000 (250GB) Up to 480,000/550,000 (500GB) Up to 600,000/550,000 (1TB) Up to 620,000/560,000 (2TB)			
Power Consumption⁵	System Level (Avg.) 5W (250GB) 5.8W (500GB) 6W (1TB & 2TB)	Idle (Max.) 30 mW			

970 EVO Plus NVMe™ M.2 SSD

