

## Informacije o proizvodu (EN)

SAMSUNG SSD 4TB 990 EVO Plus MZ-V9S4T0BW

**SAMSUNG**



Tehnoteka je online destinacija za upoređivanje cena i karakteristika bele tehnike, potrošačke elektronike i IT uređaja kod trgovinskih lanaca i internet prodavnica u Srbiji. Naša stranica vam omogućava da istražite najnovije informacije, detaljne karakteristike i konkurentne cene proizvoda.

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<https://tehnoteka.rs/p/samsung-ssd-4tb-990-evo-plus-mz-v9s4t0bw-akcija-cena/>

# Samsung V-NAND SSD 990 EVO Plus

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2024 Data Sheet

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Revision 1.0



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## TECHNICAL SPECIFICATIONS

Samsung SSD 990 EVO Plus					
Usage Application	Client PCs				
Interface	PCIe® 4.0 x4 / 5.0 x2 NVMe™ 2.0				
Hardware Information	Capacity <sup>1)</sup>	1TB	2TB	4TB	
	Controller	Samsung in-house Controller			
	NAND Flash Memory	Samsung V-NAND TLC			
	Cache Memory	HMB(Host Memory Buffer)			
	Dimension	Max 80.15 x Max 22.15 x Max 2.38 (mm)			
	Form Factor	M.2 (2280)			
Performance (Up to.) <sup>2) 3) 4)</sup>	Sequential Read	7,150MB/s	7,250MB/s	7,250MB/s	
	Sequential Write	6,300MB/s	6,300MB/s	6,300MB/s	
	Random Read	850KIOPS	1,000KIOPS	1,050KIOPS	
	Random Write	1,350KIOPS	1,350KIOPS	1,400KIOPS	
Power Consumption	Active <sup>5)</sup> (Avg.)	Read	4.3W	4.6W	5.5W
		Write	4.2W	4.2W	4.8W
	Idle (Typical)	PS3(APST on)	60mW		
		PS4 (L1.2)	5 mW		
Reliability	Temp.	Operating	0°C to 70°C (Measured by S.M.A.R.T. Temperature Proper airflow recommended)		
		Non-Operating	-40°C to 85°C		
	Humidity		5% to 95% non-condensing		
	Shock	Non-Operating	1,500G(Gravity), duration: 0.5ms, 3 axis		
	Vibration	Non-Operating	20~2,000Hz, 20G		
	MTBF		1.5 million hours		
Warranty <sup>6)</sup>	TBW	600TB	1200TB	2,400TB	
	Period	5 years limited			
Supporting Features	TRIM (Required OS support), Garbage Collection, S.M.A.R.T				
Data Security	AES 256-bit Full Disk Encryption, TCG/Opal V2.0, Encrypted Drive (IEEE1667)				

- 1GB = 1,000,000,000 bytes by IDEMA. A certain portion of capacity may be used for system file and maintenance use, thus the actual available capacity may differ from the labeled capacity.
- 990 EVO Plus is backward compatible with PCIe 4.0 x4 and 3.0 x4.
- Sequential and random performance measurements are based on IOmeter1.1.0. Performance may vary based on SSD's firmware version, system hardware & configuration. Test System: AMD Ryzen 9 7950X 16-Core Processor CPU@4.50GHz, DDR5 4800MHz 16GBx2, OS-Windows 11 Pro 64bit, Chipset-ASRock-X670E-Taichi.
- Sequential and random write performance was measured with Intelligent TurboWrite technology being activated. Intelligent TurboWrite operates only within a specific data transfer size. For detailed information, please contact your local service center.
- Active power consumption is measured with IOmeter1.1.0 version with AMD Ryzen 5 7600 6-Core Processor CPU@3.80GHz, DDR5 3200MHz 16GBx2, OS-Windows 10 Pro 64bit, Chipset-ASUS ProArt X670E-CREATOR WIFI STCOM.
- All documented endurance test results are in compliance with JESD218 Standards. Please visit [www.jedec.org](http://www.jedec.org) for detailed information on JESD218 Standards. TBW means Terabytes Written, Warranty provides coverage for the stated time period or the TBW, whichever comes first. Please refer to the detailed warranty statement here at <http://www.samsung.com/samsungssd>

## PRODUCT LINEUP

Density	Model Name	Box Contents	Model Code
1TB (1,000GB*)	MZ-V9S1T0	Samsung SSD 990 EVO Plus 1TB Warranty Statement	MZ-V9S1T0BW MZ-V9S1T0B/AM
2TB (2,000GB*)	MZ-V9S2T0	Samsung SSD 990 EVO Plus 2TB Warranty Statement	MZ-V9S2T0BW MZ-V9S2T0B/AM
4TB (4,000GB*)	MZ-V9S4T0	Samsung SSD 990 EVO Plus 4TB Warranty Statement	MZ-V9S4T0BW MZ-V9S4T0B/AM

\* GB: 1GB = 1,000,000,000 bytes. The actual usable capacity may be less than the labeled capacity.

For more information, including but not limited to the warranty provided for this product, and to download the latest software & manuals, please visit [www.samsung.com/ssd](http://www.samsung.com/ssd) and [www.samsungssd.com](http://www.samsungssd.com).

## TEST CONFIGURATION

Below you will find a list of system configurations Samsung used to obtain the results reported in this Data Sheet. Performance/power data was measured with the SSD as a secondary drive in a fan cooling desktop system.

	Read/Write Performance	Power Consumption
Interface	PCIe 4.0 x4 / 5.0 x2	PCIe 4.0 x4 / 5.0 x2
OS	Windows 11 Pro 64bit	Windows 10 Pro 64bit
CPU	AMD Ryzen9 7950x 16-Core Processor CPU@4.5GHz	AMD Ryzen5 7600 6-Core Processor CPU@3.8GHz
Memory	DDR5 4800MHz 16GBx2	DDR5 3200MHz 16GBx2
Chipset	ASRock-X670E-Taichi	ASUS ProArt X670E-CREATOR WIFI STCOM
Test Program	IOmeter 1.1.0	IOmeter 1.1.0

## Revision History

Revision Number	Description	Revision Date
1.0	Initial Release	October, 2024

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Za najnovije informacije o ceni, dostupnim akcijama i tehničkim karakteristikama proizvoda koji se pominje u ovom dokumentu, molimo posetite našu stranicu klikom na sledeći link:

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