

Informacije o proizvodu (EN)

SAMSUNG SSD 1TB 990 Series (MZ-V9V1T0BW)

SAMSUNG



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Posetite nas i uživajte u ekskluzivnom iskustvu pametne kupovine klikom na link:

<https://cenoteka.rs/p/samsung-ssd-1tb-990-series-mz-v9v1t0bw/>

Samsung V-NAND SSD 990

2026 Data Sheet

Revision 1.0



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TECHNICAL SPECIFICATIONS

Samsung SSD 990

Usage Application	Client PCs			
Interface	PCIe® 4.0 x4 NVMe™ 2.0			
Hardware Information	Capacity ¹⁾	1TB	2TB	
	Controller	Samsung in-house Controller		
	NAND Flash Memory	Samsung V-NAND		
	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.) ^{2) 3) 4)}	Sequential Read	7,150MB/s	7,250MB/s	
	Sequential Write	6,450MB/s	6,450MB/s	
	Random Read	700KIOPS	850KIOPS	
	Random Write	1,100KIOPS	1,200KIOPS	
Power Consumption	Active ⁵⁾ (Avg.)	Read	4.0W	
		Write	3.7W	
	Idle (Typical)	PS3(APST on)	55mW	
		PS4 (L1.2)	3mW	
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 ⁶⁾	TBW	400TB	800TB	
	Period	3 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)			

1) 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.

2) 990 is backward compatible with PCIe 3.0

3) 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.

4) 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.

5) Active power consumption is measured with fio 3.28 version with Intel Ultra 7 265K x 20 CPU@5.50GHz, DDR5 4800MHz 16GBx2, OS-Ubuntu 22.04, Chipset-ASUS Maximus Z890 HERO.

6) All documented endurance test results are in compliance with JEDEC218 Standards. Please visit www.jedec.org for detailed information on JEDEC218 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-V9V1T0	Samsung SSD 990 1TB Warranty Statement	MZ-V9V1T0BW MZ-V9V1T0B/AM
2TB (2,000GB*)	MZ-V9V2T0	Samsung SSD 990 2TB Warranty Statement	MZ-V9V2T0BW MZ-V9V2T0B/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 and 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	PCIe 4.0 x4
OS	Windows 11 Pro 64bit	Ubuntu 22.04
CPU	AMD Ryzen9 7950x 16-Core Processor CPU@4.5GHz	Intel Ultra 7 265K x 20 CPU@5.50GHz
Memory	DDR5 4800MHz 16GBx2	DDR5 4800MHz 16GBx2
Chipset	ASRock-X670E-Taichi	ASUS Maximus Z890 HERO
Test Program	IOmeter 1.1.0	fio 3.28

Revision History

Revision Number	Description	Revision Date
1.0	Initial Release	May, 2026

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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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