

MZ-V9S2T0BW

Samsung 990 Evo Plus 2TB M.2 2280 PCI-e 4.0 x4 / 5.0 x2 NVMe 2.0 Solid State Drive

Product Overview

Samsung 990 Evo Plus 2TB M.2 2280 PCI-e 4.0 x4 / 5.0 x2 NVMe 2.0 Solid State Drive, Samsung V-NAND TLC storage Memory, Samsung in-house controller, HMB Cache Memory, Up to 7250 MB/s Sequential Read Speed, Up to 6300 MB/s Sequential Write Speed



Specifications

Overview:

Performance

Up to 7,250MB/s of sequential read speed, 45% faster speed than the previous model.

Power efficiency

Power efficiency enhanced by 73% for more MB/s per watt, while maintaining performance and thermal control.

Versatility

Up to 4TB expanded capacity and rapid Intelligent TurboWrite 2.0 with enlarged TurboWrite region.

Spectacular speed everyday

Blast through tasks faster. 990 EVO Plus with the latest NAND offers boosted sequential read/write speeds up to 7,250/6,300MB/s. Huge files, instant transfer.

Cool power through your day

Optimized efficiency, extended performance. The nickel-coated controller increases MB/s per Watt by 73%, achieving the same power level and thermal control with less power consumption. Stay focused on work or play with no overheating or battery life worries.

Extra space. Extra speed.

Harness the full power of your drive with enhanced Intelligent TurboWrite 2.0. Process massive data faster and breeze through heavy graphics with an enlarged TurboWrite region, now available in 4TB capacity.

Samsung Magician software

Make your SSD work like magic. Samsung Magician software's optimization tools ensure the best SSD performance. It's a safe and easy way to migrate all your data for a Samsung SSD upgrade. Protect valuable data, monitor drive health, and get the latest firmware updates.

Bringing innovations to life

For decades, Samsung's NAND flash memory has powered groundbreaking technologies that have changed every part of our daily lives. This NAND flash technology also powers our consumer SSDs, making room for the next big push of innovation.

Features:

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Specifications:

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Specifications	
Product Code	MZ-V9S2T0BW
Overview	
Interface	PCIe 4.0 x4 / 5.0 x2 NVMe 2.0
Application	Client PCs
Dimension (W x H x D)	Max 80.15 x Max 22.15 x Max 2.38 mm
Form Factor	M.2 (2280)
General Feature	
Application	Client PCs
Capacity	2,000GB (1GB=1 Billion byte by IDEMA) * Actual usable capacity may be less (due to formatting, partitioning, operating system, applications or otherwise)
Form Factor	M.2 (2280)
Interface	PCIe 4.0 x4 / 5.0 x2 NVMe 2.0
Dimension (W x H x D)	Max 80.15 x Max 22.15 x Max 2.38 mm
Weight	Max 9.0g
Storage Memory	Samsung V-NAND TLC
Controller	Samsung in-house Controller
Cache Memory	HMB(Host Memory Buffer)
Special Feature	
TRIM Support	Supported
S.M.A.R.T Support	Supported
GC (Garbage Collection)	Auto Garbage Collection Algorithm
Encryption Support	AES 256-bit Encryption (Class 0)TCG/Opal IEEE1667 (Encrypted drive)
WWN Support	Not supported
Device Sleep Mode Support	Yes
Performance	
Sequential Read	Up to 7,250 MB/s * Performance may vary based on system hardware & configuration
Sequential Write	Up to 6,300 MB/s * Performance may vary based on system hardware & configuration
Random Read (4 KB, QD32)	Up to 1,000,000 IOPS * Performance may vary based on system hardware & configuration

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Random Write (4 KB, QD32)	Up to 1,350,000 IOPS * Performance may vary based on system hardware & configuration
Environment	
Average Power Consumption (System Level)	Average: Read 4.6 W / Write 4.2 W* Actual power consumption may vary depending on system hardware & configuration
Power consumption (Idle)	Typical 60 mW * Actual power consumption may vary depending on system hardware & configuration
Power Consumption (Device Sleep)	Typical 5 mW * Actual power consumption may vary depending on system hardware & configuration
Allowable Voltage	3.3 V +/- 5 %
Reliability (MTBF)	1.5 Million Hours
Operating Temperature	0 - 70 degreesC
Shock	1,500 G & 0.5 ms (Half sine)
Accessories	
Installation Kit	Not Available
Software	
Management SW	Magician Software for SSD management

Product Information Online

For the latest product information, availability and purchasing details, please visit the product page:

Product page:

<https://www.comx-computers.co.za/MZ-V9S2T0BW-Samsung-990-Evo-Plus-2TB-M-2-2280-PCI-e-Buy-p-319337.php>

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