

Samsung 970 EVO Plus MZ-V7S1T0BW - SSD - encrypted - 1 TB - internal - M.2 2280 - PCIe 3.0 x4 (NVMe) - buffer: 1 GB - 256-bit AES - TCG Opal Encryption



In Stock(24)

SKU	MZ-V7S1T0BW
Product Description:	Samsung 970 EVO Plus MZ-V7S1T0BW - SSD - 1 TB - PCIe 3.0 x4 (NVMe)
Type:	Solid state drive - internal
Capacity:	1 TB
Hardware Encryption:	Yes
Encryption Algorithm:	256-bit AES
NAND Flash Memory Type:	Triple-level cell (TLC)
Form Factor:	M.2 2280



General

Device Type:	Solid state drive - internal
Capacity:	1 TB
Hardware Encryption:	Yes
Encryption Algorithm:	256-bit AES
NAND Flash Memory Type:	Triple-level cell (TLC)
Form Factor:	M.2 2280
Interface:	PCIe 3.0 x4 (NVMe)
Buffer Size:	1 GB
Features:	TRIM support, Auto Garbage Collection Algorithm, Dynamic Thermal Guard protection, TurboWrite Technology, V-NAND Technology, NVMe Express (NVMe) 1.3, Samsung Phoenix Controller, S.M.A.R.T.
Width:	22.15 mm
Depth:	80.15 mm
Height:	2.38 mm
Weight:	8 g

Environmental Parameters

Min Operating Temperature:	0 °C
Max Operating Temperature:	70 °C
Shock Tolerance (operating):	1500 g @ 0.5 ms half-sine

Manufacturer Warranty

Service & Support:	Limited warranty - 5 years
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Miscellaneous

Compliant Standards:	IEEE 1667
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Power

Power Consumption:	6 Watt (average) ; 9 Watt (maximum) ; 30 mW (idle max)
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Expansion & Connectivity

Interfaces:	PCI Express 3.0 x4 (NVMe) - M.2 Card
Compatible Bay:	M.2 2280

Reliability

MTBF:	1,500,000 hours
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Performance

SSD Endurance:	600 TB
Internal Data Rate:	3500 MBps (read) / 3300 MBps (write)
4KB Random Read:	19000 IOPS
4KB Random Write:	60000 IOPS
Maximum 4KB Random Write:	550000 IOPS
Maximum 4KB Random Read:	600000 IOPS

