

Samsung 970 EVO Plus MZ-V75S500BW - SSD - encrypted - 500 GB - internal - M.2 2280 - PCIe 3.0 x4 (NVMe) - buffer: 512 MB - 256-bit AES - TCG Opal Encryption



In Stock(15)

SKU	MZ-V75S500BW
Product Description:	Samsung 970 EVO Plus MZ-V75S500BW - SSD - 500 GB - PCIe 3.0 x4 (NVMe)
Type:	Solid state drive - internal
Capacity:	500 GB
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: 500 GB

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: 512 MB

Features: TRIM support, sleep mode, Auto Garbage Collection Algorithm, 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

Miscellaneous

Compliant Standards: IEEE 1667

Power

Power Consumption: 5.8 Watt (average) | 9 Watt (maximum) | 30 mW (idle max)

Expansion & Connectivity

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

Compatible Bay: M.2 2280

Reliability

MTBF: 1,500,000 hours

Performance

SSD Endurance: 300 TB

Internal Data Rate: 3500 MBps (read) / 3200 MBps (write)

4KB Random Read: 19000 IOPS

4KB Random Write: 60000 IOPS

Maximum 4KB Random Write: 550000 IOPS

Maximum 4KB Random Read: 480000 IOPS

