

Samsung 870 EVO MZ-77E500B - SSD - encrypted - 500 GB - internal - 2.5" - SATA 6Gb/s - buffer: 512 MB - 256-bit AES - TCG Opal Encryption



In Stock(11)

SKU	MZ-77E500B/EU
Product Description:	Samsung 870 EVO MZ-77E500B - SSD - 500 GB - SATA 6Gb/s
Type:	Solid state drive - internal
Capacity:	500 GB
Hardware Encryption:	Yes
Encryption Algorithm:	256-bit AES
NAND Flash Memory Type:	3D multi-level cell (MLC)
Form Factor:	2.5"

General

Device Type:	Solid state drive - internal
Capacity:	500 GB
Hardware Encryption:	Yes
Encryption Algorithm:	256-bit AES
NAND Flash Memory Type:	3D multi-level cell (MLC)
Form Factor:	2.5"
Interface:	SATA 6Gb/s
Buffer Size:	512 MB
Features:	TRIM support, sleep mode, Auto Garbage Collection Algorithm, Worldwide Name (WWN), TurboWrite Technology, 3-bit 3D V-NAND Technology, Low Power DDR4 SDRAM Cache, Samsung MKX Controller, S.M.A.R.T., 256-bit AES, IEEE 1667
Width:	69.85 mm
Depth:	100 mm
Height:	6.8 mm

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 / 300 TBW
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Miscellaneous

Compliant Standards:	WWN, IEEE 1667
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Software & System Requirements

Software Included:	Samsung Magician Software
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Power

Power Consumption:	2.2 Watt (average) 3.5 Watt (maximum)
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Expansion & Connectivity

General

Weight:	45 g	Interfaces:	1 x SATA 6 Gb/s
		Compatible Bay:	2.5"

Reliability

MTBF:	1,500,000 hours
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Performance

SSD Endurance:	300 TB
Drive Transfer Rate:	600 MBps (external)
Internal Data Rate:	560 MBps (read) / 530 MBps (write)
4KB Random Read:	13000 IOPS
4KB Random Write:	36000 IOPS
Maximum 4KB Random Write:	88000 IOPS
Maximum 4KB Random Read:	98000 IOPS

