

Samsung 970 EVO Plus MZ-V7S250

SSD - encrypted - 250 GB - internal - M.2 2280 - PCIe 3.0 x4 (NVMe) - buffer: 512 MB - 256-bit AES - TCG Opal Encryption

Group	HDDs
Manufacturer	Samsung
Manufacturer item no.	MZ-V7S250E
EAN/UPC	8801643798550



Description

The ultimate in performance, upgraded. Faster than the 970 EVO, the 970 EVO Plus is powered by the latest V-NAND technology and firmware optimization. It maximizes the potential of NVMe bandwidth for unbeatable computing.

Main features

Product Description	Samsung 970 EVO Plus MZ-V7S250 - SSD - 250 GB - PCIe 3.0 x4 (NVMe)
Type	Solid state drive - internal
Capacity	250 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.
Dimensions (WxDxH)	22.15 mm x 80.15 mm x 2.38 mm
Weight	8 g

Extended details

General	
Device Type	Solid state drive - internal
Capacity	250 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
Performance	
SSD Endurance	150 TB
Internal Data Rate	3500 MBps (read) / 2300 MBps (write)
4KB Random Read	17000 IOPS
4KB Random Write	60000 IOPS
Maximum 4KB Random Write	550000 IOPS
Maximum 4KB Random Read	250000 IOPS
Reliability	
MTBF	1,500,000 hours
Expansion & Connectivity	
Interfaces	PCI Express 3.0 x4 (NVMe) - M.2 Card
Compatible Bay	M.2 2280
Power	
Power Consumption	5 Watt (average) 9 Watt (maximum) 30 mW (idle max) 5 mW (sleep)
Software & System Requirements	
Software Included	Samsung Magician Software
Miscellaneous	
Compliant Standards	IEEE 1667
Manufacturer Warranty	
Service & Support	Limited warranty - 5 years
Environmental Parameters	
Min Operating Temperature	0 °C
Max Operating Temperature	70 °C
Shock Tolerance (operating)	1500 g @ 0.5 ms half-sine

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