

Samsung PM9A3 MZQL27T6HBLA - SSD

encrypted - 7.68 TB - internal - 2.5" - U.2 PCIe 3.0 x4 (NVMe) - 256-bit AES - TCG Opal Encryption

Group	HDDs
Manufacturer	Samsung
Manufacturer item no.	MZQL27T6HBLA-00A07



Description

Samsung PM9A3 MZQL27T6HBLA - SSD - encrypted - 7.68 TB - internal - 2.5" - U.2 PCIe 3.0 x4 (NVMe) - 256-bit AES - TCG Opal Encryption

Main features

Product Description	Samsung PM9A3 MZQL27T6HBLA - SSD - 7.68 TB - U.2 PCIe 3.0 x4 (NVMe)
Type	Solid state drive - internal
Capacity	7.68 TB
Hardware Encryption	Yes
Encryption Algorithm	256-bit AES
NAND Flash Memory Type	Triple-level cell (TLC)
Form Factor	2.5"
Interface	U.2 PCIe 3.0 x4 (NVMe)
Features	Halogen Free, Dynamic and Static Wear Leveling, Enhanced Power Loss Data Protection, End-to-end data protection, NVM Express (NVMe) 1.4, S.M.A.R.T.
Dimensions (WxDxH)	69.85 mm x 100.2 mm x 7 mm
Weight	90 g

Extended details

General	
Device Type	Solid state drive - internal
Capacity	7.68 TB
Hardware Encryption	Yes
Encryption Algorithm	256-bit AES
NAND Flash Memory Type	Triple-level cell (TLC)
Form Factor	2.5"
Interface	U.2 PCIe 3.0 x4 (NVMe)
Features	Halogen Free, Dynamic and Static Wear Leveling, Enhanced Power Loss Data Protection, End-to-end data protection, NVM Express (NVMe) 1.4, S.M.A.R.T.
Width	69.85 mm

Depth	100.2 mm
Height	7 mm
Weight	90 g
Performance	
Drive Writes Per Day (DWPD)	1
Internal Data Rate	3500 MBps (read) / 3500 MBps (write)
4KB Random Read	800000 IOPS
4KB Random Write	200000 IOPS
Average Latency	0.02 ms
Reliability	
MTBF	2,000,000 hours
Non-Recoverable Errors	1 per 10^17
Expansion & Connectivity	
Interfaces	PCI Express 3.0 x4 U.2 (NVMe)
Compatible Bay	2.5"
Power	
Power Consumption	11 Watt (read) 13.5 Watt (write) 3.5 Watt (idle)
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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