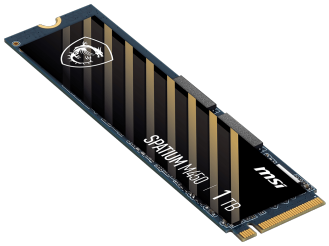
STORAGE

SPATIUM M450 PCIe 4.0 NVMe M.2



SPECIFICATIONS

Model Name	SPATIUM M450 PCIe 4.0 NVMe M.2	
Capacity	500GB	1TB
Controller	PHISON E19T	
Flash Memory	3D NAND	
Form Factor	M.2 2280	
Interface	PCIe Gen4x4, NVMe 1.4	
Compatibility	PCIe Gen4 / Gen3 / Gen2 / Gen1	
Dimensions	80.00mm (L) x 22.00mm (W) x 2.15mm (H)	
Sequential Read up to (MB/s)	3600	
Sequential Write up to (MB/s)	2300	3000
Random Read 4KB up to (IOPS)	300,000	420,000
Random Write 4KB up to (IOPS)	550,000	
Maximum Operating Power (W)	3.4	4.0
Idle Power PS3 (mW)	40	
Low Power L1.2 (mW)	5	
Operating Temperatures	0°C – 70°C	
Storage Temperatures	-40°C – 85°C	
Terabytes Written (TBW)	300	600
Mean Time Between Failure (MTBF)	Up to 1,500,000 Hours	
Limited Warranty	5 Years, or the coverage for the maximum TBW as stated, whichever comes first.	
Advanced Features	TRIM (Performance Optimization, OS support required) SMART (Self-Monitoring, Analysis and Reporting Technology) LDPC (Low Density Parity Check) ECC Algorithm End to End Data Path Protection APST (Autonomous Power State Transition) TCG Pyrite (Encryption, Data Security)	

FEATURES

3D NAND Flash

3D NAND Flash technology brings dense storage in a compact design and allows storage capacities up to 1TB.

Security & Reliability

Built-in data security and error-correction capabilities extend the longevity of the NAND flash storage.

5 Years Warranty

MSI stands by the quality and reliability of their SSD's with a 5 year limited warranty.

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