STORAGE

SPATIUM M452 PCIe 4.0 NVMe M.2



SPECIFICATIONS

Model Name	SPATIUM M452 PCIe 4.0 NVMe M.2	
Capacity	500GB	1TB
Controller	PHISON E29T	
Flash Memory	3D NAND	
Form Factor	M.2 2280	
Interface	PCIe Gen4 x4, NVMe 1.4 (2CH)	
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)	3100	
Random Read 4KB up to (IOPS)	470,000	500,000
Random Write 4KB up to (IOPS)	750,000	
Idle Power PS3 (mW)	50	
Low Power L1.2 (mW)	5	
Operating Temperatures	0°C – 70°C	
Storage Temperatures	-40°C – 85°C	
Terabytes Written (TBW)	150	300
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) Pyrite (Encryption, Data Security)	

FEATURES

Blazing Speeds

Optimized for the PCIe Gen4 interface.

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.

Low Latency Gaming

Enjoy minimal latency in smooth gameplay and loading games with optimized high-performance bandwidth and throughput.

Nonstop Creativity Booster

Keep up nonstop productivity by opening up images, movies, documents, and heavy-duty applications at lightning speeds.

MSI Center

Monitor SSD health status and key performance metrics in real time via MSI Center for stable and reliable system performance.

Optimal M.2 SSD

22 x 80

Designed in the M.2 2280 form factor, MSI SSDs are easy to install into external enclosures, desktops, or laptops.

5 Years Warranty

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

Generated check for the latest version www.msi.com/datasheet. The information provided in this document is intended for informational purposes only and is subject to change without notice.

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