



FEATURES



Lightning Gen4 Solution

Gen4 PCI-E and M.2 solution with up to 64GB/s bandwidth for maximum transfer speed.



Lightning Gen 5 Solution

The latest Gen 5 M.2 solution with up to 128GB/s bandwidth for maximum transfer speed.

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)	