



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.



5 Years Warranty

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