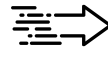




FEATURES



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 2TB.



Security & Reliability

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



MSI Center

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



5 Years Warranty

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

SPECIFICATIONS

Model Name	M452 PCIe 4.0 NVMe M.2		
Capacity	500GB	1TB	2TB
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)	3500	3550	3500
Sequential Write up to (MB/s)	2600	2700	2700
Random Read 4KB up to (IOPS)	220,000	340,000	340,000
Random Write 4KB up to (IOPS)	500,000	550,000	550,000
Maximum Operating Power (W)	3.7	3.9	4.3
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)	280	560	1120
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)		