STORAGE

M471 PCIe 4.0 NVMe M.2







SPECIFICATIONS

Model Name	M471 PCIe 4.0 NVMe M.2	
Capacity	1TB	2TB
Controller	PHISON E16	
Flash Memory	3D NAND	
DRAM Cache	1GB DDR4	2GB DDR4
Form Factor	M.2 2280	
Interface	PCIe Gen4x4, NVMe 1.3	
Compatibility	PCIe Gen4 / Gen3 / Gen2 / Gen1	
Dimensions	80.00mm (L) x 22.00mm (W) x 2.15mm (H)	
Sequential Read up to (MB/s)	4700	4850
Sequential Write up to (MB/s)	1850	3600
Random Read 4KB up to (IOPS)	180,000	350,000
Random Write 4KB up to (IOPS)	450,000	600,000
Maximum Operating Power (W)	5.7	6.8
Idle Power PS3 (mW)	20	30
Low Power L1.2 (mW)	2	2.5
Operating Temperatures	0°C – 70°C	
Storage Temperatures	-40°C – 85°C	
Terabytes Written (TBW)	200	400
Mean Time Between Failure (MTBF)	Up to 1,700,000 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 OPAL2.0/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 2TB.

Security & Reliability

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

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.

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