



FEATURES



Security & Reliability

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



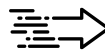
3D NAND Flash

3D NAND Flash technology brings dense storage in a compact design and allows storage capacities up to 2TB.



5 Years Warranty

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



Blazing Speeds

Optimized for the PCIe Gen3 interface.



3D NAND Flash

3D NAND Flash technology brings dense storage in a compact design and allows storage capacities up to 1TB.

SPECIFICATIONS

Model Name	SPATIUM M370 NVMe M.2				
Capacity	128GB	256GB	512GB	1TB	2TB
Controller	PHISON E13T				
Flash Memory	3D NAND				
Form Factor	M.2 2280				
Interface	PCIe Gen3x4, NVMe 1.3				
Compatibility	PCIe Gen3 / Gen2 / Gen1				
Dimensions	80.00mm (L) x 22.00mm (W) x 2.15mm (H)				
Sequential Read up to (MB/s)	1800	2300	2400	2400	2400
Sequential Write up to (MB/s)	560	1100	1750	1750	1850
Random Read 4KB up to (IOPS)	102,000	150,000	210,000	215,000	220,000
Random Write 4KB up to (IOPS)	130,000	230,000	350,000	330,000	330,000
Maximum Operating Power (W)	2.3	3.4	3.5	3.6	3.7
Idle Power PS3 (mW)	30				
Low Power L1.2 (mW)	5				
Operating Temperatures	0°C - 70°C				
Storage Temperatures	-40°C - 85°C				
Terabytes Written (TBW)	75	200	400	800	1600
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)				

TEST CONFIGURATION

Sequential and random performance, and power consumption were measured with the system configurations listed below. All performance data was tested with the SSD as a secondary drive.

Interface	PCIe Gen3x4
Operating System	Windows 11 Pro 21H2 OS Build 22000.795
CPU	12 th Gen Intel Core i7-12700KF @3.60GHz
Memory	Crucial DDR4-2400 8G x2
Chipset	PRO Z690-A WIFI DDR4
Test Program	Crystal Diskmark 8.04, ATTO Disk Benchmark V4.01.0f1, IO Meter v1.1.0