

SPECIFICATIONS

Model Name	SPATIUM M570 PCIe 5.0 NVMe M.2 HS	
Capacity	1TB	2TB
Controller	PHISON E26	
Flash Memory	3D NAND	
DRAM Cache	2GB LPDDR4	4GB LPDDR4
Form Factor	M.2 2280	
Interface	PCIe Gen5x4, NVMe 2.0	
Compatibility	PCIe Gen5 / Gen4 / Gen3 / Gen2 / Gen1	
Dimensions	80.00mm (L) x 22.00mm (W) x 3.5mm (H) (w/o heatsink) 80.40mm (L) x 23.00mm (W) x 20.40mm (H) (w/ heatsink)	
Sequential Read up to (MB/s)	9,500	10,000
Sequential Write up to (MB/s)	8,500	10,000
Random Read 4KB up to (IOPS)	1,300,000	1,400,000
Random Write 4KB up to (IOPS)	1,500,000	
Maximum Operating Power (W)	10	11
Operating Temperatures	0°C - 70°C	
Storage Temperatures	-40°C - 85°C	
Terabytes Written (TBW)	700	1400
Mean Time Between Failure (MTBF)	Up to 1,600,000 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)	

FEATURES



Supercharged with Gen 5

The PCIe Gen 5 controller empowers next-level storage transfer rates faster than previous-gen SSDs by up to 1.5 times.



Aluminum Heatsink

Bronze-colored aluminum heatsink with a stacked fin structure maximizes performance under heavy loads.



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.



Low Latency Gaming

Enjoy minimal latency in smooth gameplay and loading games with optimized high-performance bandwidth and throughput.



Nonstop Creativity Booster

Keep up nonstop productivity by opening up images, movies, documents, and heavy-duty applications at lightning speeds.



MSI Center

Migrate data with backup & restore functionality, monitor drive health and performance metrics in real-time in MSI Center.



Optimal M.2 SSD

Designed in the M.2 2280 form factor, MSI SSDs are easy to install into external enclosures, desktops, or laptops.



5 Years Warranty

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

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 Gen5x4
Operating System	Windows 11 Pro 22H2 OS Build 22621.1555
CPU	13th Gen Intel Core i9-13900F @2.00 GHz
Memory	Kingston DDR5-4800 16G x2
Chipset	MSI MPG Z790 CARBON WIFI
Test Program	Crystal Diskmark 8.04c, ATTO Disk Benchmark V4.01.0f1, IO Meter v1.1.0