



FEATURES



Supercharged with Gen 5

The PCIe Gen 5 controller empowers next-level storage transfer rates faster than previous-gen SSDs by up to 1.8 times.



3D NAND Flash

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



Multiple Security

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

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



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 comprehensive warranty.

SPECIFICATIONS

Model Name	SPATIUM M560 PCIe 5.0 NVMe M.2	
Capacity	1TB	2TB
Controller	PHISON E31T	
Flash Memory	3D NAND	
Form Factor	M.2 2280	
Interface	PCIe Gen5x4, NVMe 2.0	
Compatibility	PCIe Gen5 /PCIe Gen4 / Gen3 / Gen2 / Gen1	
Dimensions	80.00mm (L) x 22.00mm (W) x 2.15mm (H)	
Sequential Read up to (MB/s)	10,200	10,300
Sequential Write up to (MB/s)	8,400	8,700
Random Read 4KB up to (IOPS)	1,300,000	
Random Write 4KB up to (IOPS)	1,400,000	
Maximum Operating Power (W)	5.9	
Idle Power PS3 (mW)	50	
Low Power L1.2 (mW)	3.5	
Operating Temperatures	0°C - 70°C	
Storage Temperatures	40°C - 85°C	
Terabytes Written (TBW)	600	1200
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)	

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 23H2
CPU	AMD Ryzen 9 7950X 16-Core @4.50 GHz
Memory	Kingston DDR5-4800 16G x2
Chipset	MSI MPG X670E CARBON WIFI
Test Program	Crystal Diskmark 8.0.4, ATTO Disk Benchmark V4.01.0f1, IO Meter v1.1.0