



## FEATURES

**5 GEN** **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**  
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.

## SPECIFICATIONS

<b>Model Name</b>	SPATIUM M560 PCIe 5.0 NVMe M.2	
<b>Capacity</b>	1TB	2TB
<b>Controller</b>	PHISON E31T	
<b>Flash Memory</b>	3D NAND	
<b>Form Factor</b>	M.2 2280	
<b>Interface</b>	PCIe Gen5x4, NVMe 2.0	
<b>Compatibility</b>	PCIe Gen5 /PCIe Gen4 / Gen3 / Gen2 / Gen1	
<b>Dimensions</b>	80.00mm (L) x 22.00mm (W) x 2.15mm (H)	
<b>Sequential Read up to (MB/s)</b>	10,200	10,300
<b>Sequential Write up to (MB/s)</b>	8,400	8,700
<b>Random Read 4KB up to (IOPS)</b>	1,300,000	
<b>Random Write 4KB up to (IOPS)</b>	1,400,000	
<b>Maximum Operating Power (W)</b>	5.9	
<b>Idle Power PS3 (mW)</b>	50	
<b>Low Power L1.2 (mW)</b>	3.5	
<b>Operating Temperatures</b>	0°C - 70°C	
<b>Storage Temperatures</b>	40°C - 85°C	
<b>Terabytes Written (TBW)</b>	600	1200
<b>Mean Time Between Failure (MTBF)</b>	Up to 1,500,000 Hours	
<b>Limited Warranty</b>	5 Years, or the coverage for the maximum TBW as stated, whichever comes first.	
<b>Advanced Features</b>	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.

<b>Interface</b>	PCIe GEN5X4
<b>Operating System</b>	Windows 11 Pro 23H2
<b>CPU</b>	AMD Ryzen 9 7950X 16-Core @4.50 GHz
<b>Memory</b>	Kingston DDR5-4800 16G x2
<b>Chipset</b>	MSI MPG X670E CARBON WIFI
<b>Test Program</b>	Crystal Diskmark 8.0.4, ATTO Disk Benchmark V4.01.0f1, IO Meter v1.1.0