



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



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



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



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



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



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 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 |

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) | |