STORAGE

SPATIUM M571 DLP PCIe 5.0 NVMe M.2



SPECIFICATIONS

Model Name	SPATIUM M571 DLP PCIe 5.0 NVMe M.2		
Capacity	1TB	2TB	4TB
Controller	PHISON E28		
Flash Memory	3D NAND		
DRAM Cache	1GB LPDDR4	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 2.15mm (H)		
Sequential Read up to (MB/s)	14500		
Sequential Write up to (MB/s)	11000		
Random Read 4KB up to (IOPS)	1300K	2500K	2600K
Random Write 4KB up to (IOPS)	2600K		
Maximum Operating Power (W)	6.5		
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)	700	1400	2800
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	Wear Leveling (Extends NAND flash lifespan) Bad Block Management (Prevent unstable data storage) Over-Provision (Improve performance, endurance, and reduce write amplification) Firmware Upgrade (Updates device instructions to add features, fix issues, and enhance performance) TRIM (Performance Optimization, OS support required) SMART (Self-Monitoring, Analysis and Reporting Technology)		

FEATURES

Exclusive DLP Power-Loss Data Protection

Secures critical data during unexpected power outages and reduces the risk of data disappearing.

TSMC 6mm Controller

Built on TSMC's cutting edge 6nm process, enhanced controller thermal stability under heavy load.

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

3D NAND flash technology brings dense storage in a compact design and allows storage capacities up to 4TB.

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.

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

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