

SPATIUM M570 PRO PCIe 5.0 NVMe M.2 FROZR



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.

Towered FROZR Heatsink
An enthusiast heatsink with well-pathed Core Pipes silently reduces temperatures by up to 20 °C under a stylish cover, sustaining maximum storage performance.

Core Pipe
Precision-machined heatpipes ensure max contact and spread heat along the full length of the heatsink.

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

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 desktops.

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

SPECIFICATIONS

Model Name	SPATIUM M570 PRO PCIe 5.0 NVMe M.2 FROZR		
Capacity	1TB	2TB	4TB
Controller	PHISON E26		
Flash Memory	3D NAND		
DRAM Cache	2GB LPDDR4	4GB LPDDR4	8GB LPDDR4
Form Factor	M.2 2280		
Interface	PCIe Gen5x4, NVMe 2.0		
Compatibility	PCIe Gen5 / Gen4 / Gen3 / Gen2 / Gen1		
Dimensions	94.80mm (L) x 24.00mm (W) x 71.65mm (H) Recommended installation space: up to 22 x 110 mm available		
Sequential Read up to (MB/s)	11,700	12,400	12,400
Sequential Write up to (MB/s)	9,500	11,800	11,800
Maximum Operating Power (W)	11	11.5	11.5
Idle Power PS3 (mW)	144		
Low Power L1.2 (mW)	85		
Operating Temperatures	0°C - 70°C		
Storage Temperatures	-40°C - 85°C		
Terabytes Written (TBW)	700	1400	3000
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) AES256/OPAL 2.0 (Encryption, Data Security)		

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 22621.382
CPU	AMD Ryzen 9 7950X 16-Core Processor @4.50 GHz
Memory	Kingston DDR5-4800 16G x2
Chipset	MSI MPG X670E CARBON WIFI
Test Program	Crystal Diskmark 8.04 x64, ATTO Disk Benchmark V4.01.0f1, IO Meter v1.1.0