

# 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

<b>Model Name</b>	SPATIUM M570 PRO PCIe 5.0 NVMe M.2 FROZR		
<b>Capacity</b>	1TB	2TB	4TB
<b>Controller</b>	PHISON E26		
<b>Flash Memory</b>	3D NAND		
<b>DRAM Cache</b>	2GB LPDDR4	4GB LPDDR4	8GB LPDDR4
<b>Form Factor</b>	M.2 2280		
<b>Interface</b>	PCIe Gen5x4, NVMe 2.0		
<b>Compatibility</b>	PCIe Gen5 / Gen4 / Gen3 / Gen2 / Gen1		
<b>Dimensions</b>	94.80mm (L) x 24.00mm (W) x 71.65mm (H) Recommended installation space: up to 22 x 110 mm available		
<b>Sequential Read up to (MB/s)</b>	11,700	12,400	12,400
<b>Sequential Write up to (MB/s)</b>	9,500	11,800	11,800
<b>Maximum Operating Power (W)</b>	11	11.5	11.5
<b>Idle Power PS3 (mW)</b>	144		
<b>Low Power L1.2 (mW)</b>	85		
<b>Operating Temperatures</b>	0°C - 70°C		
<b>Storage Temperatures</b>	-40°C - 85°C		
<b>Terabytes Written (TBW)</b>	700	1400	3000
<b>Mean Time Between Failure (MTBF)</b>	Up to 1,600,000 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) 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.

<b>Interface</b>	PCIe Gen5x4
<b>Operating System</b>	Windows 11 Pro 22H2 OS Build 22621.382
<b>CPU</b>	AMD Ryzen 9 7950X 16-Core Processor @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 8.04 x64, ATTO Disk Benchmark V4.01.0f1, IO Meter v1.1.0