



SPECIFICATIONS

Model Name	SPATIUM M580 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)		
Sequential Read up to (MB/s)	13,700	14,600	14,100
Sequential Write up to (MB/s)	10,300	12,700	12,600
Maximum Operating Power (W)	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)		

FEATURES

USB Type-C Power Delivery 98W



Built-in an USB Type-C connection with 98W power delivery allows you to effortlessly connect to and charge your devices.

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 OS Build 22631.2861
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