



SPECIFICATIONS

Model Name	SPATIUM M461 PCIe 4.0 NVMe M.2			
Capacity	500GB	1TB	2TB	4TB
Controller	PHISON E21T			
Flash Memory	3D NAND			
Form Factor	M.2 2280			
Interface	PCIe Gen4x4, NVMe 1.4			
Compatibility	PCIe Gen4 / Gen3 / Gen2 / Gen1			
Dimensions	80.00mm (L) x 22.00mm (W) x 2.15mm (H)			
Sequential Read up to (MB/s)	4700	5000	5000	5000
Sequential Write up to (MB/s)	1700	3200	4200	4200
Random Read 4KB up to (IOPS)	320,000	630,000	680,000	600,000
Random Write 4KB up to (IOPS)	400,000	750,000	880,000	850,000
Maximum Operating Power (W)	3.7	4.1	4.4	5.1
Idle Power PS3 (mW)	50			
Low Power L1.2 (mW)	5			
Operating Temperatures	0°C - 70°C			
Storage Temperatures	-40°C - 85°C			
Terabytes Written (TBW)	110	250	450	900
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) Pyrite (Encryption, Data Security)			

FEATURES

Blazing Speeds

Optimized for the PCIe Gen4 interface.

3D NAND Flash

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.

MSI Center

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

5 Years Warranty

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