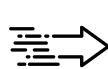




FEATURES



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 2TB.



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

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.



5 Years Warranty

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

SPECIFICATIONS

| | | | | |
|---|--|---------|---------|---------|
| Model Name | SPATIUM M460 PCIe 4.0 NVMe M.2 | | | |
| Capacity | 250GB | 500GB | 1TB | 2TB |
| 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) | 4650 | 5000 | 5000 | 4900 |
| Sequential Write up to (MB/s) | 1900 | 3750 | 4500 | 4400 |
| Random Read 4KB up to (IOPS) | 220,000 | 440,000 | 550,000 | 525,000 |
| Random Write 4KB up to (IOPS) | 470,000 | 920,000 | 950,000 | 950,000 |
| Maximum Operating Power (W) | 3.6 | 4.0 | 4.3 | 5.2 |
| 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) | 200 | 300 | 600 | 1200 |
| 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) | | | |

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 Gen4x4 |
| Operating System | Windows 11 Pro 21H2 OS Build 22000.675 |
| CPU | AMD Ryzen 7 3700X 8-Core @3.60 GHz |
| Memory | Kingston DDR4 4G-2400 x4 |
| Chipset | MSI MEG B550 |
| Test Program | Crystal Diskmark 8.04, ATTO Disk Benchmark V4.01.0f1, IO Meter v1.1.0 |