



## SPECIFICATIONS

<b>Model Name</b>	M480 PCIe 4.0 NVMe M.2		
<b>Capacity</b>	500GB	1TB	2TB
<b>Controller</b>	PHISON E18		
<b>Flash Memory</b>	3D NAND		
<b>DRAM Cache</b>	512MB DDR4	1GB DDR4	2GB DDR4
<b>Form Factor</b>	M.2 2280		
<b>Interface</b>	PCIe Gen4x4, NVMe 1.4		
<b>Compatibility</b>	PCIe Gen4 / Gen3 / Gen2 / Gen1		
<b>Dimensions</b>	80.00mm (L) x 22.00mm (W) x 2.15mm (H)		
<b>Sequential Read up to (MB/s)</b>	6500	7000	7000
<b>Sequential Write up to (MB/s)</b>	2850	5500	6800
<b>Random Read 4KB up to (IOPS)</b>	170,000	350,000	650,000
<b>Random Write 4KB up to (IOPS)</b>	600,000	700,000	700,000
<b>Maximum Operating Power (W)</b>	6.0	6.6	8.2
<b>Idle Power PS3 (mW)</b>	10	14	22
<b>Low Power L1.2 (mW)</b>	3		
<b>Operating Temperatures</b>	0°C - 70°C		
<b>Storage Temperatures</b>	-40°C - 85°C		
<b>Terabytes Written (TBW)</b>	350	700	1400
<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/TCG OPAL2.0/Pyrite (Encryption, Data Security)		

## FEATURES



### 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.



### 3D NAND Flash

3D NAND Flash technology brings dense storage in a compact design and allows storage capacities up to 1TB.



### 5 Years Warranty

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