



Seagate BarraCuda 510 M.2 500 GB PCI Express 3.0 3D TLC NVMe

Brand : Seagate

Product family: BarraCuda

Product code: ZP500CM3A001

Product name : 510

500GB, 3D TLC, PCIe 3.0 x4, NVMe 1.3, M.2 2280-S2

[Seagate BarraCuda 510 M.2 500 GB PCI Express 3.0 3D TLC NVMe:](#)



Speed Up Your Computer.

Take your data to the next level of performance, reliability, and efficiency with one of our Seagate® BarraCuda® solid state drives.

BarraCuda solid state drives come in both M.2 2280 form factors, perfect for ultra thin and ultra small laptops, mini PCs, and desktop PCs that need next-level SSD speed for accelerated applications and multitasking.



M.2. NVMe PCIe Gets You There Faster.

Ultrafast Speed

Unleash the performance of PCIe NVMe speeds that are 6x faster than SATA SSD.

Dynamic Versatility

Upgrade ultra-thin laptops as well as mini and desktop PCs with an M.2 SSD.

Solid Reliability

Leverage BarraCuda durability with a 5 year warranty, 1.8M hours MTBF and up to 320 total terabytes written.

Seagate BarraCuda 510. SSD capacity: 500 GB, SSD form factor: M.2, Read speed: 3400 MB/s, Write speed: 2400 MB/s, Component for: PC

Features		Operational conditions	
NVMe version	1.3	Storage temperature (T-T)	-40 - 85 °C
SSD form factor *	M.2	Technical details	
SSD capacity *	500 GB	Sustainability certificates	RoHS
Interface *	PCI Express 3.0	Weight & dimensions	
Memory type *	3D TLC	Width	22.1 mm
NVMe *	✓	Depth	80.2 mm
Component for *	PC	Height	2.23 mm
Hardware encryption *	✗	Weight	8.7 g
Read speed	3400 MB/s	Packaging data	
Write speed	2400 MB/s	Package width	109 mm
Random read (4KB)	410000 IOPS	Package depth	134.2 mm
Random write (4KB)	540000 IOPS	Package height	24 mm
S.M.A.R.T. support	✓	Package weight	61 g
TRIM support	✓	Logistics data	
Mean time between failures (MTBF)	1800000 h	Master (outer) case width	278 mm
Power		Master (outer) case length	129 mm
Power consumption (average)	4.6 W	Master (outer) case height	169 mm
Operational conditions		Master (outer) case net weight	910 g
Operating temperature (T-T)	0 - 70 °C	Products per master (outer) case	10 pc(s)



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