

Seagate BarraCuda 510 ZP500CM3A001 - SSD - 500 GB - PCIe 3.0 x4 (NVMe)



20-05-2024

SKU	ZP500CM3A001
Product Description:	Seagate BarraCuda 510 ZP500CM3A001 - SSD - 500 GB - PCIe 3.0 x4 (NVMe)
Type:	Solid state drive - internal
Capacity:	500 GB
NAND Flash Memory Type:	3D triple-level cell (TLC)
Form Factor:	M.2 2280
Interface:	PCIe 3.0 x4 (NVMe)
Features:	Halogen Free, TRIM support, NVM Express (NVMe) 1.3, TCG Pyrite, S.M.A.R.T.



General

Device Type: Solid state drive - internal

Capacity: 500 GB

NAND Flash Memory Type: 3D triple-level cell (TLC)

Form Factor: M.2 2280

Interface: PCIe 3.0 x4 (NVMe)

Features: Halogen Free, TRIM support, NVM Express (NVMe) 1.3, TCG Pyrite, S.M.A.R.T.

Width: 22.15 mm

Depth: 80.15 mm

Height: 2.23 mm

Weight: 8.7 g

Performance

SSD Endurance: 320 TB

Internal Data Rate: 3400 MBps (read) / 2400 MBps (write)

Maximum 4KB Random Write: 540000 IOPS

Maximum 4KB Random Read: 410000 IOPS

Reliability

MTBF: 1,800,000 hours

Environmental Parameters

Min Operating Temperature: 0 °C

Max Operating Temperature: 70 °C

Min Storage Temperature: -40 °C

Max Storage Temperature: 85 °C

Shock Tolerance (non-operating): 1500 g @ 0.5 ms

Manufacturer Warranty

Service & Support: Limited warranty - 5 years

Dimensions & Weight (Shipping)

Shipping Width: 10.9 cm

Shipping Depth: 13.425 cm

Shipping Height: 2.4 cm

Shipping Weight: 61 g

Miscellaneous

Compliant Standards: RoHS

Localisation: Worldwide

Software & System Requirements

OS Required: Linux, Microsoft Windows 7 / 8.1 / 10

Power

Power Consumption: 4.6 Watt (active) | 16 mW (idle) | 2 mW (low power idle)

Expansion & Connectivity

Interfaces: 1 x PCI Express 3.0 x4 (NVMe) - M.2 Card

Compatible Bay: M.2 2280