

WD Blue SA510 WDS100T3B0B-00AXS0 (WDS100T3B0B-00AXS0)

WD Blue SA510 WDS100T3B0B-00AXS0 - SSD - 1 TB - internal - M.2 2280 - SATA 6Gb/s



The WD Blue SA510 offers reliability and performance in a compact M.2 2280 form factor. With a storage capacity of 1 TB, this internal solid-state drive ensures ample space for essential data, applications, and multimedia files. Its internal data rate of 560 MBps for read operations and 520 MBps for write operations enables quick file access and efficient data transfer, making it suitable for everyday use and demanding tasks. Designed for durability, this SSD boasts an endurance of 400 TB, capable of handling heavy workloads and extensive read/write cycles. Operating temperatures range from 0°C to 70°C, allowing for versatility in environments. The WD Blue SA510 is equipped with shock and vibration tolerance measures, with an operating shock acceleration of 1500 g and a vibration frequency range of 10-2000 Hz, helping protect stored data. With a mean time between failures (MTBF) of 2,250,000 hours, users can trust this SSD to perform consistently over time.

Key Selling Points

- 1 TB storage capacity for ample data storage
- Fast internal data rates of 560 MBps read and 520 MBps write
- M.2 2280 form factor for compact installation
- 400 TB SSD endurance for heavy workloads
- Advanced shock and vibration tolerance

Product Features

- High-speed performance**
Achieving 560 MBps for read operations and 520 MBps for write operations, the WD Blue SA510 ensures quick access to files and applications, enhancing overall system responsiveness.
- Robust endurance**
With an endurance rating of 400 TB, this SSD withstands extensive read and write cycles, making it suitable for casual users and professionals who demand reliability and longevity.
- Compact design**
The M.2 2280 form factor allows for easy installation in compatible devices without taking up much space, ensuring compatibility with various systems.
- Excellent temperature tolerance**
Designed to operate within a temperature range of 0°C to 70°C, this SSD maintains performance in diverse environments, making it suitable for a variety of applications.
- Improved data protection**
Featuring advanced shock resistance with a rating of 1500 g, the WD Blue SA510 safeguards data integrity against physical shocks and vibrations.

Main specifications

Product Description	WD Blue SA510 WDS100T3B0B-00AXS0 - SSD - 1 TB - SATA 6Gb/s
Type	Solid state drive - internal
Capacity	1 TB
Form Factor	M.2 2280
Interface	SATA 6Gb/s
Dimensions (WxDxH)	22 mm x 80 mm x 2.38 mm
Weight	4.8 g
Manufacturer Warranty	5-year warranty

Extended specification

General

Device Type	Solid state drive - internal
Capacity	1 TB
Form Factor	M.2 2280
Interface	SATA 6Gb/s
Width	22 mm
Depth	80 mm
Height	2.38 mm
Weight	4.8 g

Manufacturer Warranty

Service & Support	Limited warranty - 5 years
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Miscellaneous

Compliant Standards	FCC, UL, TUV, KC, BSMI, VCCI, Morocco
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Power

Power Consumption	60 mW (active) 1800 mW (read) 2000 mW (write) 36 mW (sleep) 12 mW (DevSleep)
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Environmental Parameters

Min Operating Temperature	0 °C
Max Operating Temperature	70 °C
Shock Tolerance (operating)	1500 g @ 0.5 ms half-sine
Vibration Tolerance (operating)	5 gRMS @ 10-2000 Hz

Performance

SSD Endurance	400 TB
Internal Data Rate	560 MBps (read) / 520 MBps (write)
4KB Random Read	90000 IOPS
4KB Random Write	82000 IOPS

Reliability

MTBF	2,250,000 hours
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Software & System Requirements

Software Included	Acronis True Image, Dropbox Professional (free for 3 months)
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Expansion & Connectivity

Interfaces	1 x SATA 6 Gb/s
Compatible Bay	M.2 2280

What's in the box

WD Blue SA510 WDS100T3B0B-00AXS0 - solid state drive

Software

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