



WD Blue™ SA510 SATA SSD

Breathe new life into your PC so you can push the boundaries of your work. Designed specifically for professionals, creatives, freelancers, social influencers, and other passionate content creators and editors, the WD Blue™ SA510 SATA SSD helps boost your PC's performance so you can be more productive. The drive is available in 2.5" or M.2 slots and includes Acronis® True Image™ for Western Digital® backup and cyber protection software¹ plus a free three-month Dropbox Professional trial². This fast, reliable SSD helps you boot up faster, cut lag times, and speed up edits and file transfers for a sustainable desktop upgrade—no expensive new PC purchase required.

Easily Share Files with Dropbox



Dropbox makes it easier than ever to store and collaborate. Share your content—from photos and videos to documents and presentations and more—via a single, easy-to-access place with your free three-month trial of Dropbox Professional² when you purchase a WD Blue™ SA510 drive.

Upgrade Your Creativity

Featuring read speeds up to 560MB/s³ (500GB⁴ and 1TB⁴ models), this fast SATA SSD delivers a performance boost that keeps up with your workloads so you can stay creative and be more productive.

Give Your PC a Makeover

Why buy an expensive new desktop? With capacities of up to 1TB⁴, high endurance, plus low power draw for more laptop life between charges and reduced vibrations compared to HDDs, the WD Blue™ SA510 SATA SSD is the perfect drive for a powerful PC upgrade.

Help Protect Your Content

Clone your computer's entire hard drive to your WD Blue™ SA510 drive with the included Acronis® True Image™ for Western Digital® software¹. This easy, efficient software also helps provide AI-based protection against ransomware and defend you from many attacks.

Create with More Control

Stress less and keep your projects on point as the downloadable Western Digital® SSD Dashboard helps you monitor your drive's health, temperature, available space, firmware version, and more.

Plug It Into Your Current PC

The WD Blue™ SA510 SATA SSD comes in 2.5" and M.2 form factors for increased compatibility, fitting into many PC slots including those of many older machines.

Highlights

- Upgrade your creativity with a performance boost that delivers read speeds up to 560MB/s³ (500GB⁴ and 1TB⁴ models).
- Give your PC new life with capacities of up to 1TB⁴ and high endurance, plus low power draw for more laptop life between charges and reduced vibrations compared to HDDs.
- Work with confidence as the downloadable Western Digital® SSD Dashboard helps you monitor your drive's health, temperature, available space, and more.

WD Blue™ SA510 SATA SSD

PRODUCT BRIEF

SATA SSD

Specifications

	1TB ⁴	1TB ⁴	500GB ⁴	500GB ⁴	250GB ⁴	250GB ⁴
Model Number	WDS100T3B0A	WDS100T3B0B	WDS500G3B0A	WDS500G3B0B	WDS250G3B0A	WDS250G3B0B
Form Factor	2.5-inch	M.2 2280	2.5-inch	M.2 2280	2.5-inch	M.2 2280
Interface^{4, 5}						
WD Blue SATA SSD 2.5"/7mm cased	SATA III 6 Gb/s		SATA III 6 Gb/s		SATA III 6 Gb/s	
WD Blue SATA SSD M.2 2280	SATA III 6 Gb/s		SATA III 6 Gb/s		SATA III 6 Gb/s	
Performance⁶						
Sequential Read up to (MB/s)	560	560	560	560	555	555
Sequential Write up to (MB/s)	520	520	510	510	440	440
Random Read up to (IOPS)	90k	90k	90k	90k	80k	80k
Random Write up to (IOPS)	82k	82k	82k	82k	78k	78k
Endurance (TBW) ⁷	400	400	200	200	100	100
Reliability/Data Integrity						
MTTF ⁸	Up to 1.75M hours	Up to 1.75M hours	Up to 1.75M hours	Up to 1.75M hours	Up to 1.75M hours	Up to 1.75M hours
Limited Warranty (years) ⁹	5	5	5	5	5	5
Power Management¹⁰						
Average Active Power (mW)	60	60	50	50	50	50
Max Read Operating ¹¹ (mW)	1,800	1,800	1,800	1,800	1,800	1,800
Max Write Operating ¹¹ (mW)	2,000	2,000	2,000	2,000	2,000	2,000
Slumber (mW)	36	36	36	36	36	36
DEVSLP (mW)	12	12	12	12	12	12
Environmental						
Operating Temperatures ¹²	0°C to 70°C	0°C to 70°C	0°C to 70°C	0°C to 70°C	0°C to 70°C	0°C to 70°C
Non-operating Temperatures	-55°C to 85°C	-55°C to 85°C	-55°C to 85°C	-55°C to 85°C	-55°C to 85°C	-55°C to 85°C
Operating Vibration	5.0 gRMS, 10–2000 Hz	5.0 gRMS, 10–2000 Hz	5.0 gRMS, 10–2000 Hz	5.0 gRMS, 10–2000 Hz	5.0 gRMS, 10–2000 Hz	5.0 gRMS, 10–2000 Hz
Shock	1,500 G @ 0.5 msec half sine	1,500 G @ 0.5 msec half sine	1,500 G @ 0.5 msec half sine	1,500 G @ 0.5 msec half sine	1,500 G @ 0.5 msec half sine	1,500 G @ 0.5 msec half sine
Physical Dimensions						
Size: 2.5"/7mm cased	100.2mm x 69.85mm x 7mm		100.2mm x 69.85mm x 7mm		100.2mm x 69.85mm x 7mm	
Size: M.2 2280	80mm x 22mm x 2.38mm		80mm x 22mm x 2.38mm		80mm x 22mm x 2.38mm	
Weight: 2.5"/7mm cased	34.6g ±1g		34.6g ±1g		34.6g ±1g	
Weight: M.2 2280	4.8g ±1g		4.8g ±1g		4.8g ±1g	

¹ Download and installation required. Includes 5-year license for your compatible drive. Redeem within 90 days of purchase. May not be combined with other offers. Limited time offer; see Western Digital website for more details. Offer subject to change.

² Internet connection required. Offer must be redeemed by September 30, 2023, while activation code supplies lasts. Offer limited to 1 per new Dropbox account, subject to acceptance of Dropbox Terms of Service. For existing accounts, limitations apply. See the Dropbox website for details. Western Digital reserves the right to change or discontinue this offer at any time without notice. This offer is not available in all countries.

³ Based on read speed. 1 MB/s = 1 million bytes per second. Based on internal testing; performance may vary depending upon host device, usage conditions, drive capacity, and other factors.

⁴ 1GB = 1 billion bytes and 1TB = 1 trillion bytes. Actual user capacity may be less depending on operating environment.

⁵ Backward-compatible with SATA II and I.

⁶ 1 MB/s = 1 million bytes per second. IOPS = input/output operations per second. Based on internal testing; performance may vary depending upon host device, usage conditions, drive capacity, and other factors.

⁷ TBW (terabytes written) values calculated using JEDEC client workload (JESD219) and vary by product capacity.

⁸ MTTF = Mean Time To Failure based on internal testing using Telcordia™ stress part testing. MTTF is based on a sample population and is estimated by statistical measurements and acceleration algorithms. MTTF does not predict an individual drive's reliability and does not constitute a warranty.

⁹ 5 years or Max Endurance (TBW) limit, whichever occurs first. See <http://support.WesternDigital.com> for regional specific warranty details.

¹⁰ Measured using the MobileMark™ 2014 benchmark with DIPM (Device Initiated Power Management) enabled.

¹¹ Measured during continuous sequential read or write activity and indicates the average over 1 second intervals.

¹² The SSD box package is rated up to 60°C.

Western Digital

5601 Great Oaks Parkway
San Jose, CA 95119, USA
www.westerndigital.com

© 2022 Western Digital Corporation or its affiliates. All rights reserved. Western Digital, the Western Digital logo, and WD Blue are registered trademarks or trademarks of Western Digital Corporation or its affiliates in the US and/or other countries. Acronis and True Image are trademarks of Acronis International GmbH. Dropbox is a trademark of Dropbox, Inc. All other marks are the property of their respective owners. Product specifications subject to change without notice. Pictures shown may vary from actual products.

02-00-WW-04-00065-AA00 May 2022