



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.



Share Files with Dropbox® Professional²

Easily share files up to 100GB⁴ in only a few clicks, even if it's too large to email. Impress your clients by adding custom branding, digital watermarks, passwords, or expiration dates to content you share via Dropbox® Professional.

Highlights

- Upgrade your creativity with a performance boost that delivers read speeds up to 560MB/s³ (500GB⁴ – 4TB⁴ models).
- Give your PC new life with capacities of up to 4TB⁴ 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.

Upgrade Your Creativity

Featuring read speeds up to 560MB/s³ (500GB⁴ – 4TB⁴ 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 4TB⁴, 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.

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PRODUCT BRIEF

SATA SSD

Specifications

	4TB ⁴	2TB ⁴	1TB ⁴	500GB ⁴	250GB ⁴
Model Number					
WD Blue SSD 2.5"/7mm cased	WDS400T3B0A	WDS200T3B0A	WDS100T3B0A	WDS500G3B0A	WDS250G3B0A
WD Blue SSD M.2 2280			WDS100T3B0B	WDS500G3B0B	WDS250G3B0B
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	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
Sequential Write up to (MB/s)	520	520	520	510	440
Random Read up to (IOPS)	87k	87k	90k	90k	80k
Random Write up to (IOPS)	83k	83k	82k	82k	78k
Endurance (TBW) ⁷	600	500	400	200	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
Limited Warranty (years) ⁹	5	5	5	5	5
Power Management¹⁰					
Average Active Power (mW)	100	100	60	50	50
Max Read Operating ¹¹ (mW)	3,000	3,000	1,800	1,800	1,800
Max Write Operating ¹¹ (mW)	3,000	3,000	2,000	2,000	2,000
Slumber (mW)	70	70	36	36	36
DEVSLP (mW)	7	7	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
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
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
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
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	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	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 last. 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 10 microsecond intervals.

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

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