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Highlights

- Boost your productivity or creativity with SATA SSD delivering up to 560MB/s²
- Media files including 4K videos and images are massive. With capacities up to 4TB¹, never worry about running out of space
- Standard 2.5"/7mm cased form-factor to assure maximum compatibility with your PC when installing the SSD
- Solid-state drive with SANDISK® 3D NAND for reliably storing your data especially for the occasional bumps and drops
- Upgrading is made simple with the free downloadable Acronis® True Image™ for SANDISK® data migration software⁶ (cable may be required, sold separately)
- Work with confidence as the downloadable SANDISK® Dashboard⁷ application (Windows® only) helps monitor your SSD

WD Blue® SA510 SATA SSD

Elevate your creativity with the WD Blue® SA510 SATA SSD so you can push the boundaries of your work. Designed with the professional or creator in mind, the WD Blue® SA510 SATA SSD delivers up to 560MB/s², for your workflow, and up to 4TB¹ capacity to store your massive media files. Maximum compatibility with older PCs with 2.5"/7mm cased form-factor. Solid-state drive with SANDISK® 3D NAND for reliably storing your data especially for the occasional bumps and drops.

Designed for the Professional or Creator

Breathe new life into your PC with the WD Blue® SA510 SATA SSD so you can push the boundaries of your work. Designed with the professional or creator in mind, the WD Blue® SA510 SATA SSD delivers up to 560MB/s², for your workflow, and up to 4TB¹ capacity to store your massive media files.

Large Files, No Problem

With capacities from 500GB to 4TB¹ to match your storage needs, quickly access your massive library of large media files such as images, videos, and other creatives on your new WD Blue® SA510 SATA SSD. Download more applications or content and stop worrying about running out of space.

Reliable Storage

Your personal or work data is vital. Built with SANDISK® 3D NAND, the WD Blue® SA510 SSD reliably stores all your data especially for the occasional bumps and drops. Have peace of mind with our limited 5-year warranty.⁵

Compatibility and Upgrading

The WD Blue® SA510 SSD is available in 2.5"/7mm cased form-factor to assure maximum compatibility with your PC when installing. Upgrading is made simple with the free downloadable Acronis® True Image™ for SANDISK® data migration software⁶ (cable may be required, sold separately).

Monitor Your New Drive

Work with confidence as the downloadable SANDISK® Dashboard⁷ application (Windows® only) helps monitor your SSD's performance, temperature, and used and available space.

WD Blue® SA510 SATA SSD

Datasheet

SATA SSD

Specifications

Capacity ¹	4TB	2TB	1TB	500GB
Model Number	WDS400T5B0A	WDS200T5B0A	WDS100T5B0A	WDS500G5B0A
Interface ⁹	SATA III 6 Gb/s			
NAND Type	SANDISK® TLC 3D NAND			
Performance ²				
Sequential Read up to (MB/s)	560	560	560	560
Sequential Write up to (MB/s)	525	520	520	510
Random Read up to (IOPS)	85K	89K	89K	78K
Random Write up to (IOPS)	76K	75K	74K	73K
Power ³				
Average Active Power (mW)	1090	1050	1010	970
Max Read Operating (mW)	1800	1520	1490	1510
Max Write Operating (mW)	4650	2590	1800	1700
Slumber (mW)	33	34	31	31
DevSlp (mW)	10	9	10	9
Reliability				
Endurance (TBW) ⁴	1000	700	400	300
MTTF ⁴ (up to hours)	2.25M			
Limited Warranty ⁵	5 years			
Environmental				
Operating Temperatures ⁸	0°C to 70°C			
Non-operating Temperatures ⁸	-55°C to 85°C			
Operating Vibration	5.0 gRMS, 10–2000 Hz			
Shock	1,500 G @ 0.5 msec half sine			
Physical Dimensions ¹⁰				
Size	100.25mm x 69.9mm x 7mm	100.25mm x 69.9mm x 7mm	100.25mm x 69.9mm x 7mm	100.25mm x 69.9mm x 7mm
Weight	34.5g	33.3g	33.1g	33g

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

² 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. IOPS = input/output operations per second.

³ Measured during continuous sequential read or write activity and indicates the average over 10 microsecond intervals. Measured using the IOMeter benchmark with DiPM (Device Initiated Power Management) enabled.

⁴ TBW (terabytes written) values calculated using JEDEC client workload (JESD219) and vary by product capacity. MTTF = Mean Time To Failure based on internal testing using Telcordia™ stress part testing (Telcordia SR-332, GF, 25°C). 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.

⁵ 5 years or Max Endurance (TBW) limit, whichever occurs first. See [sandisk.com/support](https://www.sandisk.com/support) for regional specific warranty details.

⁶ Download, installation, and administrative privileges required. Includes 5-year license for your compatible drive. Redeem within 90 days of purchase. Terms and conditions apply. User account registration may be required. May not be combined with other offers. Limited time offer, see [sandisk.com/support](https://www.sandisk.com/support) for more details. Offer subject to change.

⁷ Available for download at: [sandisk.com/support](https://www.sandisk.com/support)

⁸ Operational temperature is defined as temperature reported by the drive. Note that drive temperature readings are expected to be higher than ambient temperature when the SSD is placed inside a system. The SSD box package is rated up to 60°C. Non-operational storage temperature does not guarantee data retention.

⁹ Backward-compatible with SATA II and I, and supports secure boot, and secure firmware update.

¹⁰ Physical product dimensions for length, width, and thickness may vary by ± 0.1mm and weight by ± 1g.



951 Sandisk Drive
Milpitas, CA 95035, USA
www.sandisk.com

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