



Highlights

- Boost your productivity or creativity with SATA SSD delivering up to 560MB/s² (500GB – 2TB¹ capacities only). Media files including 4K videos and images are massive. With capacities up to 2TB¹, never worry about running out of space
- Standard M.2 2280³ 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®⁶ data migration software (cable may be required, sold separately).
- Work with confidence as the downloadable SANDISK® Dashboard⁷ application 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 (500GB – 2TB¹ models), for your workflow, and up to 2TB¹ capacity to store your massive media files. Compatibility with PCs with M.2 2280³ form factors. 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 (500GB – 2TB¹ models), for your workflow, and up to 2TB¹ capacity to store your massive media files.

Large Files, No Problem

With capacities from 250GB to 2TB¹ 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.⁸

Compatibility and Upgrading

The WD Blue® SA510 SSD is available in M.2 2280³ form factor to assure maximum compatibility with your PC when installing. Upgrading is made simple with the free downloadable Acronis® True Image™ for SANDISK®⁶ data migration software (cable may be required, sold separately).

Monitor Your New Drive

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

WD Blue® SA510 SATA SSD

Datasheet

SATA SSD

Specifications

	2TB ¹	1TB ¹	500GB ¹	250GB ¹
Model Number				
WD Blue SSD M.2 2280	WDS200T3B0B	WDS100T3B0B	WDS500G3B0B	WDS250G3B0B
Interface³				
WD Blue SATA SSD M.2 2280	SATA III 6 Gb/s			
Performance²				
Sequential Read up to (MB/s)	560	560	560	555
Sequential Write up to (MB/s)	520	520	510	440
Random Read up to (IOPS) for M.2 2280	85k	90k	90k	80k
Random Write up to (IOPS)	83k	82k	82k	78k
Endurance (TBW) ⁴	500	400	200	100
Reliability/Data Integrity				
MTTF ⁵	Up to 2.25M hours			
Limited Warranty (years) ⁸	5	5	5	5
Power Management⁹				
Average Active Power (mW)	100	60	50	50
Max Read Operating ¹⁰ (mW)	3,000	1,800	1,800	1,800
Max Write Operating ¹⁰ (mW)	3,000	2,000	2,000	2,000
Slumber (mW)	70	36	36	36
DEVSLP (mW)	7	12	12	12
Environmental				
Operating Temperature ¹¹	0°C to 70°C	0°C to 70°C	0°C to 70°C	0°C to 70°C
Non-operating Temperature	-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
Shock	1,500 G @ 0.5 msec half sine			
Physical Dimensions				
Size: M.2 2280	80mm × 22mm × 2.38mm			
Weight: M.2 2280	6.4g +/- 1g	4.8g ±1g	4.8g ±1g	4.8g ±1g

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 Backward-compatible with SATA II and I.

⁴ TBW (terabytes written) values calculated using JEDEC client workload (JESD219) and vary by product capacity.

⁵ 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.

⁶ 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 sandisk.com/support website for more details. Offer subject to change.

⁷ Available for download at: sandisk.com/support

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

⁹ Measured using the MobileMark™ 2014 benchmark with DIPM (Device Initiated Power Management) enabled.

¹⁰ Measured during continuous sequential read or write activity and indicates the average over 10 microsecond intervals.

¹¹ The SSD box package is rated up to 60°C.



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