2.5" Solid State Drive

SATA III 6Gb/s SSD230S

Transcend's SATA III 6Gb/s SSD230S uses the latest 3D NAND technology that features vertical, stacked expansion of storage cells. By using high-quality flash memory and enhanced firmware algorithms, the SSD230S delivers greater performance and reliability.

3D expansion to break through limits

Unlike planar NAND memory, 3D NAND flash features memory cells stacked vertically in multiple layers. 3D NAND overcomes density limitations of 2D planar NAND, and delivers a higher level of performance and endurance.

Performance boost for everyday computing

Taking full advantage of the SATA III 6Gb/s interface and built-in SLC caching technology, Transcend's SSD230S achieves exceptional transfer speeds of up to 560MB/s read and 520MB/s write.

Guaranteed endurance and reliability

Transcend's SSD230S offers great Terabytes Written (TBW) values (up to 1,120 TB) indicating the total amount of data you can write into the drive over its lifetime. It also features RAID engine and LDPC coding, Garbage Collection, Wear-leveling, and DevSleep.

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Features

· Up to 560 MB/s read; 520 MB/s write
· 3D NAND flash memory and DDR3 DRAM cache
· Engineered with a RAID engine and LDPC (Low-Density Parity Check) coding to ensure data integrity; built-in SLC caching technology for exceptional transfer speeds
· Supports DevSleep ultra low power state, S.M.A.R.T., TRIM, and NCQ commands
· Download the SSD Scope software from Transcend's official website

Transcend
SSD Scope Software

Transcend SSD Scope is advanced, user-friendly software that makes it easy to ensure your Transcend SSD remains healthy, and continues to run fast and error-free by determining the condition and optimizing the performance of your drive.

Specification

Appearance

Dimensions (Max.)	100 mm x 69.85 mm x 6.8 mm (3.94" x 2.75" x 0.28")
Weight (Max.)	53 g (1.87 oz)

Storage

Flash Type	3D NAND flash
Capacity	128GB / 256GB / 512GB / 1TB / 2TB

Operating Environment

Operating Temperature	0°C (32°F) ~ 70°C (158°F)
Operating Voltage	5V±5%

Performance

Sequential Read/Write (CrystalDiskMark, max.)	Read: 560 MB/s Write: 520 MB/s
4K Random Read/Write (IOmeter, max.)	Read: 85,000 IOPS Write: 89,000 IOPS
Mean Time Between Failures (MTBF)	1,000,000 hour(s)
Terabytes Written (Max.)	1120 TB
Drive Writes Per Day (DWPD)	0.3 (5 yrs)
Note	Speed may vary due to host hardware, software, usage, and storage capacity.

Warranty

Certificate	CE/FCC/BSMI
Warranty	Five-year Limited Warranty

Ordering Information

128GB	TS128GSSD230S
256GB	TS256GSSD230S
512GB	TS512GSSD230S
1TB	TS1TSSD230S
2TB	TS2TSSD230S

2.5" SSD Comparison

	SATA III 6Gb/s SSD230S	SATA III 6Gb/s SSD220S	SATA III 6Gb/s SSD370S
Appearance			
Dimensions (Max.)	100 mm x 69.85 mm x 6.8 mm (3.94" x 2.75" x 0.28")		
Weight (Max.)	53 g (1.87 oz)	45 g (1.59 oz)	63 g (2.22 oz)
Storage			
Flash Type	3D NAND flash	3D NAND flash	MLC NAND flash
Capacity	128GB ~ 2TB	120GB ~ 960GB	32GB ~ 1TB
Operating Environment			
Operating Temperature	0°C (32°F) ~ 70°C (158°F)	0°C (32°F) ~ 60°C (140°F)	0°C (32°F) ~ 70°C (158°F)
Performance			
Sequential Read/Write (ATTO, max.)	-	-	560 MB/s 460 MB/s
Sequential Read/Write (CrystalDiskMark, max.)	560 MB/s 520 MB/s	550 MB/s 500 MB/s	520 MB/s 460 MB/s
4K Random Read/Write (IOmeter, max.)	85,000 IOPS 89,000 IOPS	65,000 IOPS 75,000 IOPS	75,000 IOPS 75,000 IOPS
Mean Time Between Failures (MTBF)	1,000,000 hour(s)	1,000,000 hour(s)	1,000,000 hour(s)
Terabytes Written (Max.)	1,120 TB	320 TB	408 TB
Drive Writes Per Day (DWPD)	0.3 (5 yrs)	0.3 (3 yrs)	0.19 (3 yrs)
Warranty			
Warranty	Five-year Limited Warranty	Three-year Limited Warranty	Three-year Limited Warranty
Technology			
TRIM & NCQ Command	✓	✓	✓
S.M.A.R.T.	✓	✓	✓
DDR3 DRAM Cache	✓	–	✓
Advanced Garbage Collection	✓	✓	✓
DevSleep Mode	✓	✓	✓
RAID Engine	✓	✓	–
LDPC Coding	✓	✓	–

*Speed may vary due to host hardware, software, usage, and storage capacity.