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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.





2.5" Solid State Drive SATA III 6Gb/s SSD230S

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



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

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 Environm Operating Temperature	ent 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	Read: 85,000 IOPS	

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

renormance		
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

TS128GSSD230S
TS256GSSD230S
TS512GSSD230S
TS1TSSD230S
TS2TSSD230S

Product specifications are subject to change without notice. Pictures shown may differ from actual products. When used as a storage capacity unit, one terabyte (TB) = one trillion bytes. Total accessible capacity varies depending on operating environment.



Comparison Image of the system Image of the system Image of the system SATA III 6Gb/s SATA III 6Gb/s SATA III 6Gb/s SATA III 6Gb/s Spearance	2.5″ SSD			
Num Num Num SATA III 6Gb's SATA III 6Gb's SATA III 6Gb's SATA III 6Gb's 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 or) 45 g (1.59 or) 63 g (2.22 or) Storage - - - Flash Type 3D NAND flash MLC NAND flash MLC NAND flash Operating Environment 0°C (32"F) - 70°C (158"F) 0°C (32"F) - 60°C (140"F) 0°C (32"F) - 70°C (158"F) Operating Environment 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 - - 550 MB/s 550 MB/s Sequential Read/Write (100 mm x 65.9 mm (2000 Dist) 75,000 Dist) 75,000 Dist) (ATIG, max.) 0°C (32"F) - 70°C (158"F) 0°C (32"F) - 60°C (140"F) 0°C (52"F) - 70°C (158"F) Performance - - - 400 MB/s Sequential Read/Write (100 mb/s) 500 MB/s 500 MB/s 500 MB/s Sequential Read/Write (100 mb/s) 500 MB/s 500 MB/s 500 MB/s Greating Environment - - 75,000 Dist) Trackytes Write (Max.) 1,120 TB 320 TB 408 TB Drive Writes Per Day (0WPD		@ Transcend"	Transcend*	Transcend'
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DevSleep ModeImage: Constraint of the second se	DDR3 DRAM Cache	\checkmark	-	\checkmark
RAID Engine -	Advanced Garbage Collection	\checkmark	\checkmark	\checkmark
	DevSleep Mode	\checkmark	\checkmark	\checkmark
LDPC Coding -				-
	LDPC Coding	\checkmark	\checkmark	-

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