

Transcend®

SSD220S Solid State Drive

SSD2205 Solid State Drive

2.5" Solid State Drive SATA III 6Gb/s SSD220S

Transcend's SATA III 6Gb/s SSD220S 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 SSD220S 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 SSD220S achieves exceptional transfer speeds of up to 530MB/s read and 480MB/s write.



Guaranteed endurance and reliability

Transcend's SSD220S offers great Terabytes Written (TBW) values (up to 160 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 SSD220S

Features

- · Up to 530 MB/s read; 480 MB/s write
- · 3D NAND flash memory
- 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.)	45 g (1.59 oz)			
Storage				
Flash Type	3D NAND flash			
Capacity	120 GB / 240 GB / 480 GB			
Operating Environmen	it			
Operating Temperature	0°C (32°F) ~ 60°C (140°F)			
Operating Voltage	5V±10%			
Performance				
Sequential Read/Write (CrystalDiskMark, max.)	Read: 530 MB/s Write: 480 MB/s			
4K Random Read/Write (lOmeter, max.)	Read: 50,000 IOPS Write: 75,000 IOPS			
Mean Time Between Failures (MTBF)	5 1,000,000 hour(s)			
Terabytes Written (Max.)	160 TB			
Drive Writes Per Day (DWPD)	0.3 (3 yrs)			
Note	Speed may vary due to host hardware, software, usage and storage capacity.			
Warranty				
Certificate	CE/FCC/BSMI			
Warranty	Three-year Limited Warranty			

Ordering Information

120GB	TS120GSSD220S
240GB	TS240GSSD220S
480GB	TS480GSSD220S

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.



2.5" SSD Comparison	Transcend' SSD2305 SATA III 6Gb/s SSD2305	Transcend SSD205 SATA III 6Gb/s SSD2205	Transcend SD3705 SATA III 6Gb/s SSD370S	Transcend SD3005 SCHOOL SCHOOL SCHO	Transcend' une the bits SATA III 6Gb/s SSD340K			
Anno2r2050								
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)	58 g (2.05 oz)	59 g (2.08 oz)			
	55 8 (1.67 62)	43 8 (1.33 02)	05 8 (2.22 02)	56 8 (2.05 02)	55 8 (2.00 02)			
Storage								
Flash Type	3D NAND flash	3D NAND flash	MLC NAND flash	MLC NAND flash	MLC NAND flash			
Capacity	128GB ~ 2TB	120GB ~ 480GB	32GB ~ 1TB	32GB ~ 256GB	32GB ~ 128GB			
Operating Environment Operating Temperature	0°C (32°F) ~	0°C (32°F) ~	0°C (32°F) ~ 70°C (158°F)	0°C (32°F) ~ 70°C (158°F)	0°C (32°F) ~ 70°C (158°F)			
Performance	70°C (158°F)	60°C (140°F)		70°C (158°F)	70°C (158°F)			
Sequential Read/Write (ATTO, max.)	-	-	560 MB/s 460 MB/s	560 MB/s 500 MB/s	550 MB/s 170 MB/s			
Sequential Read/Write (CrystalDiskMark, max.)	560 MB/s 520 MB/s	530 MB/s 480 MB/s	520 MB/s 460 MB/s	540 MB/s 480 MB/s	510 MB/s 170 MB/s			
4K Random Read/Write (IOmeter, max.)	85,000 IOPS 89,000 IOPS	50,000 IOPS 75,000 IOPS	75,000 IOPS 75,000 IOPS	60,000 IOPS 86,000 IOPS	70,000 IOPS 40,000 IOPS			
Mean Time Between Failures (MTBF)	1,000,000 hour(s)	1,000,000 hour(s)	1,000,000 hour(s)	1,000,000 hour(s)	1,500,000 hour(s)			
Terabytes Written (Max.)	1120 TB	160 TB	408 TB	230 TB	212 TB			
Drive Writes Per Day (DWPD)	0.3 (5 yrs)	0.3 (3 yrs)	0.19 (3 yrs)	0.42 (3 yrs)	-			
Warranty								
Warranty	Five-year Limited Warranty	Three-year Limited Warranty	Three-year Limited Warranty	Three-year Limited Warranty	Three-year Limited Warranty			
Technology								
TRIM & NCQ Command	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark			
S.M.A.R.T.	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark			
DDR3 DRAM Cache	\checkmark	-	\checkmark	-	\checkmark			
Advanced Garbage Collection	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark			
DevSleep Mode	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark			
RAID Engine	\checkmark	\checkmark	-	-	-			
LDPC Coding	\checkmark	\checkmark	-	-	-			

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