Transcend®

www.transcend-info.com

2.5" Solid State Drive

SATA III 6Gb/s SSD220Q

Transcend's SATA III 6 Gb/s SSD220Q uses the latest QLC NAND technology, which employs a higher density of storage cells. By using high-quality flash memory and enhanced firmware algorithms, the SSD220Q delivers greater performance and reliability.

Less is More

Featuring QLC NAND Flash, SSD220Q's storage density per cell boosts 33%. More storage capacity is unleashed for more data. Your performance is no longer limited. Unlock your potential now!

Performance boost for everyday computing

Taking full advantage of the SATA III 6Gb/s interface and built-in SLC caching technology, Transcend's SSD220Q achieves exceptional transfer speeds of up to 550 MB/s read and 500 MB/s write.

Guaranteed endurance and reliability

Transcend's SSD220Q offers great Terabytes Written (TBW) values (up to 400 TBW) indicating the total amount of data you can write on the drive over its lifetime.

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Features

- Up to 550 MB/s read; 500 MB/s write
- QLC 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

Appearance

Dimensions	100 mm x 69.85 mm x 6.8 mm (3.94" x 2.75" x 0.28")
Weight	45 g (1.59 oz)

Storage

Flash Type	QLC NAND flash
Capacity	500 GB / 1 TB / 2 TB

Operating Environment

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

Performance

Sequential Read/Write (CrystalDiskMark, max.)	Read: 550 MB/s Write: 500 MB/s
4K Random Read/Write (IOmeter, max.)	Read: 81,000 IOPS Write: 80,000 IOPS
Mean Time Between Failures (MTBF)	2,000,000 hour(s)
Terabytes Written (Max.)	400 TB
Drive Writes Per Day (DWPD)	0.19 (3 yrs)
Note	Speed may vary due to host hardware, software, usage, and storage capacity.

Warranty

Certificate	CE/FCC/BSMI/KC/RCM
Warranty	Three-year Limited Warranty

Ordering Information

500GB	TS500GSSD220Q
1TB	TS1TSSD220Q
2TB	TS2TSSD220Q

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

	 SATA III 6Gb/s SSD220Q	 SATA III 6Gb/s SSD230S	 SATA III 6Gb/s SSD220S	 SATA III 6Gb/s SSD370S
Appearance				
Dimensions	100 mm x 69.85 mm x 6.8 mm (3.94" x 2.75" x 0.28")			
Weight	45 g (1.59 oz)	53 g (1.87 oz)	45 g (1.59 oz)	57 g (2.01 oz)
Storage				
Flash Type	QLC NAND flash	3D NAND flash	3D NAND flash	MLC NAND flash
Capacity	500GB ~ 2TB	128GB ~ 2TB	120GB ~ 960GB	32GB ~ 1TB
Operating Environment				
Operating Temperature	0°C (32°F) ~ 70°C (158°F)			
Performance				
Sequential Read/Write (CrystalDiskMark)	550 MB/s 500 MB/s	560 MB/s 520 MB/s	550 MB/s 500 MB/s	530 MB/s 460 MB/s
4K Random Read/Write (IOmeter)	81,000 IOPS 80,000 IOPS	85,000 IOPS 89,000 IOPS	65,000 IOPS 75,000 IOPS	75,000 IOPS 75,000 IOPS
Mean Time Between Failures (MTBF)	2,000,000 hour(s)	2,000,000 hour(s)	2,000,000 hour(s)	2,000,000 hour(s)
Terabytes Written (TBW)	400 TB	1,120 TB	320 TB	2,940 TB
Drive Writes Per Day (DWPD)	0.19 (3 yrs)	0.3 (5 yrs)	0.3 (3 yrs)	2.5 (3 yrs)
Warranty				
Warranty	Three-year Limited 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.