SATA III M.2 Solid State Drive

M.2 SSD 800S

Transcend's SATA III 6Gb/s M.2 SSD 800S boasts ultra compact dimensions to address the high performance needs and strict size limitations of small form factor devices, best suited for Ultrabooks and thin, light notebooks. Featuring a powerful controller, exceptional transfer speeds, and MLC NAND flash memory, the M.2 SSD 800S easily handles everyday computing tasks as well as demanding multimedia applications, delivering steadfast reliability.
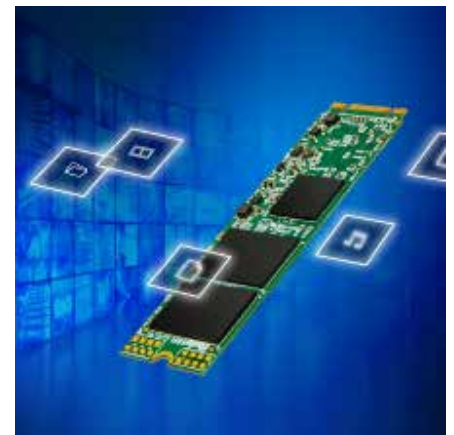
Perfect for your Ultrabook

Measured at just 80mm in length, the M.2 SSD 800S makes for an easy upgrade to your computer, taking up little space while giving it a much needed energy boost.

Superior transfer speeds

Transcend's M.2 SSD 800S reaches incredible read and write speeds of up to 500MB/s and 150MB/s. When used as a cache, the M.2 SSD 800S provides 1.5 times faster boot time than conventional hard drives.

Store more in less space

The M.2 form factor enables expansion and integration of functions onto a single form factor module solution. M.2 SSDs include a smaller form factor but with larger capacities than that of mSATA and half-slim SSDs.

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Features

· Space-saving M.2 Type 2280 form factor
· Up to 128GB storage capacity
· Up to 500 MB/s read; 150 MB/s write
· MLC NAND flash memory and DDR3 DRAM cache
· Supports DevSleep ultra low power state, S.M.A.R.T., TRIM, and NCQ commands

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.

Specifications

Appearance

Dimensions	80.0 mm x 22.0 mm x 3.58 mm (3.15" x 0.87" x 0.14")
Weight	9 g (0.32 oz)

Interface

Bus Interface	SATA III 6Gb/s

Storage

Flash Type	MLC NAND flash
Capacity	32 GB/64 GB/128 GB

Operating Environment

Operating Temperature	0°C (32°F) ~ 70°C (158°F)
Operating Voltage	3.3V±5%

Performance

Sequential Read/Write (CrystalDiskMark)	Read: 500 MB/s Write: 150 MB/s
4K Random Read/Write (IOmeter)	Read: 65,000 IOPS Write: 40,000 IOPS
Mean Time Between Failures (MTBF)	1,500,000 hour(s)
Terabytes Written (TBW)	300 TB
Drive Writes Per Day (DWPD)	2 (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

32GB	TS32GMTS800S
64GB	TS64GMTS800S
128GB	TS128GMTS800S

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.

SATA III M.2 SSDs Comparison

	SATA III 6Gb/s M.2 SSD 400S	SATA III 6Gb/s M.2 SSD 600	SATA III 6Gb/s M.2 SSD 800S
Appearance			
Dimensions	42.0 mm x 22.0 mm x 3.58 mm (1.65" x 0.87" x 0.14")	60.0 mm x 22.0 mm x 3.58 mm (2.36" x 0.87" x 0.14")	80.0 mm x 22.0 mm x 3.58 mm (3.15" x 0.87" x 0.14")
Weight	5 g (0.18 oz)	7 g (0.25 oz)	9 g (0.32 oz)
Storage			
Flash Type	MLC NAND flash		
Capacity	32GB ~ 128GB	32GB ~ 512GB	32GB ~ 128GB
Operating Environment			
Operating Temperature	0°C (32°F) ~ 70°C (158°F)		
Performance			
Sequential Read/Write (CrystalDiskMark)	Read: 500 MB/s Write: 150 MB/s	Read: 520 MB/s Write: 460 MB/s	Read: 500 MB/s Write: 150 MB/s
4K Random Read/Write (IOmeter)	Read: 70,000 IOPS Write: 40,000 IOPS	Read: 75,000 IOPS Write: 75,000 IOPS	Read: 65,000 IOPS Write: 40,000 IOPS
Mean Time Between Failures (MTBF)	1,500,000 hour(s)		
Terabytes Written (TBW)	300 TB	1,480 TB	300 TB
Drive Writes Per Day (DWPD)	2 (3 yrs)	2.6 (3 yrs)	2 (3 yrs)
Warranty			
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.