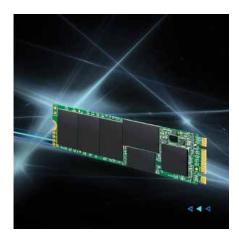






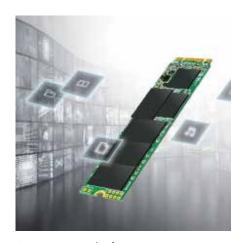
Single-sided to fit perfectly in small form factor devices

Compliant with M.2 form factor Type 2280, Transcend's 3D NAND M.2 SSD 832S is just 80mm in length and comes in a single-sided layout - meaning that only one side of the SSD has components attached to it - making the 832S the perfect solution for small form factor laptops and ultra-light PCs.



Superior transfer speeds

Featuring the M.2 standard (80mm), the next generation SATA III 6Gb/s interface and a powerful controller, Transcend's M.2 SSD 832S reaches incredible read and write speeds of up to 560MB/s and 500MB/s. When used as a cache, the M.2 SSD 832S 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.





SATA III M.2 Solid State Drive

M.2 SSD 832S

Features

- · Space-saving M.2 Type 2280 form factor
- · Up to 560 MB/s read; 500 MB/s write
- · 3D NAND flash memory
- RAID engine and LDPC coding for data integrity; DDR3 DRAM cache for short access times
- Supports S.M.A.R.T., TRIM, and NCQ commands

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.

Specifications

Appe	eara	ince
Dimen	sion	ıs

Weight 9 g (0.32 oz)

Interface

Bus Interface SATA III 6Gb/s

Storage

Flash Type 3D NAND flash

80.0 mm x 22.0 mm x 2.23 mm (3.15" x 0.87" x 0.09")

Operating Environment

Operating Temperature $0^{\circ}\text{C } (32^{\circ}\text{F}) \sim 70^{\circ}\text{C } (158^{\circ}\text{F})$ Operating Voltage $3.3\text{V}\pm5\%$

256 GB/512 GB/1 TB

Performance

Capacity

Read: 560 MB/s Sequential Read/Write (CrystalDiskMark, max.) Write: 500 MB/s Read: 85,000 IOPS 4K Random Read/Write (IOmeter, max.) Write: 85,000 IOPS Mean Time Between Failures 2,000,000 hour(s) (MTBF) Terabytes Written (Max.) 560 TB Drive Writes Per Day 0.3 (5 yrs) (DWPD)

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

256GB	TS256GMTS832S
512GB	TS512GMTS832S
1TB	TS1TMTS832S

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	1250-022 1000 -	15 m 22 m	3) The state of th	1 [1 = 0.00]	1000		
	SATA III 6Gb/s M.2 SSD 420S	SATA III 6Gb/s M.2 SSD 430S	SATA III 6Gb/s M.2 SSD 820S	SATA III 6Gb/s M.2 SSD 830S	SATA III 6Gb/s M.2 SSD 832S		
Appearance							
Dimensions	42.0 mm x 22.0 mm x 3.88 mm (1.65" x 0.87" x 0.15")	42.0 mm x 22.0 mm x 3.58 mm (1.65" 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")	80.0 mm x 22.0 mm x 3.58 mm (3.15" x 0.87" x 0.14")	80.0 mm x 22.0 mm x 2.23 mm (3.15" x 0.87" x 0.09")		
Weight	5 g (0.18 oz)	5 g (0.18 oz)	9 g (0.32 oz)	9 g (0.32 oz)	9 g (0.32 oz)		
Storage							
Flash Type	3D NAND flash						
Capacity	120GB ~ 240GB	128GB ~ 512GB	120GB ~ 960GB	128GB ~ 2TB	256GB ~ 1TB		
Operating Environment							
Operating Temperature	0°C (32°F) ~ 70°C (158°F)						
Performance							
Sequential Read/Write (CrystalDiskMark, max.)	Read: 500 MB/s Write: 500 MB/s	Read: 560 MB/s Write: 500 MB/s	Read: 550 MB/s Write: 500 MB/s	Read: 560 MB/s Write: 520 MB/s	Read: 560 MB/s Write: 500 MB/s		
4K Random Read/Write (IOmeter, max.)	Read: 40,000 IOPS Write: 75,000 IOPS	Read: 80,000 IOPS Write: 85,000 IOPS	Read: 70,000 IOPS Write: 75,000 IOPS	Read: 90,000 IOPS Write: 85,000 IOPS	Read: 85,000 IOPS Write: 85,000 IOPS		
Mean Time Between Failures (MTBF)	1,000,000 hour(s)	1,000,000 hour(s)	1,000,000 hour(s)	2,000,000 hour(s)	2,000,000 hour(s)		
Terabytes Written (Max.)	80 TB	280 TB	320 TB	1,120 TB	560 TB		
Drive Writes Per Day (DWPD)	0.3 (3 yrs)	0.3 (5 yrs)	0.3 (3 yrs)	0.3 (5 yrs)	0.3 (5 yrs)		
Warranty							
Warranty	Three-year Limited Warranty	Five-year Limited Warranty	Three-year Limited Warranty	Five-year Limited Warranty	Five-year Limited Warranty		
Technology							
TRIM & NCQ Command S.M.A.R.T.	<u> </u>	<u> </u>	<u> </u>				
DDR3 DRAM Cache	_		<u> </u>				
Advanced Garbage Collection							
RAID Engine	·						
LDPC Coding	·	·	·	· /	·		

 $[\]mbox{*Speed}$ may vary due to host hardware, software, usage, and storage capacity.