





Perfect for your Ultrabook

Measured at just 80mm in length, the M.2 SSD 830S makes for an easy upgrade to your computer, taking up little space while giving it a much needed energy boost.



M.2 SSD 830S delivers optimal reliability.

Superior transfer speeds

Transcend's M.2 SSD 830S reaches incredible read and write speeds of up to 560MB/s and 520MB/s. When used as a cache, the M.2 SSD 830S 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 830S

Features

- · Space-saving M.2 Type 2280 form factor
- \cdot Up to 560 MB/s read; 520 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

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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	3D NAND flash
Capacity	128 GB/256 GB/512 GB/1 TB/2 TB

Operating Environment

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

Performance

Sequential Read/Write	Read: 560 MB/s
(CrystalDiskMark, max.)	Write: 520 MB/s
4K Random Read/Write	Read: 90,000 IOPS
(IOmeter, max.)	Write: 85,000 IOPS
Mean Time Between Failures (MTBF)	2,000,000 hour(s)
Terabytes Written (Max.)	1,120 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/KC/RCM
Warranty	Five-year Limited Warranty

Ordering Information

128GB	TS128GMTS830S
256GB	TS256GMTS830S
512GB	TS512GMTS830S
1TB	TS1TMTS830S
2TB	TS2TMTS830S

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	135-22 37-4-14 37-4-14	Reality Research	All the state of t		15. min. 15.		
	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 ~ 480GB	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)	Read: 530 MB/s Write: 480 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)	Read: 50,000 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)	2,000,000 hour(s)	2,000,000 hour(s)	2,000,000 hour(s)	2,000,000 hour(s)	2,000,000 hour(s)		
Terabytes Written (TBW)	160 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.	~	✓	✓	~	✓		
DDR3 DRAM Cache	-	✓	-	✓	~		
Advanced Garbage Collection	~	~	~	✓	~		
RAID Engine	~	~	~	~	~		
LDPC Coding	✓	✓	✓	✓	~		

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