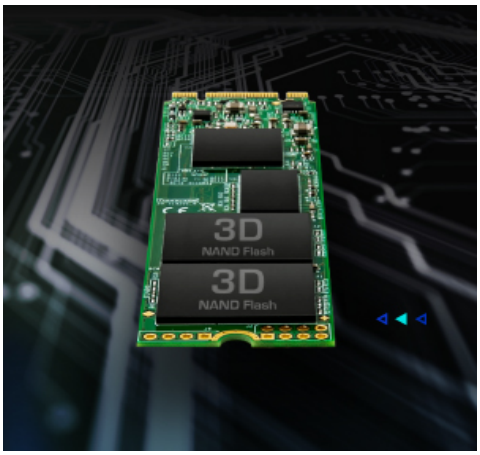
SATA III M.2 SSDs

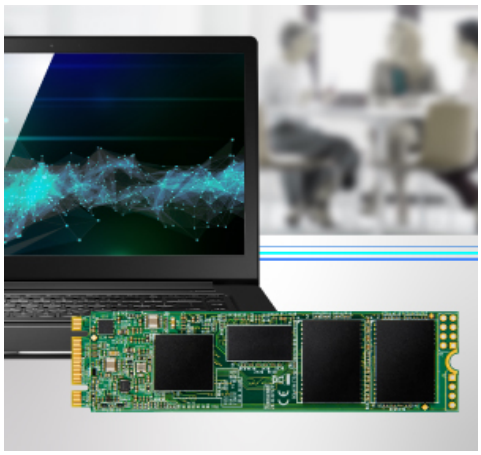
M.2 SSD 830S

Transcend's ultra-compact SATA III 6Gb/s M.2 SSD 830S addresses the high-performance needs and strict size limitations of small form factor devices, best suited for Ultrabooks and thin, light notebooks. Boasting high-quality flash chips, DDR3 DRAM cache, and enhanced firmware algorithms, Transcend's M.2 SSD 830S delivers optimal reliability.



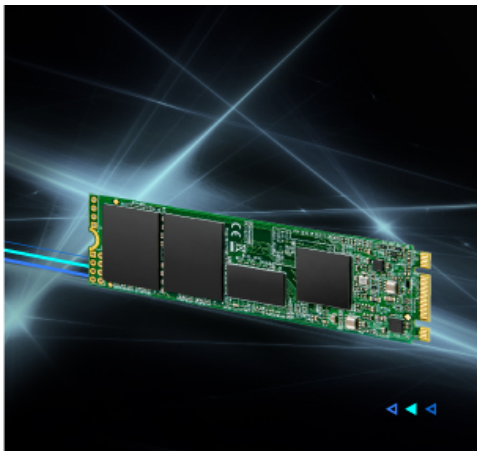
3D expansion to break through limits

Unlike the existing planar NAND chips, 3D NAND flash is a type of flash memory in which the memory cells are stacked vertically in multiple layers. 3D NAND is developed to break through density limitations of the 2D planar NAND, and thus can deliver a greater level of performance and endurance.



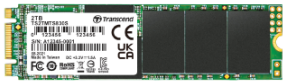
Perfect for your Ultrabook

Compliant with M.2 form factors Type 2242 and 2280, Transcend's 3D NAND M.2 SSDs are perfect for use in Ultrabooks and lightweight notebooks. 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.



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 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.



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M.2 SSD 830S

Features

- Space-saving M.2 Type 2280 form factor
- 3D NAND flash
- Engineered with a RAID engine and LDPC (Low-Density Parity Check) coding to ensure data integrity
- DDR3 DRAM cache shortens access times
- ECC (Error Correction Code) function and wear-leveling algorithm ensure reliable data transfers

SSD Scope

SSD Scope features useful functions to maintain your SSD in a healthy status and also copy data from your original HDD to Transcend's new SSD.

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)
Type	M.2 2280

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

Read Speed (Max.)	up to 560 MB/s
Write Speed (Max.)	up to 520 MB/s
Mean Time Between Failures (MTBF)	2,000,000 hour(s)
Drive Writes Per Day (DWPD)	0.3 (5 yrs)
Terabytes Written (TBW)	up to 1,120 TBW
Note	Speed may vary due to host hardware, software, usage, and storage capacity. The workload used to rate DWPD may be different from your actual workload, which may vary due to host hardware, software, usage, and storage capacity. Terabytes Written (TBW) expresses the endurance under the highest 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. Total accessible capacity varies depending on operating environment.