



SATA III M.2 SSDs
M.2 SSD 820S

Transcend's ultra-compact SATA III 6Gb/s M.2 SSD 820S 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 and enhanced firmware algorithms, Transcend's M.2 SSD 820S delivers optimal reliability.



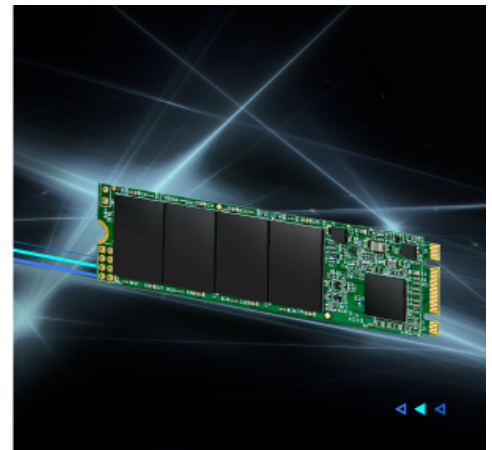
3D expansion to break through limits

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 820S 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 820S reaches incredible read and write speeds of up to 550MB/s and 500MB/s. When used as a cache, the M.2 SSD 820S provides 1.5 times faster boot time than conventional hard drives.



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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
- Built-in SLC caching technology for exceptional transfer speeds



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
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Storage

Flash Type	3D NAND flash
Capacity	120 GB / 240 GB / 480 GB / 960 GB

Operating Environment

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

Performance

Read Speed (Max.)	up to 550 MB/s
Write Speed (Max.)	up to 500 MB/s
Mean Time Between Failures (MTBF)	2,000,000 hour(s)
Drive Writes Per Day (DWPD)	0.3 (3 yrs)
Terabytes Written (TBW)	up to 320 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	Three-year Limited Warranty

Ordering Information

120GB	TS120GMTS820S
240GB	TS240GMTS820S
480GB	TS480GMTS820S
960GB	TS960GMTS820S

Product specifications are subject to change without notice. Pictures shown may differ from actual products. Total accessible capacity varies depending on operating environment.