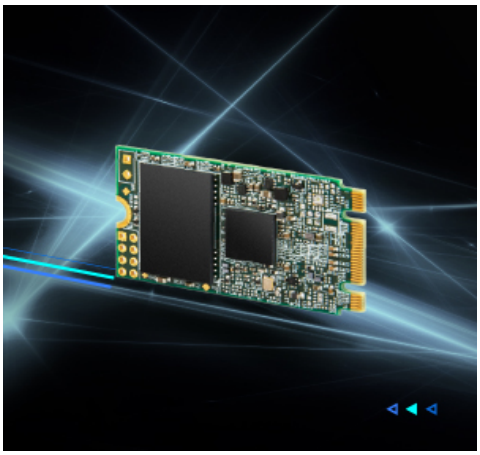
SATA III M.2 SSDs

M.2 SSD 425S

Transcend's SATA III 6Gb/s M.2 SSD 425S comes with a small form factor and high-quality 3D NAND flash, upgrading your Ultrabooks and laptops in a snap. The SSD is designed with multiple firmware optimization technologies like SLC caching and LDPC ECC mechanism, which enhance the storage reliability and prolong the drive lifespan. A great difference can be made with a small upgrade.

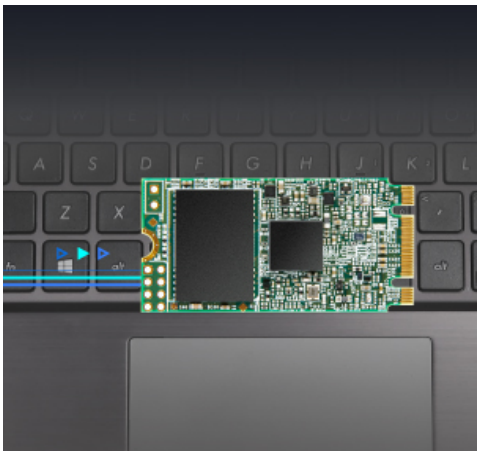


Unparalleled performance

Featuring the M.2 standard (42mm), the mainstream SATA III 6Gb/s interface and a powerful controller, Transcend's M.2 SSD 425S reaches incredible read and write speeds of up to 550MB/s and 500MB/s, providing 1.5 times faster boot time than conventional hard drives.

Designed for slim devices

The height of the M.2 SSD 425S is only 42mm, making it ideal for Ultrabooks and lightweight notebooks. Thinner and lighter than normal hard drives, the M.2 SSD 425S gives your computer a much needed boost while saving space!



Respond fast

Dedicated to maximizing high-performance computing, the M.2 SSD 425S features 4k random file read and write speeds of up to 75,000 IOPS. It delivers incredibly short loading times and an almost instant response for heavy graphics and multimedia applications.

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Features

- Built-in SLC caching technology for exceptional transfer speeds
- Engineered with a RAID engine and LDPC (Low-Density Parity Check) coding to ensure data integrity
- Space-saving M.2 Type 2242 form factor

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	42.0 mm x 22.0 mm x 3.58 mm (1.65" x 0.87" x 0.14")
Weight	5 g (0.18 oz)
Type	M.2 2242

Interface

Bus Interface	SATA III 6Gb/s

Storage

Flash Type	3D NAND flash
Capacity	250GB / 500 GB / 1 TB

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
4K Random Read/Write (IOmeter)	Read: up to 55,000 IOPS Write: up to 75,000 IOPS
Mean Time Between Failures (MTBF)	2,000,000 hour(s)
Drive Writes Per Day (DWPD)	0.3 (3 yrs)
Terabytes Written (TBW)	up to 360 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. For Mac users please visit our Apple Solutions here.

Warranty

Certificate	CE / FCC / BSMI / KC / RCM / UKCA
Warranty	Three-year Limited Warranty

Ordering Information

250GB	TS250GMTS425S
500GB	TS500GMTS425S
1TB	TS1TMTS425S

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

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