



SATA III M.2 Solid State Drive

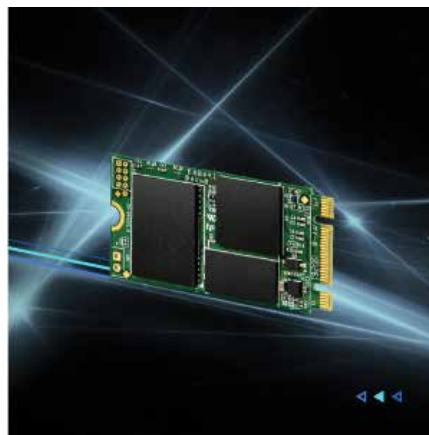
## M.2 SSD 430S

Transcend's ultra-compact SATA III 6Gb/s M.2 SSD 430S 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 430S delivers optimal reliability.



### Perfect for your Ultrabook

Measured at just 42mm in length, the M.2 SSD 430S makes for an easy upgrade to your computer, taking up little space while giving it a much needed energy boost.



### Superior transfer speeds

Transcend's M.2 SSD 430S reaches incredible read and write speeds of up to 560MB/s and 500MB/s. When used as a cache, the M.2 SSD 430S 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.



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# M.2 SSD 430S

### Features

- Space-saving M.2 Type 2242 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



### 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

#### Appearance

Dimensions (Max.)	42.0 mm x 22.0 mm x 3.58 mm (1.65" x 0.87" x 0.14")
Weight (Max.)	5 g (0.18 oz)

#### Interface

Bus Interface	SATA III 6Gb/s
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#### Storage

Flash Type	3D NAND flash
Capacity	128 GB/256 GB/512 GB

#### Operating Environment

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

#### Performance

Sequential Read/Write (CrystalDiskMark, max.)	Read: 560 MB/s Write: 500 MB/s
4K Random Read/Write (IOMeter, max.)	Read: 80,000 IOPS Write: 85,000 IOPS
Mean Time Between Failures (MTBF)	2,000,000 hour(s)
Terabytes Written (Max.)	280 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	TS128GMTS430S
256GB	TS256GMTS430S
512GB	TS512GMTS430S

## SATA III M.2 SSDs Comparison

					
	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
<b>Appearance</b>					
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)
<b>Storage</b>					
Flash Type	3D NAND flash				
Capacity	120GB ~ 480GB	128GB ~ 512GB	120GB ~ 960GB	128GB ~ 2TB	256GB ~ 1TB
<b>Operating Environment</b>					
Operating Temperature	0°C (32°F) ~ 70°C (158°F)				
<b>Performance</b>					
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)
<b>Warranty</b>					
Warranty	Three-year Limited Warranty	Five-year Limited Warranty	Three-year Limited Warranty	Five-year Limited Warranty	Five-year Limited Warranty
<b>Technology</b>					
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.