Transcend®

www.transcend-info.com

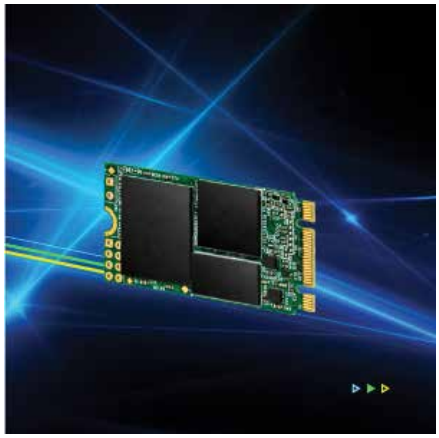
SATA III M.2 Solid State Drive

M.2 SSD 400S

Transcend's SATA III 6Gb/s M.2 SSD 400S boasts ultra compact dimensions to address the high performance needs and strict size limitations of small form factor devices, best suited for Ultrabooks and thin, light notebooks. Featuring a powerful controller, exceptional transfer speeds, and MLC NAND flash memory, the M.2 SSD 400S easily handles everyday computing tasks as well as demanding multimedia applications, delivering steadfast reliability.

Perfect for your Ultrabook

Compliant with all M.2 form factors from Type 2242, 2260, to 2280, Transcend's MLC M.2 SSDs are perfect for use in Ultrabooks and lightweight notebooks. Measured at just 42mm in length, the M.2 SSD 400S 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 400S reaches incredible read and write speeds of up to 500MB/s and 450MB/s. When used as a cache, the M.2 SSD 400S 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 400S

Features

- Space-saving M.2 Type 2242 form factor
- Up to 512GB storage capacity
- Up to 500 MB/s read; 450 MB/s write
- MLC NAND flash memory and DDR3 DRAM cache
- Supports DevSleep ultra low power state, 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

Storage

Flash Type	MLC NAND flash
Capacity	32 GB/64 GB/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 (ATTO, max.)	Read: 500 MB/s Write: 450 MB/s
Sequential Read/Write (CrystalDiskMark, max.)	Read: 500 MB/s Write: 450 MB/s
4K Random Read/Write (IOmeter, max.)	Read: 70,000 IOPS Write: 70,000 IOPS
Mean Time Between Failures (MTBF)	1,500,000 hour(s)
Terabytes Written (Max.)	1,100 TB
Drive Writes Per Day (DWPD)	2 (3 yrs)

Note

Speed may vary due to host hardware, software, usage, and storage capacity.

Warranty

Certificate	CE/FCC/BSMI
Warranty	Three-year Limited Warranty

Ordering Information

32GB	TS32GMTS400S
64GB	TS64GMTS400S
128GB	TS128GMTS400S
256GB	TS256GMTS400S
512GB	TS512GMTS400S

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

SATA III 6Gb/s
M.2 SSD 400S

SATA III 6Gb/s
M.2 SSD 600

SATA III 6Gb/s
M.2 SSD 800S

Appearance			
Dimensions (Max.)	42.0 mm x 22.0 mm x 3.58 mm (1.65" x 0.87" x 0.14")	60.0 mm x 22.0 mm x 3.58 mm (2.36" 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")
Weight (Max.)	5 g (0.18 oz)	7 g (0.25 oz)	9 g (0.32 oz)
Storage			
Flash Type	MLC NAND flash		
Capacity	32GB ~ 512GB	32GB ~ 512GB	32GB ~ 1TB
Operating Environment			
Operating Temperature	0°C (32°F) ~ 70°C (158°F)		
Performance			
Sequential Read/Write (ATTO, max.)	Read: 500 MB/s Write: 450 MB/s	Read: 550 MB/s Write: 460 MB/s	Read: 500 MB/s Write: 450 MB/s
Sequential Read/Write (CrystalDiskMark, max.)	Read: 500 MB/s Write: 450 MB/s	Read: 520 MB/s Write: 460 MB/s	Read: 500 MB/s Write: 430 MB/s
4K Random Read/Write (IOmeter, max.)	Read: 70,000 IOPS Write: 70,000 IOPS	Read: 75,000 IOPS Write: 75,000 IOPS	Read: 70,000 IOPS Write: 75,000 IOPS
Mean Time Between Failures (MTBF)	1,500,000 hour(s)		
Terabytes Written (Max.)	1,100 TB	1,100 TB	2,360 TB
Drive Writes Per Day (DWPD)	2 (3 yrs)		
Warranty			
Warranty	Three-year Limited Warranty		
Technology			
TRIM & NCQ Command	✓	✓	✓
S.M.A.R.T.	✓	✓	✓
DDR3 DRAM Cache	✓	✓	✓
Advanced Garbage Collection	✓	✓	✓
DevSleep Mode	✓	✓	✓
RAID Engine	-	-	-
LDPC Coding	-	-	-

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