





Perfect for your Ultrabook

Measured at just 42mm in length, the M.2 SSD 420S makes for an easy upgrade to your computer, taking up little space while giving it a much needed energy boost.



delivers optimal reliability.

Superior transfer speeds

Transcend's M.2 SSD 420S reaches incredible read and write speeds of up to 500MB/s and 430MB/s. When used as a cache, the M.2 SSD 420S 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.





SATA III M.2 Solid State Drive

M.2 SSD 420S

Features

- · Space-saving M.2 Type 2242 form factor
- · Up to 500 MB/s read; 430 MB/s write
- · 3D NAND flash memory
- RAID engine and LDPC coding for data integrity; DDR3 DRAM cache for short access times
- Supports DevSleep ultra low power state,
 S.M.A.R.T., TRIM, and NCQ commands

Transcend

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

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Dimensions (Max.) 42.0 mm x 22.0 mm x 3.88 mm (1.65" x 0.87" x 0.15")

Weight (Max.) 5 g (0.18 oz)

Interface

Bus Interface SATA III 6Gb/s

Storage

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

Operating Environment

Operating Temperature $0^{\circ}\text{C} (32^{\circ}\text{F}) \sim 70^{\circ}\text{C} (158^{\circ}\text{F})$

Operating Voltage 3.3V±5%

Performance

Sequential Read/Write Read: 500 MB/s

(CrystalDiskMark, max.) Write: 430 MB/s

4K Random Read/Write Read: 40,000 IOPS (IOmeter, max.) Write: 75,000 IOPS

Mean Time Between Failures 1,000,000 hour(s)

(MTBF)
Terabytes Written (Max.) 80 TB

Drive Writes Per Day 0.3 (3 yrs) (DWPD)

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

120GB	TS120GMTS420S
240GB	TS240GMTS420S

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 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					
Appearance									
Dimensions (Max.)	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")					
Weight (Max.)	5 g (0.18 oz)	5 g (0.18 oz)	9 g (0.32 oz)	9 g (0.32 oz)					
Storago									
Storage Flash Type	3D NAND flash								
Capacity	120GB ~ 240GB	128GB ~ 512GB	120GB ~ 960GB	128GB ~ 1TB					
Operating Environment Operating Temperature		0°C (32°F) ~	70°C (158°F)						
Performance			,						
Sequential Read/Write (CrystalDiskMark, max.)	Read: 500 MB/s Write: 500 MB/s	Read: 560 MB/s Write: 500 MB/s	Read: 550 MB/s Write: 500 MB/s	Read: 560 MB/s Write: 500 MB/s					
4K Random Read/Write (IOmeter, max.)	Read: 40,000 IOPS Write: 75,000 IOPS	Read: 80,000 IOPS Write: 85,000 IOPS	Read: 70,000 IOPS Write: 75,000 IOPS	Read: 85,000 IOPS Write: 85,000 IOPS					
Mean Time Between Failures (MTBF)	1,000,000 hour(s)								
Terabytes Written (Max.)	80 TB	280 TB	320 TB	560 TB					
Drive Writes Per Day (DWPD)	0.3 (3 yrs)	0.3 (5 yrs)	0.3 (3 yrs)	0.3 (5 yrs)					
Warranty									
Warranty	Three-year Limited Warranty	Five-year Limited Warranty	Three-year Limited Warranty	Five-year Limited Warranty					
Technology									
TRIM & NCQ Command	✓	✓	✓	✓					
S.M.A.R.T.	✓	✓	✓	~					
DDR3 DRAM Cache	-	~	-	✓					
Advanced Garbage Collection	✓	✓	✓	~					
DevSleep Mode	✓	✓	✓	<u> </u>					
RAID Engine	✓	~	~	~					
LDPC Coding	~	✓	✓	✓					

 $[\]mbox{*Speed}$ may vary due to host hardware, software, usage, and storage capacity.