mSATA Solid State Drive
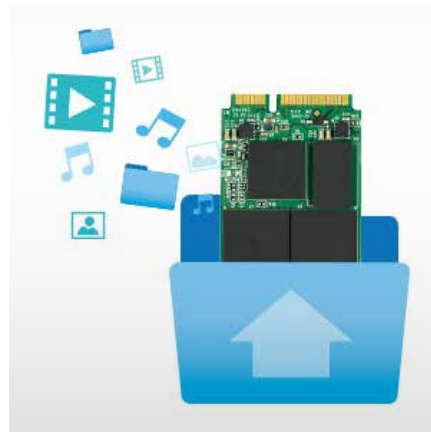
mSATA SSD 370S

Supporting the next-generation Serial ATA interface and built around a powerful controller, Transcend's SATA III 6Gb/s mSATA SSD 370S delivers blazing fast performance and long-term reliability. The compact mSATA form factor makes it perfect for use in space-restricted portable devices such as Ultrabooks, tablet PCs, and slim servers.
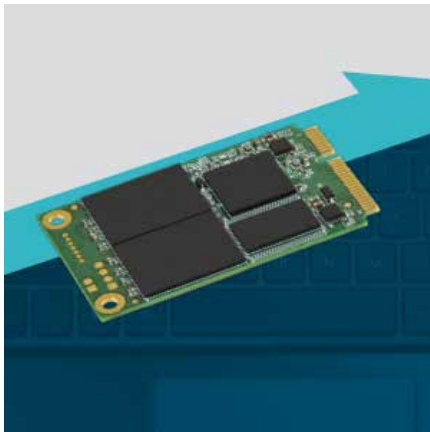
Superior upgrade option

All the speed is back and even faster. By using SATA III 6Gb/s interface, DDR3 DRAM cache, and a powerful controller, the Transcend mSATA SSD 370S provides the ultra-fast transfer speeds of up to 530MB/s read and 400MB/s write, pursuing the great experience in faster boot time and application launching time.

Up to 256GB capacity

The mSATA SSD 370S ranges from 32GB to 256GB, giving you more options to suit your demand while storing large multimedia files and applications in faster speed.

Speed up loading times

Dedicated to maximizing high-performance computing, the mSATA SSD 370S features maximum 4K random file read 70,000 IOP that delivers incredibly short loading times and almost instant response for heavy graphics and multimedia applications.

mSATA Solid State Drive

mSATA SSD 370S

Features

· mSATA form factor and SATA III 6Gb/s interface
· Up to 530MB/s read; 400MB/s write
· MLC NAND flash memory
· Built-in ECC (Error Correction Code) function and wear-leveling algorithm to ensure reliable data transfers
· 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	50.8 mm x 29.85 mm x 4.85 mm (2.00" x 1.18" x 0.19")
Weight	8 g (0.28 oz)

Interface

Bus Interface	SATA III 6Gb/s

Storage

Flash Type	MLC NAND flash
Capacity	32 GB/64 GB/128 GB/256 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: 530 MB/s Write: 400 MB/s
4K Random Read/Write (IOmeter, max.)	Read: 70,000 IOPS Write: 70,000 IOPS
Mean Time Between Failures (MTBF)	2,000,000 hour(s)
Terabytes Written (Max.)	740 TB
Drive Writes Per Day (DWPD)	2.5 (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	TS32GMSA370S
64GB	TS64GMSA370S
128GB	TS128GMSA370S
256GB	TS256GMSA370S

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.

mSATA SSDs Comparison

	SATA III 6Gb/s mSATA SSD 370S	SATA III 6Gb/s mSATA SSD 230S
Appearance		
Dimensions (Max.)	50.8 mm x 29.85 mm x 4.85 mm (2.00" x 1.18" x 0.19")	
Weight (Max.)	8 g (0.28 oz)	9 g (0.32 oz)
Storage		
Flash Type	MLC NAND flash	3D NAND flash
Capacity	32GB ~ 256GB	64GB ~ 256GB
Operating Environment		
Operating Temperature	0°C (32°F) ~ 70°C (158°F)	
Performance		
Sequential Read/Write (CrystalDiskMark, max.)	Read: 320 MB/s Write: 400 MB/s	Read: 550 MB/s Write: 400 MB/s
4K Random Read/Write (IOmeter, max.)	Read: 70,000 IOPS Write: 70,000 IOPS	Read: 55,000 IOPS Write: 70,000 IOPS
Mean Time Between Failures (MTBF)	2,000,000 hour(s)	2,000,000 hour(s)
Terabytes Written (Max.)	740 TB	160 TB
Drive Writes Per Day (DWPD)	2.5 (3 yrs)	0.5 (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.