

## Embedded Solutions



mSATA SSDs

# SATA III 6Gb/s MSA370I

Wide Temperature

Supporting the next-generation Serial ATA interface and built around a powerful controller, Transcend's SATA III 6Gb/s MSA370I mSATA SSDs deliver blazing-fast performance and long-term reliability. The compact mSATA form factor is just one-eighth the size of a standard 2.5" SSD, making it perfect for use in space-constricted portable devices such as ultrabooks, tablet PCs, and slim servers.

## Features

- RoHS compliant
- Advanced Global Wear-leveling and Block management for reliability
- Built-in ECC (Error Correction Code) functionality
- DDR3 DRAM cache
- Supports Advanced Garbage Collection, Enhanced S.M.A.R.T. function, Security Command, and Device Sleep Mode (DevSleep)
- Supports Trim and NCQ command
- Compliant with JEDEC MO-300
- MLC NAND Flash

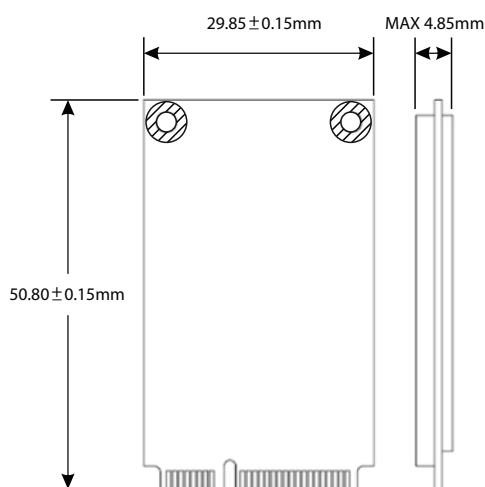
## Ordering Information

16GB	TS16GMSA370I
32GB	TS32GMSA370I
64GB	TS64GMSA370I
128GB	TS128GMSA370I
256GB	TS256GMSA370I
512GB	TS512GMSA370I

## Specifications

Appearance	Dimensions (Max.)	50.8 mm x 29.85 mm x 4.85 mm (2" x 1.18" x 0.19")
	Weight (Max.)	8 g (0.28 oz)
	mSATA Type	MO-300
	Pin	52 pin
	Form Factor	mSATA
Interface	Bus Interface	SATA III 6Gb/s
Storage	Flash Type	MLC NAND flash
	Capacity	16 GB/32 GB/64 GB/128 GB/256 GB/512 GB
Operating Environment	Operating Voltage	3.3V±5%
	Operating Temperature	-40°C (-40°F) ~ 85°C (185°F)
	Storage Temperature	-40°C (-40°F) ~ 85°C (185°F)
	Humidity	0% ~ 95%
	Shock	1500 G, 0.5 ms, 3 axis
	Vibration (Operating)	3 G (peak-to-peak), 5 Hz ~ 800 Hz (frequency)
Power	Vibration (Non-operating)	5 G (peak-to-peak), 5 Hz ~ 800 Hz (frequency)
	Power Consumption (Operation)	2.38 watt(s)
Performance	Power Consumption (Sleep)	0.3 watt(s)
	Sequential Read/Write (ATTO, max.)	Read: 570 MB/s; write: 460 MB/s
	Sequential Read/Write (CrystalDiskMark, max.)	Read: 520 MB/s; write: 470 MB/s
	4K Random Read/Write (IOMeter, max.)	Read: 70,000 IOPS; write: 75,000 IOPS
	Mean Time Between Failures (MTBF)	1,500,000 hour(s)
	Terabytes Written (Max.)	1,480 TB
Warranty	Drive Writes Per Day (DWPD)	2.2 (3 yrs)
	Certificate	CE/FCC/BSMI
Note	Warranty	Three-year Limited Warranty
	<ul style="list-style-type: none"> <li>• Speed may vary due to host hardware, software, usage, and storage capacity.</li> <li>• 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.</li> </ul>	

## Mechanical Dimensions



Product specifications are subject to change without notice. Pictures shown may differ from actual products. Total accessible capacity varies depending on operating environment. Due to the complexity and variety of industrial applications, Transcend cannot guarantee 100% compatibility with all platforms and under all scenarios. For special applications and environments, it is strongly suggested that you contact Transcend beforehand for clarification.



Please feel free to contact us with any special requests you might have.  
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