



mSATA

MSA372M & MSA372I

Supporting the Serial ATA interface and built around a powerful controller, Transcend's SATA III 6Gb/s MSA372M mSATA SSD delivers 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.

Transcend also offers the MSA372I with wide temperature (-40°C ~ 85°C) capabilities to ensure sustained functionality, enhanced endurance and optimal reliability in mission-critical applications.

Hardware

- DDR3 DRAM Cache embedded
- Compliant with RoHS 2.0 standards
- MLC NAND flash
- Compliant with JEDEC MO-300A
- Promised operational reliability in a wide temperature range (from -40°C to 85°C)

Firmware

- Advanced Global Wear-Leveling and Block management for reliability
- Built-in BCH ECC (Error Correction Code) functionality
- Supports S.M.A.R.T. function to conduct health monitoring, analysis, and reporting for storage devices
- Power-saving DevSleep (Device Sleep) mode
- Advanced Garbage Collection

Ordering Information

16GB	TS16GMSA372M TS16GMSA372I
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32GB	TS32GMSA372M TS32GMSA372I
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64GB	TS64GMSA372M TS64GMSA372I
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128GB	TS128GMSA372M TS128GMSA372I
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256GB	TS256GMSA372M TS256GMSA372I
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512GB	TS512GMSA372M TS512GMSA372I
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1TB	TS1TMSA372M
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Specifications

Appearance	Dimensions	50.8 mm x 29.85 mm x 4.85 mm (2" x 2.18" x 0.19")
	Weight	8 g (0.28 oz)
	mSATA Type	MO-300A
	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 / 1 TB
Operating Environment	Operating Voltage	3.3V±5%
	Operating Temperature	Standard 0°C (32°F) ~ 70°C (158°F) Wide Temp. -40°C (-40°F) ~ 85°C (185°F)
	Storage Temperature	-40°C (-40°F) ~ 85°C (185°F)
	Humidity	5% ~ 95%
	Shock	1500 G, 0.5 ms, 3 axis
	Vibration (Operating)	20 G (peak-to-peak), 7 Hz ~ 2,000 Hz (frequency)
Power	Power Consumption (Operation)	2.64 watt(s)
	Power Consumption (Sleep)	0.4 watt(s)
Performance	Sequential Read/Write (CrystalDiskMark)	Read: up to 550 MB/s Write: up to 450 MB/s
	4K Random Read/Write (IOMeter)	Read: up to 70,000 IOPS Write: up to 70,000 IOPS
	Mean Time Between Failures (MTBF)	2,500,000 hour(s)
	Terabytes Written (TBW)	up to 2360 TBW
	Drive Writes Per Day (DWPD)	2.6 (3 yrs)
Warranty	Certificate	CE / FCC / BSMI / UKCA
	Warranty	Three-year Limited Warranty

Mechanical Dimensions

