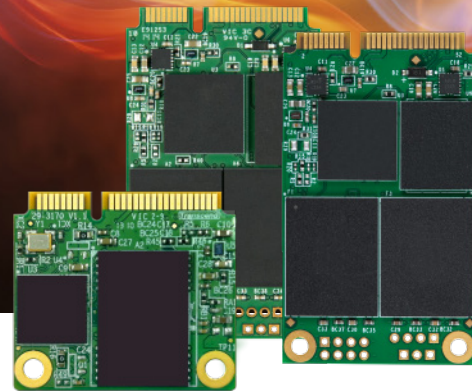




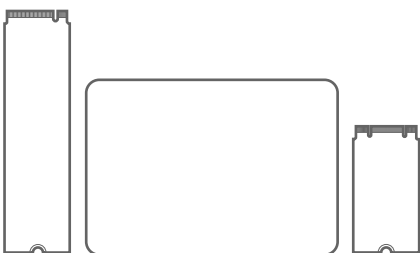
Embedded Solutions

mSATA SSD

Supporting the next-generation SATA interface and built around a powerful controller, Transcend's mSATA and mSATA mini 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. Fully compliant with mSATA specifications, Transcend's mSATA mini SSDs deliver the full performance benefits of SSD technology while measuring just 26.8 x 29.85 x 3.85 (mm) in size, making it ideal for use in small form factor devices.

Features

- Suitable for wide-temperature applications
- Supports Intel Smart Response Technology (ISRT) and DEVSLP mode (MSA370)
- SuperMLC technology allows MLC NAND to act as SLC NAND
- 3D NAND flash for write protect and hardware purge security functions
- Optional support for write protect and hardware purge security functions
- Supports AHCI mode, TRIM command, and NCQ



Specifications

	MSA450T	MSA370/MSA370I	MSA510	MSA570	MSA630	MSM360 (Mini)	MSM610 (Mini)
Interface	SATA III 6Gb/s				SATA II 3Gb/s	SATA III 6Gb/s	SATA II 3Gb/s
Flash Type	3D TLC	MLC	SuperMLC	SLC	MLC		
Connector	mSATA 52-pin						
Form Factor	MO-300						
Capacity	32GB~128GB	16GB~1TB	8GB~32GB	4GB~8GB	32GB	16GB~128GB	16GB~32GB
Sequential Read*	550 MB/s	570 MB/s	570 MB/s	300 MB/s	225MB/s	520 MB/s	150 MB/s
Sequential Write*	400 MB/s	470 MB/s	290 MB/s	130 MB/s	40 MB/s	220 MB/s	42 MB/s
Operating Temperature	0°C~70°C**						
Storage Temperature	-40°C~85°C						
Humidity	0%~95%						
Shock	1500G, 0.5ms, 3 axis						
Vibration	3G, 5Hz to 800Hz (operating) / 5G, 5Hz to 800Hz (non-operating)						
Operating Voltage	3.3V±5%						
Power Consumption	1.8W (active), 0.4W (idle)	2.6W (active), 0.4W (idle)	2.0W (active), 0.3W (idle)	1.5W (active), 0.4W (idle)	1.1W (active) 0.6W (idle)	2.0W (active), 0.3W (idle)	0.9W (active), 0.5W (idle)
Dimensions (max.)	50.8 x 29.85 x 4.85mm					26.8 x 29.85 x 3.85mm	
MTBF	1,500,000 hours					1,000,000 hours	
Warranty	Three-year Limited Warranty						

*Maximum performance shown. Performance varies by capacity, user hardware, and system configuration.

**Wide temperature (-40°C~85°C) available by request.

Ordering Information

MSA450T	TS32GMSA450T	32GB	MSA510	TS8GMSA510	8GB	MSM360 (mSATA mini SSD)	TS16GMSM360	16GB
	TS64GMSA450T	64GB		TS16GMSA510	16GB		TS32GMSM360	32GB
	TS128GMSA450T	128GB		TS32GMSA510	32GB		TS64GMSM360	64GB
MSA370/ MSA370I	TS16GMSA370	16GB	MSA570	TS4GMSA570	4GB		TS128GMSM360	128GB
	TS16GMSA370I	16GB		TS8GMSA570	8GB	MSM610 (mSATA mini SSD)	TS16GMSM610	16GB
	TS32GMSA370	32GB					TS32GMSM610	32GB
	TS32GMSA370I	32GB	MSA630	TS32GMSA630	32GB			
	TS64GMSA370	64GB						
	TS64GMSA370I	64GB						
	TS128GMSA370	128GB						
	TS128GMSA370I	128GB						
	TS256GMSA370	256GB						
	TS256GMSA370I	256GB						
	TS512GMSA370	512GB						
	TS512GMSA370I	512GB						
	TS1TMSA370	1TB						

Tailored Options Available



Intelligent Power Shield



AES Encryption



Underfill

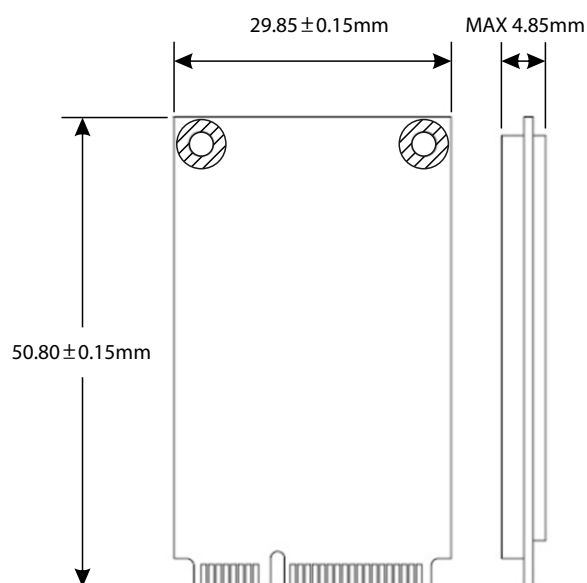


Conformal Coating

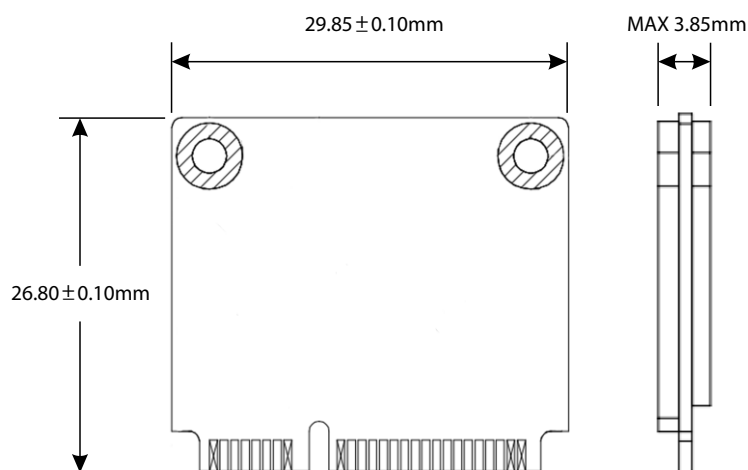


Mechanical Dimensions

MSA450T/MSA70/MSA370I/MSA510/MSA570/MSA630



MSM360/MSM610



Tailored Options Available



Intelligent Power Shield



AES Encryption



Underfill



Conformal Coating

