Datasheet

mSATA / mSATA mini SSD

Features

- Suitable for wide-temperature applications (industrial versions available upon request)
- Built-in Power Shield active monitoring circuit prevents data loss in the event of a sudden power outage (MSA520 not supported)
- Supports Intel® Smart Response Technology (ISRT) and DEVSLP (MSA370)
- SuperMLC technology of Transcend to make the MLC NAND act as high-speed SLC NAND (MSA510)
- Optional support for Write Protect and Hardware Purge security functions
- Supports AHCI mode, TRIM commands and NCQ

Introduction

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 SSD delivers the full performance benefits of SSD technology while measuring just 26.8 x 29.85 x 3.85mm, ideal for use in small form factor devices such as industrial PCs, tablets, ultra-light notebooks, vehicle PCs, road surveillance recording devices, and other embedded storage applications.



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Specifications

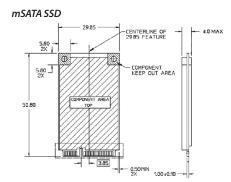
	MSA370I	MSA370	MSA510	MSM360	MSA570	MSA520	MSM610
Interface	SATA III 6Gb/s			′s	SATA II 3Gb/s		
Flash Type	MLC		SUPER MLC	MLC	SLC		MLC
Connector	mSATA 52-pin						
Form Factor	MO-300						
Capacity	32~64GB	16GB~1TB	32~64GB	16~128GB	4~16GB	4GB	8~32GB
Sequential Read*	570 MB/s			510 MB/s	570 MB/s	97 MB/s	170 MB/s
Sequential Write*		470 MB/s		160 MB/s	470 MB/s	87 MB/s	40 MB/s
Operating Temperature	-40°C~85°C 0°C~70°C**						
Storage Temperature	-40°C~85°C						
Humidity	0%~95%						
Shock	1,500G, 0.5ms, 3 axis						
Vibration	3G, 5Hz to 800Hz (Operating) / 5G, 5Hz to 800Hz (Non-Operating)						
Operating Voltage	3.3V±5%						
Power Consumption	2.5W (active), 0.5W (idle)			1.4W (active), 0.65W (idle)			
Dimensions	MSA Series : 50.8 x 29.85 x 4.85(max)mm / MSM Series : 26.8 x 29.85 x 3.85(max)mm						
MTBF	1,000,000hrs / 1,500,000hrs (MSA570/MSA370/MSA370I)						
Warranty	3-year Limited						
							*Max Porformanco

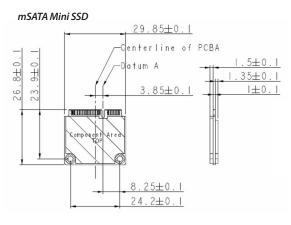
*Max. Performance **optional: -40°C~85°C

Ordering Information

TS8GMSM610 8GB TS32GMSA510 32GB MSA510 SUPER MSM610 MLC TS16GMSM610 16GB TS64GMSA510 64GB (mSATA Mini SSD) TS32GMSM610 32GB TS16GMSA370 16GB TS16GMSM360 16GB TS32GMSA370 32GB MSM360 MLC TS32GMSM360 32GB TS32GMSA370I 32GB (mSATA Mini SSD) TS64GMSM360 64GB TS64GMSA370 64GB MSA370 MLC TS128GMSM360 128GB TS64GMSA370I 64GB Series TS4GMSA570 4GB TS128GMSA370 128GB MSA570 SLC TS8GMSA570 8GB TS256GMSA370 256GB TS16GMSA570 16GB TS512GMSA370 512GB MSA520 SLC TS4GMSA520 4GB TS1TMSA370 1TB

Drawing





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