Datasheet
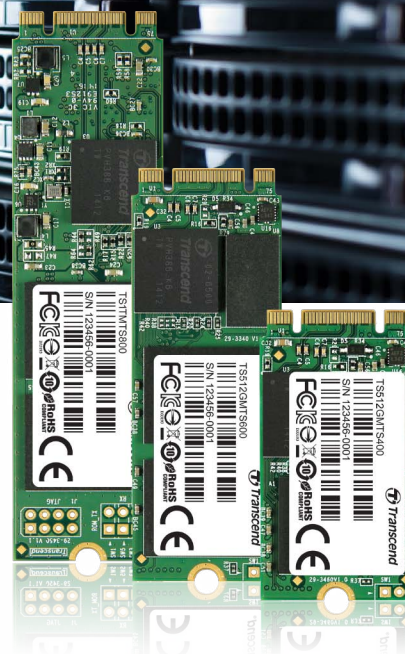
SATA III M.2 SSD

Features

- Fully compliant with the M.2 SATA SSD standard
- Hardware ECC, MLC: 60bit/1KB BCH, SuperMLC: 42bit/1KB BCH
- Advanced Global Wear-Leveling and Block Management ensure reliable data transfer
- Supports partial, slumber and DEVSLP mode
- SuperMLC technology of Transcend to make the MLC NAND act as high-speed SLC NAND
- Optional support for Hardware Purge and Write Protect function
- DDR3 DRAM cache
- Power Shield to prevent data loss in the event of a sudden power outage

Introduction

Transcend's MTS series with SATA III 6Gb/s interface and ultra compact dimensions make it best suited to address the high-performance needs and strict size limitations of small form factor devices. This means it is perfect for use in today's modern ultrabooks, thin and light notebooks, and tablets. As the demand for memory space has grown, the MTS series features outstanding storage capacity ranging from 32GB to 1TB. Built with the latest SATA III 6Gb/s specifications, and with a powerful

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Specifications

	MTS400	MTS600	MTS800	MTS860
Interface	SATA III 6Gb/s			
Flash Type	MLC			SUPER MLC
Connector	M.2 module notch B+M			
Form Factor	M.2 TYPE 2242-D2-B-M	M.2 TYPE 2260-D2-B-M	M.2 TYPE 2280-D2-B-M	
Capacity	32GB~512GB		32GB~1TB	64GB
Sequential Read*	560 MB/s	550 MB/s	560 MB/s	570 MB/s
Sequential Write*	460 MB/s	460 MB/s	460 MB/s	320 MB/s
Operating Temperature	0℃~70℃**			
Storage Temperature	-40℃~85℃			
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	3.67W (active), 0.55W (idle), 2mW (DEVSLP)			
Dimensions	22.0 x 42.0 x 3.58mm	22.0 x 60.0 x 3.58mm	22.0 x 80.0 x 3.58mm	
MTBF	1,500,000 hrs			
Warranty	3-year Limited			

*Max. Performance
**optional: -40℃~85℃

Ordering Information

MTS860 SUPER MLC		
	TS8GMTS860	8GB
	TS64GMTS860	64GB
	TS256GMTS860	256GB

MTS800 MLC		
	TS16GMTS800	16GB
	TS32GMTS800	32GB
	TS64GMTS800	64GB
	TS128GMTS800	128GB
	TS256GMTS800	256GB
	TS512GMTS800	512GB
	TS1TMTS800	1TB

MTS600 MLC		
	TS32GMTS600	32GB
	TS64GMTS600	64GB
	TS128GMTS600	128GB
	TS256GMTS600	256GB
	TS512GMTS600	512GB

MTS400 MLC		
	TS32GMTS400	32GB
	TS64GMTS400	64GB
	TS128GMTS400	128GB
	TS256GMTS400	256GB
	TS512GMTS400	512GB

Other capacities available by request

Drawing

22.00±0.15

(11.0)

Type	Nominal	Tol
2242	42.0	±0.15
2260	60.0	±0.15
2280	80.0	±0.15

A (mm)

A

Top
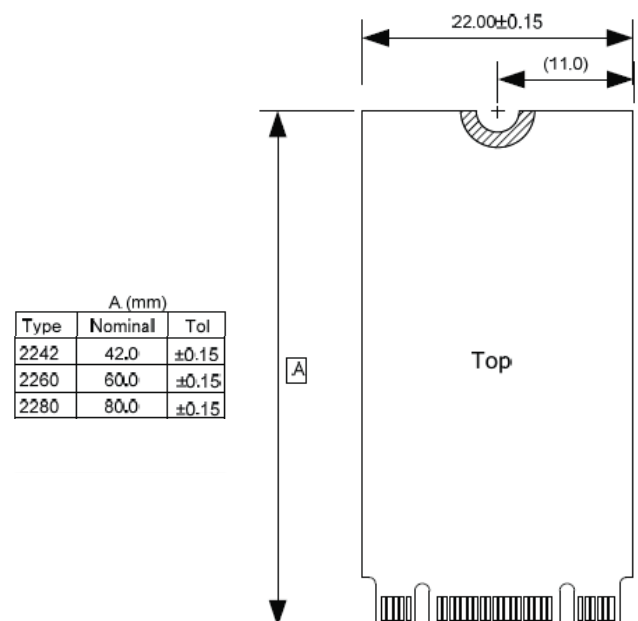
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