Embedded Solutions

SATA III M.2 SSDs
MTS550T

With the combination of larger storage capacity and lower production costs, Transcend's 3D TLC SSDs are the game-changer to the market, delivering endurance equivalent to what MLC-based solutions once prided themselves with. The MTS550T with SATA III 6Gb/s interface, ultra compact dimensions and 3D NAND flash makes it best suited to address the high-performance needs and strict size limitations of small form factor devices, all while being extra cost-effective and brought to you at an attractive price. The Transcend MTS550T is built with DRAM cache for reliable speeds, outstanding cache performance and customized functions to cater to the requirements of various embedded applications.

Features

- Space-saving M.2 form factor (42mm) – ideal for mobile computing devices
- Supports DevSleep mode, which allows devices to completely shut down the SATA interface and conserve battery life unlike existing partial/slumber states (optional)
- Supports S.M.A.R.T., TRIM and NCQ command
- Supports Advanced Garbage Collection
- RoHS compliant
- Advanced Global Wear-Leveling and Block management for reliability
- Built-in LDPC ECC (Error Correction Code) functionality
- Great shock resistance
- Non-volatile Flash Memory for outstanding data retention
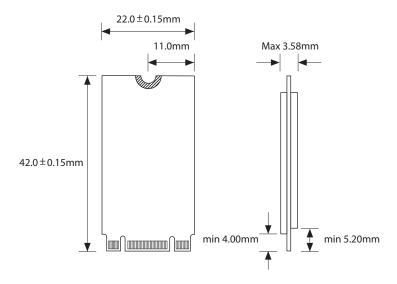
Ordering Information

64GB	TS64GMTS550T
128GB	TS128GMTS550T
256GB	TS256GMTS550T
512GB	TS512GMTS550T

Specifications

Appearance	Dimensions	42.0 mm x 22.0 mm x 3.58 mm (1.65" x 0.87" x 0.14")
	Weight	5 g (0.18 oz)
	Form Factor	M.2
	M.2 Type	2242-D2-B-M
Interface	Bus Interface	SATA III 6Gb/s
Storage	Flash Type	3D TLC NAND flash
	Capacity	64 GB/128 GB/256 GB/512 GB
Operating Environment	Operating Voltage	3.3V±5%
	Operating Temperature	0°C (32°F) ~ 70°C (158°F)
	Storage Temperature	-40°C (-40°F) ~ 85°C (185°F)
	Humidity	5% ~ 95%
	Shock	1500 G, 0.5 ms, 3 axis
	Vibration	20 G (peak-to-peak), 7 Hz ~ 2000 Hz (frequency)
Power	Power Consumption (Operation)	1.5 watt(s)
	Power Consumption (Sleep)	0.3 watt(s)
Performance	Sequential Read/Write (CrystalDiskMark, max.)	Read: 550 MB/s; write: 520 MB/s
	4K Random Read/Write (IOmeter, max.)	Read: 85,000 IOPS; write: 85,000 IOPS
	Mean Time Between Failures (MTBF)	3,000,000 hour(s)
	Terabytes Written (Max.)	320 TBW
	Drive Writes Per Day (DWPD)	0.58 (3 yrs)
Warranty	Certificate	CE/FCC/BSMI
	Warranty	Three-year Limited Warranty
Note	• Speed may vary due to host hardware, software, usage, and storage capacity.	
	• 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.	

Mechanical Dimensions

22.0 ± 0.15mm
11.0mm
Max 3.58mm
42.0 ± 0.15mm
min 4.00mm
min 5.20mm

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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