Embedded Solutions

SATA III M.2 SSDs
MTS950T-I

3K P/E cycles   **Wide Temperature**

Rated to endure 3K P/E cycles, Transcend's M.2 MTS950T-I SSD 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 MTS950T is built with DRAM cache for reliable speeds, outstanding cache performance and customized functions to cater to the requirements of various embedded applications. The MTS950T-I M.2 SSD can also perform in a wide range of operating temperatures, and is fully tested in-house to guarantee sustained functionality, enhanced endurance and optimal reliability in mission-critical applications.

Firmware Features

- Built-in LDPC ECC (Error Correction Code) functionality
- Advanced Global Wear-Leveling and Block management for reliability
- Advanced Garbage Collection
- Enhanced S.M.A.R.T. function for durability
- TRIM command for better performance
- NCQ command for better performance
- Power-saving DevSleep (Device Sleep) mode (optional)

Hardware Features

- Compliant with RoHS 2.0 standards
- Space-saving M.2 form factor (80mm) – ideal for mobile computing devices
- Endurance: 3K P/E cycles (Program/Erase cycles) guaranteed
- Promised operational reliability in a wide temperature range (from -40°C to 85°C)
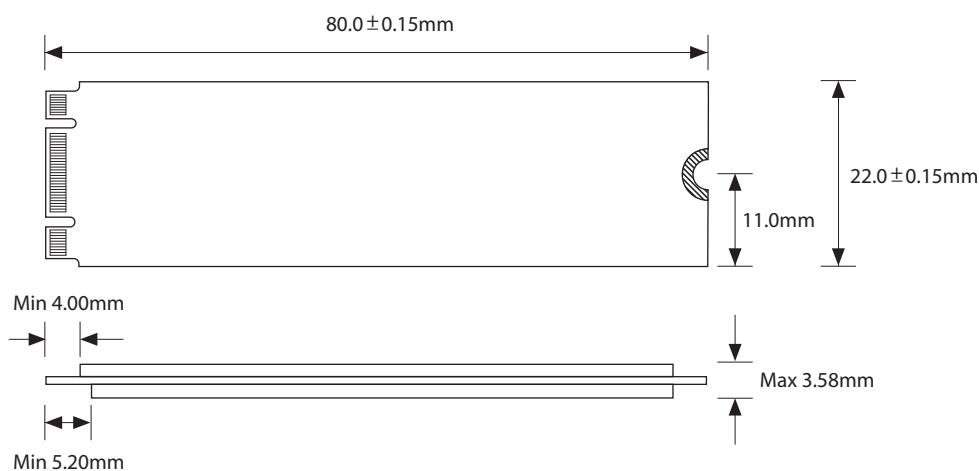- Supports Transcend Scope Pro software

Ordering Information

128GB	TS128GMTS950T-I
256GB	TS256GMTS950T-I
512GB	TS512GMTS950T-I

Specifications

Appearance	Dimensions	80 mm x 22 mm x 3.58 mm (3.15" x 0.87" x 0.14")
	Weight	9 g (0.32 oz)
	Form Factor	M.2
	M.2 Type	2280-D2-B-M (Double-sided)
Interface	Bus Interface	SATA III 6Gb/s
Storage	Flash Type	3D NAND flash
	Capacity	128 GB/256 GB/512 GB
Operating Environment	Operating Voltage	5V±5%
	Operating Temperature	-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	20 G (peak-to-peak), 5 Hz ~ 800 Hz (frequency)
Power	Power Consumption (Operation)	2 watt(s)
	Power Consumption (Sleep)	0.3 watt(s)
Performance	Sequential Read/Write (ATTO, max.)	Read: 560 MB/s; write: 510 MB/s
	Sequential Read/Write (CrystalDiskMark, max.)	Read: 560 MB/s; write: 510 MB/s
	4K Random Read/Write (IOmeter, max.)	Read: 85,000 IOPS; write: 85,000 IOPS
	Mean Time Between Failures (MTBF)	1,000,000 hour(s)
	Terabytes Written (Max.)	880 TBW
	Drive Writes Per Day (DWPD)	1.61 (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

80.0±0.15mm

22.0±0.15mm

11.0mm

Min 4.00mm

Max 3.58mm

Min 5.20mm

Please feel free to contact us with any special requests you might have.
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