**Embedded Solutions**

SATA III M.2 SSDs

# MTS952T & MTS952T-I

Transcend's MTS952T M.2 SSD features the SATA III 6Gb/s interface and state-of-the-art 3D NAND technology, which allows 96 layers of 3D NAND flash chips to be vertically stacked. Compared to BiCS3 NAND at 64 layers, this density breakthrough greatly improves storage efficiency. The MTS952T is built with DRAM cache for fast access, and is fully tested in-house to guarantee reliability in mission-critical applications, boasting an endurance rating of 3K Program/Erase cycles.

Transcend also offers the MTS952T-I with wide temperature (-40℃ ~ 85℃) capabilities to ensure sustained functionality, enhanced endurance and optimal reliability in mission-critical applications.

## Hardware Features

- DDR3 DRAM Cache embedded
- 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

## Firmware Features

- Advanced Global Wear-Leveling and Block management for reliability
- Advanced Garbage Collection
- Built-in LDPC ECC (Error Correction Code) functionality
- Supports S.M.A.R.T. function to conduct health monitoring, analysis, and reporting for storage devices
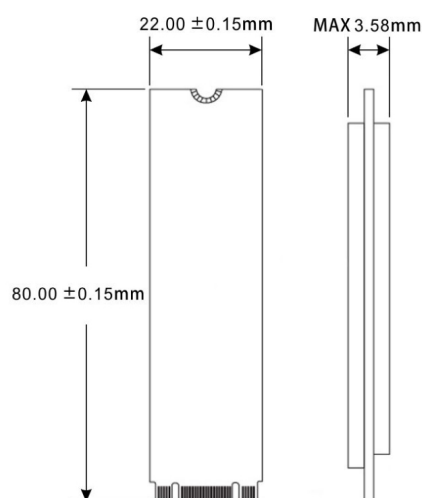- TRIM command for better performance

## Ordering Information

| | |
|---|---|
| 64GB | TS64GMTS952T<br>TS64GMTS952T-I |
| 128GB | TS128GMTS952T<br>TS128GMTS952T-I |
| 256GB | TS256GMTS952T<br>TS256GMTS952T-I |
| 512GB | TS512GMTS952T<br>TS512GMTS952T-I |
| 1TB | TS1TMTS952T<br>TS1TMTS952T-I |
| 2TB | TS2TMTS952T<br>TS2TMTS952T-I |

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## Specifications

| Appearance | Dimensions | 80.0 mm x 22.0 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 | 64 GB / 128 GB / 256 GB / 512 GB / 1 TB / 2 TB |
| Operating Environment | Operating Voltage | 3.3V±5% |
| | Operating Temperature | Standard Temp.<br>0°C (32°F) ~ 70°C (158°F)<br>Wide Temp.<br>-40°C (-40°F) ~ 85°C (185°F) |
| | Storage Temperature | -55°C (-67°F) ~ 85°C (185°F) |
| | Humidity | 5% ~ 95% |
| | Shock | 1500 G, 0.5 ms, 3 axis |
| | Vibration (Operating) | 20 G (peak-to-peak), 7 Hz ~ 2000 Hz (frequency) |
| Power | Power Consumption (Operation) | 2.1 watt(s) |
| | Power Consumption (Sleep) | 0.4 watt(s) |
| Performance | Sequential Read/Write (CrystalDiskMark) | Read: up to 560 MB/s<br>Write: up to 520 MB/s |
| | 4K Random Read/Write (IOmeter) | Read: up to 95,000 IOPS<br>Write: up to 85,000 IOPS |
| | Mean Time Between Failures (MTBF) | 3,000,000 hour(s) |
| | Terabytes Written (TBW) | up to 3,520 TBW |
| | Drive Writes Per Day (DWPD) | 1.61 (3 yrs) |
| Warranty | Certificate | CE / FCC / BSMI |
| | Warranty | Three-year Limited Warranty |

## Mechanical Dimensions



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.

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