



[www.transcend-info.com](http://www.transcend-info.com)

## Embedded Solutions



### SATA III M.2 SSDs

## MTS952T2

Transcend's MTS952T2 M.2 SSD features the SATA III 6Gb/s interface, delivering superior transfer speeds. The MTS952T2 features the latest 3D NAND technology for high storage efficiency, 30μ" PCB gold finger and Corner Bond technology for enhanced durability, built-in DRAM cache for fast access, an extended operating temperature range from -20°C to 75°C, and an endurance rating of 3K Program/Erase cycles for reliable operation.

### Hardware Features

- DDR3 DRAM Cache embedded
- 30μ" PCB gold finger
- Endurance: 3K P/E cycles (Program/Erase cycles) guaranteed
- Key components fortified by default with Corner Bond technology

### Firmware Features

- Dynamic thermal throttling
- Advanced Global Wear-Leveling and Block management for reliability
- Built-in LDPC ECC (Error Correction Code) functionality
- Enhanced S.M.A.R.T. function for durability
- Power-saving DevSleep (Device Sleep) mode

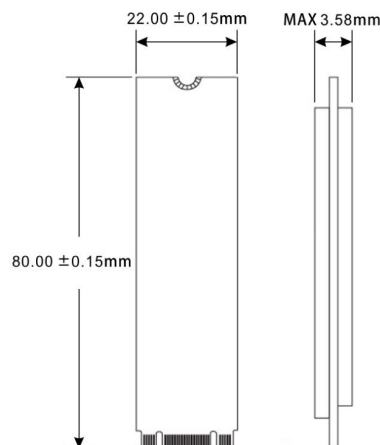
### Ordering Information

|       |                |
|-------|----------------|
| 64GB  | TS64GMTS952T2  |
| 128GB | TS128GMTS952T2 |
| 256GB | TS256GMTS952T2 |
| 512GB | TS512GMTS952T2 |
| 1TB   | TS1TMTS952T2   |
| 2TB   | TS2TMTS952T2   |

## 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                         | Extended<br>-20°C (-4°F) ~ 75°C (167°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, max.) | Read: up to 560 MB/s<br>Write: up to 520 MB/s       |
|                       | 4K Random Read/Write (IOMeter, max.)          | 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 (Max.)                      | 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.

## Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

### US

[sales@assured-systems.com](mailto:sales@assured-systems.com)

Sales: +1 347 719 4508

Support: +1 347 719 4508

1309 Coffeen Ave  
Ste 1200  
Sheridan  
WY 82801  
USA

### EMEA

[sales@assured-systems.com](mailto:sales@assured-systems.com)

Sales: +44 (0)1785 879 050

Support: +44 (0)1785 879 050

Unit A5 Douglas Park  
Stone Business Park  
Stone  
ST15 0YJ  
United Kingdom

VAT Number: 120 9546 28

Business Registration Number: 07699660