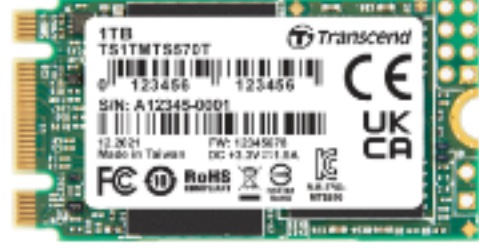


## SATA III M.2 SSDs

## MTS570T & MTS570T-I



Transcend's M.2 SSD MTS570T features the SATA III 6Gb/s interface and the state-of-the-art 3D NAND technology, which allows 112 layers of 3D NAND flash chips to be vertically stacked. Compared to 3D NAND at 96 layers, this density breakthrough greatly improves storage efficiency, and its built-in DRAM cache allows faster access. Applied with 30μ" gold finger PCB and Corner Bond technology, the MTS570T is fully tested in-house to guarantee reliability in mission-critical applications, boasting an endurance rating of 3K Program/Erase cycles and an extended operating temperature ranging from -20°C~75°C.

Transcend also offers the MTS570T-I with wide temperature (-40°C ~ 85°C) capabilities to ensure sustained functionality, enhanced endurance and optimal reliability in mission-critical applications.

### Technologies

112-layer 3D NAND Flash

30μ" PCB Gold Finger

Corner Bond

Extended Temperature

Wide Temperature

Dynamic Thermal Throttling

Thermal Sensor

Read Disturbance

Garbage Collection

Wear Leveling

TRIM

Bad Block Management

Power Shield (PS)

Early Move

### Firmware Features

- Dynamic thermal throttling
- Built-in LDPC ECC (Error Correction Code) functionality
- Advanced Global Wear-Leveling and Block management for reliability
- Advanced Garbage Collection
- Supports S.M.A.R.T. function to conduct health monitoring, analysis, and reporting for storage devices
- TRIM command for better performance
- NCQ command for better performance
- Full drive encryption with Advanced Encryption Standard (AES) (optional)
- Power-saving DevSleep (Device Sleep) mode

### Hardware Features

- Compliant with RoHS 2.0 standards
- Space-saving M.2 form factor (42mm) – ideal for mobile computing devices
- DDR3 DRAM Cache embedded
- Endurance: 3K P/E cycles (Program/Erase cycles) guaranteed
- Key components fortified by default with Corner Bond technology
- 30μ" PCB gold finger
- Power Shield (PS) to ensure data transfer integrity and minimize data corruption in the drive during an abnormal power outage
- Promised operational reliability in a wide temperature range (from -40°C to 85°C)
- Promised operational reliability in an extended temperature range (from -20°C to 75°C)
- Supports Transcend Scope Pro software

### Software Solutions

Management  
**Control Center**

Improve your control by easily managing devices at anytime from edge to cloud.

Monitor  
**Scope Pro**

Manage / analyze data in real time and capture more of your market.

Rescue  
**One Touch Recovery**

Rescue your data with a click to create a reliable and robust environment.

### 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 (Double-sided)	
Interface		
Bus Interface	SATA III 6Gb/s	
Storage		
Flash Type	112-layer 3D NAND flash	
Capacity	128 GB / 256 GB / 512 GB / 1 TB	
Operating Environment		
Operating Voltage	3.3V±5%	
Operating Temperature	Extended Temp.	-20°C (-4°F) ~ 75°C (167°F)
	Wide Temp.	-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 ~ 2,000 Hz (frequency)	
Performance		
Note	<ul style="list-style-type: none"><li>• Speed may vary due to host hardware, software, usage, and storage capacity.</li><li>• 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.</li><li>• Terabytes Written (TBW) expresses the endurance under the highest capacity.</li></ul>	
Warranty		
Certificate	CE / FCC / BSMI / UKCA	
Warranty	Three-year Limited Warranty	
Warranty Policy	<ul style="list-style-type: none"><li>• Please click <a href="#">here</a> for more information about the Transcend Warranty Policy.</li><li>• Warranty does not apply when Scope Pro software wear-out indicator displays 0% within the warranty coverage.</li><li>• 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.</li><li>• Scope Pro software is required by request. Please contact us for more information.</li></ul>	

### Order Information

128GB	256GB	512GB
TS128GMTS570T	TS256GMTS570T	TS512GMTS570T
TS128GMTS570T-I	TS256GMTS570T-I	TS512GMTS570T-I
1TB		
TS1TMTS570T		
TS1TMTS570T-I		

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