

SATA III M.2 SSDs



MTS400 & MTS400I

Transcend's MTS400 with SATA III 6Gb/s interface and ultra compact dimensions make it best suited to address the high-performance needs and strict size limitations of small form factor devices. This means it is perfect for use in today's modern ultrabooks, thin and light notebooks, and tablets. Built with the latest SATA III 6Gb/s specifications, and with a powerful controller and exceptional transfer speeds, the M.2 SSD easily handles everyday computing tasks as well as demanding multimedia applications.

Transcend also offers the MTS400I with wide temperature (-40°C ~ 85°C) capabilities to ensure sustained functionality, enhanced endurance and optimal reliability in mission-critical applications.

Technologies

Wide Temperature

Thermal Sensor

Read Disturbance

Garbage Collection

Wear Leveling

TRIM

Bad Block Management

Early Move

Firmware Features

- Built-in BCH 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
- MLC NAND flash
- Promised operational reliability in a wide temperature range (from -40°C to 85°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.

Security

ATA Security Toolbox

Secure your data in just a few easy steps.

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	MLC NAND flash	
Capacity	16 GB / 32 GB / 64 GB / 128 GB / 256 GB / 512 GB	
Operating Environment		
Operating Voltage	3.3V±5%	
Operating Temperature	Standard Wide Temp.	0°C (32°F) ~ 70°C (158°F) -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 (Operating)	20 G (peak-to-peak), Hz ~ 2000 Hz (frequency)	
Power		
Power Consumption (Operation)	2.48 watt(s)	
Power Consumption (Sleep)	0.48 watt(s)	
Performance		
Sequential Read/Write (CrystalDiskMark)	Read: up to 530 MB/s Write: up to 470 MB/s	
4K Random Read/Write (IOMeter)	Read: up to 70,000 IOPS Write: up to 70,000 IOPS	
Mean Time Between Failures (MTBF)	2,500,000 hour(s)	
Terabytes Written (TBW)	up to 1,100 TBW	
Drive Writes Per Day (DWPD)	2 (3 yrs)	
Note	<ul style="list-style-type: none">• 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.• Terabytes Written (TBW) expresses the endurance under the highest capacity.	
Warranty		
Certificate	CE / FCC / BSMI	
Warranty	Three-year Limited Warranty	
Warranty Policy	<ul style="list-style-type: none">• Please click here for more information about the Transcend Warranty Policy.• Warranty does not apply when Scope Pro software wear-out indicator displays 0% within the warranty coverage.• 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.• Scope Pro software is required by request. Please contact us for more information.	

Order Information

16GB	32GB	64GB
TS16GMTS400	TS32GMTS400	TS64GMTS400
TS16GMTS400I	TS32GMTS400I	TS64GMTS400I
128GB	256GB	512GB
TS128GMTS400	TS256GMTS400	TS512GMTS400
TS128GMTS400I	TS256GMTS400I	TS512GMTS400I



Product Sheet

View or download the product sheet for detailed product and ordering information.



Compatibility

Check the compatibility of your Transcend product with your computer system or electronic devices.

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