



SATA III M.2 SSDs

MTS270I

Transcend's MTS270I SATA III M.2 2280 solid-state drive (SSD) features BiCS8 218-layer 3D NAND flash and Transcend's SLC Mode technology, delivering stable performance and long-term reliability. It is well suited for industrial control systems, embedded platforms, and long-life equipment applications.

The MTS270I features a 30μ" gold finger PCB, Corner Bond technology, and anti-sulfur resistors to reinforce critical components and enhance durability. Supporting a wide operating temperature range of -40°C to 85°C, the MTS270I delivers stable performance amid drastic temperature fluctuations and in demanding industrial environments.

Hardware Features

- Compliant with RoHS 2.0 standards
- Space-saving M.2 form factor (80mm) – ideal for mobile computing devices
- 30μ" PCB gold finger
- Key components fortified by default with Corner Bond technology
- Anti-sulfur technology implemented to prevent sulfurization in the environment

Ordering Information

40GB	TS40GMTS270I
80GB	TS80GMTS270I
160GB	TS160GMTS270I
320GB	TS320GMTS270I
640GB	TS640GMTS270I

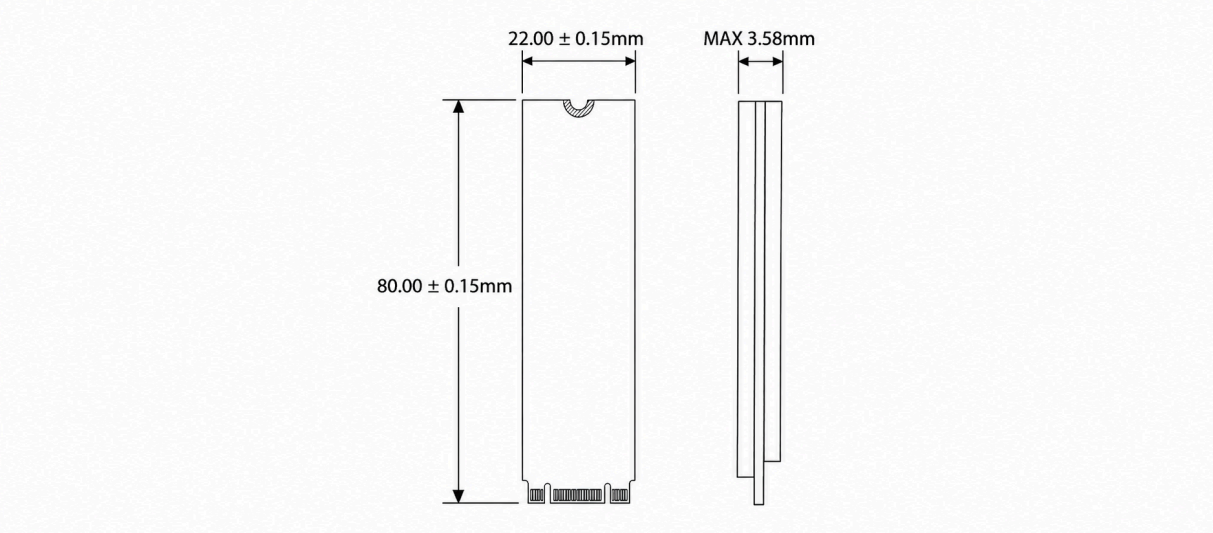
Firmware Features

- Advanced Garbage Collection
- Advanced Global Wear-Leveling and Block management for reliability
- Dynamic thermal throttling
- Built-in LDPC ECC (Error Correction Code) functionality
- TRIM command for better performance

Specifications

Appearance	Dimensions	80 mm x 22 mm x 3.58 mm (3.15" x 0.87" x 0.14")
	Weight	8 g (0.28 oz)
	M.2 Type	2280-D2-B-M (Double-sided)
	Form Factor	M.2 2280
Interface	Bus Interface	SATA III 6Gb/s
Storage	Capacity	40 GB / 80 GB / 160 GB / 320 GB / 640 GB
	Flash Type	218-layer 3D NAND flash (SLC mode)
Operating Environment	Operating Voltage	3.3V±5%
	Operating Temperature	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)
Power	Power Consumption (Operation)	0.62 watt(s)
	Power Consumption (IDLE)	0.2 watt(s)
Performance	Sequential Read/Write (CrystalDiskMark)	Read: Up to 560 MB/s Write: Up to 510 MB/s
	4K Random Read/Write (IOmeter)	Read: Up to 75,000 IOPS Write: Up to 85,000 IOPS
	Mean Time Between Failures (MTBF)	3,000,000 hour(s)
	Terabytes Written (TBW)	Up to 28,270 TBW
	Drive Writes Per Day (DWPD)	40.3 (3 yrs)
Warranty	Certificate	CE / UKCA / 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.