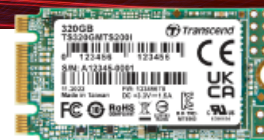**Embedded Solutions**

SATA III M.2 SSDs

MTS200I

Transcend's MTS200I features a SATA III 6Gb/s interface, 112-layer 3D NAND flash, and SLC Mode technology, delivering high sustained speeds and SLC-grade durability. In addition, the 30μ" gold finger PCB, Corner Bond technology, and anti-sulfur resistors guarantee its reliability in harsh conditions. Transcend's MTS200I is also 100% chamber tested in-house for wide operating temperatures of -40℃~85℃.

Hardware Features

- High-quality 3D NAND flash and SLC mode for exceptional endurance and reliability
- Anti-sulfur technology implemented to prevent sulfurization in the environment
- 30μ" PCB gold finger
- Key components fortified by default with Corner Bond technology
- Promised operational reliability in a wide temperature range (from -40°C to 85°C)

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
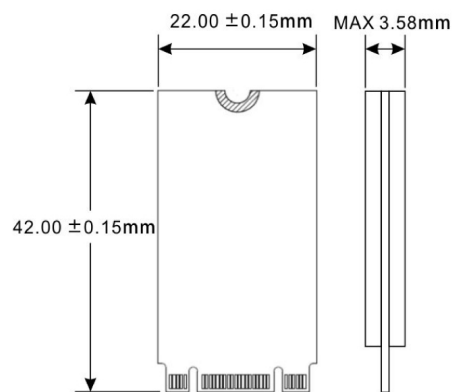
Ordering Information

20GB	TS20GMTS200I
40GB	TS40GMTS200I
80GB	TS80GMTS200I
160GB	TS160GMTS200I
320GB	TS320GMTS200I

Specifications

Appearance	Dimensions	42 mm x 22 mm x 3.58 mm (1.65" x 0.87" x 0.14")
	Weight	5 g (0.18 oz)
	M.2 Type	2242-D2-B-M (Double-sided)
	Form Factor	M.2 2242
Interface	Bus Interface	SATA III 6Gb/s
Storage	Capacity	20 GB / 40 GB / 60 GB / 160 GB / 320 GB
	Flash Type	112-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)	1.1 watt(s)
	Power Consumption (Sleep)	0.25 watt(s)
Performance	Sequential Read/Write (CrystalDiskMark)	Read: up to 560 MB/s Write: up to 500 MB/s
	4K Random Read/Write (IOmeter)	Read: up to 45,000 IOPS Write: up to 80,000 IOPS
	Mean Time Between Failures (MTBF)	3,000,000 hour(s)
	Terabytes Written (TBW)	up to 2,250 TBW
	Drive Writes Per Day (DWPD)	(3 yrs)
Warranty	Certificate	CE / FCC / BSMI / UKCA
	Warranty	Three-year Limited Warranty

Mechanical Dimensions