



SATA III M.2 SSDs

MTS220I

Transcend's MTS220I SATA III M.2 2242 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 MTS220I 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 MTS220I 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 (42mm) – ideal for mobile computing devices
- 30μ" PCB gold finger
- Key components fortified by default with Corner Bond technology
- Power Shield (PS) to ensure data transfer integrity and minimize data corruption in the drive during an abnormal power outage

Ordering Information

40GB	TS40GMTS220I
80GB	TS80GMTS220I
160GB	TS160GMTS220I
320GB	TS320GMTS220I
640GB	TS640GMTS220I

Firmware Features

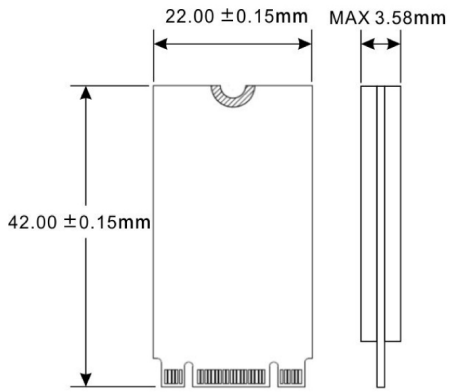
- Advanced Garbage Collection
- Advanced Global Wear-Leveling and Block management for reliability
- Dynamic thermal throttling
- Built-in LDPC ECC (Error Correction Code) functionality
- TRIM command for better performance

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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	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)	0.6 watt(s)
	Power Consumption (IDLE)	0.2 watt(s)
Performance	Sequential Read/Write (CrystalDiskMark)	Read: Up to 560 MB/s Write: Up to 520 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.

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