



SATA III M.2 SSDs

MTS230I

Transcend's SATA III M.2 2242 solid-state drive MTS230I features BiCS8 218-layer 3D NAND flash, Transcend's SLC Mode technology, and a built-in DRAM cache to enhance data access efficiency. With stable performance and long-term reliability, the MTS230I is ideal for industrial control systems, embedded platforms, and equipment with long product life cycles.

The MTS230I 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 MTS230I 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
- DDR3 DRAM Cache embedded
- 30μ" PCB gold finger
- Key components fortified by default with Corner Bond technology

Ordering Information

80GB	TS80GMTS230I
160GB	TS160GMTS230I
320GB	TS320GMTS230I
640GB	TS640GMTS230I

Firmware Features

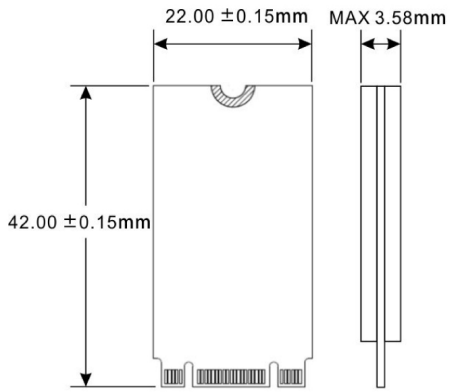
- Dynamic thermal throttling
- Built-in LDPC ECC (Error Correction Code) functionality
- Advanced Global Wear-Leveling and Block management for reliability
- Advanced Garbage Collection
- Supports S.M.A.R.T. function to conduct health monitoring, analysis, and reporting for storage devices

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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	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)	2.2 watt(s)
	Power Consumption (IDLE)	1.5 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 70,000 IOPS Write: Up to 85,000 IOPS
	Mean Time Between Failures (MTBF)	3,000,000 hour(s)
	Terabytes Written (TBW)	Up to 7,375 TBW
	Drive Writes Per Day (DWPD)	42.1 (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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