

Embedded Solutions



SATA III M.2 SSDs

MTS570P

Transcend's M.2 SSD MTS570P is a Power Loss Protection (PLP) SSD. During unexpected power outages, the built-in tantalum capacitors provide power to the controller and DRAM cache, ensuring data integrity and storage reliability.

Transcend's M.2 SSD MTS570P features the SATA III 6Gb/s interface and state-of-the-art 3D NAND technology, which allows 112 layers of 3D NAND flash chips to be vertically stacked. Applied with 30 μ " gold finger PCB, Corner Bond technology, and anti-sulfur resistors, the MTS570P guarantees high reliability in mission-critical applications, boasting an endurance rating of 3K Program/Erase cycles and operating temperatures ranging from -40°C~85°C.

Hardware Features

- Anti-sulfur technology implemented to prevent sulfurization in the environment
- 30 μ " PCB gold finger
- Key components fortified by default with Corner Bond technology
- Power Loss Protection (PLP) to prevent data loss in the event of sudden power outage
- Promised operational reliability in a wide temperature range (from -40°C to 85°C)

Firmware Features

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

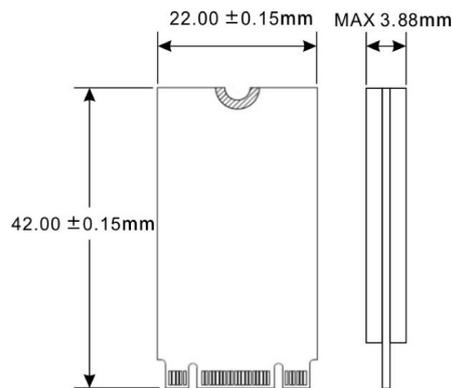
Ordering Information

128GB	TS128GMTS570P
256GB	TS256GMTS570P
512GB	TS512GMTS570P

Specifications

Appearance	Dimensions	42 mm x 22 mm x 3.88 mm (1.65" x 0.87" x 0.15")
	Weight	5 g (0.18 oz)
	M.2 Type	2242-D5-B-M (Double-sided)
	Form Factor	M.2 2242
Interface	Bus Interface	SATA III 6Gb/s
Storage	Capacity	128 GB / 256 GB / 512 GB
	Flash Type	112-layer 3D NAND flash
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 ~ 2000 Hz (frequency)
Power	Power Consumption (Operation)	2.14 watt(s)
	Power Consumption (IDLE)	0.5 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 70,000 IOPS Write: Up to 85,000 IOPS
	Mean Time Between Failures (MTBF)	3,000,000 hour(s)
	Terabytes Written (TBW)	Up to 1,250 TBW
	Drive Writes Per Day (DWPD)	2.23 (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.