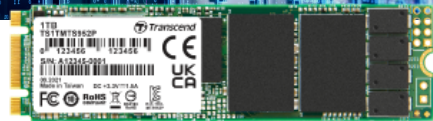**Transcend®**

www.transcend-info.com

Embedded Solutions

SATA III M.2 SSDs

MTS952P & MTS952P-I

Transcend's MTS952P M.2 SSD features the SATA III 6Gb/s interface, delivering superior transfer speeds. The MTS952P features the latest 3D NAND technology for high storage efficiency, 30μ" PCB gold finger and Corner Bond technology for enhanced durability, built-in DRAM cache for fast access, an extended operating temperature range from -20°C to 75°C, and an endurance rating of 3K Program/Erase cycles for reliable operation. The built-in Power Loss Protection (PLP) further ensures data integrity in mission-critical applications.

Transcend also offers the MTS952P-I with wide temperature (-40℃ ~ 85℃) capabilities to ensure sustained functionality, enhanced endurance and optimal reliability in mission-critical applications.

Hardware Features

- DDR3 DRAM Cache embedded
- 30μ" PCB gold finger
- Endurance: 3K P/E cycles (Program/Erase cycles) guaranteed
- Key components fortified by default with Corner Bond technology
- Power Loss Protection (PLP) to prevent data loss in the event of sudden power outage

Firmware Features

- Power-saving DevSleep (Device Sleep) mode
- Dynamic thermal throttling
- Advanced Garbage Collection
- Built-in LDPC ECC (Error Correction Code) functionality
- Supports S.M.A.R.T. function to conduct health monitoring, analysis, and reporting for storage devices
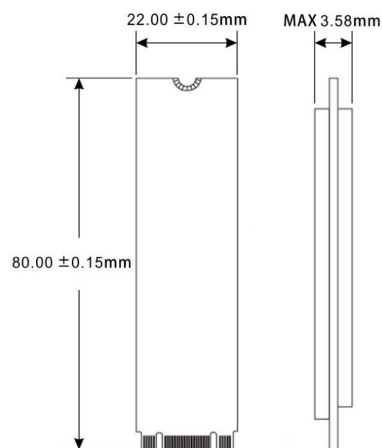
Ordering Information

128GB	TS128GMTS952P TS128GMTS952P-I
256GB	TS256GMTS952P TS256GMTS952P-I
512GB	TS512GMTS952P TS512GMTS952P-I
1TB	TS1TMTS952P TS1TMTS952P-I

Transcend®

Specifications

Appearance	Dimensions	80.0 mm x 22.0 mm x 3.88 mm (3.15" x 0.87" x 0.15")
	Weight	9 g (0.32 oz)
	M.2 Type	2280-D5-B-M (Double-sided)
	Form Factor	M.2 2280
Interface	Bus Interface	SATA III 6Gb/s
Storage	Capacity	128 GB / 256 GB / 512 GB / 1 TB
	Flash Type	3D NAND flash
Operating Environment	Operating Voltage	3.3V±5%
	Operating Temperature	Extended Temp. -20°C (-4°F) ~ 75°C (167°F) 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)	2.3 watt(s)
	Power Consumption (Sleep)	0.4 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 95,000 IOPS Write: up to 85,000 IOPS
	Mean Time Between Failures (MTBF)	3,000,000 hour(s)
	Terabytes Written (TBW)	up to 1,760 TBW
	Drive Writes Per Day (DWPD)	1.61 (3 yrs)
Warranty	Certificate	CE / FCC / BSMI / UKCA
	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.

Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

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