

2.5" SATA & PATA SSDs

SSD570I

Transcend SSD570I 2.5" SATA III solid-state drive features 218-layer 3D NAND flash memory and SLC Mode technology, enhancing write endurance and improving data storage reliability. Its built-in DRAM cache further improves random read and write performance.

Rigorously tested in-house, SSD570I supports a wide operating temperature range of -40°C to 85°C, ensuring stable performance even under significant temperature fluctuations. It is designed for industrial PCs and embedded systems that require reliable, long-term operation.

Hardware Features

- Compliant with RoHS 2.0 standards
- DDR3 DRAM Cache embedded
- High-quality 3D NAND flash and SLC mode for exceptional endurance and reliability
- Promised operational reliability in a wide temperature range (from -40°C to 85°C)
- Supports Transcend Scope Pro software

Ordering Information

80GB	TS80GSSD570I
160GB	TS160GSSD570I
320GB	TS320GSSD570I
640GB	TS640GSSD570I
1280GB	TS1280GSSD570I

Firmware Features

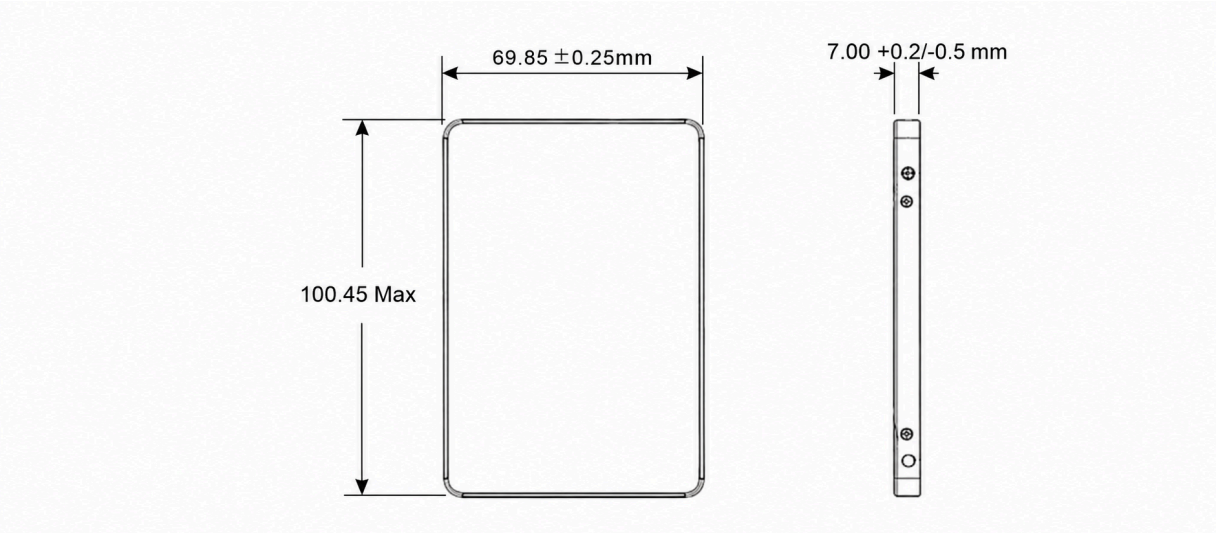
- Built-in LDPC ECC (Error Correction Code) functionality
- Advanced Global Wear-Leveling and Block management for reliability
- Advanced Garbage Collection
- Early Move
- Supports S.M.A.R.T. function to conduct health monitoring, analysis, and reporting for storage devices

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Specifications

Appearance	Dimensions	100.45 mm x 69.85 mm x 7 mm (3.95" x 2.75" x 0.28")
	Weight	54 g (1.9 oz)
	Form Factor	2.5"
Interface	Bus Interface	SATA III 6Gb/s
Storage	Capacity	80 GB / 160 GB / 320 GB / 640 GB / 1280 GB
	Flash Type	218-layer 3D NAND flash (SLC mode)
Operating Environment	Operating Voltage	5V±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)	2.4 watt(s)
	Power Consumption (IDLE)	0.85 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 80,000 IOPS Write: Up to 86,000 IOPS
	Mean Time Between Failures (MTBF)	3,000,000 hour(s)
	Terabytes Written (TBW)	Up to 62,500 TBW
	Drive Writes Per Day (DWPD)	44.6 (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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