

## Embedded Solutions

# 2.5" SATA III SSD SSD570K & SSD570KI



Featuring a SATA III 6Gb/s interface, a powerful controller, and top-tier SLC NAND flash chips, Transcend's SSD570K ensures impeccable performance as well as reliability in embedded applications, such as embedded automation computers, engineering machines, and fanless PCs.

Transcend also offers the SSD570KI with wide temperature (-40°C ~ 85°C) capabilities to ensure sustained functionality, enhanced endurance and optimal reliability in mission-critical applications. It supports the optional advanced function, Intelligent Power Shield (IPS), for extra protection of data integrity against sudden power failures or blackouts.

## Features

- Wide-temperature model available: promised operational reliability in a wide temperature range (from -40°C ~ 85°C)
- Global Wear-Leveling and Block management for reliability
- Advanced Garbage Collection
- DRAM Cache embedded
- Built-in ECC (Error Correction Code) functionality
- Power-saving DevSleep (Device Sleep) mode
- Enhanced S.M.A.R.T. function for durability
- Compliant with RoHS 2.0 standards
- SSD570KI supports Intelligent Power Shield (IPS) to prevent data loss in the event of sudden power outage (optional)

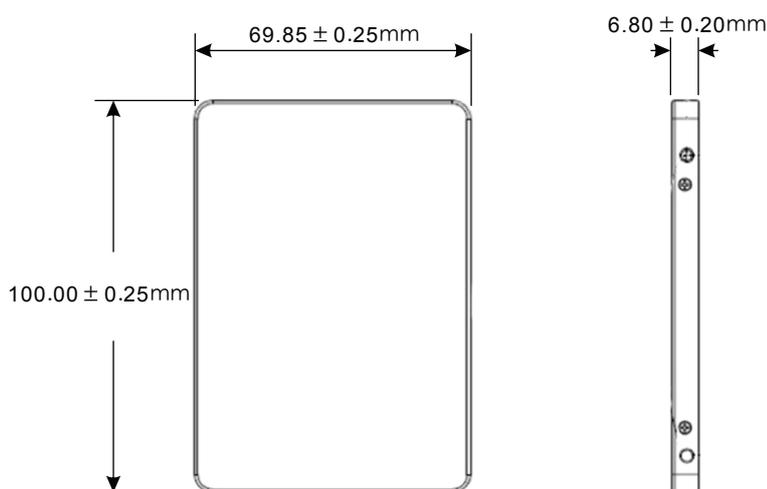
## Ordering Information

32GB	TS32GSSD570K
	TS32GSSD570KI
64GB	TS64GSSD570K
128GB	TS128GSSD570K
	TS128GSSD570KI

## Specifications

Appearance	Dimensions (Max.)	100 mm x 69.85 mm x 6.8 mm (3.94" x 2.75" x 0.27")	
	Weight (Max.)	63 g (2.22 oz)	
	Form Factor	2.5"	
Interface	Bus Interface	SATA III 6Gb/s	
Storage	Flash Type	SLC NAND flash	
	Capacity	32 GB/64 GB/128 GB	
Operating Environment	Operating Voltage	5V±5%	
	Operating Temperature	Standard	0°C (32°F) ~ 70°C (158°F)
		Wide Temp.	-40°C (-40°F) ~ 85°C (185°F)
	Storage Temperature	-40°C (-40°F) ~ 85°C (185°F)	
	Humidity	0% ~ 95%	
	Shock	1500 G, 0.5 ms, 3 axis	
Vibration (Operating)	5 G (peak-to-peak), 5 Hz ~ 800 Hz (frequency)		
Power	Power Consumption (Operation)	3.46 watt(s)	
	Power Consumption (Sleep)	0.3 watt(s)	
Performance	Sequential Read/Write (ATTO, max.)	Read: 565 MB/s ; write: 465 MB/s	
	Sequential Read/Write (CrystalDiskMark, max.)	Read: 560 MB/s ; write: 465 MB/s	
	4K Random Read/Write (IOMeter, max.)	Read: 73,000 IOPS ; write: 83,000 IOPS	
	Mean Time Between Failures (MTBF)	1,500,000 hour(s)	
	Terabytes Written (Max.)	6,000 TB	
	Drive Writes Per Day (DWPD)	43.3 (3 yrs)	
	Certificate	CE/FCC/BSMI	
Warranty	Warranty	Three-year Limited Warranty	
Note	<ul style="list-style-type: none"> <li>• Speed may vary due to host hardware, software, usage, and storage capacity.</li> <li>• The workload used to rate DWPD may be different from your actual workload, which may vary due to host hardware, software, usage, and storage capacity.</li> </ul>		

## Mechanical Specification



Product specifications are subject to change without notice. Pictures shown may differ from actual products. When used as a storage capacity unit, one terabyte (TB) = one trillion bytes. 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.



Please feel free to contact us with any special requests you might have.  
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