

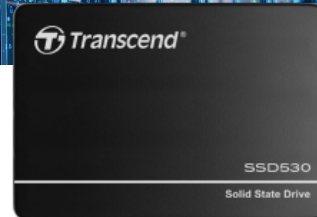


[www.transcend-info.com](http://www.transcend-info.com)



**Embedded Solutions**

2.5" SATA SSDs  
**SSD530K**



Transcend's SSD530K features the SATA III 6Gb/s interface, 3D NAND flash memory, and Transcend's exclusive SLC mode technology. Combined, these provide superior reliability and endurance nearly equivalent to SLC, yet at a cost-effective price. The SSD530K comes equipped with a DRAM cache for fast access, and is made to operate well in extended temperature(-20°C~75°C), ideal for embedded applications, such as embedded automation computers, engineering machines, and fanless PCs. Reliable speeds and customized functions cater to the requirements of various embedded system applications.

**Hardware Features**

- High-quality 3D NAND flash and SLC mode for exceptional endurance and reliability
- Endurance: 100K P/E cycles (Program/Erase cycles) guaranteed
- DDR3 DRAM Cache embedded
- Promised operational reliability in an extended temperature range (from -20°C to 75°C)
- Power Shield (PS) to ensure data transfer integrity and minimize data corruption in the drive during an abnormal power outage

**Firmware Features**

- Advanced Global Wear-Leveling and Block management for reliability
- Built-in LDPC ECC (Error Correction Code) functionality
- Power-saving DevSleep (Device Sleep) mode
- Dynamic thermal throttling
- Early Move

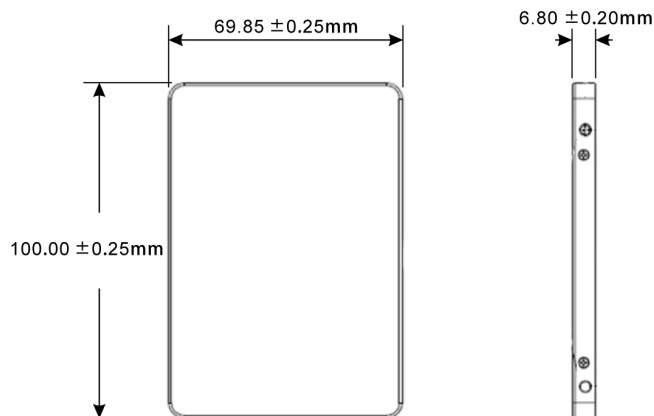
**Ordering Information**

64GB	TS64GSSD530K
128GB	TS128GSSD530K

## Specifications

<b>Appearance</b>	Dimensions	100 mm x 69.85 mm x 6.8 mm (3.94" x 2.75" x 0.27")
	Weight	54 g (1.90 oz)
	Form Factor	2.5"
<b>Interface</b>	Bus Interface	SATA III 6Gb/s
<b>Storage</b>	Flash Type	3D NAND flash (SLC mode)
	Capacity	64 GB / 128 GB
<b>Operating Environment</b>	Operating Voltage	5V±5%
	Operating Temperature	Extended Temp. -20°C (-4°F) ~ 75°C (167°F)
	Storage Temperature	-55°C (-67°F) ~ 85°C (185°F)
	Humidity	5% ~ 95%
	Shock	1500 G, 0.5 ms, 3 axis
<b>Power</b>	Vibration (Operating)	20 G (peak-to-peak), 7 Hz ~ 2000 Hz (frequency)
	Power Consumption (Operation)	2.8 watt(s)
<b>Performance</b>	Power Consumption (Sleep)	0.4 watt(s)
	Sequential Read/Write (CrystalDiskMark)	Read: up to 560 MB/s Write: up to 490 MB/s
<b>Performance</b>	4K Random Read/Write (IOMeter)	Read: up to 83,000 IOPS Write: up to 88,000 IOPS
	Mean Time Between Failures (MTBF)	3,000,000 hour(s)
	Terabytes Written (TBW)	up to 6,400 TBW
	Drive Writes Per Day (DWPD)	45.7 (3 yrs)
<b>Warranty</b>	Certificate	CE / 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.

## 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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