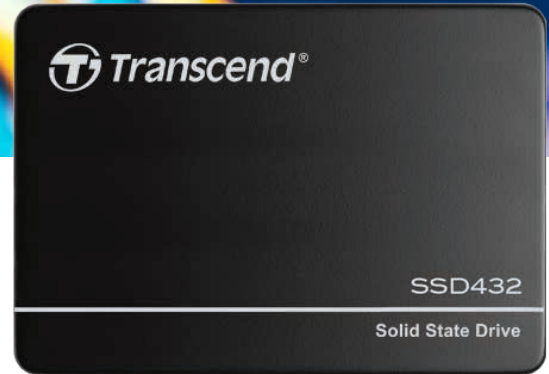


Embedded Solutions

2.5" SATA III SSD

SSD432K

3K P/E cycles



Transcend's industrial 2.5" SSD SSD432K features the SATA III 6Gb/s interface and state-of-the-art 3D NAND technology, which allows 96 layers of 3D NAND flash chips to be vertically stacked. Compared to 3D NAND at 64 layers, this density breakthrough greatly improves storage efficiency. The SSD432K is fully tested in-house to guarantee reliability in mission-critical applications, boasting an endurance rating of 3K Program/Erase cycles.

Firmware Features

- Built-in LDPC ECC (Error Correction Code) functionality
- Advanced Global Wear-Leveling and Block management for reliability
- Advanced Garbage Collection
- Enhanced S.M.A.R.T. function for durability
- TRIM command for better performance
- NCQ command for better performance

Hardware Features

- Compliant with RoHS 2.0 standards
- Endurance: 3K P/E cycles (Program/Erase cycles) guaranteed
- Supports Transcend Scope Pro software

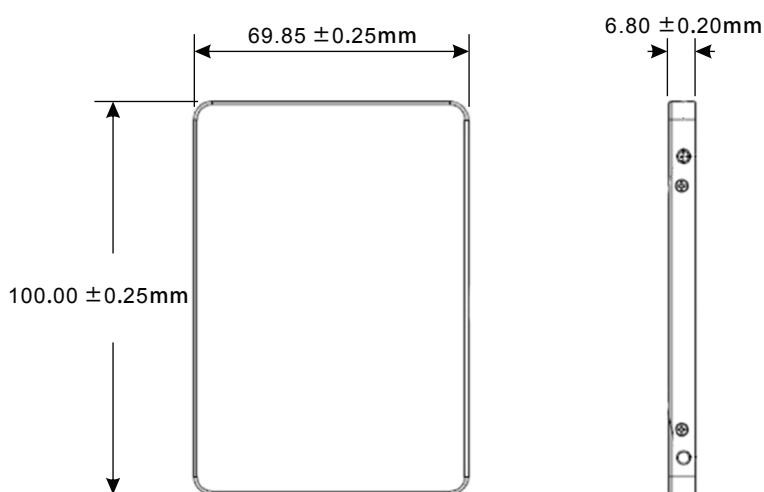
Ordering Information

64GB	TS64GSSD432K
128GB	TS128GSSD432K

Specifications

Appearance	Dimensions	100 mm x 69.85 mm x 6.8 mm (3.94" x 2.75" x 0.27")
	Weight	45 g (1.59 oz)
	Form Factor	2.5"
Interface	Bus Interface	SATA III 6Gb/s
Storage	Flash Type	3D NAND flash
	Capacity	64 GB/128 GB
Operating Environment	Operating Voltage	5V±5%
	Operating Temperature	0°C (32°F) ~ 70°C (158°F)
	Storage Temperature	-40°C (-40°F) ~ 85°C (185°F)
	Humidity	5% ~ 95%
	Shock	1500 G, 0.5 ms, 3 axis
	Vibration	5 G (peak-to-peak), 5 Hz ~ 800 Hz (frequency)
Power	Power Consumption (Operation)	2 watt(s)
	Power Consumption (Sleep)	5m watt(s)
Performance	Sequential Read/Write (CrystalDiskMark, max.)	Read: 550 MB/s ; write: 400 MB/s
	4K Random Read/Write (IOMeter, max.)	Read: 70,000 IOPS ; write: 70,000 IOPS
	Mean Time Between Failures (MTBF)	3,000,000 hour(s)
	Terabytes Written (Max.)	160 TBW
	Drive Writes Per Day (DWPD)	1.16 (3 yrs)
	Certificate	CE/FCC/BSMI
Warranty	Warranty	Three-year Limited Warranty
Note	<ul style="list-style-type: none"> • Speed may vary due to host hardware, software, usage, and storage capacity. • 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. 	

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.
Tel: +886-2-2792-8000 www.transcend-info.com