Embedded Solutions

2.5" SATA III SSD
SSD430K

With the combination of larger storage capacity and lower production costs, Transcend's 3D TLC SSDs are the game-changer to the market, delivering endurance equivalent to what MLC-based solutions once prided themselves with. Featuring a SATA III 6Gb/s interface and utilizing 3D NAND flash, the SSD430K is the ideal high-speed, lightweight, and shockproof replacement for traditional rotating hard drives, all while being extra cost-effective and brought to you at an attractive price.

Features

- Advanced Global Wear-Leveling and Block management for reliability
- Advanced Garbage Collection
- Built-in LDPC ECC (Error Correction Code) functionality
- Power Shield embedded to prevent data loss in the event of sudden power outage
- DEVSLP mode
- Enhanced S.M.A.R.T. function
- RoHS compliant
- Shock resistance
- Supports Trim and NCQ command
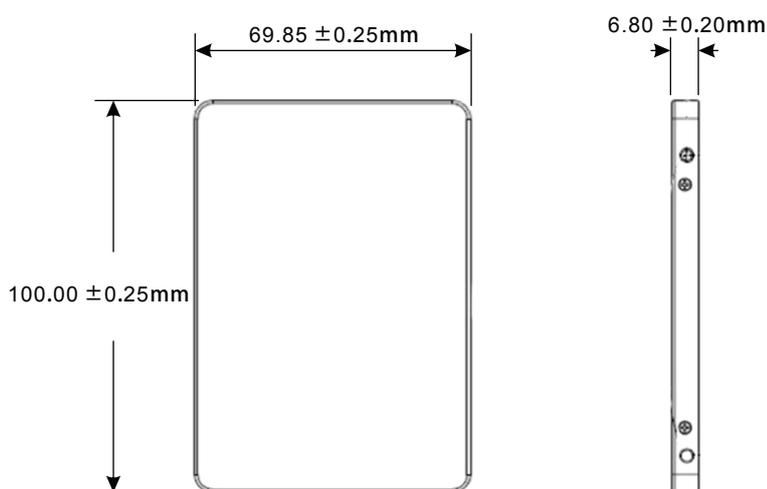- Slim, elegant and lightweight design

Ordering Information

64GB	TS64GSSD430K
128GB	TS128GSSD430K
256GB	TS256GSSD430K
512GB	TS512GSSD430K

Specifications

Appearance	Dimensions (Max.)	100 mm x 69.85 mm x 6.8 mm (3.94" x 2.75" x 0.27")
	Weight (Max.)	45 g (1.59 oz)
	Form Factor	2.5"
Interface	Bus Interface	SATA III 6Gb/s
Storage	Flash Type	3D TLC NAND flash
	Capacity	64 GB/128 GB/256 GB/512 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 (Operating)	20 G (peak-to-peak), 5 Hz ~ 800 Hz (frequency)
Power	Power Consumption (Operation)	2.5 watt(s)
	Power Consumption (Sleep)	0.6 watt(s)
Performance	Sequential Read/Write (ATTO, max.)	Read: 550 MB/s ; write: 500 MB/s
	Sequential Read/Write (CrystalDiskMark, max.)	Read: 550 MB/s ; write: 500 MB/s
	4K Random Read/Write (IOmeter, max.)	Read: 80,000 IOPS ; write: 80,000 IOPS
	Mean Time Between Failures (MTBF)	1,000,000 hour(s)
	Terabytes Written (Max.)	320 TB
	Drive Writes Per Day (DWPD)	0.57 (3 yrs)
	Certificate	CE/FCC/BSMI
Warranty	Warranty	Three-year Limited Warranty
Note	• 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

69.85 ±0.25mm

6.80 ±0.20mm

100.00 ±0.25mm

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