Embedded Solutions

2.5" SATA III SSD
SSD510K

Featuring a SATA III 6Gb/s interface and a powerful controller, Transcend's SSD510K is an ideal high-speed, lightweight, and shockproof replacement for traditional rotating hard drives. Employing Transcend's exclusive SuperMLC technology, the SSD510K provides superior reliability and endurance nearly equivalent to SLC NAND flash, yet at a cost-effective price. The SSD510K is for use in industrial-grade applications, such as embedded automation computers, engineering machines, and fanless PCs.

Features

- Transcend exclusive SuperMLC technology
- Advanced Global Wear-Leveling and Block management for reliability
- Advanced Garbage Collection
- DDR3 DRAM Cache embedded
- Built-in 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
- Slim, elegant and lightweight design
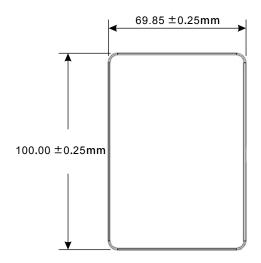- Compliant with TCG Opal specifications (optional)

Ordering Information

16GB	TS16GSSD510K
32GB	TS32GSSD510K
64GB	TS64GSSD510K
128GB	TS128GSSD510K

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	SuperMLC
	Capacity	16 GB/32 GB/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	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)	2.95 watt(s)
	Power Consumption (Sleep)	0.35 watt(s)
Performance	Sequential Read/Write (ATTO, max.)	Read: 570 MB/s ; write: 460 MB/s
	Sequential Read/Write (CrystalDiskMark, max.)	Read: 530 MB/s ; write: 440 MB/s
	4K Random Read/Write (IOmeter, max.)	Read: 75,000 IOPS ; write: 75,000 IOPS
	Mean Time Between Failures (MTBF)	1,500,000 hour(s)
	Terabytes Written (Max.)	2,840 TB
	Drive Writes Per Day (DWPD)	15.2 (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.
Tel: +886-2-2792-8000   www.transcend-info.com

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