

Embedded Solutions

2.5" SATA III SSD SSD420K



Featuring a SATA III 6Gb/s interface and a powerful controller, Transcend's SSD420K is an ideal high-speed, lightweight, and shockproof replacement for traditional rotating hard drives.

Features

- 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
- SSD420K-SE is compliant with TCG Opal specifications

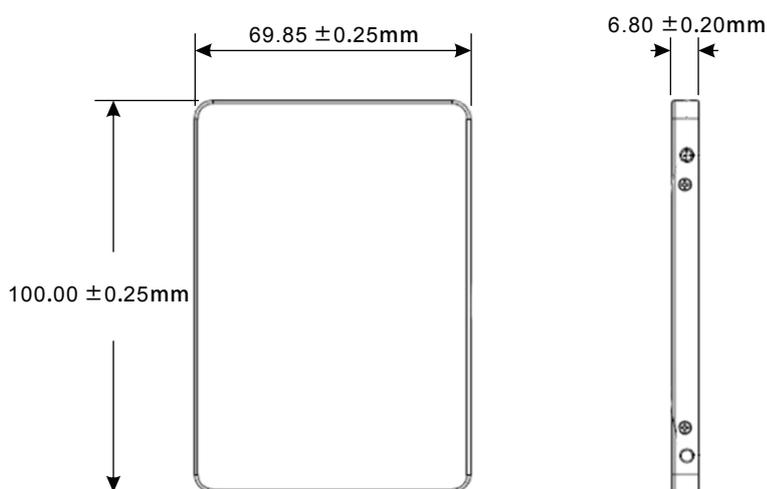
Ordering Information

16GB	TS16GSSD420K
32GB	TS32GSSD420K
64GB	TS64GSSD420K
128GB	TS128GSSD420K
256GB	TS256GSSD420K TS256GSSD420K-SE
512GB	TS512GSSD420K
1TB	TS1TSSD420K

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	MLC NAND flash
	Capacity	16 GB/32 GB/64 GB/128 GB/256 GB/512 GB/1 TB
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)	2.65watt(s)
	Power Consumption (Sleep)	0.4 watt(s)
Performance	Sequential Read/Write (ATTO, max.)	Read: 570 MB/s ; write: 470 MB/s
	Sequential Read/Write (CrystalDiskMark, max.)	Read: 530 MB/s ; write: 470 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.)	2,940TB
	Drive Writes Per Day (DWPD)	2.6 (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.
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