

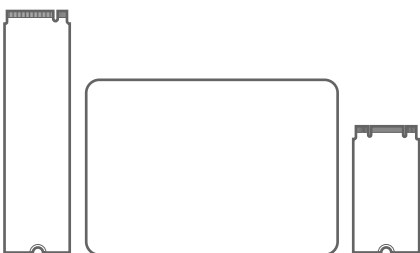
Embedded Solutions

2.5" SATA III SSD

Featuring a SATA III interface and a powerful controller, Transcend's 2.5" SATA SSD is the ideal high-speed, lightweight and shockproof replacement for traditional rotating hard drives. With built-in Power Shield, Transcend's 2.5" SSD provides extra protection to data integrity against sudden power failures or blackouts.

Features

- Fast load times and lag-free multitasking
- Supports TRIM, NCQ, S.M.A.R.T. and firmware updates
- Silent, low-power operation
- Resistant to shock and vibration
- Backward compatible with SATA II 3Gb/s and SATA I 1.5Gb/s
- SuperMLC technology allows MLC NAND to act as SLC NAND
- 3D NAND flash for high performance and endurance
- Built-in ECC (Error Correction Code) and Wear-leveling algorithm ensure reliable data transfer
- Built-in Power Shield prevents data loss in the event of a sudden power outage



Specifications

	SSD430K	SSD450K	SSD410K	SSD420K/SSD420I	SSD510K	SSD570K/SSD570KI
Flash Type	3D TLC		MLC		SuperMLC	SLC
Connector	SATA (7+15-pin)					
Capacity	64GB~512GB	64GB~1TB	64GB	16GB~1TB	16GB~128GB	8GB~128GB
Sequential Read*	550 MB/s	550 MB/s	540 MB/s	570 MB/s	570 MB/s	565 MB/s
Sequential Write*	500 MB/s	520 MB/s	100 MB/s	470MB/s	460 MB/s	465 MB/s
4K Random Read*	80,000 IOPS	85,000 IOPS	35,000 IOPS	75,000 IOPS		73,000 IOPS
4K Random Write*	80,000 IOPS	85,000 IOPS	25,000 IOPS	75,000 IOPS		83,000 IOPS
Operating Temperature	0°C~70°C**			0°C~70°C		
Storage Temperature	-40°C~85°C					
Humidity	5%~95%			0%~95%		
Shock	1,500G, 0.5ms					
Vibration	5G (peak-to-peak), 5Hz to 800 Hz (Operating) 20G (peak-to-peak), 5Hz to 800 Hz (Non-Operating)					
Operating Voltage	5V±5%					
Power Consumption	2.57W (active) 0.58W (idle)	2.8W (active), 0.48W (idle)	1.65W (active), 0.25W (idle)	2.65W (active), 0.4W (idle)	2.95W (active), 0.35W (idle)	2.1W (active), 0.4W (idle)
Dimensions (max.)	100 x 69.85 x 6.8mm					
TBW*	160 TB	320 TB	40 TB	1,470 TB	1,420 TB	3,000 TB
MTBF	1,000,000 hours			1,500,000 hours		
Warranty	Three-year Limited Warranty					

*Maximum performance shown. Performance varies by capacity, user hardware, and system configuration.

**Wide temperature (-40°C~85°C) available by request.

Ordering Information

SSD430K	TS64GSSD430K	64GB	SSD420K/ SSD420I	TS16GSSD420K	16GB	SSD510K	TS16GSSD510K	16GB
	TS128GSSD430K	128GB		TS32GSSD420K	32GB		TS32GSSD510K	32GB
	TS256GSSD430K	256GB		TS32GSSD420I	32GB		TS64GSSD510K	64GB
	TS512GSSD430K	512GB		TS64GSSD420K	64GB		TS128GSSD510K	128GB
SSD450K	TS64GSSD450K	64GB	SSD420K/ SSD420I	TS64GSSD420I	64GB	SSD570K/ SSD570KI	TS8GSSD570K	8GB
	TS128GSSD450K	128GB		TS128GSSD420K	128GB		TS16GSSD570K	16GB
	TS256GSSD450K	256GB		TS128GSSD420I	128GB		TS32GSSD570K	32GB
	TS512GSSD450K	512GB		TS256GSSD420K	256GB		TS32GSSD570KI	32GB
	TS1TSSD410K	1TB		TS256GSSD420I	256GB		TS64GSSD570K	64GB
SSD410K	TS64GSSD410K	64GB	SSD420K/ SSD420I	TS512GSSD420K	512GB	SSD570K/ SSD570KI	TS64GSSD570I	64GB
				TS512GSSD420I	512GB		TS128GSSD570K	128GB
				TS1TSSD420K	1TB		TS128GSSD570I	128GB
				TS1TSSD420I	1TB			



Mechanical Dimensions

SSD430K/SSD450K/SSD410K/SSD420K/SSD420I/SSD510K/SSD570K/SSD570KI

