



3K P/E cycles Wide Temperature

Rated to endure 3K P/E cycles and featuring a SATA III 6Gb/s interface as well as 3D NAND flash, Transcend's SSD450K-I 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. The SSD450K-I is built with DRAM cache for reliable speeds, outstanding cache performance and customized functions to cater to the requirements of various embedded applications. The SSD450K-I can also perform in a wide range of operating temperatures, and is fully tested in-house to guarantee sustained functionality, enhanced endurance and optimal reliability in mission-critical applications.

Features

- Endurance: 3K P/E cycles (Program/Erase cycles) guaranteed
- Promised operational reliability in a wide temperature range (from -40°C to 85°C)
- Advanced Global Wear-Leveling and Block management for reliability
- Advanced Garbage Collection
- DDR3 DRAM Cache embedded
- Built-in LDPC ECC (Error Correction Code) functionality
- Enhanced S.M.A.R.T. function
- Supports DEVSLP mode (optional)
- **RoHS 2.0 compliant**
- Shock resistance
- Slim, elegant, and lightweight aluminum design
- Non-volatile Flash Memory for outstanding data retention



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Ordering Information

| 128GB | TS128GSSD450K-I |
|-------|-----------------|
| 256GB | TS256GSSD450K-I |
| 512GB | TS512GSSD450K-I |



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 | 3D TLC NAND flash |
| | Capacity | 128 GB/256 GB/512 GB |
| Operating Environment | Operating Voltage | 5V±5% |
| | Operating Temperature | -40°C (-40°F) ~ 85°C (185°F) |
| | Storage Temperature | -40°C (-40°F) ~ 85°C (185°F) |
| | Humidity | 5% ~ 95% |
| | Shock | 1500 G, 0.5 ms, 3 axis |
| | Vibration (Non-Operating) | 2.17 G (peak-to-peak), 10 Hz ~ 700 Hz (frequency) |
| Power | Power Consumption (Operation) | 2.3 watt(s) |
| | Power Consumption (Sleep) | 0.3 watt(s) |
| Performance | Sequential Read/Write (CrystalDiskMark, max.) | Read: 550 MB/s ; write: 520 MB/s |
| | 4K Random Read/Write (IOmeter, max.) | Read: 85,000 IOPS ; write: 85,000 IOPS |
| | Mean Time Between Failures (MTBF) | 3,000,000 hour(s) |
| | Terabytes Written (Max.) | 880 TB |
| | Drive Writes Per Day (DWPD) | 1.61 (3 yrs) |
| Warranty | Certificate | CE/FCC/BSMI |
| | 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. | |

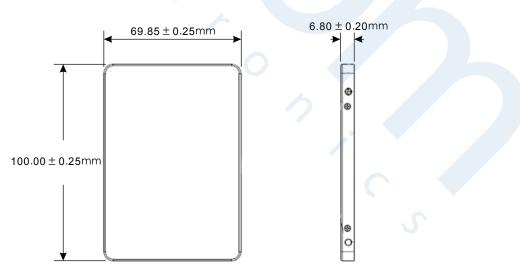
Mechanical Specification

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Product specifications are subject to change without notice. Pictures shown may differ from actual products. 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.

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