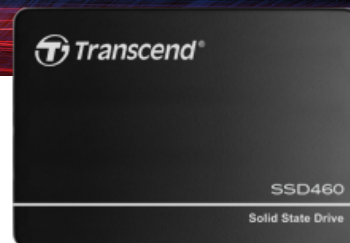


Embedded Solutions



2.5" SATA SSDs

SSD460K & SSD460K-I

Transcend's industrial 2.5" DRAM-less SSD SSD460K features the SATA III 6Gb/s interface and state-of-the-art 3D NAND technology, which allows 112 layers of 3D NAND flash chips to be vertically stacked. Compared to 3D NAND at 96 layers, this density breakthrough greatly improves storage efficiency. The SSD460K is fully tested in-house to guarantee reliability in mission-critical applications, boasting an endurance rating of 3K Program/Erase cycles and an extended operating temperatures ranging from -20°C~75°C.

Transcend also offers the SSD460K-I with wide temperature (-40°C ~ 85°C) capabilities to ensure sustained functionality, enhanced endurance and optimal reliability in mission-critical applications.

Hardware Features

- Compliant with RoHS 2.0 standards
- Endurance: 3K P/E cycles (Program/Erase cycles) guaranteed
- Supports Transcend Scope Pro software
- Power Shield (PS) to ensure data transfer integrity and minimize data corruption in the drive during an abnormal power outage
- Anti-sulfur technology implemented to prevent sulfurization in the environment

Firmware Features

- NCQ command for better performance
- TRIM command for better performance
- Supports S.M.A.R.T. function to conduct health monitoring, analysis, and reporting for storage devices
- Advanced Garbage Collection
- Advanced Global Wear-Leveling and Block management for reliability

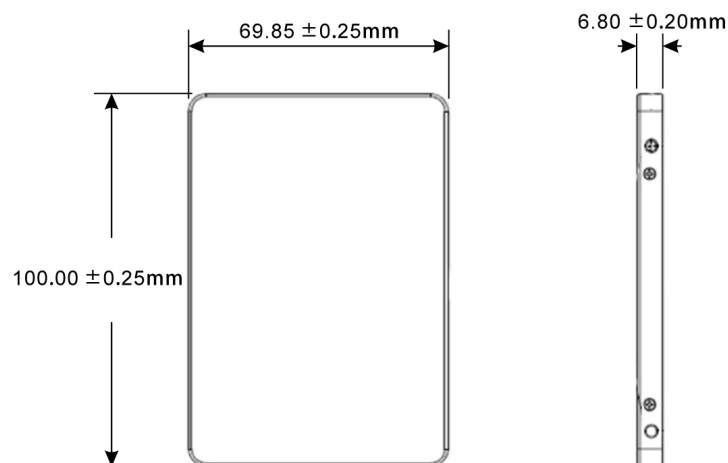
Ordering Information

| | |
|-------|----------------------------------|
| 64GB | TS64GSSD460K TS64GSSD460K-I |
| 128GB | TS128GSSD460K TS128GSSD460K-I |
| 256GB | TS256GSSD460K TS256GSSD460K-I |
| 512GB | TS512GSSD460K TS512GSSD460K-I |
| 1TB | TS1TSSD460K TS1TSSD460K-I |
| 2TB | TS2TSSD460K TS2TSSD460K-I |

Specifications

| | | |
|------------------------------|--|---|
| Appearance | Dimensions | 100 mm x 69.85 mm x 6.8 mm (3.94" x 2.75" x 0.27") |
| | Weight | 54 g (1.9 oz) |
| | Form Factor | 2.5" |
| Interface | Bus Interface | SATA III 6Gb/s |
| Storage | Capacity | 64 GB / 128 GB / 256 GB / 512 GB / 1 TB / 2 TB |
| | Flash Type | 112-layer 3D NAND flash |
| Operating Environment | Operating Voltage | 5V±5% |
| | Operating Temperature | Extended Temp. -20°C (-4°F) ~ 75°C (167°F) |
| | | Wide Temp. -40°C (-40°F) ~ 85°C (185°F) |
| | Storage Temperature | -55°C (-67°F) ~ 85°C (185°F) |
| | Humidity | 5% ~ 95% |
| | Shock | 1500 G, 0.5 ms, 3 axis |
| Vibration (Operating) | 20 G (peak-to-peak), 7 Hz ~ 2,000 Hz (frequency) | |
| Power | Power Consumption (Operation) | 1.9 watt(s) |
| | Power Consumption (IDLE) | 0.3 watt(s) |
| Performance | Sequential Read/Write (CrystalDiskMark) | Read: up to 560 MB/s Write: up to 500 MB/s |
| | 4K Random Read/Write (IOmeter) | Read: up to 55,000 IOPS Write: up to 80,000 IOPS |
| | Mean Time Between Failures (MTBF) | 3,000,000 hour(s) |
| | Terabytes Written (TBW) | up to 4376 TBW |
| | Drive Writes Per Day (DWPD) | 1.95 (3 yrs) |
| Warranty | Certificate | CE / FCC / BSMI / UKCA |
| | Warranty | Three-year Limited Warranty |

Mechanical Dimensions



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.