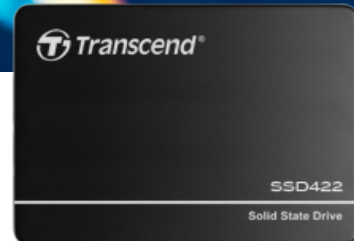


Embedded Solutions



2.5" SATA SSDs

SSD422K

Featuring the SATA III 6Gb/s interface, a powerful controller, and top-tier MLC NAND flash chips, Transcend's SSD422K ensures impeccable performance and reliability.

Hardware Features

- Compliant with RoHS 2.0 standards
- MLC NAND flash
- DDR3 DRAM Cache embedded
- Power Shield (PS) to ensure data transfer integrity and minimize data corruption in the drive during an abnormal power outage

Firmware Features

- Supports S.M.A.R.T. function to conduct health monitoring, analysis, and reporting for storage devices
- Built-in BCH ECC (Error Correction Code) functionality
- Advanced Global Wear-Leveling and Block management for reliability
- Power-saving DevSleep (Device Sleep) mode

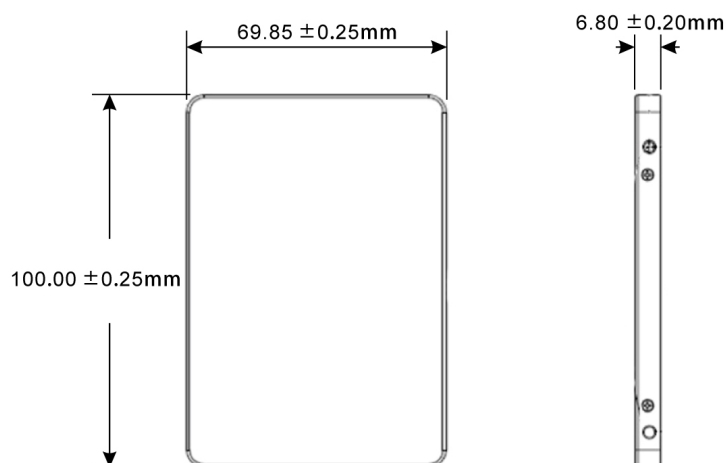
Ordering Information

| | |
|-------|---------------|
| 32GB | TS32GSSD422K |
| 64GB | TS64GSSD422K |
| 128GB | TS128GSSD422K |
| 256GB | TS256GSSD422K |
| 512GB | TS512GSSD422K |
| 1TB | TS1TSSD422K |

Specifications

| | | |
|------------------------------|---|---|
| Appearance | Dimensions | 100 mm x 69.85 mm x 6.8 mm (3.94" x 2.75" x 0.27") |
| | Weight | 63 g (2.22 oz) |
| | Form Factor | 2.5" |
| Interface | Bus Interface | SATA III 6Gb/s |
| Storage | Flash Type | MLC NAND flash |
| | Capacity | 32 GB / 64 GB / 128 GB / 256 GB / 512 GB / 1 TB |
| Operating Environment | Operating Voltage | 5V±5% |
| | Operating Temperature | Standard Temp. 0°C (32°F) ~ 70°C (158°F) |
| | Storage Temperature | -55°C (-67°F) ~ 85°C (185°F) |
| | Humidity | 0% ~ 95% |
| | Shock | 1500 G, 0.5 ms, 3 axis |
| | Vibration (Operating) | 20 G (peak-to-peak), 7 Hz ~ 2000 Hz (frequency) |
| Power | Power Consumption (Operation) | 3.2 watt(s) |
| | Power Consumption (Sleep) | 0.6 watt(s) |
| Performance | Sequential Read/Write (CrystalDiskMark) | Read: up to 550 MB/s Write: up to 460 MB/s |
| | 4K Random Read/Write (IOMeter) | Read: up to 68,000 IOPS Write: up to 68,000 IOPS |
| | Mean Time Between Failures (MTBF) | 2,000,000 hour(s) |
| | Terabytes Written (TBW) | up to 2940 TBW |
| | Drive Writes Per Day (DWPD) | 2.6 (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.