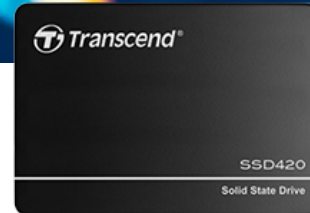




www.transcend-info.com

**Embedded Solutions**



2.5" SATA SSDs

# SSD420K & SSD420I

Featuring the SATA III 6Gb/s interface, a powerful controller, and top-tier MLC NAND flash chips, Transcend's SSD420K ensures impeccable performance as well as reliability.

Transcend also offers the SSD420I 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
- MLC NAND flash
- DDR3 DRAM Cache embedded
- Promised operational reliability in a wide temperature range (from -40°C to 85°C)
- Supports Transcend Scope Pro software

## Firmware Features

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

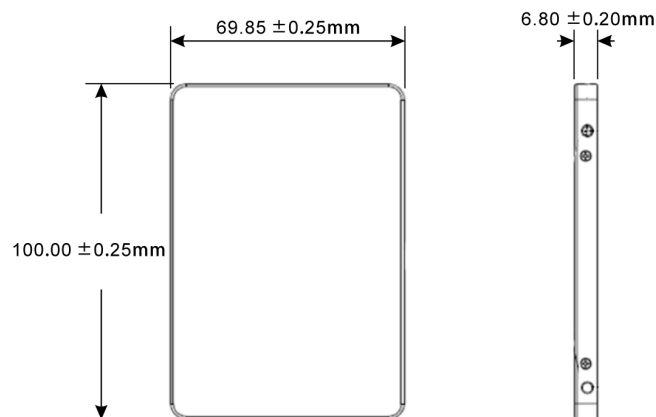
## Ordering Information

|       |                                |
|-------|--------------------------------|
| 16GB  | TS16GSSD420K<br>TS16GSSD420I   |
| 32GB  | TS32GSSD420K<br>TS32GSSD420I   |
| 64GB  | TS64GSSD420K<br>TS64GSSD420I   |
| 128GB | TS128GSSD420K<br>TS128GSSD420I |
| 256GB | TS256GSSD420I<br>TS256GSSD420K |
| 512GB | TS512GSSD420K<br>TS512GSSD420I |
| 1TB   | TS1TSSD420K<br>TS1TSSD420I     |

## Specifications

|                              |  |   |
|------------------------------|--|---|
| <b>Appearance</b>            | 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"  |
| <b>Interface</b>             | Bus Interface                                  | SATA III 6Gb/s  |
| <b>Storage</b>               | Flash Type                                     | MLC NAND flash  |
|                              | Capacity                                       | 16 GB / 32 GB / 64 GB / 128 GB / 256 GB / 512 GB / 1 TB |
| <b>Operating Environment</b> | Operating Voltage                              | 5V±5%   |
|                              | Operating Temperature                          | Standard<br>0°C (32°F) ~ 70°C (158°F)                   |
|                              |  | Wide Temp.<br>-40°C (-40°F) ~ 85°C (185°F)              |
|                              | Storage Temperature                            | -40°C (-40°F) ~ 85°C (185°F)                            |
|                              | Humidity                                       | 0% ~ 95%  |
|                              | Shock  | 1500 G, 0.5 ms, 3 axis                                  |
| Vibration (Operating)        | 20 G (peak-to-peak), 5 Hz ~ 800 Hz (frequency) |   |
| <b>Power</b>                 | Power Consumption (Operation)                  | 2.65 watt(s)  |
|                              | Power Consumption (Sleep)                      | 0.4 watt(s)   |
| <b>Performance</b>           | Sequential Read/Write (CrystalDiskMark)        | Read: up to 530 MB/s<br>Write: up to 470 MB/s           |
|                              | 4K Random Read/Write (IOMeter)                 | Read: up to 75,000 IOPS<br>Write: up to 75,000 IOPS     |
|                              | Mean Time Between Failures (MTBF)              | 2,000,000 hour(s)                                       |
|                              | Terabytes Written (TBW)                        | up to 2,940 TBW   |
|                              | Drive Writes Per Day (DWPD)                    | 2.6 (3 yrs)   |
| <b>Warranty</b>              | Certificate                                    | CE / FCC / BSMI   |
|                              | 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.

## Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

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