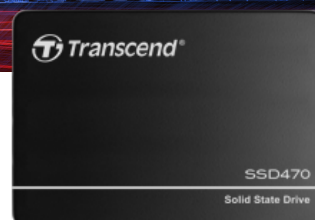




www.transcend-info.com

Embedded Solutions



2.5" SATA SSDs

SSD470P & SSD470P-I

Transcend's SSD470P 2.5" SSD is a Power Loss Protection (PLP) SSD. During unexpected power outages, the built-in tantalum capacitor provides power to the controller and DRAM cache, ensuring data integrity and storage reliability.

Transcend's SSD470P SSD features a SATA III 6Gb/s interface and 112-layer 3D NAND flash, delivering breakthrough density that greatly improves storage efficiency. Its built-in DRAM cache enables fast random read and write speeds, and improves drive endurance. In addition, the anti-sulfur resistor guarantees its reliability in harsh conditions. Transcend's SSD470P is also 100% chamber tested in-house for extended operating temperatures of -20°C~75°C. Wide-temp capability (-40°C~85°C) is also available upon request, allowing for stable operation in extreme environments.

Hardware Features

- DDR3 DRAM Cache embedded
- Endurance: 3K P/E cycles (Program/Erase cycles) guaranteed
- Anti-sulfur technology implemented to prevent sulfurization in the environment
- Power Loss Protection (PLP) to prevent data loss in the event of sudden power outage
- Extended Temp. (-20°C ~ 75°C) and Wide Temp. (-40°C ~ 85°C) options available

Firmware Features

- Built-in LDPC ECC (Error Correction Code) functionality
- Advanced Global Wear-Leveling and Block management for reliability
- Advanced Garbage Collection
- Supports S.M.A.R.T. function to conduct health monitoring, analysis, and reporting for storage devices
- Dynamic thermal throttling

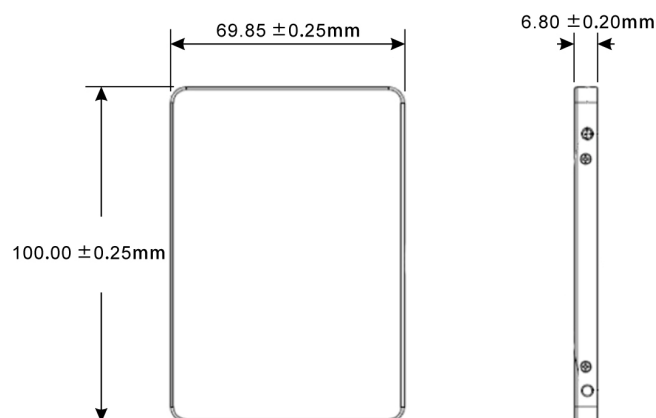
Ordering Information

| | |
|-------|----------------------------------|
| 128GB | TS128GSSD470P TS128GSSD470P-I |
| 256GB | TS256GSSD470P TS256GSSD470P-I |
| 512GB | TS512GSSD470P TS512GSSD470P-I |
| 1TB | TS1TSSD470P TS1TSSD470P-I |
| 2TB | TS2TSSD470P TS2TSSD470P-I |
| 4TB | TS4TSSD470P TS4TSSD470P-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 | 128 GB / 256 GB / 512 GB / 1 TB / 2 TB / 4 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 ~ 2000 Hz (frequency) |
| Power | Power Consumption (Operation) | 4.6 watt(s) |
| | Power Consumption (Sleep) | 0.6 watt(s) |
| Performance | Sequential Read/Write (CrystalDiskMark) | Read: up to 560 MB/s Write: up to 520 MB/s |
| | 4K Random Read/Write (IOMeter) | Read: up to 90,000 IOPS Write: up to 85,000 IOPS |
| | Mean Time Between Failures (MTBF) | 3,000,000 hour(s) |
| | Terabytes Written (TBW) | up to 2420 TBW |
| | Drive Writes Per Day (DWPD) | 2.16 (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.

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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