

Embedded Solutions



2.5" SATA SSDs SSD910T

Introducing Transcend's SSD910T 2.5" Enterprise SSD, designed for large data centers and high-performance servers. With high-quality 3D NAND flash, a SATA III 6Gb/s interface, and a DRAM cache, it delivers rapid transfer speeds for handling massive data loads. Experience high Quality of Service (QoS), ultra-low latency, and optimal endurance, resulting in incredibly fast loading times. The integrated Power Loss Protection (PLP) ensures data integrity, even during power fluctuations. Upgrade to Transcend's SSD910T for unmatched performance in web servers and media streaming applications.

Hardware Features

- DRAM Cache embedded
- High-quality 3D NAND flash
- Power Loss Protection (PLP) to prevent data loss in the event of sudden power outage
- Compliant with RoHS standards

Firmware Features

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

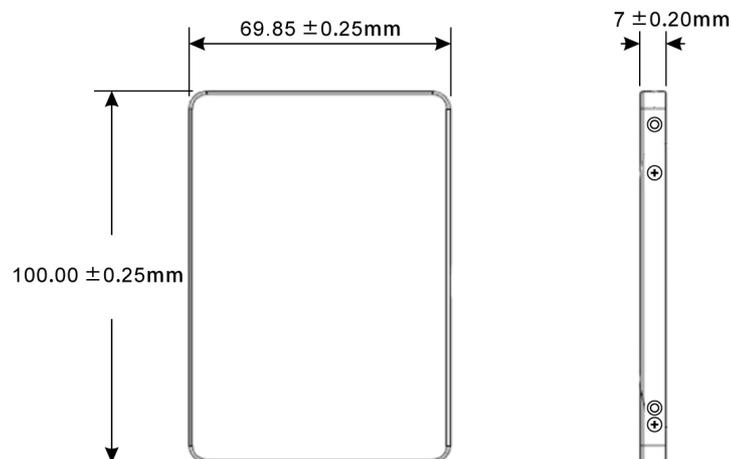
Ordering Information

240GB	TS240GSSD910T
480GB	TS480GSSD910T
960GB	TS960GSSD910T

Specifications

Appearance	Dimensions	100 mm x 69.85 mm x 7 mm (3.94" x 2.75" x 0.28")
	Form Factor	2.5"
Interface	Bus Interface	SATA III 6Gb/s
Storage	Capacity	240 GB / 480 GB / 960 GB
	Flash Type	3D NAND flash
Operating Environment	Operating Voltage	5V±5%
	Operating Temperature	Standard Temp. 0°C (32°F) ~ 70°C (158°F)
	Storage Temperature	-40°C (-40°F) ~ 85°C (185°F)
	Humidity	0% ~ 90%
	Shock	1500 G, 0.5 ms, 3 axis
	Vibration (Operating)	20 G (peak-to-peak), 80 Hz ~ 2000 Hz (frequency)
Power	Power Consumption (Operation)	2.9 watt(s)
	Power Consumption (Sleep)	1.3 watt(s)
Performance	Read Speed (Max.)	up to 390 MB/s
	Write Speed (Max.)	up to 448 MB/s
	Sequential Read/Write	Read: up to 390 MB/s Write: up to 448 MB/s
	4K Random Read/Write	Read: up to 9,578 IOPS Write: up to 45,100 IOPS
	Quality of Service (QoS)	99% Read: 137us Write: 31.36us 99.9% Read: 190us Write: 42.752us
	Latency (4K, QD=1)	Read: 101.2us Write: 18.667us
	Mean Time Between Failures (MTBF)	2,000,000 hour(s)
	Terabytes Written (TBW)	up to 1320 TBW
	Drive Writes Per Day (DWPD)	3.01 (5 yrs)
	Warranty	Certificate
Warranty		Five-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.