

TCS Triton® 2 Solid State Hard Drive

2.5" SATA III MLC Industrial/Enterprise SSD Standard & Secure



Features

- Support of the SATA 3.0 specification at 1.5, 3.0, and 6.0 Gb/s
- Provides secure erase capability for quick, safe removal of data
- Independently tested to MIL-STD-810 for proven ruggedness

Applications

- Ruggedized computers, notebooks and tablets
- Avionics, cockpit instrumentation, in-flight entertainment and data storage
- Unmanned aerial, ground-based and sub-maritime vehicles
- Radar & guidance systems
- Submarines
- Gas & Oil platform's displays and sensors
- Extreme shock, vibration and temperature environments
- Anywhere other solid state drives fail

The TCS Triton 2 SATA 3.0 solid state hard drive (SSD) is a 2.5" form factor, high performance, low-cost, ultra-rugged SSD. Equipped with industrial temperature Multi-Level Cell (MLC) flash and TCS' years of military program experience, the Triton 2 is hardened to withstand the harshest environments possible.

At 1.4 drive writes per day (DWPD) for up to 5 years, the Triton 2 SSD mixes enterprise class performance and reliability with military ruggedness at a low cost per GB.

Triton 2 SSDs support the SATA revision 3.0 interface standard at up to 6.0 Gb/s. Triton 2 takes advantage of this standard by delivering sustained reads up to 468MB/s and sustained writes up to 458MB/s. A robust interface is ensured by integrated hardware support for on-the-fly, per sector error detection and correction. The resulting Bit Error Rate is less than one in a hundred trillion bits read.

Secure erase functionality features four different agency-approved enhanced erase methods. Erasure can be initiated by either software command or hardware signal.

Rigorously tested and independently verified to MIL-STD-810, the ultra-rugged Triton 2 SSD will perform flawlessly in severe conditions. With optional silicone, urethane or Parylene conformal coating, 96 hour burn-in, extreme temperature screening, epoxy staking and gel fill, the Triton 2 can adapt to any environment imaginable.

Designed and manufactured in the USA at AS9100-certified facilities, TCS manufactures the most reliable and rugged solid state drives available.

GLOBAL SALES:
 Nathaniel Wells
 Tel: 443.510.3748
 Email: nwells@telecomsys.com

PRODUCTION FACILITY:
 206 Kelsey Lane
 Tampa, FL 33619 USA
 Tel: 443.223.5618
 Email: sctsales@telecomsys.com

See TCS' complete line of products and services at www.telecomsys.com.

Your Established Partner

TCS brings proven, technology problem-solving expertise to its professional service offerings for the public sector. From continuity of operations and information assurance, to cyber security and integrated logistics support, TCS solves the toughest technical challenges, under conditions that demand the highest level of reliability, availability, and security. As an ISO 9000-certified provider with many consultants holding active security clearances, TCS has an established track record over the past decade as a trusted partner providing mission continuity for the Department of Defense, Special Operations and intelligence communities, the Department of Homeland Security, and the Department of State.

TeleCommunication Systems, Inc.
 275 West Street
 Annapolis, MD 21401 USA
 Toll Free: 1.888.728.8797
 Outside US: +1.410.263.7616
www.telecomsys.com

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Specifications	
Performance	
Capacity (MLC)	Raw: 128.0GB, 256.0GB, 512.0GB Usable: 119.2GB, 238.4GB, 476.8GB
Sustained Read (512GB SSD)	Up to 468 MB/s
Sustained Write (512GB SSD)	Up to 458 MB/s
Random Read, 4KB blocks (512GB SSD)	>42,500
Random Write, 4KB blocks (512GB SSD)	>12,300
Security Erase Methods	
Fast Erase, NSA 9-12, CSS 130-2, RCC-TG IRIG 106-07	
Power	
Input Voltage	+5VDC ± 10%
Read Max (512GB SSD)	1.9W
Write Max (512GB SSD)	6.25W
Max. In-rush Current (512GB SSD)	3.5A
Reliability	
MTBF	> 1.5 million hours, Telcordia 25°C
Data Reliability	< 1 non-recoverable error in 10 ¹⁴ bits read
Data Retention	> 10 years when new
Endurance	1.4 DWPD up to 5 years
Wear-Leveling	Proprietary static and dynamic algorithms
Environment	
Operating Temperature	-40°C to +85°C
Storage Temperature	-55°C to +95°C
Altitude	80,000 feet
Humidity	5% to 95% relative humidity, non-condensing
Shock	1,500G at 0.5ms, Half Sine Wave
Vibration	16.3G RMS minimum
Mechanical	
Dimensions (mm)	ATA Standard (Indicated in the graphic below)

