ST91000640SS

SEAGATE Constellation 1TB Serial ATA Raid Ready 6-Gb/s SAS Hard Drive

Product Overview

SEAGATE Constellation 1TB Serial ATA Raid Ready 6-Gb/s SAS Hard Drive, 7200RPM, 64MB Cache, Self-Encrypting Drive (SED), 115MB/s Sustained data transfer rate, 4.16ms Average latency, 1,400,000 hours MTBF.



Specifications

Overview:

The Constellation 7200 hard drive enables secure, manageable nearline storage solutions in 2.5" chassis - either direct attach or in a tiered storage environment - at the lowest power usage without compromising performance or reliability. Constellation 500GB SAS drives with self-encrypting drive technology deliver cost-effective, secure enterprise-class storage for nearline applications.

Seagate Constellation.2 drives are the most energy efficient enterprise drives on the market. Designed for enterprise robustness, Constellation.2 is available in capacities up to 1TB and offers reliable storage for high capacity servers and storage arrays in a minimal footprint.

Features:

- Industry's first 2.5-inch 1TB capacity-optimized drive for dense, space-constrained data centers allows you to store twice as much data in the same footprint.
- Meets regulatory data security compliance requirements and is FIPS 140-2 Validated to protect Sensitive but Unclassified and Protected class data.
- Build highly efficient bulk storage solutions while lowering your power consumption costs.
- Designed for robust 24x7 operation with a 1.4M hour mean-time-between-failure (MTBF) rating.
- Best-in-class rotational vibration tolerance ensures unrivaled performance in high spindle-density applications, and multi-drive firmware maximizes system availability.
- Choose from 6Gb/s SAS with improved data integrity, scalability and fastest data access or SATA 6Gb/s for economical 7200-RPM performance.
- Self-Encrypting Drive (SED) models with secure erase technology cut IT drive retirement costs while securely protecting data where it lives - on the drive.* (* Self-Encrypting Drives (SED) and FIPS 140-2 Validated drives are not available in all models or countries.May require TCG-compliant host or controller support).

Specifications:

Model Number	ST91000640SS
Interface	6-Gb/s SAS
Cache	64MB
Capacity	1TB
Areal density (avg)	417Gb/in2
Guaranteed Sectors	1, 953, 525, 168
PHYSICAL	
Height (maximum)	15.00mm
Width (maximum)	70.10mm
Length (maximum)	100.45mm
Weight (typical)	200g
PERFORMANCE	
Spin Speed (RPM)	7200 RPM
Sustained data transfer rate	115MB/s
Average latency	4.16ms
Random read seek time	7.5ms
Random write seek time	8.5ms
I/O data transfer rate	600MB/s
Unrecoverable read errors	1 in 1015
RELIABILITY	
MTBF	1, 400, 000 hours
Annual Failure Rate	0.62%
POWER	
12V start max current	0.88A
5V start max current	0.69A
Average idle power	3.84W
Average operating power	6.35W
TEMPERATURE	
Operating	5 degrees-60 degreesC
Nonoperating	-40 degrees-70 degreesC
Maximum operating temperature change	20 degreesC per hour
Maximum nonoperating temperature change	20 degreesC per hour
SHOCK	
Operating Shock (max)	25 Gs for 2ms
Non operating Shock (max)	400 Gs for 2ms

ACOUSTICS	
Acoustics (Idle Volume)	2.2 bels
Features	
Storage Type	HDD

Product Information Online

For the latest product information, availability and purchasing details, please visit the product page:

Product page:
https://www.comx-computers.co.za/ST91000640SS-SEAGATE-Constellation-1TB-Serial-ATA-Raid-Ready-6-Gb-s-SAS-Hard-Drive-p-57526.php

Images and specifications are provided for reference and are subject to change without notice. E&OE.

Terms of Use: https://www.comx-computers.co.za/terms-of-use.php
Terms of Sale: https://www.comx-computers.co.za/terms-of-sale.php

PDF generated: 2026-11-20 09:57:46.

This PDF was generated automatically and may include content prepared or assisted by automated or AI-based systems. While reasonable care is taken to ensure accuracy, errors or omissions may occur.

For the most current and accurate product information, please refer to the product information available on our website. If any specification or other information differs from information published elsewhere, please confirm the details with us before relying on the information or making a purchasing decision.

If you identify an error or discrepancy, please report it to us so that we may investigate and correct it where necessary.