

Product Overview

Constellation.2™

Design small and deliver BIG— 2.5-inch, eco-friendly nearline drive

Key Advantages

- Second generation of industry's first 2.5-inch, mainstream capacity, 15mm z-height, enterprise-class nearline drive for space-constrained data centers
- Choose 6Gb/s SAS for improved data integrity, scalability over longer distances and fast data access, or SATA 6Gb/s for fast, economical Tier 2/nearline performance.
- The industry's highest-reliability 7200-RPM drive, designed for 24x7 operation with an MTBF (mean time between failures) rating of 1.4M hours and an AFR (annualized failure rate) of 0.62%—all backed by a 5-year limited warranty
- Enterprise-class firmware features and best-in-class rotational vibration tolerance maximizes system availability and performance in multi-drive systems, ensuring top performance of up to 115MB/s of maximum sustained throughput.
- Lowest operating power (under 6.4W) and enhanced PowerChoice™ options for additional power savings (up to 54 percent—as low as 1.1W) during slow or idle periods; Workload Management™ technology helps systems to keep drives cool.
- Government-grade Self-Encrypting Drive security option available¹

Best-Fit Applications

- Storage-hungry business applications
- Storage area networks (SAN) and network attached storage (NAS)
- Maximum-capacity servers and blade servers
- Rich media content storage—audio, video, image
- Reference and compliance data storage
- Enterprise backup and restore—D2D, virtual tape
- Cloud computing

¹ Self-Encrypting Drive option. Requires TCG-compliant host or controller support. Not available in all countries.



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Deploy Additional Enterprise Storage Without Expanding Your Data Center

- The 1TB Seagate® Constellation.2™ drive maximizes utilization of your data center footprint by supporting up to 76TB per square foot.

Deploy a High-Capacity Enterprise Storage Solution That Lowers Energy Costs

- Operates at fewer than 6.4W on average—the lowest operating power in the industry—saving up to 41% over traditional 3.5-inch drives. Save up to 54% more energy with the PowerChoice™ technology feature.
- Small form factor design provides for improved system airflow and cooling

Improve the Uptime of Your Data Center and Lower Storage Management Costs

- The Constellation.2 enterprise drive features a mean-time-between-failures (MTBF) rating of 1.4M hours and an unmatched annualized failure rate (AFR) of 0.62% to deliver the industry's highest level of reliability for a 24x7 7200-RPM nearline drive.
- Lower data management costs by deploying a secure and scalable tiered storage solution that leverages the performance and capacity of Seagate Savvio® (10K and 15K RPM) and Constellation.2 (7200 RPM) enterprise drives across the data center.
- The Seagate 5-Year Limited Warranty provides additional protection for your data center assets.

The Seagate Advantage

Based on over 30 years of Seagate enterprise experience, the Constellation.2 drive extends the industry's best 2.5-inch, field-proven drives to include a high-capacity nearline drive. It offers the best combination of high capacities, power efficiency, nearline performance, enterprise-class reliability and data security. The Constellation.2 drive delivers on Seagate Unified Storage architecture for simplified storage: SAS (Serial Attached SCSI) maximizes performance and data integrity, SFF (Small Form Factor) optimizes energy efficiency while minimizing data center footprint, and SED (Self-Encrypting Drive) ensures government-grade data security while reducing drive retirement costs.

Designed for Your Business

The Constellation.2 drive, with its high-capacity and enterprise reliability, provides a sustainable solution for your expanding data storage needs. Designed to meet and exceed expectations of your power envelope, the Constellation.2 drive allows you to come in under budget. Ideally suited for use in both server and networked storage solutions in space-constrained IT environments, the Constellation.2 drive allows you to design small and deliver BIG.

Specifications	
Capacities	1TB, 500GB (SAS and SATA), 250GB (SATA only)
Interface	6Gb/s SAS and SATA 6Gb/s
Spindle Speed (RPM)	7200 RPM
Reliability (MTBF)	1.4M hours
Operating Power	From 4.35W to 6.4W

1 One gigabyte, or GB, equals one billion bytes and one terabyte, or TB, equals one trillion bytes when referring to drive capacity.

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