Seagate

Product Overview

Constellation.2™

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

Key Advantages

- Second generation of the industry's first 2.5-inch, mainstream capacity, 15 mm z-height, enterprise-class nearline drive for space-constrained data centres

- Choose 6 Gb/s SAS for improved data integrity, scalability over longer distances and fast data access, or SATA 6 Gb/s for fast, economical Tier-2/nearline performance

- The industry's most reliable 7,200 RPM drive, designed for 24×7 operation with an MTBF (mean time between failures) rating of 1.4M hours and an AFR (annualised failure rate) of 0.62% — all backed by a 5-year limited warranty

- Enterprise-class firmware features and best-in-class rotational vibration tolerance maximises system availability and performance in multi-drive systems, ensuring top performance of up to 115 MB/s of maximum sustained throughput

- Lowest operating power (under 6.4W) and enhanced PowerChoice™ options for additional power savings (up to 54 per cent — as low as 1.1W) during slow or idling periods; Workload Management™ technology helps systems to keep drives cool

- US-government-grade Self-Encrypting Drive security option available[1]

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.

Unified Storage™

Seagate 5-Year Warranty

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Deploy Additional Enterprise Storage without Expanding your Data Centre

- The 1 TB Seagate® Constellation.2™ drive maximises use of your data centre footprint by supporting up to 76 TB 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 Centre and lower your Storage Management Costs

- The Constellation.2 enterprise drive features a mean-time-between-failures (MTBF) rating of 1.4M hours and an unmatched annualised failure rate (AFR) of 0.62% to deliver the industry's highest level of reliability for a 24×7, 7,200 RPM nearline drive

- Lower data management costs by deploying a secure and scalable tiered storage solution that exploits the performance and capacity of Seagate Savvio® (10K and 15K RPM) and Constellation.2 (7,200 RPM) enterprise drives across the data centre

- The Seagate 5-Year Limited Warranty provides additional protection for your data centre 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) maximises performance and data integrity, SFF (Small Form Factor) optimises energy efficiency while minimising the data centre footprint, and SED (Self-Encrypting Drive) ensures US-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 the 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	1 TB, 500 GB (SAS and SATA), 250 GB (SATA only)
Interface	6 Gb/s SAS and SATA 6 Gb/s
Spindle Speed (RPM)	7,200 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.

www.seagate.com
Toll free: 00 8004 SEAGATE (732 4283)
(non-toll free: +1 405 324 4714)