

## Product Overview

# Constellation™

**First 2.5-inch nearline drive boasts the industry's lowest power usage for the enterprise**

### Key Features and Benefits

- Lowest operating power and enhanced power options with PowerChoice™ technology for even greater power savings during slow or idle periods
- First 2.5-inch, 15-mm business-critical drive on the market, designed for enterprise reliability, vibration performance and high data integrity
- Fastest Tier 2/nearline hard drive on the market (SAS 6 Gb/s). At a system level (with more drives), the performance is >2x over 3.5-inch drives
- The highest-capacity 2.5-inch enterprise drive (500 GB) with both SAS and SATA interfaces (160-GB SATA also available for boot/entry server applications)
- 6-Gb/s SAS 2.0 allows for easier integration, enhanced features and outstanding performance
- Government-grade self-encrypting drive security available on SAS models
- Best-performing nearline drive with best-in-class rotational vibration tolerance

### Key Applications

- High-density nearline storage — Internet infrastructure, backup and restore, medical imaging, nearline storage, disaster recovery, cheque imaging, video editing
- Blade servers — computation, scientific applications, server appliance, Web content
- Rack servers — graphics, security, firewalls, email
- Network routers
- Video surveillance
- 24x7 availability — kiosks, ATMs, video lottery terminals, video servers, high-reliability government/military



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## The Seagate Advantage

The Seagate® Constellation™ drive is the first 2.5-inch hard drive for Tier 2/nearline environments. It offers the best combination of power efficiency, nearline performance, enterprise-class reliability, capacity and data security. It delivers on the Seagate Unified Storage™ architecture, converging disparate disc drive interfaces, diverse form factors and data security towards ONE best-of-breed foundation for robust, yet simple, storage solutions.

The drive offers the lowest power consumption of any enterprise drive on the market, provides the highest capacity for a 2.5-inch hard drive at 500 GB for integrators and OEMs offering eco-friendly nearline server and storage solutions, and enables OEMs and system designers to sell more systems — especially into space-constrained IT environments.

The Constellation drive extends the industry's best 2.5-inch field-proven reliability into a high-capacity nearline drive based on Seagate enterprise experience. This nearline drive offers an MTBF of 1.2 million hours for economical, enterprise-grade reliability.

The Constellation drive's implementation of 6-Gb/s SAS 2.0 improves scalability, which makes this drive ideally suited for use in high-end network storage solutions. It is the industry's first 2.5-inch nearline drive to implement the new SAS 2.0 feature set and is the world's first nearline drive to operate at 6-Gb/s transfer rates.

[www.seagate.com](http://www.seagate.com)

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Specifications	
Capacities (GB)	500 SAS and SATA; 160 (SATA only)
Interface	SAS, SATA
Spindle Speed (RPM)	7,200
Power (SAS)	2.8 W typical idle, 3.8 W operating

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