

Product Overview

# Capacity-Optimized Enterprise Hard Drives for Bulk-Data Applications

## Constellation® ES.2

### What you get.

- Maximize your enterprise storage capabilities without expanding your data center.
- Deploy a maximum-capacity enterprise storage solution while lowering your energy costs.
- Improve your data center uptime while lowering your storage management costs.



# Capacity-Optimized Enterprise Hard Drives for Bulk-Data Applications

## Constellation® ES.2



### Energy-Efficient High Capacities

- Constellation ES.2 drives operate on average at fewer than 11.3W—the lowest 3TB\* drive operating power in the industry. Save up to 54% more by implementing Seagate PowerChoice™ technology's on-demand idle power savings feature.
- Maximize data center footprint utilization by supporting up to 114TB per square foot.

### Reliable Storage Always Available for Your 24x7 World

- 1.2M hours MTBF and 0.73% AFR deliver the highest level of reliability for a 24x7 capacity-optimized drive.
- Data is stored accurately with SAS-based advanced error correction capabilities.
- Chassis performance is improved through top-cover attached (TCA) motor design.
- Best-in-class vibration tolerance ensures consistent, reliable data access and performance in multi-drive systems.

### The Seagate Advantage

Built upon leading experience in enterprise storage, the Constellation ES.2 drive maximizes capacity while providing best-in-class features.

The Constellation ES.2 drive significantly improves performance with a 6Gb/s interface, the first capacity-optimized drive with 6Gb/s performance in both SAS and SATA interfaces.

Self-Encrypting Drive (SED) option helps companies achieve corporate and/or government security compliance goals. The drive helps protect data from inadvertent change from the moment of creation until the end of life, and Seagate Instant Secure Erase makes drive retirement and repurposing safe, fast and affordable. FIPS Self-Encryption Drive option meets regulatory data security compliance requirements and is FIPS 140-2 Validated™ to protect Sensitive but Unclassified and Protected class data.†

### Designed for Your Growing Needs

Ideally suited for use in both server and networked storage bulk-data solutions, the Constellation ES.2 drive offers a host of impressive enterprise features along with a faster, more successful integration experience.

The Constellation ES.2 drive, with its maximum capacity and robust enterprise reliability, provides a sustainable solution for your expanding data storage needs; designed to meet and exceed your expectations, it allows you to come in *under power* and *under budget*.

\* Seagate recommends validating your configuration with your HBA/RAID controller manufacturer to ensure full 3TB capacity capabilities.

† See FIPS 140-2 Level 2 Certificate at <http://csrc.nist.gov/groups/STM/cmfp/documents/140-1/1401val2011.htm#1635>

Specifications	
Capacities <sup>1</sup>	3TB and 2TB
Interface	6Gb/s SAS and SATA 6Gb/s
Sustained Data Rate	up to 155MB/s
Cache	64MB
Spindle Speed	7200 RPM
Reliability (MTBF)	1.2M hours
Operating Power	less than 11.3W
Limited Warranty <sup>2</sup>	3 years

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

2 Nearline products shipped on or after December 31, 2011, have a 3-year limited warranty. Nearline products shipped before December 31, 2011, have a 5-year limited warranty.

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



FIPS 140-2 INSIDE



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