

## Product Overview

# Cheetah® 15K.6 Cheetah 15K.6 FDE

**Highest capacity, reliability and security  
in mission-critical storage**

### Key Features and Benefits

- World's first self-encrypting hard drive for mission-critical servers and storage arrays\*
- Second-generation perpendicular recording delivers up to 450 GB of storage.
- Unprecedented performance with a sustained data rate of up to 164 MB/sec
- The industry's highest 3.5-inch drive reliability at 1.6 million hours MTBF
- PowerTrim™ technology provides 61 per cent improvement in watts/GB at idle.
- Advanced read/write technology drives an error rate of  $1 \times 10^{16}$ .
- Integrated data integrity provisions protect against system miscompare errors.
- Available with either an FC or a SAS interface

### Key Applications

- Email
- Business processing
- Transaction processing
- Decision support
- Storage area networks
- Network attached storage
- Internet and e-commerce

\*The Cheetah 15K.6 FDE drive is available only to major OEM suppliers.



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## The Seagate Advantage

The Seagate® Cheetah® 15K.6 and Cheetah 15K.6 FDE drives have a SAS or FC interface and are the highest performing drives in 3.5-inch storage with a maximum sustained transfer rate of 164 MB/sec, representing a 28 per cent increase in sustained data transfer rate over their predecessors. Second-generation perpendicular recording provides 450 GB of storage capacity with state-of-the-art recording technology and comprehensive data integrity protection, enabling an error rate of  $1 \times 10^{16}$  and an MTBF of 1.6 million hours (0.55 per cent AFR).

The Cheetah 15K.6 and Cheetah 15K.6 FDE drives include Seagate PowerTrim technology, which dynamically optimises drive power consumption at all levels of activity. With PowerTrim technology, the drives deliver the highest performance in their class without increasing power consumption. These drives lower idle and operational power requirements from those of the prior generation by as much as 61 per cent in watts/GB while increasing overall sustained data transfer rates by 28 per cent at 164 MB/s.

## Highest Capacity and Reliability

Seagate Cheetah 15K.6 and Cheetah 15K.6 FDE drives provide the highest sequential and transactional performance of any 3.5-inch drive in the enterprise market. Utilising second-generation perpendicular recording technology and available in capacities of 450, 300 and 146 GB, these Cheetah family drives provide an unprecedented blend of storage capacity and performance. Add to that the highest 3.5-inch reliability in the industry at 1.6 million hours MTBF (0.55 per cent AFR), a choice of FC or SAS interfaces, and a 5-year limited warranty, and you have a star performer for mission-critical SAN, NAS, transactional processing and Internet applications.

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## Specifications

Capacity (GB)	450, 300 and 146
Interface	SAS, FC
Cache (MB)	16
Spindle Speed (RPM)	15,000

## Self-Encrypting Drives in the Data Centre

The Seagate Cheetah 15K.6 FDE\* drive is part of the Seagate Secure™ portfolio of self-encrypting drives, providing superior security and manageability. From the moment the drive is removed from the data centre, whether intentionally or otherwise, the data on the drive is secure. The key features and benefits of self-encrypting drives include:

- Secure data, preventing data breach, avoiding fees and data privacy law notification costs
- Always-on encryption, whether the drive is moved, stored, returned or retired
- Dramatic reduction in drive decommissioning costs
- Transparent to the OS, applications, databases, database administrators and application developers
- Enabling of secure erase of drives for disposal, repurposing, and secure warranty and lease return
- Standards-based, designed for interoperability
- Reduction in complexity of key management and tracking, and ease of proof of compliance
- Automatic maintenance of high system performance, so there is less need for data classification
- Enabling of full storage system data compression and de-duplication, saving storage space

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