

PRODUCT OVERVIEW

Cheetah 10K.7

300-Gbyte enterprise disc drive

The Seagate 10K-RPM
enterprise disc drive with the
highest capacity — ever



KEY FEATURES AND BENEFITS

- Boasting 300-, 147- and 73-Gbyte capacities, seven generations of 10K-RPM product design experience, and enhanced product reliability and data integrity, this Cheetah® is simply the best 10K-RPM enterprise disc drive ever offered by Seagate®.
- The Cheetah 10K.7 achieves greater product reliability and data integrity by highly leveraging the error-management technology used in Cheetah 15K-RPM drives.
- Proactive, self-initiated background management functions improve media integrity, increase drive efficiency, reduce incidence of integration failures and improve field reliability.

KEY SPECIFICATIONS

- 300-, 146- and 73-Gbyte capacities
- 4.6-msec average read and 5.2-msec average write seek times
- Up to 80-Mbytes/sec sustained transfer rate
- 1.4 million hours full duty cycle MTBF
- Ultra320 SCSI and 2 Gbits/sec Fibre Channel interfaces
- 5-year warranty

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PRODUCT DESCRIPTION

The Seagate Cheetah 10K.7 is the new benchmark for high capacity enterprise-class drives, providing up to 300 Gbytes in a low-profile, 3.5-inch form factor. The seventh generation of the award-winning Cheetah line of 10K-RPM drives, the Cheetah 10K.7 offers even greater cost-per-gigabyte value in lower access applications than its predecessor. The Cheetah 10K.7 delivers very high capacity and superior reliability to the general purpose and high-end enterprise markets, which both prize reliability above all else. The Cheetah 10K.7 drive meets this challenge by leveraging many reliability features from the Cheetah 15K drive, including fluid dynamic bearings, enhanced data integrity/error recovery procedures and the improved background media scan feature. Despite these many improvements, the Cheetah 10K.7 maintains the same power, shock and acoustic characteristics of its 10K.6 predecessor.

THE SEAGATE ADVANTAGE

- The Cheetah 10K.7 sets the standard for Seagate cost-per-gigabyte value enterprise drives, benefiting from the team experience acquired over seven generations of Cheetah 10K-RPM products.
- Double the capacity in the same footprint means less space occupied, lower infrastructure costs and lower TCO.
- The Seagate commitment to continually enhancing reliability is reflected in the Cheetah 10K.7, which highly leverages reliability features from Cheetah 15K products to increase MTBF to 1.4 million hours.

SPECIFICATIONS

Capacity (Gbytes)	300, 146, 73
Seek Time, Read/Write (average, msec)	4.6/5.2
Transfer Rate, Sustained (Mbytes/sec)	Up to 80
MTBF, Full Duty Cycle (hours)	1.4 million
Power Consumption (W, idle)	6.92 to 11.94
Interface	Ultra320 SCSI 2 Gb/s Fibre Channel
Warranty (years)	5

APPLICATIONS

- High-end enterprise workstations
- Data warehousing and data mining
- Multi-user multimedia
- Storage area networks and supercomputers
- Digital A/V and image processing
- Graphics and medical imaging
- Internet and e-commerce servers

ENABLING NEW OPPORTUNITIES

- The primary opportunity for Cheetah 10K.7 exists in current 10K.6 markets, where reliability is ranked highest in order of importance, followed by price per gigabyte, price per IOPS and data throughput rate.
- As storage capacity continues to double, 10K-RPM 3.5-inch drives will be used for applications that have lower access density requirements. Mainstream applications will employ either 15K-RPM drives, which offer greater performance to access increased capacity on a single drive, or Savvio™, which provides optimal performance in high-density storage environments.
- The Cheetah 10K.7 provides an enhanced feature set, including the highest reliability in the industry, making it ideal for applications such as large-capacity storage infrastructures that house mission-critical data.

For more information, go to www.seagate.com

Storage Segments

● Network Storage

● Server Storage

High-Density Storage

Nearline Storage

Low-Cost Server

PC Commercial

PC Consumer

Notebook

DVR

Gaming/Audio/Other

Handheld

