

ST8000NM018B

Seagate Exos 7E10 8TB 7200rpm 3.5" SATA Fast Format Hard Disk Drive

Product Overview

Seagate Exos 7E10 8TB 7200rpm 3.5" SATA Fast Format Hard Disk Drive, 512n, 6Gb/s, 256MB Cache, 263MB/s Maximum sustained transfer rate OD, 4.16 ms average Latency



Specifications

The Seagate Exos 7E10 8TB 3.5" SATA hard drive is engineered for reliable, high-capacity storage in demanding environments. With a 7200RPM spindle speed, 256MB cache, and fast sustained transfer rates up to 263MB/s, it delivers consistent performance for data-heavy workloads. Built for 24/7 operation, this enterprise-grade drive ensures durability and efficiency for business-critical systems.

Ideal for servers, NAS setups, and data centres, this drive offers excellent scalability for growing storage needs. Its advanced reliability features and optimized power consumption make it a smart investment for businesses and professionals. Buy now and upgrade your storage infrastructure with dependable, high-performance capacity.

Performance tier:Enterprise-grade

Uses:servers, NAS systems, data centres, backup storage, cloud storage, archival data

Overview:

The Seagate Exos 7E10 8TB enterprise hard drive is engineered for consistent performance in data-heavy environments. Built for servers, storage arrays, and cloud infrastructure, it delivers reliable throughput with a 7200 RPM spindle speed and up to 263MB/s sustained transfer rates. Its 3.5 inch SATA interface ensures broad compatibility, while advanced caching and low latency operation support demanding workloads. Designed for continuous 24x7 operation, this drive balances efficiency, durability, and high-capacity storage in a single solution.

Description

The Seagate Exos 7E10 8TB hard drive provides enterprise-grade storage with optimized performance and reliability for business-critical systems. It combines fast data access, intelligent power management, and advanced data protection technologies to ensure stable operation in high-demand environments. With a robust build and efficient power usage, it is well suited for data centers, backup systems, and large-scale storage deployments requiring consistent uptime and dependable data integrity.

Features:**Built for Enterprise Storage Environments**

This model is designed to handle intensive workloads typical in enterprise systems. With a workload rating aligned for continuous operation and a Mean Time Between Failures of 2 million hours, it supports long-term deployment in servers and RAID configurations. Technologies such as SuperParity and Protection Information help maintain data accuracy and reduce the risk of corruption during transmission.

Performance and Throughput Efficiency

With a 7200 RPM spindle speed and optimized firmware, the drive ensures steady data access across large datasets. Its 256MB multi-segment cache enhances read and write efficiency, while the average latency of 4.16 ms contributes to faster response times in transactional environments.

Key performance details include:

- Sustained transfer rate up to 263MB/s
- 7200 RPM rotational speed
- 4.16 ms average latency
- Dual interface ports for enhanced connectivity
- SATA interface supporting 6Gb/s, 3Gb/s, and up to 12Gb/s compatibility

Advanced Data Integrity and Reliability

Data protection is reinforced through multiple integrated technologies. The drive includes advanced write caching supported by internal flash memory, ensuring data is preserved even during unexpected interruptions. With a low annualized failure rate and strict error thresholds, it is optimized for mission-critical storage.

Important reliability metrics:

- MTBF of 2,000,000 hours
- 0.44 percent annualized failure rate
- Non-recoverable read error rate of 1 per 10E15 bits
- Full 24x7 operational capability
- Protection Information and SuperParity support

Power Efficiency and Thermal Control

Power management features such as PowerChoice and PowerBalance technologies help reduce energy consumption without sacrificing performance. This makes the drive suitable for large-scale deployments where efficiency directly impacts operating costs.

Power and environmental highlights:

- Idle power consumption around 8.14W
- Typical operating power of 12.26W
- Operating temperature range from 5 to 60 degrees Celsius
- Designed for stable performance under vibration and shock conditions

Physical Design and Compatibility

The 3.5 inch form factor ensures compatibility with standard enterprise drive bays and storage enclosures. Its durable construction supports operation in dense server environments, while maintaining consistent thermal and mechanical performance.

Physical specifications include:

- Dimensions: 26.11 mm height, 101.85 mm width, 147 mm depth
- Weight: approximately 720 g

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Product Specification Sheet

- Sector formats: 512, 520, and 528 bytes
- Power requirements: +12V and +5V

Model and Ordering Information

The primary part number for this configuration is ST8000NM018B, aligning with enterprise deployment requirements. Additional secure models are available under related part numbers for specialized use cases, including self-encrypting drive variants.

Ideal Use Cases

This drive is well suited for organizations requiring dependable, high-capacity storage with consistent throughput. Common applications include:

- Data center storage arrays
- Cloud infrastructure
- Backup and archival systems
- Enterprise servers and RAID environments

Product Information Online

For the latest product information, availability and purchasing details, please visit the product page:

Product page:

<https://www.comx-computers.co.za/ST8000NM018B-Seagate-Exos-7E10-8GB-7200rpm-3-5-SATA-Buy-p-336495.php>

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