

Seagate Exos X24 ST16000NM007H - hard drive - Enterprise - 16 TB - SAS 12Gb/s (ST16000NM007H)

Seagate Exos X24 ST16000NM007H - Hard drive - Enterprise - 16 TB - internal - 3.5" - SAS 12Gb/s - 7200 rpm - buffer: 512 MB



The Seagate Exos X24 hard drive is engineered to deliver high-capacity and reliable storage solutions for enterprise environments. With a 16 TB capacity, it offers ample space for large datasets, while its 285 MBps internal data rate and 512 MB buffer size ensure efficient and responsive performance. Designed for 24x7 operation, the Exos X24 features a durable helium sealed-drive design, making it suitable for continuous use in demanding settings. It also boasts energy-efficient technologies such as Power Choice Idle Power and PowerBalance, reducing operational costs without sacrificing performance. Furthermore, with a MTBF of 2.5 million hours and support for T10 Protection Information, this hard drive provides enhanced reliability and data integrity, making it an ideal choice for critical enterprise applications.

Key Selling Points

- 16 TB capacity meets the storage needs of data-intensive applications
- 285 MBps internal data rate and 512 MB buffer size for efficient performance
- Helium sealed-drive design and 24x7 operation capability for enhanced durability
- Power Choice Idle Power technology for energy efficiency
- 2.5 million hours MTBF for reliable enterprise storage solutions

Product Features

- Robust performance**
With an internal data rate of 285 MBps and a large 512 MB buffer size, this hard drive delivers reliable and efficient performance for enterprise environments. Its 7200 rpm spindle speed ensures quick access to data, enhancing overall system responsiveness.
- High capacity storage**
Boasting a substantial 16 TB capacity, the Seagate Exos X24 is designed to meet the demands of data-intensive applications, offering ample space for large datasets and high-resolution files.
- Durable design**
Engineered for 24x7 operation and protected by a helium sealed-drive design, this hard drive is built to withstand continuous use in demanding enterprise settings. Its low halogen construction and Organic Solderability Preservative further contribute to its durability and longevity.
- Energy efficient**
Featuring Power Choice Idle Power technology and PowerBalance power/performance technology, the Seagate Exos X24 is optimized for energy efficiency, reducing operational costs without compromising performance.
- Enhanced reliability**
With a MTBF of 2.5 million hours and support for T10 Protection Information, this hard drive offers enhanced reliability and data integrity, making it a trustworthy choice for critical enterprise applications.

Main Specifications

Product Description	Seagate Exos X24 ST16000NM007H - hard drive - Enterprise - 16 TB - SAS 12Gb/s
Type	Hard drive - internal
Capacity	16 TB
Form Factor	3.5"
Interface	SAS 12Gb/s
Data Transfer Rate	1.2 GBps
Buffer Size	512 MB
Spindle Speed	7200 rpm
Drive Class	Enterprise

Features	Helium Sealed-Drive Design, Conventional magnetic recording (CMR), Super Parity, Low Halogen, Power Choice Idle Power technology, PowerBalance power/performance technology, Hot-Plug Support, Organic Solderability Preservative, Dual Port, PowerBalance, T10 Protection Information (T10 PI)
Dimensions (WxDxH)	10.185 cm x 14.7 cm x 2.61 cm
Weight	685 g
Manufacturer Warranty	5-year warranty

Extended Specification

General

Device Type	Hard drive - internal
Capacity	16 TB
Form Factor	3.5"
Interface	SAS 12Gb/s
Buffer Size	512 MB
Features	Helium Sealed-Drive Design, Conventional magnetic recording (CMR), Super Parity, Low Halogen, Power Choice Idle Power technology, PowerBalance power/performance technology, Hot-Plug Support, Organic Solderability Preservative, Dual Port, PowerBalance, T10 Protection Information (T10 PI)
Width	10.185 cm
Depth	14.7 cm
Height	2.61 cm
Weight	685 g

Manufacturer Warranty

Service & Support	Limited warranty - 5 years
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Miscellaneous

Compliant Standards	RSA 3072 Firmware
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Power

Voltage Required	5 - 12 V
Power Consumption	6.5 Watt (average idle) 9.8 Watt (max read) 8.2 Watt (max write)

Environmental Parameters

Min Operating Temperature	10 °C
Max Operating Temperature	60 °C
Shock Tolerance (operating)	40 g @ 2 ms
Shock Tolerance (non-operating)	200 g @ 2 ms
Vibration Tolerance (non-operating)	2.27 g @ 2-500 Hz

Performance

Drive Class	Enterprise
Drive Transfer Rate	1.2 GBps (external)
Internal Data Rate	285 MBps
Average Latency	4.16 ms
Spindle Speed	7200 rpm

Reliability

MTBF	2500000 hours
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24x7 Operation	Yes
Non-Recoverable Errors	1 per 10 ¹⁵

Expansion & Connectivity

Interfaces	1 x SAS 12 Gb/s
Compatible Bay	3.5"

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