

Informacije o proizvodu (EN)

SEAGATE hard disk 12TB (256MB) ST12000NM000J Exos X18



Tehnoteka je online destinacija za upoređivanje cena i karakteristika bele tehnike, potrošačke elektronike i IT uređaja kod trgovinskih lanaca i internet prodavnica u Srbiji. Naša stranica vam omogućava da istražite najnovije informacije, detaljne karakteristike i konkurentne cene proizvoda.

Posetite nas i uživajte u ekskluzivnom iskustvu pametne kupovine klikom na link:

<https://tehnoteka.rs/p/seagate-hard-disk-12tb-256mb-st12000nm000j-exos-x18-akcija-cena/>



DATA SHEET

Scalable. Responsive. Innovative.

Exos X18

Seagate manufactures hard drives that specifically address the demand for hyperscale cloud scalability. As the flagship of the Seagate® X class, the Exos® X18 enterprise hard drives are the highest-capacity hard drives in the fleet.



Best-Fit Applications

- Scalable hyperscale applications/cloud data centers
- Massive scale-out data centers
- Big data applications
- High-capacity density RAID storage
- Mainstream enterprise external storage arrays
- Distributed file systems, including Hadoop and Ceph
- Enterprise backup and restore—D2D, virtual tape
- Centralized surveillance

Maximum Storage Capacity for Highest Rack Space Efficiency

Market-leading 18TB HDD offering the highest capacity available for more petabytes per rack¹

Highly reliable performance with enhanced caching, making it the logical choice for cloud data center and massive scale-out data center applications

Hyperscale SATA model tuned for large data transfers and low latency

PowerBalance™ feature optimizes Watts/TB

Maximize total cost of ownership savings through lower power and weight with helium sealed-drive design

Proven helium side-sealing weld technology for added handling robustness and leak protection

Digital environmental sensors to monitor internal drive conditions for optimal operation and performance

Data protection and security— Seagate Secure™ features for safe, affordable, fast, and easy drive retirement

Proven enterprise-class reliability backed by **5-year limited warranty and 2.5M-hr MTBF rating**

¹ Compared to 14TB competitive product



Specifications	SATA 6Gb/s	12Gb/s SAS	SATA 6Gb/s	12Gb/s SAS	SATA 6Gb/s
Capacity	18TB	18TB	16TB	16TB	14TB
Standard Model FastFormat™ (512e/4Kn) ¹	ST18000NM000J	ST18000NM004J	ST16000NM000J	ST16000NM004J	ST14000NM000J
SED Model FastFormat (512e/4Kn) ^{1,2}	ST18000NM001J	ST18000NM005J	ST16000NM001J	ST16000NM005J	ST14000NM001J
SED-FIPS FastFormat (512e/4Kn) ^{1,2}	—	ST18000NM007J	—	ST16000NM007J	—
Features					
Helium Sealed-Drive Design	Yes	Yes	Yes	Yes	Yes
Conventional Magnetic Recording (CMR)	Yes	Yes	Yes	Yes	Yes
Protection Information (T10 DIF)	—	Yes	—	Yes	—
Super Parity	Yes	Yes	Yes	Yes	Yes
Low Halogen	Yes	Yes	Yes	Yes	Yes
PowerChoice™ Idle Power Technology	Yes	Yes	Yes	Yes	Yes
PowerBalance™ Power/Performance Technology	Yes	Yes	Yes	Yes	Yes
Hot-Plug Support ³	Yes	Yes	Yes	Yes	Yes
Cache, Multisegmented (MB)	256	256	256	256	256
Organic Solderability Preservative	Yes	Yes	Yes	Yes	Yes
RSA 3072 Firmware Verification (SD&D)	Yes	Yes	Yes	Yes	Yes
Reliability/Data Integrity					
Mean Time Between Failures (MTBF, hours)	2,500,000	2,500,000	2,500,000	2,500,000	2,500,000
Reliability Rating @ Full 24x7 Operation (AFR)	0.35%	0.35%	0.35%	0.35%	0.35%
Nonrecoverable Read Errors per Bits Read	1 sector per 10E15	1 sector per 10E15	1 sector per 10E15	1 sector per 10E15	1 sector per 10E15
Power-On Hours per Year (24x7)	8760	8760	8760	8760	8760
512e Sector Size (Bytes per Sector)	512	512, 520, 528	512	512, 520, 528	512
4Kn Sector Size (Bytes per Sector)	4096	4096, 4160, 4224	4096	4096, 4160, 4224	4096
Limited Warranty (years)	5	5	5	5	5
Performance					
Spindle Speed (RPM)	7200RPM	7200RPM	7200RPM	7200RPM	7200RPM
Interface Access Speed (Gb/s)	6.0, 3.0	12.0, 6.0, 3.0	6.0, 3.0	12.0, 6.0, 3.0	6.0, 3.0
Max. Sustained Transfer Rate OD (MB/s, MiB/s)	270/258	270/258	270/258	270/258	270/258
Random Read/Write 4K QD16 WCD (IOPS)	170/550	170/550	170/550	170/550	170/550
Average Latency (ms)	4.16	4.16	4.16	4.16	4.16
Interface Ports	Single	Dual	Single	Dual	Single
Rotation Vibration @ 20-1500 Hz (rad/sec ²)	12.5	12.5	12.5	12.5	12.5
Power Consumption					
Idle A (W) Average	5.3W	5.6W	5.1W	5.5W	4.9W
Max Operating, Random Read/Write 4K/16Q (W)	9.4, 6.4	9.8, 7.0	9.4, 6.4	9.6, 6.7	9.2, 6.3
Power Supply Requirements	+12 V and +5 V	+12 V and +5 V	+12 V and +5 V	+12 V and +5 V	+12 V and +5 V
Environmental					
Temperature, Operating (°C)	5°C – 60°C	5°C – 60°C	5°C – 60°C	5°C – 60°C	5°C – 60°C
Vibration, Nonoperating: 2 to 500Hz (Grms)	2.27	2.27	2.27	2.27	2.27
Shock, Operating 2ms (Read/Write) (Gs)	50	50	50	50	50
Shock, Nonoperating 2ms (Gs)	200	200	200	200	200
Physical					
Height (mm/in, max) ⁴	26.1mm/1.028in	26.1mm/1.028in	26.1mm/1.028in	26.1mm/1.028in	26.1mm/1.028in
Width (mm/in, max) ⁴	101.85mm/4.010in	101.85mm/4.010in	101.85mm/4.010in	101.85mm/4.010in	101.85mm/4.010in
Depth (mm/in, max) ⁴	147.0mm/5.787in	147.0mm/5.787in	147.0mm/5.787in	147.0mm/5.787in	147.0mm/5.787in
Weight (g/lb)	670g/1.477lb	670g/1.477lb	670g/1.477lb	670g/1.477lb	650g/1.433lb
Carton Unit Quantity	20	20	20	20	20
Cartons per Pallet/Cartons per Layer	40/8	40/8	40/8	40/8	40/8

¹ FastFormat models ship in 512e format state. When switching from 512e to 4Kn by executing the FastFormat routine, all data on the drive will be deleted. Note that data must be aligned to 4K sectors to see improved performance in 4Kn format.

² Self-Encrypting Drives (SED) and FIPS 140-3 Validated drives available through franchised authorized distributors. May require TCG-compliant host or controller support.

³ Supports Hotplug operation per Serial ATA Revision 3.3 specification

⁴ These base deck dimensions conform to the Small Form Factor Standard (SFF-8301) found at www.sffcommittee.org. For connector-related dimensions, see SFF-8323.



Specifications	12Gb/s SAS	SATA 6Gb/s	SAS 12Gb/s	SATA 6Gb/s	12Gb/s SAS
Capacity	14TB	12TB	12TB	10TB	10TB
Standard Model FastFormat™ (512e/4Kn) ¹	ST14000NM004J	ST12000NM000J	ST12000NM004J	ST10000NM018G	ST10000NM013G
SED Model FastFormat (512e/4Kn) ^{1,2}	ST14000NM005J	ST12000NM001J	ST12000NM005J	ST10000NM020G	ST10000NM014G
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Features					
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Protection Information (T10 DIF)	Yes	—	Yes	—	Yes
Super Parity	Yes	Yes	Yes	Yes	Yes
Low Halogen	Yes	Yes	Yes	Yes	Yes
PowerChoice™ Idle Power Technology	Yes	Yes	Yes	Yes	Yes
PowerBalance™ Power/Performance Technology	Yes	Yes	Yes	Yes	Yes
Hot-Plug Support ³	Yes	Yes	Yes	Yes	Yes
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Power Supply Requirements	+12 V and +5 V	+12 V and +5 V	+12 V and +5 V	+12 V and +5 V	+12 V and +5 V
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