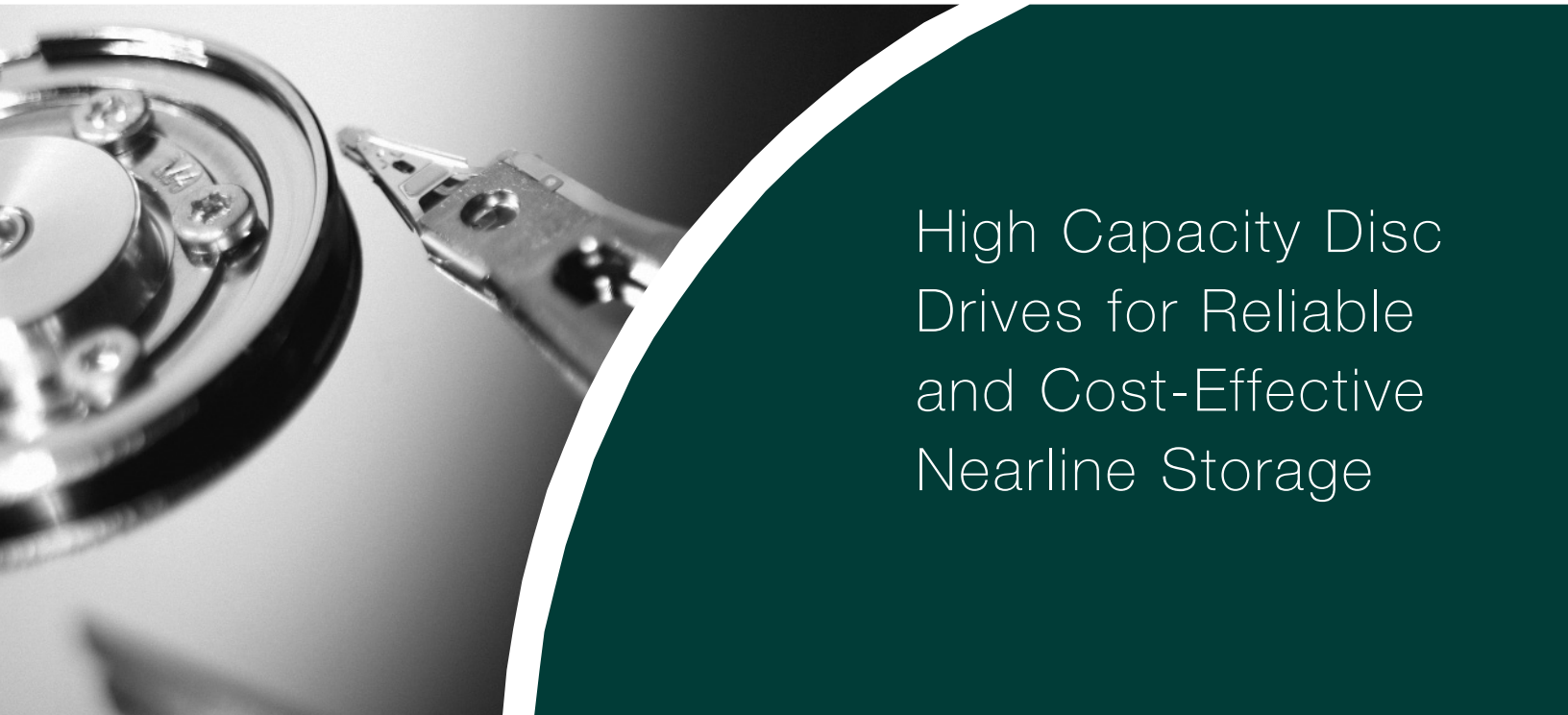


## NL35 Series 250-Gbyte SATA and 400-Gbyte SATA

Nearline-ready SATA disc drives



High Capacity Disc  
Drives for Reliable  
and Cost-Effective  
Nearline Storage

400 and 250 Gbytes • 7200 RPM • SATA 1.5Gb/s

### Key Advantages

- Lowers capacity costs with high-capacity, low-cost storage for applications that don't require the performance of mainstream enterprise disc drives
- Meets nearline-class reliability standards with a one million hour MTBF rating
- Integrates easily into multi-drive nearline systems and solutions
- Designed to work seamlessly in SAS/SATA and FC/SATA tiered storage solutions

### Best Fit Applications

- Disc-based backup and recovery
- Data archiving (e-mail, reference data, video, images)
- Virtual tape
- Content-addressable storage
- Tiered storage systems





# NL35 Series 250-Gbyte SATA and 400-Gbyte SATA

## Nearline-ready SATA disc drives

### Seagate Makes the Best Even Better With a 5-Year Warranty

Seagate offers the industry's leading warranty to demonstrate our commitment to product reliability and our customers' success. Every Seagate internal hard drive is covered under our unprecedented five-year warranty.



### Nearline-Ready

- Reliability rated at one million hours MTBF in nearline workloads to meet 24x7, low duty-cycle nearline application requirements
- Workload Management monitors and manages drive temperature and activity to optimize drive reliability in nearline environments.
- NL35 Series SATA drives include all of the advanced features found in Barracuda® 7200.8 SATA drives, including Native Command Queuing (NCQ) and the SoftSonic™ motor.

### Integration-Friendly

- Error Recovery Control streamlines error recovery processes with configurable recovery time and fewer timeout errors.
- One-Step Microcode Download simplifies multi-drive field upgrades with a single command.
- Write Same executes large writes without host interface overhead.
- Native integration-aware SATA interface for seamless integration in SATA, SAS and FC architectures

[www.seagate.com](http://www.seagate.com)  
**1-800-732-4283 (1-800-SEAGATE)**

Specifications	400GB <sup>1</sup> SATA	250GB <sup>1</sup> SATA
Model Number	ST3400832NS ST3400632NS	ST3250823NS ST3250623NS
Interface/External Transfer Rate (Mbytes/sec)	150	150
<b>Performance</b>		
Spindle Speed (RPM)	7200	7200
Average Latency (msec)	4.16	4.16
Seek Time		
Average Read/Write (msec)	8.0/9.0	8.0/9.0
Track-to-Track Read/Write (msec)	0.8/ 1.0	0.8/ 1.0
Transfer Rate		
Maximum Internal (Mbits/sec)	754	754
Maximum Internal Formatted (Mbytes/sec)	95	95
Maximum Sustained (Mbytes/sec)	65	65
Cache, Multisegmented (Mbytes)	8, 16	8, 16
<b>Configuration/Organization</b>		
Bytes per Sector	512	512
<b>Reliability/Data integrity</b>		
Nonrecoverable Read Errors per Bits Read	1 sector per 10 <sup>14</sup>	1 sector per 10 <sup>14</sup>
MTBF, Nearline Workload (hours)	1,000,000	1,000,000
Error Control/Correction (ECC)	10 bit	10 bit
Media scanning	Offline Scan	Offline Scan
Interface ports	Single	Single
<b>Power Management</b>		
Typical (watts)	12.8	12.8
Idle Average (watts)	7.2	7.2
Standby Average (watts)	1.4	1.4
<b>Environmental</b>		
Temperature, Operating (°C)	0 to 60	0 to 60
Temperature, Nonoperating (°C)	-40 to 70	-40 to 70
Shock, Operating: 2 msec (Gs)	63	63
Shock, Nonoperating: 2 msec (Gs)	300	>300
Acoustics Idle (bels—sound power)	2.8	<2.8
Rotational Vibration (Rad/sec)	8.5	8.5
<b>Physical</b>		
Height (in/mm)	1/26.11	1/26.11
Width (in/mm)	4/101.85	4/101.85
Depth (in/mm)	5.78/146.99	5.78/146.99
Weight (lb/g)	1.4/0.635	1.4/0.635
<b>Warranty</b>		
Limited warranty (years)	5	5

<sup>1</sup> One gigabyte, or GB, equals one billion bytes when referring to hard drive capacity.