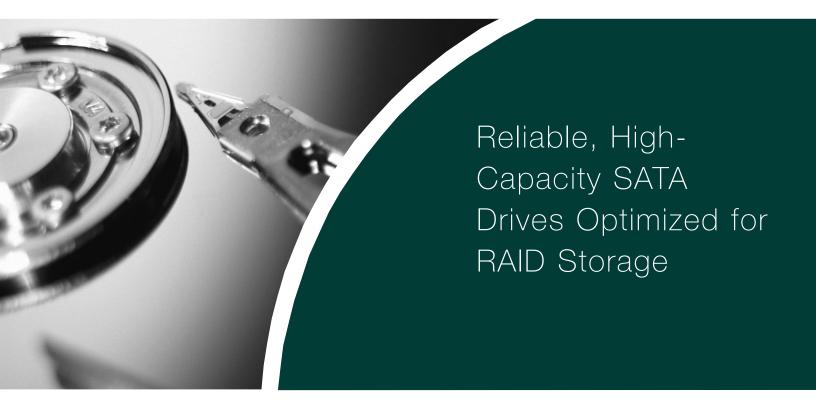


NL35 Series SATA

Nearline RAID-ready 500GB, 400GB and 250GB SATA disc drives



Massive capacity, high reliability and RAID-friendly integration make the NL35 Series SATA ideal for capacity-intensive RAID storage applications

Key Advantages

- · RAID-friendly integration features increase system uptime, optimize performance and ease management
- Superior reliability enables operation in 24x7 RAID environments
- · Industry's highest capacity ensures maximum scalability in dynamic, capacity-intensive RAID storage systems
- Leverages SAS compatibility with SATA to enable tiered storage systems that can be tuned to meet a wide range of performance and capacity points

Best Fit Applications

- · RAID storage arrays
- Storage Area Networks (SAN)
- Network Attached Storage (NAS)
- Enterprise backup and restore systems
- · Video archiving and distribution systems
- · Fixed content storage







NL35 Series SATA

Nearline RAID-ready 500GB, 400GB and 250GB 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 RAID-Ready

- · Higher reliability to meet demands of 24x7 RAID storage applications
- Seagate proprietary Workload Management technology protects drives from extreme workloads to optimize drive reliability
- NCQ (Native Command Queuing) combines with 8- or 16-Mbyte cache memory to ensure more efficient processing of peak workloads

Integration-Friendly

- Speaks the "language" of complex system controllers and hosts to simplify system integration, improve RAID performance and reduce drive failures
- Offers industry's most comprehensive set of RAID integration features, including Error Recovery Control, One-Step Microcode Download and Write Same

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Specifications	500GB¹ SATA	400GB¹ SATA	400GB¹ SATA	250GB¹ SATA	250GB¹ SATA
Model Number	ST3500841NS ST3500641NS	ST3400833NS ST3400633NS	ST3400832NS ST3400632NS	ST3250824NS ST3250624NS	ST3250823NS ST3250623NS
Interface/External Transfer Rate (Mbytes/sec)	150 300	150 300	150	150 300	150
Performance					
Spindle Speed (RPM)	7200	7200	7200	7200	7200
Average Latency (msec)	4.16	4.16	4.16	4.16	4.16
Seek Time Average Read/Write (msec)	8.0/9.0	8.0/9.0	8.0/9.0	8.0/9.0	8.0/9.0
Track-to-Track Read/Write (msec)	0.8/1.0	0.8/1.0	0.8/1.0	0.8/1.0	0.8/1.0
Transfer Rate Maximum Internal (Mbits/sec)	754	754	754	754	754
Maximum Internal Formatted (Mbytes/sec)	95	95	95	95	95
Maximum Sustained (Mbytes/sec)	65	65	65	65	65
Cache, Multisegmented (Mbytes)	8, 16	8, 16	8, 16	8, 16	8, 16
Configuration/Organization					
Bytes per Sector	512	512	512	512	512
Reliability/Data integrity					
Nonrecoverable Read Errors per Bits Read	1 sector per 10 ¹⁴	1 sector per 10 ¹⁴	1 sector per 1014	1 sector per 1014	1 sector per 10 ¹⁴
Error Control/Correction (ECC)	10 bit	10 bit	10 bit	10 bit	10 bit
Media scanning	Offline Scan	Offline Scan	Offline Scan	Offline Scan	Offline Scan
Interface ports	Single	Single	Single	Single	Single
Power Management					
Typical (watts)	13.0	9.2	9.2	9.2	9.2
Idle Average (watts)	7.4	7.7	7.7	7.7	7.7
Standby Average (watts)	0.8	1.2	1.2	1.2	1.2
Environmental					
Temperature, Operating (°C)	0 to 60	0 to 60	0 to 60	0 to 60	0 to 60
Temperature, Nonoperating (°C)	-40 to 70	-40 to 70	-40 to 70	-40 to 70	-40 to 70
Shock, Operating: 2 msec (Gs)	63	63	63	63	63
Shock, Nonoperating: 2 msec (Gs)	350	300	300	300	300
Acoustics Idle (bels—sound power)	2.8	2.8	2.8	2.8	2.8
Rotational Vibration (Rad/sec)	12.5	8.5	8.5	8.5	8.5
Physical					
Height (in/mm)	1/26.11	1/26.11	1/26.11	1/26.11	1/26.11
Width (in/mm)	4/101.85	4/101.85	4/101.85	4/101.85	4/101.85
Depth (in/mm)	5.78/146.99	5.78/146.99	5.78/146.99	5.78/146.99	5.78/146.99
Weight (lb/g)	1.4/0.635	1.4/0.635	1.4/0.635	1.4/0.635	1.4/0.635
Warranty					
Limited warranty (years)	5	5	5	5	5

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

^{*}Fibre Channel versions available exclusively through leading storage system manufacturers.