Seagate

Data Sheet

Cheetah NS

Optimum capacity at the lowest power consumption with superior 10K-RPM performance

400 GB and 300 GB • 10K RPM • 4-Gb/s FC • 3-Gb/s SAS (400 GB)

Key Advantages

- 400 GB of transactional storage enables 33 percent more capacity in a single drive.
- Smaller platters and 10K spindle speed allow 33 percent savings in operational power.
- The Seagate® Cheetah® NS drive design is based on the 15K-RPM platform, allowing up to 21 percent improvement in transactional performance over standard 10K drives.
- 10x improvement in unrecoverable error rate at 1x10E16
- The industry's highest reliability in the 3.5-inch form factor

Best-Fit Applications

- Network attached storage (NAS)
- High-capacity, performance and application servers
- Clustered systems
- Medical imaging, CAD, simulation
- Rich media content storage—audio, video, image
- Collaboration—email, messaging
- Infrastructure—Web, print, file

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Seagate®

Seagate Is the Trusted Leader in Enterprise Storage

- Using perpendicular recording, the 400-GB Cheetah NS drive provides 33 percent more capacity than standard 10K-RPM drives while offering best-in-class transactional performance and a substantial reduction in operating power.

- A tenfold improvement in unrecoverable error rate together with a 1.4M-hour MTBF provides unsurpassed reliability for the network storage market.

Seagate Global Customer Support

- Get presales and technical support at support.seagate.com.

- Visit our knowledge base for answers to common support questions.

- Find documentation for current and legacy drives.

- Utilize our online troubleshooting and diagnostic tools.

- Download DiscWizard™ to help migrate data from an older drive.

- Seagate also offers multi-lingual phone, email and chat support.

- Seagate Design Service Centers (DSC) help companies transform innovative ideas into viable products.

www.seagate.com

1-800-SEAGATE (1-800-732-4283)

Specifications	400 GB[1]	300 GB[1]
Model Number	ST3400755FC ST3400755SS	ST3300955FC
Capacity		
Formatted 512 Kbytes/Sector (GB)	400	300
External Transfer Rate (Gb/s)		
4-Gb/s Fibre Channel	4.0	4.0
3-Gb/s Serial Attached SCSI (SAS)	3.0	—
Performance		
Spindle Speed (RPM)	10,075	10,075
Average Latency (ms)	2.98	2.98
Seek Time		
Average Read/Write (ms)	3.9/4.2	3.9/4.2
Track-to-Track Read/Write (ms)	0.35	0.35
Transfer Rate		
Maximum Internal (Mb/s)	1211	1211
Maximum Sustained (MB/s)	97	97
Cache, Multisegmented (MB)	16	16
Reliability/Data Integrity		
Mean Time Between Failures (MTBF, hours)	1.4 million	1.4 million
Annualized Failure Rate (AFR)	0.62%	0.62%
Nonrecoverable Read Errors per Bits Read	1 sector per 10E16	1 sector per 10E16
Error Control/Correction (ECC)	10 bit	10 bit
Interface ports	Dual	Dual
Power Management		
Typical (W)	12.1	11.8
Idle Average (W)	8.1	7.6
Environmental		
Temperature (°C)		
Operating	5 to 55	5 to 55
Nonoperating	−40 to 70	−40 to 70
Shock (Gs)		
Operating: 2 ms	60	60
Nonoperating: 2 ms	250	250
Acoustics Idle (bels—sound power)	3.2	3.0
Rotational Vibration (Rad/s2)	21	21
Physical		
Height (in/mm)	1.02/26.11	1.02/26.11
Width (in/mm)	4.0/101.85	4.0/101.85
Depth (in/mm)	5.78/147	5.78/147
Weight (lb/g)	1.5/0.771	1.5/0.771

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