Deskstar® NAS

3.5-Inch High-Performance Hard Drive for Desktop NAS Systems

Highlights

- 7200 RPM performance
- Up to 4TB capacity
- 1 million hours MTBF
- 6Gb/s SATA interface
- No additional hardware required
- 3-Year limited warranty

Applications/Environments

- Deskstop NAS System

More Performance, More Reliability

The Deskstar® NAS hard drive is a 7200 RPM 3.5-inch hard drive that provides an exceptional blend of reliability and performance, making it an ideal solution for consumer and commercial desktop NAS systems. This NAS-ready hard drive from HGST delivers media transfer rates that are as much as 20% faster than 5400 RPM drives and seek times less than 12ms. Furthermore, Deskstar NAS hard drives incorporate a rotational vibration sensor and achieve reliability of 1M hours MTBF.

HGST Quality and Service

All HGST hard drives are designed to the highest quality standards with field-proven components. They are backed by HGST worldwide technical support and integration services, enabling customers around the globe to bring their products to market quickly.

Features and Benefits

	Feature / Function	Benefits
Capacity	3TB and 4TB	Large storage capacity
Performance	64MB cache buffer	Faster data processing
Rotational Speed	7200 RPM	Faster data transfer rates
Reliability	1M Hrs MTBF	Reduced risk of data loss
	Rotational Vibration Sensor	Optimal reliability in multi-drive RAID arrays
	Availability	24x7

**3TB and 4TB
7200 RPM
20% Faster than other
5400 RPM hard drive!**

HGST

a **Western Digital** company

Information and Technical Support
www.hgst.com (Main Web site)
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Specifications

Models		
	H3IKNAS30003272SN	H3IKNAS30003272SN4PK
	H3IKNAS40003272SN	H3IKNAS40003272SN4PK
	H3IKNAS30003272SE	H3IKNAS30003272SE4PK
	H3IKNAS40003272SE	H3IKNAS40003272SE4PK
	H3IKNAS30003272SA	H3IKNAS30003272SA4PK
	H3IKNAS40003272SA	H3IKNAS40003272SA4PK
	H3IKNAS30003272SJ	H3IKNAS30003272SJ4PK
	H3IKNAS40003272SJ	H3IKNAS40003272SJ4PK

Configuration

Interface	SATA 6Gb/s	←
Capacity (GB)[1]	4TB / 3TB	←
Max. areal density (Gbits/sq. in)	446/425	←

Performance

Data buffer (MB)[2]	64MB	←
Rotational speed	7200 RPM	←
Media transfer rate (Mbits/s, max)	1638/1536	←
Interface transfer rate (MB/s, max)	600	←

Reliability

Error rate (non-recoverable, bits read)	1 in 10^{14}	←
Load/unload cycles (at 40° C)	600,000	←
Availability (hrs/day x days/wk)	24x7	←

Power

Requirement	+5 VDC (+/-5%), +(12 VDC is +10-%/-8%)	←
Startup current (A, max.)	(12A, max +5V, 2A @ +12V)	←
Idle (W, avg.) 4TB/ 3TB	6.9	←

Physical size

z-height (mm)	26.1	←
Dimensions (width x depth, mm)	101.6 (+/-0.25) x 147	←
Weight (g, max.) 4TB/3TB	690g	←

Environmental (operating)

Ambient temperature	6° to 60° C	←
Relative humidity (non-condensing)	8% to 90%	←
Shock (half-sine wave, G)	70	←
Vibration (G RMS 5 to 500 Hz)	0.67 (XYZ)	←

Environmental (non-operating)

Ambient temperature	-40° to 70° C	←
Relative humidity (non-condensing)	5% to 95%	←
Shock (half-sine wave, G (2ms))	300	←
Vibration, random (G RMS 2 to 200 Hz)	1.04 (XYZ)	←

[1] One GB is equal to one billion bytes and one TB equals 1,000GB (one trillion bytes) when referring to hard drive capacity. Accessible capacity will vary from the stated capacity due to formatting and partitioning of the hard drive, the computer's operating system, and other factors.
[2] Portion of buffer capacity used for firmware

[3] Intended for low duty cycle, non mission-critical applications in PC, nearline, and consumer electronics environments, which may vary from application to application. Note that customer environments may vary from application to application.

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