



Deskstar® NAS

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

Highlights

- 7200 RPM performance
- Up to 6TB capacity¹
- 1 million hours MTBF²
- 6Gb/s SATA interface
- No additional hardware required
- 3-Year limited warranty

Applications/Environments

- Desktop 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, 4TB, 5TB and 6TB	Large storage capacity
Performance	64MB cache buffer (3TB and 4TB) 128MB cache buffer (5TB and 6TB)	Faster data processing
Rotational Speed	7200 RPM	Faster data transfer rates
Reliability	1M Hours MTBF	Reduced risk of data loss
	Rotational Vibration Sensor	Optimal reliability in multi-drive RAID arrays
	Availability ²	24x7



Up to 6TB
7200 RPM
20% FASTER
THAN OTHER 5400 RPM
HARD DRIVES!

Specifications (6TB and 5TB)

Drive Model #	Capacity	Kit Model #	SKU
HDN726060ALE610	6TB	H3IKNAS600012872SN	OS03839
		H3IKNAS600012872SE	OS03840
		H3IKNAS600012872SA	OS03841
		H3IKNAS600012872SJ	OS03842
HDN726050ALE610	5TB	H3IKNAS500012872SN	OS03835
		H3IKNAS500012872SE	OS03836
		H3IKNAS500012872SA	OS03837
		H3IKNAS500012872SJ	OS03838

Configuration

Interface	SATA 6Gb/s
Capacity (GB) ¹	6TB / 5TB
Max. areal density (Gbits/sq. in)	703/586

Performance

Data buffer (MB) ³	128MB
Rotational speed	7200 RPM
Media transfer rate (Gbits/s, max)	1.97/1.64
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
MTBF (M hours)	1.0

Power

Requirement	+5 VDC (+/-5%), +(12 VDC is +10-%/-8%)
Startup current (A, max.)	(1.2A, max +5V, 2A @ +12V)
Idle (W, avg.) 6TB/ 5TB	7.3

Physical size

z-height (mm)	26.1
Dimensions (width x depth, mm)	101.6 (+/-0.25) x 147
Weight (g, max.) 6TB/5TB	715g

Environmental (operating)

Ambient temperature	5° 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)

Specifications (4TB and 3TB)

Drive Model #	Capacity	Kit Model #	SKU
HDN724040ALE640	4TB	H3IKNAS40003272SN	OS03664
		H3IKNAS40003272SE	OS03665
		H3IKNAS40003272SA	OS03666
		H3IKNAS40003272SJ	OS03667
HDN724030ALE640	3TB	H3IKNAS30003272SN	OS03660
		H3IKNAS30003272SE	OS03661
		H3IKNAS30003272SA	OS03662
		H3IKNAS30003272SJ	OS03663

Configuration

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

Performance

Data buffer (MB) ³	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
MTBF (M hours)	1.0

Power

Requirement	+5 VDC (+/-5%), +(12 VDC is +10-%/-8%)
Startup current (A, max.)	(1.2A, 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	5° 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 Intended for lower duty cycle environments in the enterprise storage hierarchy such as nearline applications. MTBF target is based on a sample population and is estimated by statistical measurements and acceleration algorithms under median operating conditions. MTBF ratings are not intended to predict an individual drive's reliability. MTBF does not constitute a warranty.
³ Portion of buffer capacity used for firmware

Information and Technical Support

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