



Deskstar® NAS

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

Highlights

- 7200 RPM performance
- Up to 10TB 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	4TB, 6TB, 8TB and 10TB	Large storage capacity
Performance	128MB cache buffer (4TB, 6TB and 8TB) 256MB cache buffer (10TB)	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 10TB
7200 RPM
20% FASTER
THAN OTHER 5400 RPM
HARD DRIVES!**

Drive Model #	Capacity	Kit Model #	SKU
HDN721010ALE604	10TB	H3IKNAS1000025672SWW H3IKNAS1000025672SCN	OS04037 OS04038
HDN728080ALE604	8TB	H3IKNAS800012872SWW H3IKNAS800012872SCN H3IKNAS800012872SWW2PK H3IKNAS800012872SWW4PK	OS04012 OS04017 OS04018 OS04019
HDN726060ALE614	6TB	H3IKNAS600012872SWW H3IKNAS600012872SCN H3IKNAS600012872SWW4PK H3IKNAS600012872SWW2PK	OS04007 OS04008 OS04010 OS04026
HDN726040ALE614	4TB	H3IKNAS400012872SWW H3IKNAS400012872SCN H3IKNAS400012872SWW2PK H3IKNAS400012872SWW4PK	OS04005 OS04006 OS04009 OS04027

Specifications

	10TB	8TB	6TB and 4TB
Configuration			
Interface	SATA 6Gb/s	SATA 6Gb/s	SATA 6Gb/s
Capacity (GB) ¹	10TB	8TB	6TB / 4TB
Max. areal density (Gbits/sq. in)	816	664	703/599
Performance			
Data buffer (MB) ³	256MB	128MB	128MB
Rotational speed	7200 RPM	7200 RPM	7200 RPM
Sustained Transfer Rate(MB/s, typ.)	240	205	227/202
Interface transfer rate (MB/s, max)	600	600	600
Reliability			
Error rate (non-recoverable, bits read)	1 in 10 ¹⁴	1 in 10 ¹⁴	1 in 10 ¹⁴
Load/unload cycles (at 40° C)	600,000	600,000	600,000
Availability (hrs/day x days/wk)	24x7	24x7	24x7
MTBF (M hours)	1.0	1.0	1.0
Power			
Requirement	+5VDC, +12VDC	+5VDC, +12VDC	+5VDC, +12VDC
Startup current (A, max.)	(1.2A, max +5V, 2A @ +12V)	(1.2A, max +5V, 2A @ +12V)	(1.2A, max +5V, 2A @ +12V)
Idle (W, avg.)	5.1	5.1	7.3
Physical size			
z-height (mm)	26.1	26.1	26.1
Dimensions (width x depth, mm)	101.6 (+/-0.25) x 147	101.6 (+/-0.25) x 147	101.6 (+/-0.25) x 147
Weight (g, max.)	660	650	715
Environmental (operating)			
Ambient temperature	5° to 60° C	5° to 60° C	5° to 60° C
Relative humidity (non-condensing)	8% to 90%	8% to 90%	8% to 90%
Shock (half-sine wave, G)	70	70	70
Vibration (G RMS 5 to 500 Hz)	0.67 (XYZ)	0.67 (XYZ)	0.67 (XYZ)
Environmental (non-operating)			
Ambient temperature	-40° to 70° C	-40° to 70° C	-40° to 70° C
Relative humidity (non-condensing)	5% to 95%	5% to 95%	5% to 95%
Shock (half-sine wave, G (2ms))	300	300	300
Vibration, random (G RMS 2 to 200 Hz)	1.04 (XYZ)	1.04 (XYZ)	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