

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

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, 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





Deskstar® NAS

Specifications (6TB and 5TB)

Drive Model #	Capacity	Kit Model #	SKU
HDN726060ALE610 6	STB	H3IKNAS600012872SN H3IKNAS600012872SE H3IKNAS600012872SA H3IKNAS600012872SJ	0\$03839 0\$03840 0\$03841 0\$03842
HDN726050ALE610 5	TB	H3IKNAS500012872SN H3IKNAS500012872SE H3IKNAS500012872SA H3IKNAS500012872SJ	0S03835 0S03836 0S03837 0S03838
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, r	max)	1.97/1.64	
Interface transfer rate (MB/s,	max)	600	
Reliability			
Error rate (non-recoverable, k	oits read)	1 in 10 ¹⁴	
Load/unload cycles (at 40° C)	600,000	
Availability (hrs/day x days/wł	c)	24x7	
MTBF (M hours)		1.0	
Power			
Requirement		+5 VDC (+/-5%), +(12 VDC is +10-%	%/-8%)
Startup current (A, max.)	Startup current (A, max.)		
Idle (W, avg.) 6TB/ 5TB		7.3	
Physical size			
z-height (mm)		26.1	
Dimensions (width x depth, m	nm)	101.6 (+/-0.25) x 147	
Weight (g, max.) 6TB/5TB		715g	
Environmental (operating)			
Ambient temperature	Ambient temperature		
Relative humidity (non-conde	ensing)	8% to 90%	
Shock (half-sine wave, G)	Shock (half-sine wave, G)		
Vibration (G RMS 5 to 500 Hz)	0.67 (XYZ)	
Environmental (non-operating)			
Ambient temperature		-40° to 70° C	
Relative humidity (non-conde	ensing)	5% to 95%	
Shock (half-sine wave, G (2m	s))	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 H3IKNAS40003272SE H3IKNAS40003272SA	0S03664 0S03665 0S03666
HDN724030ALE640	ЗТВ	H3IKNAS40003272SJ H3IKNAS30003272SN H3IKNAS30003272SE H3IKNAS30003272SA H3IKNAS30003272SJ	0S03667 0S03660 0S03661 0S03662 0S03663
Configuration		110.11.11.11.00000002.1200	
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 (Mb	its/s, max)	1638/1536	
Interface transfer rate (I	MB/s, max)	600	
Reliability			
Error rate (non-recovera	able, bits read)	1 in 10 ¹⁴	
Load/unload cycles (at	40° C)	600,000	
Availability (hrs/day x da	ays/wk)	24x7	
MTBF (M hours)		1.0	
Power			
Requirement		+5 VDC (+/-5%), +(12 VDC is +10-%/-8%	6)
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 de	pth, mm)	101.6 (+/-0.25) x 147	
Weight (g, max.) 4TB/3T	В	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 5	00 Hz)	0.67 (XYZ)	
Environmental (non-opera	ting)		
Ambient temperature		-40° to 70° C	
Relative humidity (non-	condensing)	5% to 95%	
Shock (half-sine wave,	G (2ms))	300	
Vibration, random (G RN	IS 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

Information and Technical Support

www.hgst.com (Main Web site) www.hgst.com/partners (Partner Web site)

North America

support_usa@hgst.com

Toll free: 1 888 426-5214, Direct: 1 408 717-8087

Asia Pacific

support_ap@hgst.com / 65 6840 9595

EMEA and UK

support_uk@hgst.com / 44 20 7133 0032

Germany

support_uk@hgst.com / 49 6929 993601

Program Support

Partners First Program. channelpartners@hgst.com



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operating system, and other factors.

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

Portion of buffer capacity used for firmware