

# Deskstar™ 7K1000.C

## 3.5-Inch Desktop 7200 RPM Hard Disk Drives

### Highlights

- Up to 1TB<sup>1</sup> capacity
- 7200 RPM performance
- Up to 18% idle power savings over previous generation product
- Halogen-free design for eco-friendly footprint
- Built on award-winning proven design

### Applications/Environments

- Consumer and commercial computers
- Personal storage
- PC gaming

### Less Power, More Performance

The Deskstar™ 7K1000.C hard drive is a 7200 RPM 3.5-inch hard drive that provides an exceptional blend of power efficiency and performance, making it an ideal solution for power-friendly consumer and commercial desktop computers. This third-generation 1TB hard drive from HGST boosts media transfer rate performance by as much as 13% over its predecessor. Leveraging eighth-generation power management technology, as well as power-saving HiVERT™ innovations pioneered on the popular 2.5-inch line of notebook hard drives from HGST, this new desktop drive provides up to 18% idle power savings over the previous model, delivering best-in-class power management and thermal emissions.

### Innovation for a More Sustainable Environment

The Deskstar 7K1000.C demonstrates HGST's ecological leadership with its halogen-free design and power-efficient operation. Both these features helped qualify the drive for the HGST EcoTrac classification, which identifies products that minimize environmental impact in the areas of product design, manufacturing, operation and disposal.

### Power Efficiency Supports ENERGY STAR™ 5.0

The ENERGY STAR 5.0 specifications released by the U.S. Environmental Protection Agency (EPA) are recognized around the world as a way of identifying energy-efficient PCs and other computer equipment. PCs that meet the ENERGY STAR 5.0 criteria are expected to become increasingly popular with both corporations and consumers. Some corporations are choosing to purchase ENERGY STAR PCs as part of their "green" initiatives. The low power profile of the Deskstar 7K1000.C hard drive enables a reduction in overall system power requirements, which helps PC manufacturers achieve ENERGY STAR ratings.

### Features and Benefits

	Feature / Function	Benefits
<b>Power</b>	Advanced Power Management	Reduces power during idle periods
	HiVERT™ technology	Best-of-breed power consumption
<b>Capacity</b>	160GB to 1TB	Full range of capacity points
<b>Acoustics</b>	Excellent acoustics	Ultra quiet operation
<b>Reliability</b>	Thermal Fly-height Control (TFC)	Better soft error rate for improved reliability and performance
	Head load/unload ramp	Protects disk during non-operation
	ECC and CRC protection	Data integrity enhanced throughout circuits
	SMART Command Transport (SCT)	Adaptive error correction
	Internal thermal sensor	Improves data integrity
<b>Performance</b>	Up to 32MB cache buffer	Faster data processing



1TB, 750GB, 640GB, 500GB,  
320GB, 250GB & 160GB  
7200 RPM | SATA 3Gb/s & 6Gb/s



## 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.

### How to read the Deskstar model number

HDS721010CLA332 = 1TB, SATA 3Gb/s,

32MB buffer

H = HGST

D = Deskstar

S = Standard

72 = 7200 RPM

10 = Full capacity — 1TB

10 = Capacity this model, 10 = 1TB

(75 = 750GB, 64 = 640GB, 50 = 500GB,

32 = 320GB, 25 = 250GB, 16 = 160GB)

C = Generation code

L = 26.1mm z-height

A3 = Interface, SATA 3Gb/s (A6 = SATA 6Gb/s)

3 = 32MB buffer (6 = 16MB, 8 = 8MB)

2 = Reserved

### 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

## Specifications

Models	HDS721010CLA332 HDS721075CLA332 HDS721064CLA332 HDS721050CLA362 HDS721032CLA362 HDS721025CLA382 HDS721016CLA382	HDS721010CLA632 HDS721075CLA632 HDS721064CLA632 HDS721050CLA662 HDS721032CLA662 HDS721025CLA682 HDS721016CLA682
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Configuration		
Interface	SATA 3Gb/s	SATA 6Gb/s
Capacity (GB) <sup>1</sup>	1TB / 750 / 640 / 500 320 / 250 / 160	←
Max. areal density (Gbits/sq. in)	350	←
Performance		
Data buffer (MB) <sup>2</sup>	32 / 32 / 32 / 16 / 16 / 8 / 8	←
Rotational speed	7200 RPM	←
Media transfer rate (Mbits/s, max)	1546	←
Interface transfer rate (MB/s, max)	300	600
Reliability		
Error rate (non-recoverable, bits read)	1 in 10 <sup>14</sup>	←
Load/unload cycles (at 40° C)	300,000	←
Availability <sup>3</sup> (hrs/day x days/wk)	24x7	←
Power		
Requirement	+5 VDC (+/-5%), +12 VDC (+/-10%)	←
Startup current (A, max.)	1.5 (+5V), 2.0 (+12V)	←
Idle (W, avg.)	1TB / 750GB / 640GB 500GB / 320GB / 250GB / 160GB	4.4 3.6
←		←
Physical size		
z-height (mm)	26.1	←
Dimensions (width x depth, mm)	101.6 (+/-0.25) x 147	←
Weight (g, max.)	1TB / 750GB / 640GB 500GB / 320GB / 250GB / 160GB	680 400
←		←
Environmental (operating)		
Ambient temperature	0° 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))	350	←
Vibration, random (G RMS 2 to 200 Hz)	1.04 (XYZ)	←

<sup>1</sup> 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.

<sup>2</sup> Portion of buffer capacity used for firmware

<sup>3</sup> 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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The EcoTrac symbol identifies HGST hard drives that deliver on the principles of lower operating costs, safer product disposal and a more sustainable environment.

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Product specifications provided are sample specifications and do not constitute a warranty. Information is true as of the date of publication and is subject to change. Actual specifications for unique part numbers may vary.

Please visit the Support section of our website, www.hgst.com/support, for additional information on product specifications. Photographs may show design models.