

Travelstar™ 7K1000

2.5-Inch Mobile 7200 RPM 9.5mm Hard Disk Drives

Highlights

- 1TB¹ of capacity
- Advanced Format, industry standard 4K sector size
- 512 byte emulation (512e)
- 7200 RPM high-performance HDD
- 6Gb/s SATA interface
- · Low power consumption
- · Halogen-free for eco-friendly design

Applications/Environments

- Notebook PCs
- External storage
- Compact desktop PCs
- · Gaming PCs
- · Small-form-factor video devices

High-Performance 1TB HDD For Mobile

Travelstar™ 7K1000 is the industry's only seventh-generation 7200 RPM mobile hard drive and ideally suited for notebook PC upgrades and portable, high-capacity personal storage products. At 500GB/platter, this 2.5-inch hard drive offers a 1TB capacity and leverages Advanced Format, which increased the physical sector size from 512 bytes to 4,096 (4K) bytes to improve drive capacities and error correction capabilities. The Travelstar 7K1000 is the industry's first high-performance 1TB 2.5-inch HDD with a 6Gb/s SATA interface and delivers the highest mobile HDD performance in PCMark© Vantage benchmark testing.

HGST provides best-of-breed operating shock and outstanding power management in Travelstar 7K1000 for sturdy unplugged notebook performance. Highlights include proven seventh-generation technology, 1TB capacity, low power consumption, industry's highest shock tolerance, halogen-free design for an eco-friendly footprint and Serial ATA 6Gb/s for high data throughput.

The Travelstar 7K1000 allows manufacturers to deliver high-capacity, power-efficient systems with desktop-like performance. Manufacturers can consult the HGST Advanced Format Technology Brief for more information on using these hard drives. The 7K1000 continues HGST's tradition of ecological leadership and carries its EcoTrac classification. Travelstar 7K1000 delivers speed and capacity, without sacrificing battery life or audio quality, to meet the multi-tasking demands of commercial and consumer users on the go.

Features and Benefits

	Feature / Function	Benefits	
Capacity	1TB storage	Up to 250 hours of high-definition video, 1000 hours of standard video, 350 movies, 250,000 4-min songs or 500 games *	
Performance	Up to 1284Mb/s media transfer rate	Faster downloads and better application performance than 5400 RPM models at same capacity	
Power	1.8W read/write power 08W low power idle	Low energy use and long battery life for more "unplugged" notebook time	
Reliability	400G operating shock 1000G non-operating shock	Best protection against bumps and rough handling	
	Thermal Fly-height Control (TFC)	Better soft error rate for improved reliability	
	TrueTrack™ technology	Tracking accuracy in high shock or vibration environments	
Acoustics	Quiet acoustics	Richer audio-listening experience for music, movies and games	
Interface	SATA 6Gb/s	High data throughput	

^{*} Actual storage may vary depending on the compression rate applied. Capacities may not be combined









Travelstar™ 7K100C

HGST Quality and Service

HGST Travelstar hard disk drives are designed to the highest quality standards and contain field-proven components. HGST provides worldwide technical support and integration services to enable global customers to bring their products to market quickly.

How to read the Travelstar model number

HTS721010A9E630 = 1TB, SATA 6Gb/s

H = HGST

Т = Travelstar

S = Standard

72 = 7200 RPM

10 = Full capacity - 1TB

10 = Capacity this model, 10 = 1TB

A = Generation code

9 = 9.5mm z-height

E6 = SATA 6Gb/s with 512 emulation

3 = 32MB cache

0 = No encryption

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

opecinications	
Models	HTS721010A9E630
Configuration	
Interface	SATA 6Gb/s
Capacity (GB) ¹	1TB
Sector size (bytes) ²	512e
Recording zones	30
Aerial density (max, Gbit/sq.in.)	676
Performance	
Data buffer (MB) ³	32
Rotational speed (RPM)	7200
Latency average (ms)	4.2
Media transfer rate (max, Mbits/s)	1284
Interface transfer rate (MB/s)	600
Seek time Average (typical) ms (read) ⁴	12
Track to track (typical) ms (read)	1
Full stroke (typical) ms (read)	20
Reliability	
Load/Unload cycle	600,000
Power on hours (POH) per month	N/A
Availability ⁵	N/A
Power	
Requirement	+5VDC (+-5%)
Dissipation Startup (W, peak, max)	5.5
Seek (W, average)	2.1
Read/Write (W, average)	1.8
Performance idle (W, average)	1.7
Active idle (W, average)	1.0
Low power idle (W, average)	0.8
Standby (W, average)	0.2
Sleep (W)	0.1
Physical size	
Height (max, mm)	9.5
Dimensions (width x depth, mm)	70 x 100
Weight (max, g)	115
Environmental (operating)	
Shock (half-sine wave)	400G/2ms, 225G/1ms
Ambient temperature	0° - 60° C
Environmental (non-operating)	
Shock (half-sine wave)	1000G/1 ms
Ambient temperature	-40° - 65° C
Acoustics (A-weighted sound power)	
Idle (Bels, typical)	2.5
Seek (Bels, typical)	2.7
1 One CB is equal to one hillion butes and one TB equals 1000CB (one trillion	4 Evaludas command averband

<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 depending on the operating environment</sup>



© 2012 HGST, a Western Digital company, 3403 Yerba Buena Road, San Jose, CA 95135 USA. Produced in the United States 11/12. All rights reserved.

Travelstar and TrueTrack are trademarks of HGST, a Western Digital company.

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

HGST trademarks are intended and authorized for use only in countries and jurisdictions in which HGST has obtained the rights to use, market and advertise the brand. The Travelstar trademark is authorized for use in the Americas, EMEA, and the following Asia-Pacific countries and jurisdictions: Australia, Hong Kong, Japan, New Zealand, South Korea and Taiwan. Contact HGST for additional information. HGST shall not be liable to third parties for unauthorized use of this document or unauthorized use of its trademarks.

References in this publication to HGST's products, programs, or services do not imply that HGST intends to make these available in all countries in which it operates.

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.

and formatting.

Advanced Format drive: 4K physical sectors with 512 byte emulation

Portion of buffer used for firmware

Excludes command overhead
 Designed for low duty cycle, non mission-critical applications in PC, nearline and consumer electronics environments, which vary application to application