

# Travelstar™ 5K500.B

# 2.5-Inch Mobile 5400 RPM 9.5mm Hard Disk Drives

### **Highlights**

- Up to 500GB<sup>1</sup> of capacity
- · Lowest power consumption in its class
- · Halogen-free for eco-friendly footprint
- Serial ATA 3Gb/s
- · Security: Bulk Data Encryption option
- Enhanced availability (EA) models for applications needing around-the-clock access in lower-transaction environments

#### **Applications/Environments**

- Notebook PCs
- External storage
- Gaming consoles
- · Small form factor video devices
- Blade servers (EA)
- Network routers (EA)
- Video surveillance (EA)

## Reliable, High-Capacity Storage for Mobile Applications

Travelstar™ 5K500.B, a 5400 RPM, 250GB/platter, 2.5-inch hard drive with capacities ranging from 120GB to 500GB, is designed for use in notebook PCs, external storage, gaming consoles and other mobile applications. The 5K500.B demonstrates HGST's ecological leadership with its halogen-free production and focus on low power consumption, and carries the EcoTrac classification. The 5K500.B elevates hard drive reliability with the industry's first Iterative Detection Read Channel for improved signal processing. HGST offers optional hard-drive-level encryption for increased data security and enhanced availability models to deliver high-capacity storage for non-stop environments. Travelstar 5K500.B delivers the balance of capacity, ruggedness and low-power to meet the needs of consumers and commercial users in an eco-friendly footprint.

### **Encryption Option**

Travelstar 5K500.B features optional Bulk Data Encryption (BDE) for hard-drive-level data security. With BDE, the data is scrambled using a key as it is written to the disk then descrambled with the key as it is retrieved, giving users the highest level of data protection available. It also speeds and simplifies the drive re-deployment process. By deleting the encryption key, the data is rendered unreadable, thereby eliminating the need for time-consuming data-overwrite.

# Enhanced Availability (EA)—for 24x7 Access to Data

HGST provides enhanced availability models that allow the Travelstar 5K500.B to deliver 24x7 access to data for data-intensive applications requiring round-the-clock operation. The 5K500.B provides high capacity, durability and low power utilization on a proven platform for quality and reliability. EA models support the stringent demands of "always-on" applications in lower-transaction environments.

#### Features and Benefits

	Feature / Function	Benefits
Capacity	Up to 500GB storage	Up to 125 hours of high-definition video, 500 hours of standard video, 178 movies, 125,000 4-min songs or 250 games *
Power	1.4W read/write power 0.5W low power idle	Lowest 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
	Altitude-sensing Thermal Fly-height Control (TFC	Better soft error rate for improved reliability
	TrueTrack™ technology	Tracking accuracy in high shock or vibration environments
Performance	Up to 875Mb/s media transfer rate	Excellent application performance in PCMark® Vantage Testing
Acoustics	Quiet acoustics	Richer audio-listening for music, movies and games
Interface	SATA 3Gb/s	High data throughput
Security Option	Bulk Data Encryption	Helps guard against data theft

<sup>\*</sup> Actual storage may vary depending on the compression rate applied. Capacities may not be combined.







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## **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

HTS545050B9A300 = 500GB, SATA 3Gb/s

= HGST

Т Travelstar

S Standard (vs E for Enhanced Availability)

54 = 5400 RPM

50 = Full capacity - 500GB

= Capacity this model, 50 = 500GB 50 (32 = 320GB, 25 = 250GB, 16 = 160GB, 12 = 120GB)

Generation code

9.5mm z-height

A3 = SATA 3Gb/s

0 Reserved

0 Feature code (0 = No BDE hardware, 1 = Bulk data 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

support\_ap@hgst.com / 65 6840 9595

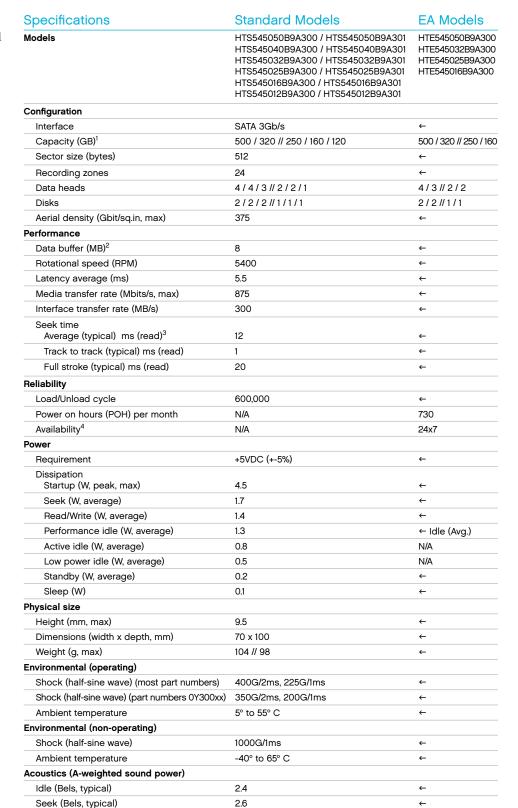
#### **EMEA** and UK

support\_uk@hgst.com / 44 20 7133 0032

support\_uk@hgst.com / 49 6929 993601

### **Program Support**

Partners First Program channelpartners@hgst.com





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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

<sup>&</sup>lt;sup>1</sup> One GB is equal to one billion bytes when referring to hard drive capacity. Accessible capacity will vary depending on the operating environment and formatting.

2 Upper 830KB out of 16MB used for firmware

<sup>3</sup> Excludes command overhead

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