

Enhanced availability for around-the-clock access to data

**HITACHI**  
Inspire the Next

## Hitachi Travelstar E7K60 2.5-inch hard disk drives

### Highlights

- ▶ **60 GB and 40 GB capacity, 7200 RPM mobile-class hard drive**
- ▶ **Small form factor for compact environments**
- ▶ **Designed for continuous operation to support 24x7 applications**
- ▶ **Supports read/write duty cycles of up to 50 percent**
- ▶ **Rugged non-operational shock rating of 1000G/1ms**



### Industry first...AGAIN!

Introducing the industry's first enhanced-availability 7200 RPM mobile-class hard drive for 24x7 data-ready environments—Hitachi's Travelstar E7K60. The combination of speed and endurance on Hitachi's Travelstar E7K60 gives users an industrial-strength 2.5-inch hard drive to take on demanding data-access requirements typical of applications such as network routers, point-of-sale terminals, blade-servers, and telephony networking systems.

### "Always on" for 24x7 access

Users who require high data availability can take advantage of the "always-on" characteristic of Hitachi's Travelstar E7K60. The drives are designed to allow users to leave it powered on around-the-clock and supports a read/write duty cycle of up to 50 percent—more than twice the level supported on standard mobile drives.

### Industry-proven technology

Designed specifically for continuous operation, the Travelstar E7K60 extends the Travelstar tradition of delivering performance and reliability. The 9.5mm high, 7200 RPM 2.5-inch Travelstar E7K60 provides added benefits to users, including minimal heat emission for optimal performance, low power consumption, and a small form factor for compact environments. The Hitachi Travelstar E7K60 series of hard disk drives utilizes proven storage technologies such as TrueTrack Servo, Drive Fitness Test™ (DFT), Self-Monitoring Analysis and Reporting Technology (S.M.A.R.T.) to help maintain high-performance and fast seek times in always-on environments.

### Service & support

Hitachi drives are backed by an array of technical support and services, which may include customer and integration assistance. Hitachi is dedicated to providing a breadth of hard disk drive solutions to satisfy all of today's demanding computing needs.

## Hitachi family of Travelstar E7K60 hard disk drives specifications

Product name	Travelstar E7K60
Model number	HTE726060M9AT00, HTE726040M9AT00
<b>Configuration</b>	
Interface	ATA-6
Capacity (GB) <sup>1</sup>	60 / 40
Sector size (bytes)	512
Recording zones	16
Data heads	4
Disks	2
Max. areal density (Gbits/sq.inch)	50
<b>Performance</b>	
Data buffer (MB) <sup>2</sup>	8
Rotational speed (rpm)	7,200
Latency (average ms)	4.2
Max. media transfer rate (Mbits/sec)	518
Max. interface transfer rate (MB/sec)	100MB/sec Ultra DMA mode-5 16.6MB/sec PIO mode-4
Seek time (ms)	
Average (typical)	10
Track to track (typical)	1.0
Full stroke (typical)	18
<b>Reliability</b>	
Error rate (non-recoverable)	< 1 per 10 <sup>13</sup> bits transferred
Load/unload cycle	300,000
Power on hours (POH) per month	732
<b>Power</b>	
Requirement	+5VDC (±5%)
Dissipation (typical)	
Startup (max. peak)	5.5 W
Seek (average)	2.6 W
Read (average)	2.5 W
Write (average)	2.5 W
Idle (average)	2.0 W
Standby (average)	0.25 W
Sleep	0.1 W
Power consumption efficiency (watts/GB) <sup>3</sup>	0.033 / 0.055
<b>Physical size</b>	
Height (mm)	9.5
Width (mm)	70
Depth (mm)	100
Weight (g)	115
<b>Environmental characteristics</b>	
Operating	
Ambient temperature	5° to 40° C
Relative humidity (non-condensing)	8% - 90%
Maximum wet bulb (non-condensing)	29.4° C
Shock (half sine wave)	200G/2ms
Vibration	
Random (RMS)	0.67G (5 - 500Hz)
Sine wave	1.0G (5 - 500Hz)
Non-operating	
Ambient temp	-40° to 65° C
Relative humidity (non-condensing)	5% - 95%
Maximum wet bulb (non-condensing)	40° C
Shock (half sine wave)	1,000G/1ms
Vibration (sine wave)	5.0G (22 - 500Hz)
<b>Acoustics (A-Weighted Sound Power (Bels))</b>	
Idle (typical)	2.7
Op (typical)	3.3
Idle (maximum)	3.0
Op (maximum)	3.5

**HITACHI**  
Inspire the Next<sup>1</sup>

Hitachi Global Storage Technologies

### For more information

#### Internet:

- [www.hitachigst.com](http://www.hitachigst.com) (Main Web site)
- [www.hitachigst.com/vpp](http://www.hitachigst.com/vpp) (Reseller Web site)

#### Support E-mail:

- [support\\_usa@hitachigst.com](mailto:support_usa@hitachigst.com) (N. America)
- [support\\_ap@hitachigst.com](mailto:support_ap@hitachigst.com) (Asia Pacific)
- [support\\_uk@hitachigst.com](mailto:support_uk@hitachigst.com) (EMEA and UK)

#### Technical Support Phone Numbers:

- 1 888 426-5214 (N. America)
- 65 6840 9595 (Asia Pacific)
- 44 20 7133 0032 (EMEA and UK)
- 49 6929 993601 (Germany)

© Copyright Hitachi Global Storage Technologies 2004

Hitachi Global Storage Technologies  
5600 Cottle Road  
San Jose, CA 95193

Produced in the United States  
10/04

All rights reserved

<sup>1</sup> GB equals one billion bytes when referring to hard drive capacity; accessible capacity may be less.

<sup>2</sup> Upper 315KB reserved for firmware

<sup>3</sup> Power consumption @ Idle / GB

Travelstar™ is a trademark of Hitachi Global Storage Technologies.

Other product names are trademarks or registered trademarks of their respective companies.

Adaptive Battery Life Extender, and Drive Fitness Test are trademarks of Hitachi Global Storage Technologies.

References in this publication to Hitachi Global Storage Technologies products, programs or services do not imply that Hitachi Global Storage Technologies intends to make these available in all countries in which Hitachi Global Storage Technologies operates.

Product information is provided for information purposes only and does not constitute a warranty.

Information is true as of the date of publication and is subject to change. Actual results may vary.

This publication is for general guidance only.

Photographs may show design models.