

Enhanced availability for around-the-clock access to data

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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
Configuration	
Interface	ATA-6
Capacity (GB) ¹	60 / 40
Sector size (bytes)	512
Recording zones	16
Data heads	4
Disks	2
Max. areal density (Gbits/sq.inch)	50
Performance	
Data buffer (MB) ²	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
Reliability	
Error rate (non-recoverable)	< 1 per 10 ¹³ bits transferred
Load/unload cycle	300,000
Power on hours (POH) per month	732
Power	
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) ³	0.033 / 0.055
Physical size	
Height (mm)	9.5
Width (mm)	70
Depth (mm)	100
Weight (g)	115
Environmental characteristics	
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)
Acoustics (A-Weighted Sound Power (Bels))	
Idle (typical)	2.7
Op (typical)	3.3
Idle (maximum)	3.0
Op (maximum)	3.5

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For more information

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

² Upper 315KB reserved for firmware

³ Power consumption @ Idle / GB

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