

Travelstar™ E7K100

2.5-INCH HARD DISK DRIVES

HITACHI
Inspire the Next

Enhanced Availability for around-the-clock access to data

Highlights

- > Highest performing 2.5-inch drive
- > Small size for high capacity compact systems
- > Minimal heat emission
- > Low power consumption
- > Offered in both Serial ATA and Parallel ATA interfaces
- > Designed for applications needing around-the-clock access in lower transaction environments

Applications

- > Blade servers
- > Network routers
- > Point-of-sale terminals
- > Telephony applications
- > Web hosting

Features and Benefits

	Feature / Function	Benefits
Capacity	100 GB	Higher capacity in a 2.5" size
Reliability	300 G operating shock 1000 G non-operating shock	Exceptional ruggedness to withstand tougher handling
	600,000 load/unload cycles	Double the industry standard specification Reduces disk wear and protects user data
	Fewer electrical components	Additional design robustness
	Enhanced Error Correction Code (ECC)	Improved data integrity
Performance	Up to 629 Mb/sec media transfer rate Optimized caching	Outstanding 7200 RPM performance
Interface	PATA / SATA	Higher performance OS transparency Thinner, longer cabling Lower pin count Point-to-point connectivity Denser systems packaging
Acoustics	Fluid Dynamic Bearing (FDB) motors	Quiet operation
Power	Industry leading low power consumption	Systems design with minimal current draw



100, 80 and 60 GB | 7200 RPM
ATA-6 and SATA 1.5Gb/sec

Bigger, faster, stronger

The Hitachi Travelstar™ E7K100 series delivers a winning combination of characteristics. With high-performance, low power consumption and minimal heat emission, this second generation 7200 rpm drive is the ideal choice for more demanding data-access applications. The Travelstar E7K100, at 100GB, is the highest capacity 2.5" 7200 rpm drive. With native Serial ATA interface, the E7K100 brings the advantages of 300G of operating shock, 1000G of non-operating shock, and proven technology of Hitachi's Travelstar 2.5" product line.

The Travelstar E7K100 series offers high performance, and enhanced availability to allow users the fullest range of choices to suit each application need.

Advanced technology for demanding applications

Hitachi Travelstar E7K100 series is designed specifically for environments that require a high storage capacity in a small space with low power and minimal heat characteristics, while delivering excellent performance and reliability. The E7K100 design utilizes proven storage technologies of Hitachi's award winning Travelstar line of products, such as TrueTrack Servo, Drive Fitness Test (DFT), and Self-Monitoring Analysis and Recording Technology (S.M.A.R.T.) to deliver performance and reliability in around-the-clock environments.

Specifications

Model(s)	HTE721010G9AT00 HTE721080G9AT00 HTE721060G9AT00	HTE721010G9SA00 HTE721080G9SA00 HTE721060G9SA00
Interface	ATA-6	Serial ATA 1.5 Gb/s
Capacity (GB) ¹	100 / 80 / 60	←
Sector size (variable, Bytes/sector)	512	←
Recording zones	24	←
Data heads (physical)	4 / 4 / 3	←
Data Disks	2 / 2 / 2	←
Max. areal density (Gbits/sq. in.)	81 / 66 / 66	←
Performance		
Data buffer (MB) ²	8	←
Rotational speed (RPM)	7200	←
Latency average (ms)	4.2	←
Media transfer rate (Mbits/sec, max)	629 / 561 / 561	←
Interface transfer rate (MB/sec, max)	100 Ultra DMA mode-5 16.6 PIO mode-4	1.5 Gb/sec
Seek time (read, typical) (avg. ms)	10	←
Reliability		
Load/unload	600,000	←
Power on hours (POH) per month	730	←
Availability ³ (hrs/day x days/wk)	24x7	←
Power		
Requirement	+5 VDC (+/-5%)	←
Startup (W, peak, max.)	5.5	←
Seek (W)	2.3	2.5
Read / Write (W, avg.)	2.0	2.5
Idle (W, avg.)	1.8	2.1
Standby (W, avg.)	0.2	0.4
Sleep (W)	0.1	0.2
Physical size		
z-height (mm)	9.5	←
Dimensions (width x depth, mm)	70 x 100	←
Weight (g, typ.)	115	←
Environmental (operating)		
Ambient temperature	5° to 55° C	←
Shock (half-sine wave)	325 G (2ms), 160 G (1ms)	←
Environmental (non-operating)		
Ambient temperature	-40° to 65° C	←
Shock (half-sine wave)	1000 G (1ms)	←
Acoustics (A-weighted sound power)		
Idle (Bels, typ.)	2.6	←
Op (Bels, typ.)	3.3	←

¹ One GB is equal to one billion bytes when referring to hard drive capacity. Accessible capacity may be less.

² Upper 417KB of buffer capacity used for drive firmware

³ Intended for low duty cycle, non mission-critical applications in PC, nearline, and consumer electronics environments, which vary from application to application

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Hitachi quality and service

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

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.

How to read the Travelstar model number

HTE721010G9AT00 = 100 GB/8 MB buffer

H = Hitachi

T = Travelstar

E = Enhanced Availability (vs S for Standard)

72 = 7200 RPM

10 = Full capacity — 100 GB

10 = Capacity this model, 10 = 100 GB
(80 = 80 GB and 60 = 60 GB)

G = Generation code

9 = 9.5mm z-height

AT = ATA interface (SA = Serial ATA)

0 = Reserved

0 = Reserved

Information and Technical Support

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