

Travelstar™ E7K200

PLATINUM CLASS OF 2.5-INCH HARD DRIVES

HITACHI
Inspire the Next

Enhanced Availability (EA) models for 24 x 7 access to data

Highlights

- > At 200GB¹—the highest capacity 7200 RPM 2.5" drive
- > Third-generation PMR technology
- > Best application performance in PCMark testing
- > Industry-leading operating shock of 350G
- > Lowest 7200 RPM power consumption, comparable to 5400 RPM
- > Low acoustics, comparable to 5400 RPM
- > Serial ATA 3Gb/s
- > Designed for applications needing around-the-clock access in lower transaction environments

Applications

- > Blade servers
- > Network routers
- > Point-of-sale terminals
- > Web hosting
- > Video surveillance



200, 160 and 120GB | 7200 RPM
SATA 3Gb/s

Features and Benefits

	Feature / Function	Benefits
Performance	Up to 876Mb/s media transfer rate	18-33% faster application performance in PCMark testing than competitive 7200 & 5400 RPM 2.5" HDDs
	16MB cache buffer	Optimizes read/write response times
Power	5400 RPM parity	No need to trade-off battery life for performance
Reliability	350G 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 and performance
	TrueTrack Technology™	Tracking accuracy in high shock or vibration environments
Acoustics	Quiet acoustics	Richer audio-listening experience for music, movies and games
Interface	SATA 3Gb/s	High data throughput

Superior performance requires no sacrifice

The Hitachi Travelstar™ E7K200 is the Industry's only third-generation 7200 RPM 2.5-inch hard drive with enhanced availability. It delivers double the capacity and a 22% performance improvement over its predecessor. At 200GB, Hitachi offers the highest capacity 7200 RPM 2.5-inch product with unmatched performance in PCMark testing. Despite the higher spin speed, the E7K200 offers comparably low power consumption, heat emission and acoustics to its 5400 RPM counterparts, thereby helping system makers to support energy conservation initiatives without sacrificing performance. In addition, with its new higher shock specifications, Travelstar E7K200 is designed to address the needs for rugged, reliable storage in non-stop environments.

Around-the-clock data operation

Hitachi employs specific microcode to allow the Travelstar E7K200 to deliver 24 x 7 access to data. These models broaden the product line to make it more suitable for data intensive applications requiring round-the-clock operation. Travelstar E7K200 provides leadership capacity, performance, durability and power utilization on a proven platform for quality and reliability. The E7K200 can support the stringent demands of "always-on" applications in lower transaction environments.

Specifications

Model(s)	HTE722020K9A300 HTE722016K9A300 HTE722012K9A300
Interface	SATA 3Gb/sec
Capacity (GB) ¹	200 / 160 / 120
Sector size (bytes)	512
Recording zones	24
Data heads (physical)	4 / 4 / 3
Data disks	2 / 2 / 2
Max. areal density (Gbits/sq. inch)	164 / 132 / 132
Performance	
Data buffer (MB) ²	16
Rotational speed (RPM)	7200
Latency average (ms)	4.2
Media transfer rate (Mbits/sec, max)	876 / 695 / 695
Seek time (read, typical) (avg. ms) ³	10
Track to track (read, typical) (avg. ms)	1
Full stroke	18
Reliability	
Load/unload	600,000
Power on hours (POH) per month	730
Availability ⁴ (hrs/day x days/wk)	24x7
Power	
Requirement	+5 VDC (+ -5%)
Startup (W, peak, max.)	5.5
Seek (W, avg.)	2.6
Read / Write (W, avg.)	2.3
Idle (W, avg.)	2.0
Standby (W, avg.)	0.25
Sleep (W)	0.2
Physical size	
z-height (mm)	9.5 mm
Dimensions (width x depth, mm)	70 x 100
Weight (max, g)	115
Environmental (Operating)	
Shock (half-sine wave)	350G / 2ms, 180G / 1ms
Ambient temperature	5 to 55° C
Environmental (Non-operating)	
Shock (half-sine wave)	1000G / 1ms
Ambient temperature	-40 to 65° C
Acoustics (A-weighted sound power)	
Idle (typical)	2.5
Seek (typical)	2.9

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

² Upper 705KB out of 16MB used for firmware

³ Excludes command overhead

⁴ 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.

How to read the Travelstar model number

HTE722020K9A300 = 200 GB, SATA 3Gb/s

H = Hitachi

T = Travelstar

E = Enhanced availability (vs S for Standard)

72 = 7200 RPM

20 = Full capacity—200GB

20 = Capacity this model, 20 = 200GB

(16 = 160GB, 12 = 120GB)

K = Generation code

9 = 9.5mm z-height

A3 = Interface, SATA 3Gb/s

0 = Reserved

0 = Reserved

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