

3.5 inch 10K RPM hard disk drives
Capacities: 36.9, 73.9 & 147.8 GB

HITACHI
Inspire the Next

Hitachi Ultrastar DK32EJ series hard disk drives

Highlights

- ▶ *High capacity, high performance drives for workstations, LAN servers, RAID, NAS, SAN, data warehousing, and multi-user systems*
- ▶ *Dual Spin Valve GMR head and MEEPRML technology*
- ▶ *4 MB and 16 MB read/write cache*
- ▶ *250G Non-operating Shock*
- ▶ *Available in U320 SCSI and 2 Gb FCAL interfaces*
- ▶ *Data transfer rates of up to 799mb/s*



Hitachi Ultrastar DK32EJ specifications

HITACHI
Inspire the Next

Product	Hitachi Ultrastar DK32EJ Series		
Model	Ultrastar DK32EJ-14	Ultrastar DK32EJ-72	Ultrastar DK32EJ-36
Configuration			
Storage Capacity	147.8 GB	73.9 GB	36.9 GB
Number of Disks	5	3	2
Number of Heads	10	5	3
Areal Density	30.0 Gb/in ²	30.0 Gb/in ²	30.0 Gb/in ²
BPI	586 kBPI	586 kBPI	586 kBPI
TPI	51.2 kTPI	51.2 kTPI	51.2 kTPI
Read Method	MEEPRML	MEEPRML	MEEPRML
Performance			
Seek Time (read/write)			
Average	4.9/5.4 ms	4.9/5.4 ms	4.9/5.4 ms
Full Stroke	11/12 ms	11/12 ms	11/12 ms
Track	0.5/0.7 ms	0.5/0.7 ms	0.5/0.7 ms
Average Latency	2.99 ms	2.99 ms	2.99 ms
Rotational Speed	10,025 rpm	10,025 rpm	10,025 rpm
Data Transfer Rate (in drive)	458-799 Mb/s	458-799 Mb/s	458-799 Mb/s
Start Time	25 s	25 s	25 s
Data Transfer Rate (controller)	Ultra (Fast-20) 40.0 max. MB/s Ultra2 (Fast-40) 80.0 max. MB/s Ultra 160 (Fast-80) 160.0 max. MB/s Ultra320 320.0 max. MB/s		
SCSI (wide, SCA) FC-AL2	Ultra320 320.0 max. MB/s 200 max. MB/s		
Buffer Size	4M Option: 16M	4M Option: 16M	4M Option: 16M
Physical Specifications			
Dimensions			
Height	25.4 mm	25.4 mm	25.4 mm
Width	101.5 mm	101.5 mm	101.5 mm
Depth	146 mm	146 mm	146 mm
Weight	approx. 0.7 kg	approx. 0.7 kg	approx. 0.7 kg
Power Dissipation (idle)			
SCSI	11 W	9 W	8 W
FCAL	14 W	12 W	11 W
Environmental Conditions			
Temperature			
Operating	5° to 55° C	5° to 55° C	5° to 55° C
Non-Operating	-40° to 70° C	-40° to 70° C	-40° to 70° C
Storage/Shipping	-40° to 70° C	-40° to 70° C	-40° to 70° C
Temperature Gradient	20° C per hour maximum		
Humidity			
Operating	5% to 90% RH	5% to 90% RH	5% to 90% RH
Non-Operating	5% to 90% RH	5% to 90% RH	5% to 90% RH
Wet Bulb Temperature	29° C maximum (non-condensing)		
Atmosphere	Non-corrosive gas saline atmosphere		
Vibration			
Operating	9.8 m/s ² (1.0G) maximum		
Non-Operating	4.9 m/s ² (0.5G) maximum		
Shock			
Operating	147 m/s ² (15G) maximum [11ms] 735 m/s ² (75G) maximum [11ms]		
Non-Operating	2450 m/s ² (250G) maximum [2ms]		
Acoustic Noise (Idle)	4.0 Bels average		
Reliability			
Data Reliability			
Recovered	10 error in 10 ¹² bits read		
Non-recovered	1 error in 10 ¹⁴ bits read		
Seek Error Rate	10 error in 10 ⁹ seeks		
Life	5 years (surface temperature of HDA is 45° C or less)		

Hitachi Global Storage Technologies

For more information

Internet and e-mail:

- www.hgst.com
- support_usa@hgst.com

Hitachi hard drive product information:

- 1 888 426-5214

For other Hitachi products:

- 1 800 HITACHI (800 448 2244)

© Copyright Hitachi Global Storage Technologies 2003

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

Produced in the United States
1/03
All rights reserved

Ultrastar™ is a trademark 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.