

3.5 inch 10K RPM hard disk drives
Capacities: 73.9, 36.9 & 18.4 GB

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Hitachi DK30CJ series hard disk drives

Highlights

- ▶ *High capacity, high performance drives for workstations, LAN servers, RAID and multi-user systems*
- ▶ *10,025 rpm rotational speed*
- ▶ *Giant MR head & MEEPRML read channel technology*
- ▶ *4 MB read/write cache*



Hitachi DK30CJ series specifications

Product	Hitachi DK30CJ series		
Model	DK31CJ-72	DK32CJ-36	DK32CJ-18
Performance			
Total Capacity Formatted	73.9 GB	36.9 GB	18.4 GB
Per Sector	512 Bytes	512 Bytes	512 Bytes
Number of Disks (Thin Film)	12	6	3
Number of Heads (Giant Magneto Resistive)	23 (GMR)	12 (GMR)	6 (GMR)
Seek Time (Average/Read/Write)	5.7 / 6.5 ms	5.2 / 6.0 ms	5.2 / 6.0 ms
Average Latency	2.99 ms	2.99 ms	2.99 ms
Rotational Speed	10,025 RPM	10,025 RPM	10,025 RPM
Read Technology	MEEPRL	MEEPRL	MEEPRL
Internal Transfer Rate	33.4 - 52.8MB/s	33.4 - 52.8MB/s	33.4 - 52.8MB/s
Areal Density	6.65 Gb/in ²	6.65 Gb/in ²	6.65 Gb/in ²
Recording Density	313 kBPI	313 kBPI	313 kBPI
Track Density	21.2 kTPI	21.2 kTPI	21.2 kTPI
Interface	Ultra 160, 68-pin Wide, 80 pin SCA-2 / FCAL2 40-pin SCA-2		
Interface Transfer Rate	Ultra 160 SCSI-160.0MB/s, Fibre Channel 100.0 MB/s		
Data Buffer	4MB	4MB	4MB
Caches	Look Ahead Cache / Write Immediate Cache		
Physical Specifications			
Dimensions			
Height	41.3 mm	25.4 mm	25.4 mm
Width	101.6 mm	101.6 mm	101.6 mm
Depth	146.0mm	146.0mm	146.0mm
Weight	1 k g	0.6 kg	0.6 kg
Power Requirements			
+12V +-5%			
Start	3.3 A (typ.)	2.1 A (typ.)	2.1 A (typ.)
Seek	3.0A (typ.)	2.7 A (typ.)	2.7A (typ.)
Idle	1.05 A (typ.)	0.7 A (typ.)	0.5 A (typ.)
+5V +-5%			
Read/Write	1.1A (typ.)	1.1A (typ.)	1.1A (typ.)
Idle	0.5 A (typ.)	0.5 A (typ.)	0.5 A (typ.)
Power Consumption			
Idle (SCSI)	15W	11W	8.5 W
Environmental Conditions			
Temperature			
Operating	5° to 55°C		
Non-Operating	-20° to 60°C		
Relative Humidity			
Operating	8% to 80%		
Non-Operating	8% to 90%		
Max. Wet Bulb	29°C (non-condensing)		
Shock			
Operating	10 G or less (11 ms half sine wave)		
Non-Operating	175 G or less (2ms half sine wave)	75G (11 ms half sine wave)	
Vibration			
Operating	0.75 G	0.75G	0.75 G
Non-Operating	2G	2G	2G
Acoustic Noise			
Idle	4.6 Bels (Ave.)	4.2 Bels (Ave.)	4.2 Bels (Ave.)
Reliability			
Mean Time Between Failures	1,00,000 power-on hours		
Preventive Maintenance	Not Required		
Error Rate (Unrecoverable Errors)	Less than 1 per 10 ¹⁴ bits read		

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For more information

Internet:

- www.hgst.com

For other Hitachi products:

- 1 800 HITACHI (800 448 2244)

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