



# Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for HITACHI DESKSTAR (DSAA). You'll find the answers to all your questions on the HITACHI DESKSTAR (DSAA) in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

**User manual HITACHI DESKSTAR (DSAA)**  
**User guide HITACHI DESKSTAR (DSAA)**  
**Operating instructions HITACHI DESKSTAR (DSAA)**  
**Instructions for use HITACHI DESKSTAR (DSAA)**  
**Instruction manual HITACHI DESKSTAR (DSAA)**

Hdd\_daa.txt

3 1/2-INCH  
540 MB and 720 MB LOW PROFILE DISK DRIVES  
MODELS  
DSAA-3540, 3720  
DSAA-3940, 3720

AN OEM OFFERING FROM IBM

This family of drives brings IBM's industry-leading Magnetoresistive head technology to the desktop computer marketplace, offering superior performance and outstanding reliability. IBM's well-proven advanced head and disk technology delivers higher capacities—up to 365 MB per disk on these models—with fewer components.

Today's desktop PC users are demanding more performance and higher capacities to effectively manage databases, spreadsheet, desktop publishing, and graphic applications in multitasking environments. The mainstream market is embracing 540 MB and larger disk drives at an accelerating pace. IBM is already there with this family of drives. The higher areal density (255 b/pq in) gives a higher average data rate with reduced "tail-off" on the inner bands.

These 3.5" drives spin at 4500 RPM and operate at an average access time of 12 ms. The high linear recording density provides an outstanding minimum sustained data rate of 2.5 MB/sec. Performance is further enhanced by a 128 KB segmented buffer (256 KB option) with write cache and read look-ahead.

The drives are available with either ATA-2 (11.1 MB/sec) or Fast SCSI-2 (10.0 MB/sec) interfaces. The AT\* drives support LBA mode and extended cylinder addressing in addition to low power dissipation, AT and SCSI power management commands for "Green PC" applications are also supported.

QUALITY AND RELIABILITY

In line with IBM's outstanding commitment to quality, reliability is again improved to over 300,000 power-on hours MTBF.

These drives undergo extensive testing to ensure compatibility across a broad spectrum of hardware platforms and operating systems.

HIGHLIGHTS

- 540 MB and 720 MB capacities
- 12 ms average seek
- 4500 RPM spin rate
- Low power—2.7 W at idle
- ATA-2 and SCSI-2 F interfaces
- AT interface data rate of 11.1 MB/sec (PIO Mode-3)
- SCSI-2 F interface data rate of 10.0 MB/sec
- 300,000 power-on hours MTBF

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<http://yourpdfguides.com/dref/2839439>

**Manual abstract:**

Today's desktop PC users are demanding more performance and higher capacities to effectively manage database, spreadsheet, desktop publishing, and graphic applications in multitasking environments. The mainstream market is embracing 540 MB and larger disk drives at an accelerating pace. IBM is already there with this family of drives. The higher areal density (358 b/sq in) gives a higher average data rate with reduced "tail-off" on the inner bands.

@@@@@@@@@These drives undergo extensive testing to ensure compatibility across a broad spectrum of hardware platforms and operating systems. HIGHLIGHTS 540 MB and 720 MB capacities 12 ms average seek 4500 RPM spin rate Low power--2.7 W at idle ATA-2 and SCSI-2 F interfaces AT interface data rate of 11.1 MB/sec (P10 Mode-3) SCSI-2 F interface data rate of 10.0 MB/sec 300,000 power-on hours MTBF Page 1 Hdd\_dsa.txt - 128 KB segmented data buffer (256 KB option) Write cache ECC on-the-fly MR head technology PRODUCT DESCRIPTION

3 1/2" 540 MB and 720 MB Disk Drive DSAA-3540/ 3270 DSAS-3540/ 3720 Configuration Interface ATA-2 (IDE)

Fast SCSI-2 Device Capacity Formatted 548/730 MB (1) Sector Size 512 Bytes Recording Zones 8 User Cylinders 3875 Data Heads 3/4 Disks 2/2 Areal Density Maximum 358 Mb/sq in Recording Density Maximum 83,200 BPI Track Density 4300 TPI

Performance Rotational Speed 4500 RPM Media Data

Rate 32.

5-44.6 Mbits/sec Interface Transfer Rate Maximum 11.1 MB/sec 10.0 MB/sec (P10 Mode-3) (sync) Data Buffer Read Look-Ahead and Write 128 (2) KB (256 KB option) Latency Average 6.67 ms Seek Time (Typical Read) Average 12 ms Track to Track 4 ms Full Track 25 ms

Reliability MTBF Projected power-on hours 300,000 Error

Rates Non-Recoverable Errors < 1 per 1.

0E13 Bits Transfer Power Requirements +5 VDC +/- 5%, +12 VDC + 10% - 8% Dissipation (typical) Start-up (Maximum Peak 15.7 Watts Seek (Average) 4.8 Watts Idle (Average) 2.7 Watts

Physical Size Height 25.4 mm Width 101.

6 mm Depth 146 mm Weight Maximum 530 g Operating

Non-Operating Page 2 Hdd\_dsa.txt Environmental

Characteristics Ambient Temperature 5 to 55 degrees C -40 to 65 degrees C Relative Humidity Non-Condensing 8% to 90% 5% to 95% Maximum Wet Bulb

Non-Condensing 29.4 degrees C 35 degrees C Shock Half-sine-wave 30 G/4 ms 75 G/11 ms Vibration Random (RMS) 0.67 G (5-500Hz) 1.04 G (2-200 Hz)

(1) 1 MB=1,000,000 Bytes (2) Upper 32 KB used for

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