

3 1/2-INCH ULTRASTAR2 XP*
8.7 GB HIGH PERFORMANCE DISK DRIVE
MODELS
DCHS-38700
DCHC-38700

AN OEM OFFERING FROM IBM

The new Ultrastar2 XP disk drive is optimized for high performance and incorporates the industry's most advanced recording and manufacturing technologies.

Designed for applications demanding fast access to large amounts of data, the drive can be a direct replacement for larger 5.25-inch drives across a wide range of applications. In addition to meeting the needs of large-scale imaging and graphics applications, the Ultrastar2 XP can also be implemented into high-speed network servers or multiuser database systems. A low cost per megabyte level makes this drive an attractive alternative to the multiple lower capacity 3.5-inch drives used in current subsystems.

The 8.7 GB storage capacity and minimum 10.2 MB/sec media data rate are ideal for multimedia and audio/visual systems which require higher throughput. Utilizing an embedded servo design requiring no mandatory thermal calibration routines, the Ultrastar2 XP drive provides ample support for continuous video streams.

The superior performance characteristics of this new drive result from a number of factors in combination. The drive spins at 7200 RPM with an average data access time of 8.5 ms. The Ultrastar2 XP employs MR heads and a third generation PRML channel resulting in an industry-leading areal density of 790 Mbits/sq in and a leadership media data rate as high as 14.2 MB/sec.

This Ultrastar2 XP drive provides support for concurrent command processing, tagged command queuing, command reordering, adaptive read ahead caching and write caching, and is available with either a standard

SCSI Fast or SCSI Fast/Wide interface (DCHS-38700 model) or the powerful high-speed Serial Storage Architecture (SSA) interface (DCHC-38700 model), which supports transfer rates as high as 80 MB/sec.

Enhanced reliability features include ECC on the fly, automatic error recovery, automatic sector reallocation and Predictive Failure Analysis (PFA), which performs a suite of self-diagnostic tests, minimizing customer exposure to data loss.

HIGHLIGHTS

- 8.7 GB capacity
- 8.5 msec average seek
- 7200 RPM
- 1,000,000 poh MTBF
- Low operating power--17.5 W
- 512 KB (1) segmented data buffer with 1 MB option
- Fast SCSI-2, Fast/Wide SCSI-2, or SCA connector options
- Dual-port SSA interface option
- 20.0 MB/sec (SCSI) or up to 80.0 MB/sec (SSA) interface data rate
- Embedded servo design
- ECC on the fly
- Automatic error recovery
- Automatic sector reallocation
- PRML digital read channel
- Predictive Failure Analysis
- MR head technology
- Audio/visual friendly

PRODUCT DESCRIPTION

3 1/2" Ultrastar2 XP 8.7 GB Disk Drive	DCHS-38700	DCHC-38700
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Configuration			
Interface	SCSI 2-F, F/W, SCA	SSA	
Formatted Capacity (512 bytes)	8700 MB (2)		
Capacity of Disks	966 MB		
Number of Disks	9		
Number of Heads	18		
Areal Density			

	Operating	Non-Operating
Environmental Characteristics		
Temperature	5 to 55 degrees C	-40 to 65 degrees C
Relative Humidity		
Non-Condensing	5% to 90%	5% to 95%

- (1) Upper 128 KB used for firmware
- (2) 1 MB=1,000,000 Bytes

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