

## 0663 Model W2H

5 1/4-Inch  
2.4 GB Fast SCSI-2 Disk Drive

The OEM 0663 Model W2H hard disk drive with two 3 1/2-inch HDAs features a formatted capacity of 2.4 GB in a 5 1/4-inch form factor. The two 3 1/2-inch HDAs are independently addressable and are capable of performing back-to-back writes, providing significant performance advantages over current 5 1/4-inch hard disk drives offered by the industry. Model W2H is also extremely reliable, providing 275,000 hours of mean time between failures (MTBF), including early-life and end-of-life failures.

This unique packaging provides a number of benefits over a single large capacity drive. By packaging two independent 3 1/2-inch drives within the 5 1/4-inch form factor, this drive achieves more I/O operations per second than most 5 1/4-inch single actuator drives while requiring less power.

The Model W2H also provides advantages over separate mounting of two 3 1/2-inch drives. A single planar board reduces the number of components, providing enhanced reliability and space savings. SCSI stub lengths are significantly reduced. The packaging is designed and tested for minimal EMI, vibration, interaction, and thermal interference.

## HIGHLIGHTS

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- Fast SCSI-2 (10 MB/sec)
- Command reordering
- Back-to-back writes
- Two 256K byte dual ported segmented buffers
- Self-optimizing buffer ratios
- Read-ahead caching
- Advanced reliability

## PRODUCT DESCRIPTION

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5 1/4-Inch, 2.4 GB Fast SCSI-2 Disk Drive

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General	Model 0663-W2H
Capacity (formatted)	2412 MB
Reliability	
MTBF (1)	300,000 hours
Recoverable Read Errors	<10 in 10E 11
Non-Recoverable Read Errors	<10 in 10E 15
Seek Errors	<10 in 10E 9
Power Dissipation	
Typical	25.0 Watts
Physical	
Height	82.5 mm
Width	146.0 mm
Length	206.3 mm
Weight	3.0 kg
Temperature	
Operating	+5 to +55 C
Relative Humidity	
Operating	8% to 90%
Shock	
Operating	10 G

Non-Operating	60 G
Vibration	
Operating	.5 G
Non-Operating	2.0 G

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Information per HDA

Number of Heads	15
Number of Disks	8
Areal Density	158.1 Mbits/sq in
Tracks per inch	2685
Power	
+5 VDC	1.1 Amp
+12 VDC (Idle)	0.45 Amp
+12 VDC Startup	2.7 Amps
Typical	12.5 Watts
Disk Rotational Speed	4317
Average Latency	6.95 msec
Average Seek Time	9.8 msec
Media Data Transfer Rate	3.0 MB/sec
Interface Data Transfer Rate	10 MB/sec
Cache Size	256 KB
Disk type	Thin film
Channel	PRML
Actuator type	Rotary VCM
Head type	Magneto resistive (MR)

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(1) MTBF includes early-life and end-of-life failures

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