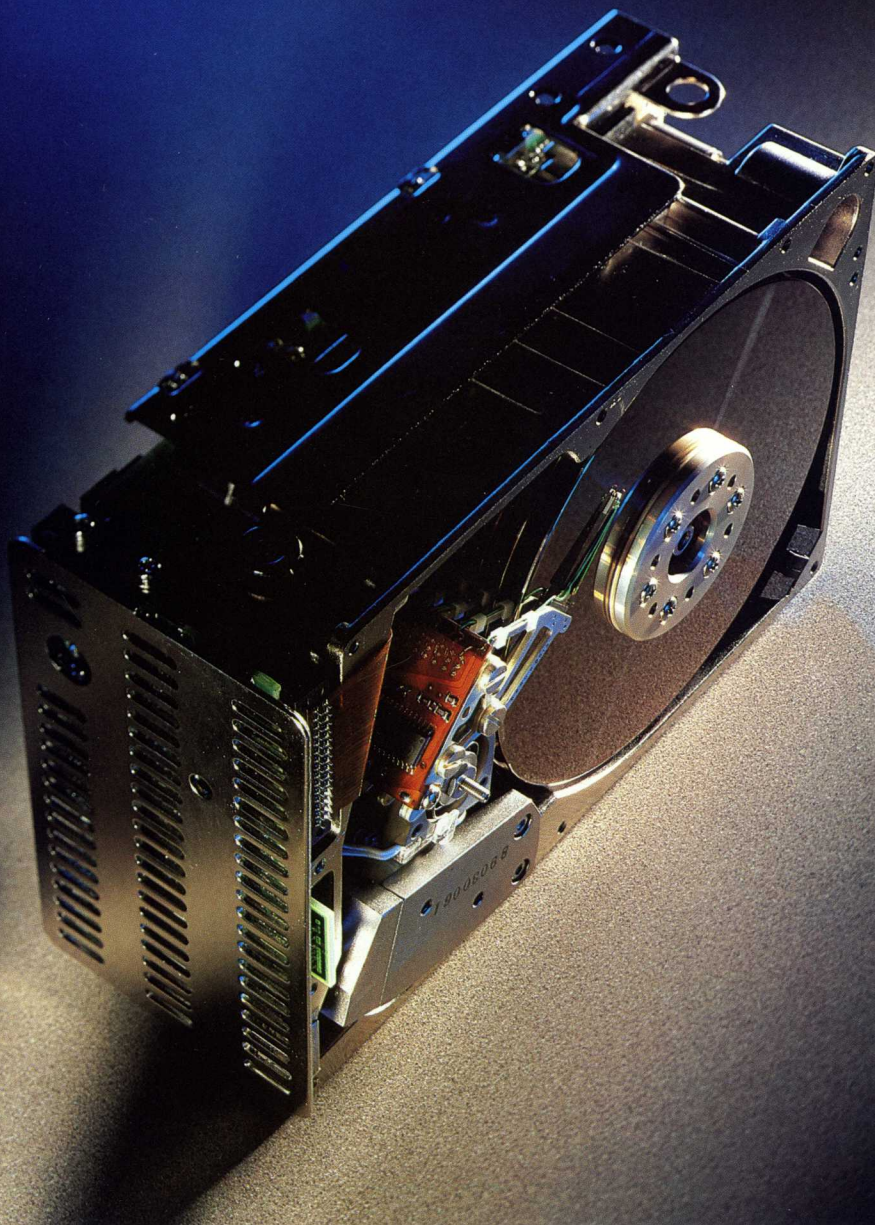


4/90 JUN 4 1990

FUJITSU

5.25-inch Winchester disk drives.

**The cost-effective
5.25-inch disk
solution for ap-
plications that
require high
performance
combined with
exceptional
reliability.**





Cost of ownership is the final test of quality and reliability—in short, of value. By that test, no other 5.25-inch drives perform better than Fujitsu M2261 and M2263 Winchester disk drives.

THE LATEST IN A LONG TRADITION OF EXCELLENCE

Fujitsu has over the last two decades established an enviable position in the world of large-format drives. Its eight-, ten-inch and larger disks have become the industry standard and the first choice of the world's leading OEMs.

The same engineering and manu-

facturing standards that created that large-scale success has been migrated downwards to the increasingly popular smaller drive formats. The 5.25-inch Winchester disk drive is one of the results of this expanded design effort.

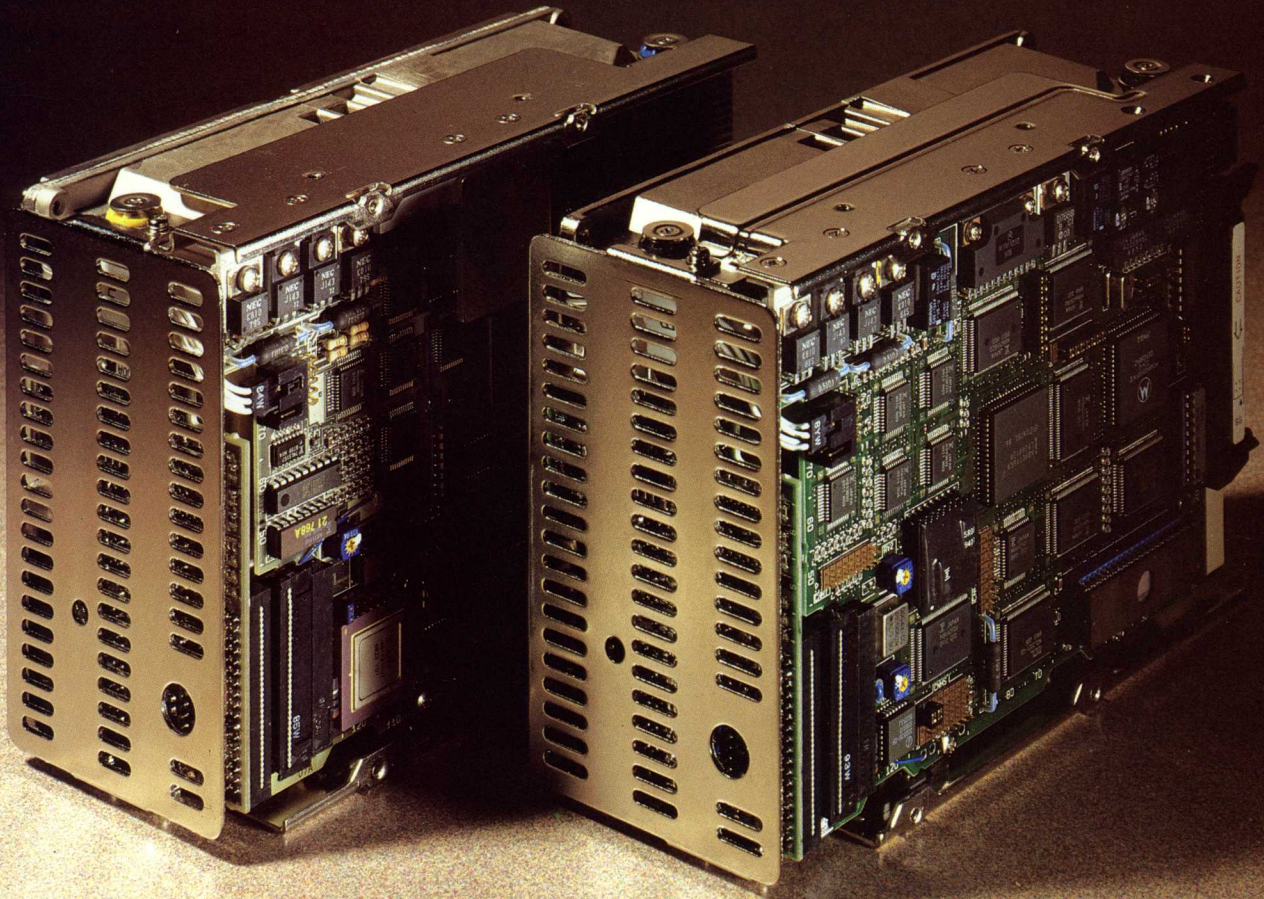
PERFORMANCE TARGETED TO THE APPLICATIONS YOU ARE BUILDING TODAY.

The M2261/63 family puts 778 MB of storage capacity into the same space as a standard 5.25-inch flexible drive. It can be mounted horizontally or vertically. It is the ideal solution for the business or office application

being upgraded to larger storage capacity or to provide greater performance for handling image, voice and video data.

In keeping with the needs of current applications in this area, Fujitsu's 5.25-inch family offers both Enhanced Small Disk and Small Computer System Interfaces (EDSI and SCSI). Positioning time is a fast 4 milliseconds, track-to-track; 16 milliseconds average; 30 milliseconds maximum including settling time. Data transfer is 1.875 MB/s. The ESDI version (designated by an 'E' suffix) supports spindle-synchronization—a desirable feature in array applications.

Fujitsu M2261 and M2263 disk drives address EDSI and SCSI applications, respectively.



SCSI FUNCTIONALITY

The SCSI version of the drive is designated by an 'SA' suffix to the model number for single-ended, and 'HA' for differential. This version offers all of the performance characteristics of the ESDI version with the added benefits of an embedded controller. The SCSI version reduces system cost by incorporating the controller functions within the drive's form factor. Additionally, the need for only a single interface cable further reduces system cost.

The M226XSA supports many SCSI 2 ANSI standard functions. It includes a 64 kilobyte programmable cache buffer. The asynchronous transfer is 1.75 MB/s and the synchronous rate is up to 4.0 MB/s. Performance is further enhanced through support of index and sector slipping. Thus the host sees zero latency while sequentially transferring the data to and from the M226XSA. High performance is further insured through the use of two 16-bit microprocessors, one for mechanical control and one for SCSI control.

The SCSI drives are preformatted to 512 bytes/sector, but may be reformatted to any sector size from 180 to 4096 bytes/sector in two byte increments. This latter feature accommodates unique, atypical sector sizes. Flexibility is further reflected through the use of a remote I.D. connector. This allows you to change the SCSI address of an integrated drive without disassembling the system.

ENGINEERED FOR RELIABILITY AS WELL AS PERFORMANCE

Long-term performance is a matter of attention to detail both in design and manufacture. Fujitsu tests each drive for 24 hours—while varying both temperature and voltage, thus, infant mortality is reduced at your facility.

Additionally, a microprocessor controls the voice coil motor. This

greatly simplifies the seek control circuitry and further enhances disk reliability.

THE PROMISE AND REALITY OF SOLID TROUBLE-FREE PERFORMANCE

The quality and reliability of Fujitsu drives is driven by a demanding product development philosophy that encompasses every part, large or small, critical to drive performance. Each is designed, built and quality-inspected by Fujitsu itself to assure that all will work together perfectly throughout the disk's long life.

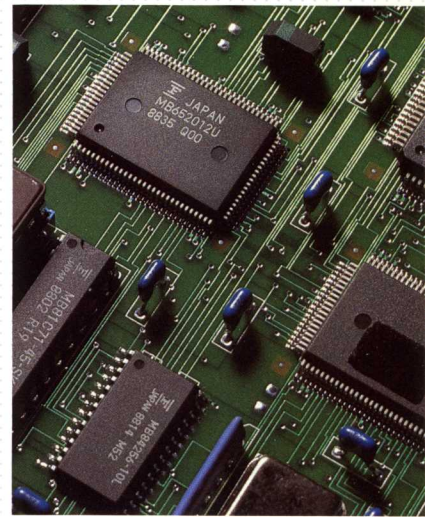
As a result, even a conservative approach to calculating the likely mean time between failures (MTBF) results in a figure for the M2261/63 drives of over 200,000 hours. The implications of that for reliability and day-in, day-out performance are reflected in Fujitsu's five-year warranty on these drives.

IN THE END, COST OF OWNERSHIP IS EVERYTHING.

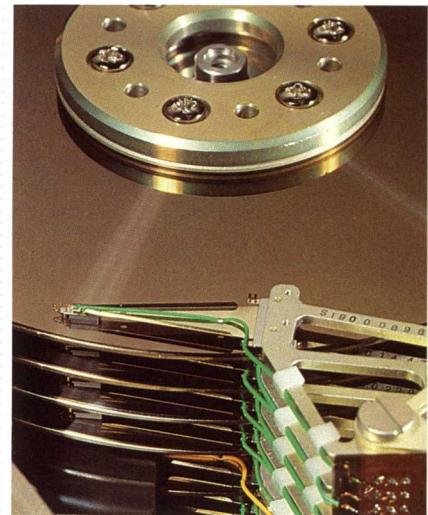
Talking about cost of ownership is another way of talking about value. It's the manhours your customers don't lose; it's the price you don't pay for repairs; it's the returns you don't have to process; it's the extra units that don't have to be kept in the pipeline to satisfy replacement demands. To sum it up, it's the tangible, bottom line dividend you earn from purchasing a product built well enough to achieve a 200,000 hour MTBF figure.

TURN TO FUJITSU FOR COMPREHENSIVE SOLUTIONS.

If the M2261/63 drive family's performance and reliability seem attractive to you, we encourage you to look at Fujitsu's many other computer, computer peripheral, and communications products. They range from hard and flexible disk drives in all form factors to tape backup systems, printers and scanners.



High-density, cleanly finished surface mount technology contributes to drive reliability as well as compactness.



The read/write characteristics of advanced MIG heads insure data integrity.

Specifications

	M2261E	M2263E	M2261 SA/HA	M2263 SA/HA
DRIVE CAPACITY				
<i>Unformatted:</i>	415 MB	778 MB	415 MB	778 MB
<i>Formatted:*</i>	366 MB	688 MB	357 MB	672 MB
DISKS	5	8	5	8
HEADS				
<i>Read/write:</i>	8	15	8	15
<i>Servo:</i>	1	1	1	1
TRACK CAPACITY				
<i>Unformatted</i>	31,296 bytes			
CYLINDERS	1,658			
POSITIONING TIME				
<i>Track to Track:</i>	4 ms			
<i>Average:</i>	16 ms			
<i>Maximum:</i>	30 ms			
AVERAGE LATENCY	8.3 ms			
TRANSFER RATE				
<i>Asynchronous:</i>	1.875 MB/s		1.75 MB/s	
<i>Synchronous:</i>			4.0 MB/s	
RECORDING CODE	RLL (1,7)			
INTERFACE	ESDI		Embedded SCSI	
POWER REQUIREMENT	12 VDC ± 5% 1.65A, 5 VDC ± 5% 1.6A		12 VDC ± 5% 1.9A, 5 VDC ± 5% 1.4A	
DIMENSIONS (H × W × D)	3.3 in. × 5.7 in. × 8 in.			
WEIGHT	7.7 lbs.			

*Based on 512 bytes/sector.

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