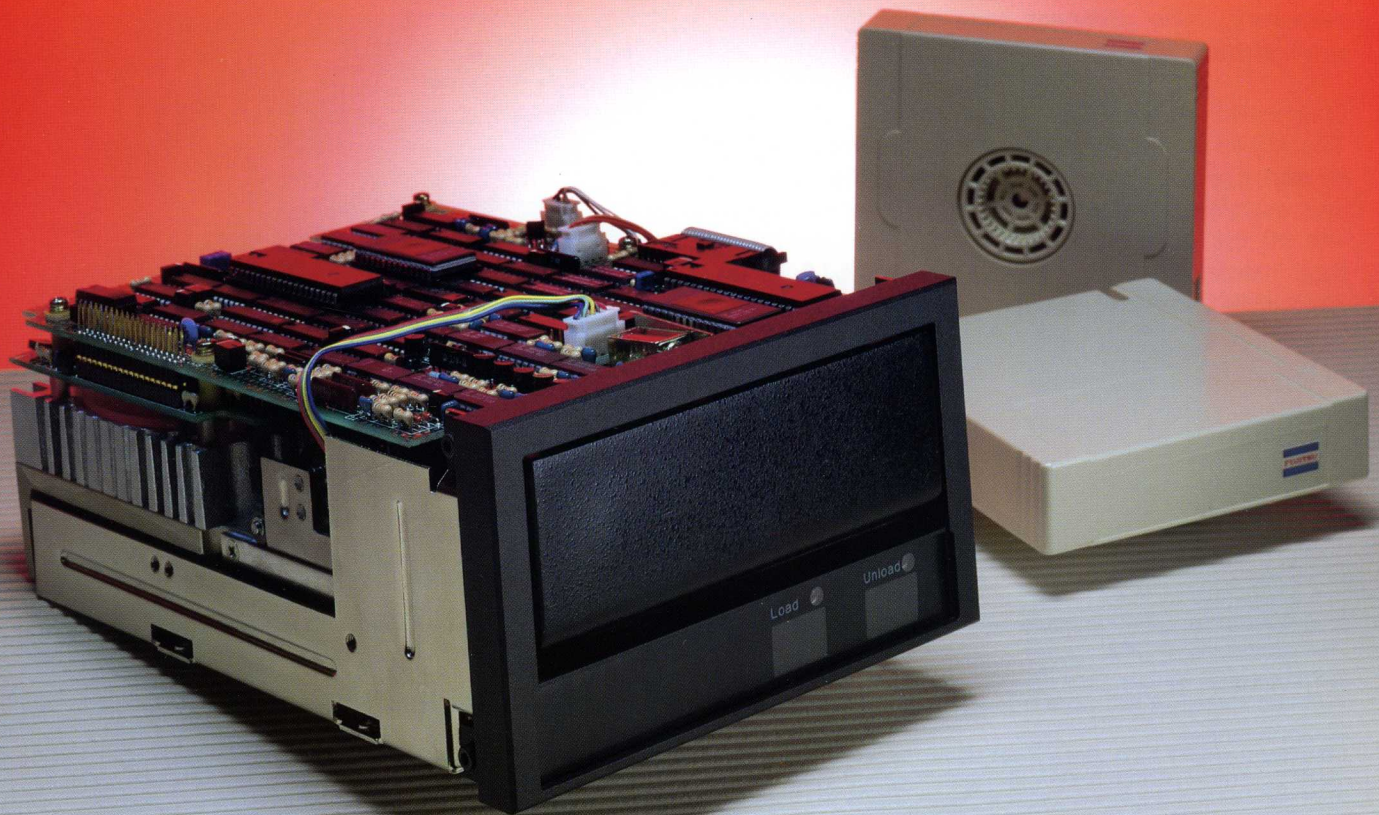


OEM CARTRIDGE
MAGNETIC TAPE DRIVE

JUN 7 1985

M2451A

*A half-inch cartridge magnetic tape drive,
featuring 120MB capacity,
225KB/s data transfer rate, 15,000 MTBF reliability,
and 5¹/₄-inch disk drive form factor.
An ideal backup for Winchester-type microdisk drives.*



OEM CARTRIDGE MAGNETIC TAPE DRIVE

Single reel half-inch magnetic tape cartridge

Fujitsu's M2451A cartridge magnetic tape drive stores data in a single reel half-inch magnetic tape packaged in a compact cartridge of 1 inch high, 4 inches wide, and 4 inches deep. The cartridge is easy to handle. Just insert it into the cartridge slot, shut the door, and press the LOAD button on the operator panel, then the tape is automatically loaded.

Large capacity

The M2451A records data in 20-track tape cartridges at a linear density of 12,000 bps by means of MFM. As a result, a single tape cartridge can store up to 120 megabytes of data. This large storage makes an ideal backup for disk drives whose capacities are increasingly enlarged.

Compact design

Since the M2451A's physical size and mounting specifications are the same as those of 5¼-inch disk drives, the M2451A can replace 5¼-inch disk drive. No modifications to enclosure hardware is necessary. Also compact tape cartridges require a small storage space.

Dual speed, dual mode

The M2451A has two tape speeds, 75 ips and 50 ips. It also has two operating modes – streaming mode and start/stop mode. In the start/stop mode, only the 50 ips tape speed is possible. This dual speed, dual mode capability makes the M2451A suitable for a wide variety of applications.

Unsurpassed reliability

With the M2451A, an assortment of measures has been taken to assure unsurpassed reliability; A direct reel to reel servo system, which employs a long life brushless DC motor, is used to control the tape movement. Also accurate interface and servo control is carried out by respective microprocessors. As a result, 15,000 hours of MTBF has been achieved. What's more, should read/write errors occur, the ECC function corrects the errors, making the error rate as low as that of half-inch open reel tape drives.

Interfaces

The M2451A has an Enhanced Small Device Interface (ESDI) to communicate with the controller. An optional M1008A cartridge magnetic tape controller, which has a Small Computer System Interface (SCSI) is available to communicate with the host computer. It also has a read/write buffer with a capacity of 64 kilobytes.

SPECIFICATIONS

M2451A			
Operating mode	Streaming		Start/stop
Capacity (formatted)	120MB		74MB
Transfer rate	225KB/s	150KB/s	150KB/s
Tape speed	75 ips	50 ips	50 ips
Recording density	12,000 bpi (MFM)		
Tracks	20 (2-track serpentine)		
Access time	150 ms to 300 ms	60 ms to 100 ms	
Media Tape Cartridge (H x W x D)	1/2 inch tape (ANSI proposed) 25.4 mm x 108 mm x 105 mm (1 in x 4.25 in x 4.125 in)		
Interface	ESDI		
Optional	M1008A cartridge magnetic tape controller * SCSI interface * 64KB read/write buffer		
Power	+5V ± 5%, 2.5A +12V ± 5%, 3.5A (7.5A. max. 80 ms)		
Dimensions (H x W x D)	83 mm x 146 mm x 203mm (3.25 in x 5.75 in x 8.0 in)		
Weight	3.2 kg (7 lb)		

Specifications are subject to change without notice. For the latest information, contact your local Fujitsu representative.

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