

# FUJITSU

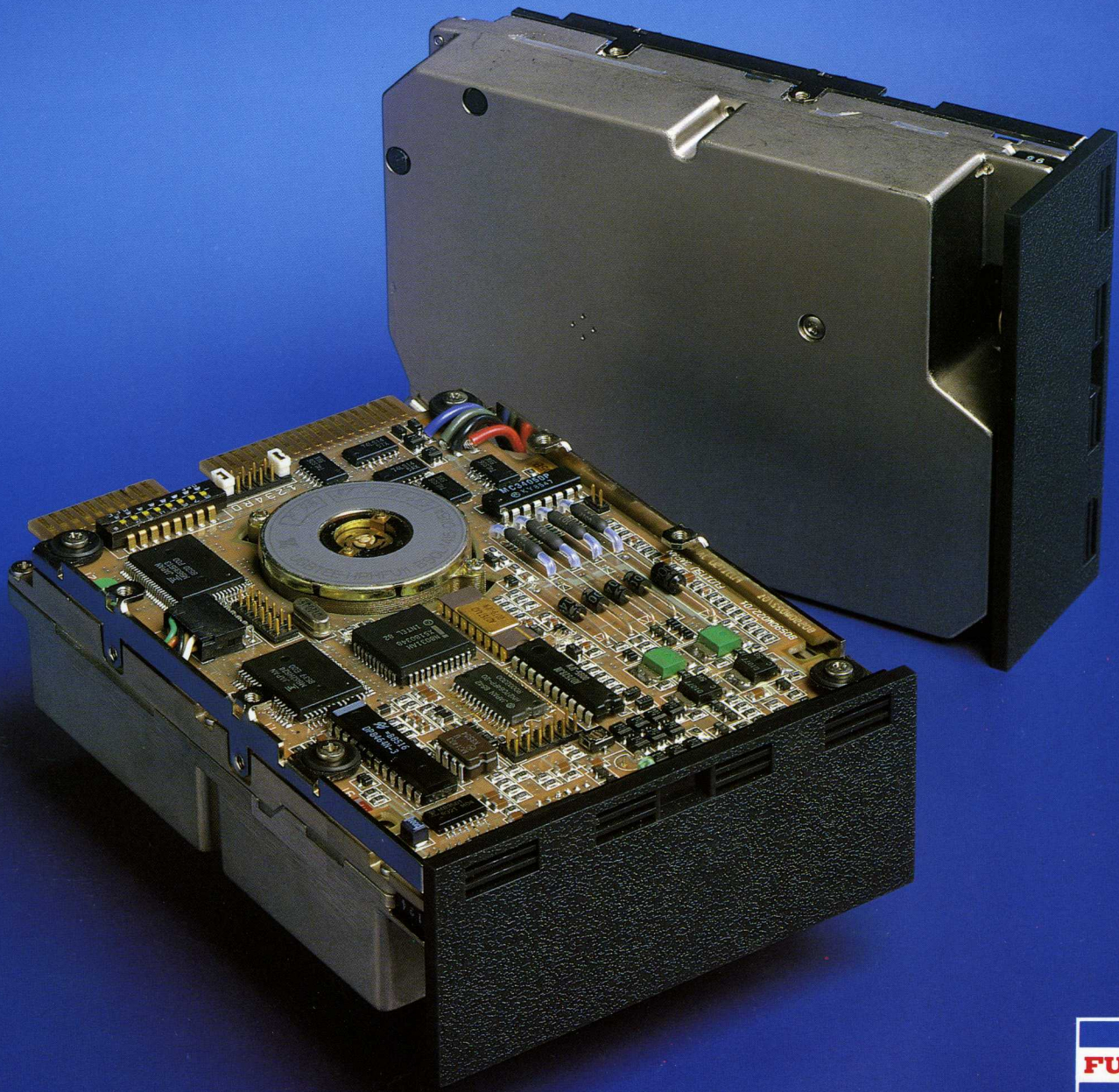
Quality OEM Products

MAR 6 1987

## 3.5-inch disk drives

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**M2226D**  
**M2227D**





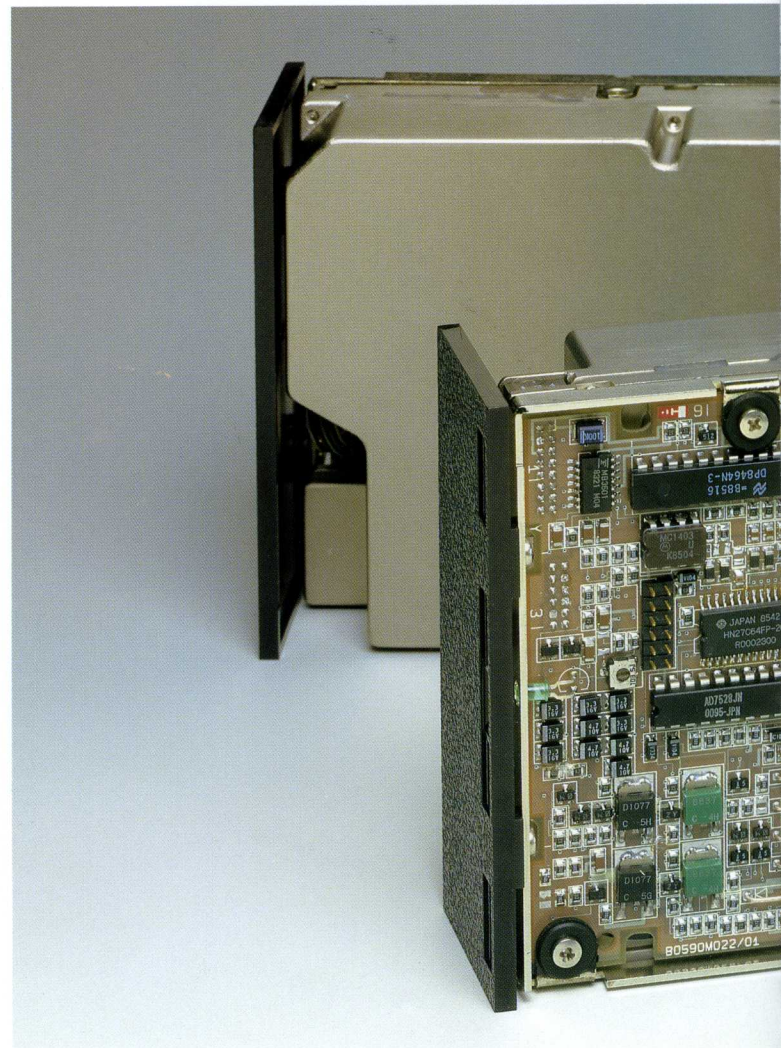
Fujitsu M2226D and M2227D set new standards in capacity and performance for 3.5-inch disk drives. They are ideal for file systems in high-power office automation systems including superminis and high-level personal computers.

### **New large-capacity, high-performance**

The M2226D and M2227D have double the capacity of conventional 3.5-inch disk drives. The M2226D offers 38.43 megabytes of unformatted storage and the M2227D 51.24 megabytes. They have the fastest access time: less than 45 milliseconds average, including settling time. They transfer data at 625 kilobytes per second.

### **Compact, reliable**

Each of these disk drives measures only 41.3 mm (1.625 in.) high, 101.6 mm (4.0 in.) wide, and 146 mm (5.75 in.) deep, and can fit into a 3.5-inch floppy disk drive cabinet. With the use of Whitney heads as well as advanced LSI technology and a voice coil motor, the reliability of the drives has been enhanced greatly. Their MTBF is more than 30,000 power-on hours, and no preventive maintenance is required.





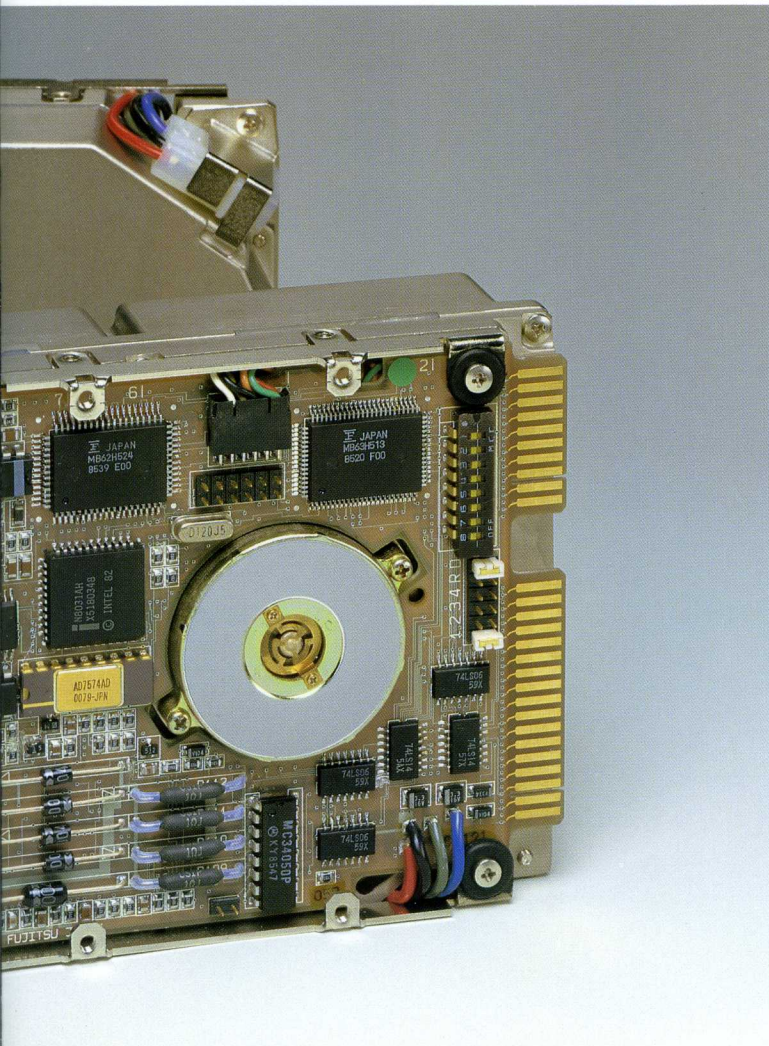
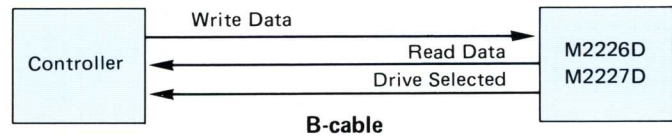
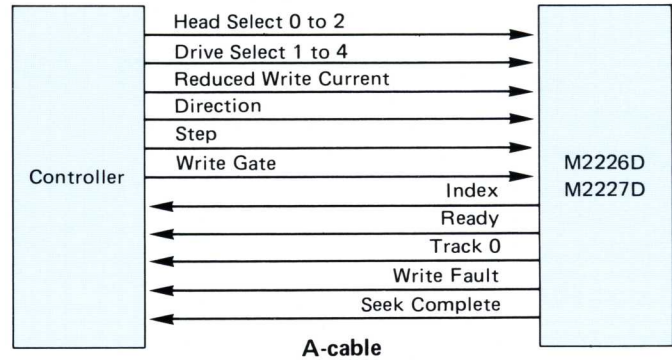
## Internationally compatible

The M2226D and M2227D are available with industry standard ST506/412 interface. They also use low-voltage DC power of +12V and +5V, permitting international applications.

## SCSI controller (optional)

The M1055B, Fujitsu's SCSI card controller is available for use with these disk drives.

## ST506/412 interface





## FUNCTIONAL SPECIFICATIONS

		M2226D	M2227D
Storage capacity	Unformatted	38.43 megabytes	51.24 megabytes
	Formatted	30.22 megabytes	40.30 megabytes
Disks (3.5-inch)		3	4
Heads (read/write)		6	8
Track capacity	Unformatted	10,416 bytes	
	Formatted	8,192 bytes	
Tracks per cylinder		6	8
Cylinders		615	
Sectors		32	
Positioning time (including settling time)	Track-to-track	8 milliseconds	
	Average	Less than 45 milliseconds	
	Maximum	85 milliseconds	
Average latency time		8.3 milliseconds	
Rotational speed		3,600 rotations/minute	
Recording density		14,845 bits/inch	
Track density		834 tracks/inch	
Data transfer rate		625 kilobytes/second	
Recording code		MFM	
Interface		ST506/412	
Start time		Less than 15 seconds	
Stop time		Less than 25 seconds	

## PHYSICAL SPECIFICATIONS

		M2226D, M2227D
Power requirements		12VDC±5%, 0.9A (max. 2.3A) 5VDC±5%, 0.6A
Dimensions	Height	41.3 mm (1.625 in)
	Width	101.6 mm (4.0 in)
	Depth	146 mm (5.75 in)
Weight		1.0 kg (2.2 lb)
Ambient temperature	Operating	5°C to 45°C ( 41°F to 113°F)
	Not operating	-40°C to 60°C (-40°F to 140°F)
	Gradient	Less than 15°C (27°F)/hour
Relative humidity	Operating	20% to 80%, no condensing
	Not operating	5% to 95%, no condensing
Vibration	Operating	Max. 0.2G (3Hz to 60Hz)
	Not operating	Max. 0.4G (3Hz to 60Hz)
Shock resistance	Operating	Max. 3G (max. 10 ms)
	Not operating	Max. 20G (max. 10 ms)
Altitude	Operating	3,000 m (10,000 ft)
	Not operating	12,000 m (40,000 ft)

## RELIABILITY SPECIFICATIONS

		M2226D, M2227D
Mean-time-between-failures (MTBF)		More than 30,000 power-on hours
Mean-time-to-repair (MTTR)		Less than 30 minutes
Component life		5 years
Error rates	Recoverable errors	10 per 10 <sup>11</sup> bits read
	Unrecoverable errors	10 per 10 <sup>13</sup> bits read
	Seek errors	10 per 10 <sup>7</sup> seeks

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

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