

FUJITSU

Quality OEM Products

3.5-inch disk drives

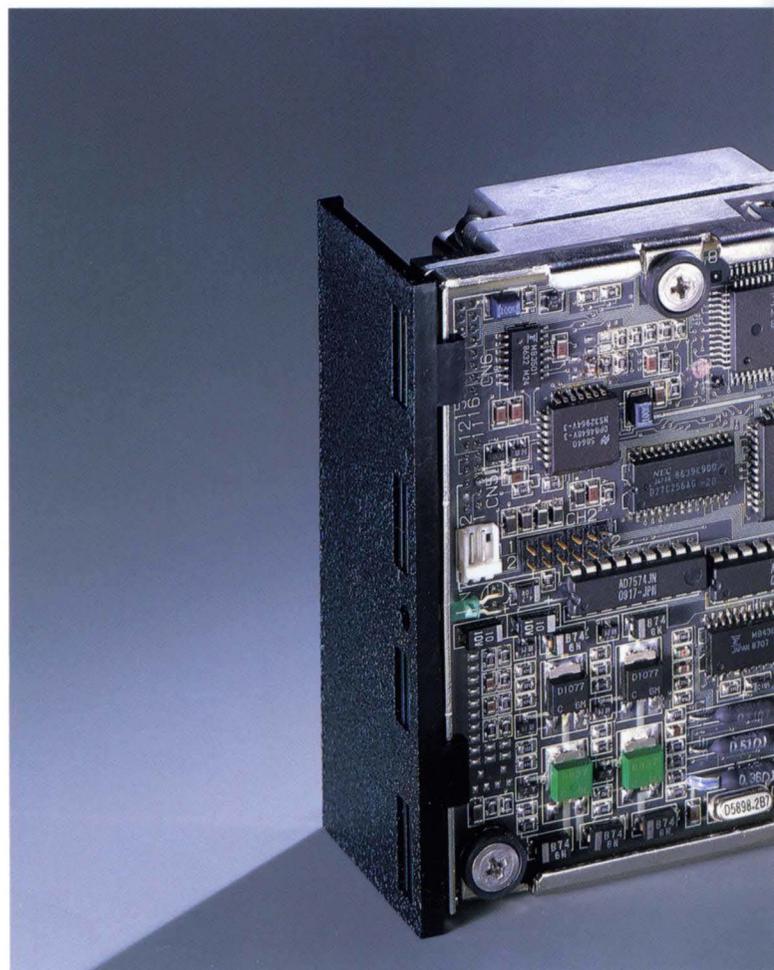
M2225DR
M2226DR
M2227DR



Fujitsu M2225DR, M2226DR and M2227DR 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 M2225DR, M2226DR and M2227DR have triple the capacity of conventional 3.5-inch disk drives by using RLL (2/7) code. The M2225DR offers 38.43 megabytes of unformatted storage, the M2226DR 57.65 megabytes and the M2227DR 76.86 megabytes. They have the fastest access time: less than 35 milliseconds average, including settling time. They transfer data at 937.5 kilobytes per second.



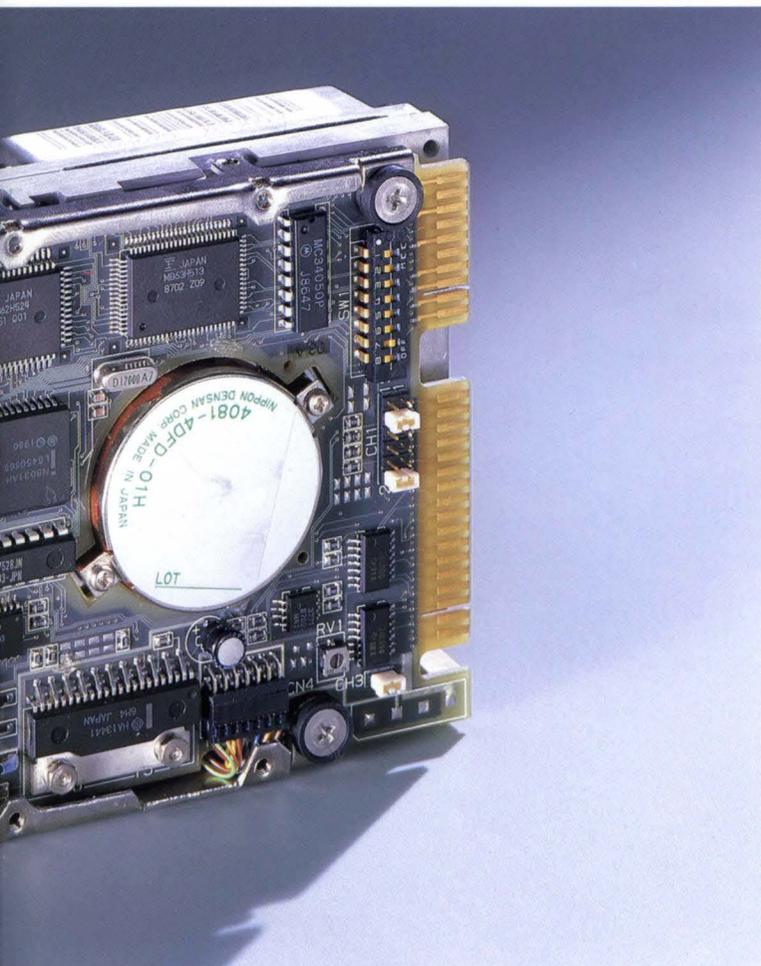
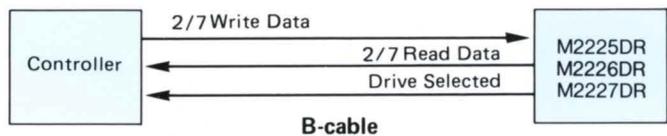
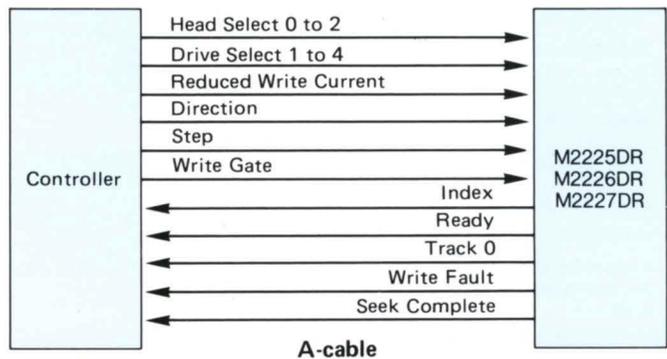
Compact, reliable

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 an encoder 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 M2225DR, M2226DR and M2227DR are available with industry standard ST506R/412R interface. They also use low-voltage DC power of +12V and +5V, permitting international applications.

ST506R/412R interface



FUNCTIONAL SPECIFICATIONS

		M2225DR	M2226DR	M2227DR
Storage capacity	Unformatted	38.43 megabytes	57.65 megabytes	76.86 megabytes
	Formatted (*)	32.74 megabytes	49.12 megabytes	65.49 megabytes
Disks (3.5-inch)		2	3	4
Heads (read/write)		4	6	8
Track capacity	Unformatted	15,624 bytes		
	Formatted (*)	13,312 bytes		
Tracks per cylinder		4	6	8
Cylinders		615		
Positioning time (including settling time)	Track-to-track	8 milliseconds		
	Average	Less than 35 milliseconds		
	Maximum	75 milliseconds		
Average latency time		8.3 milliseconds		
Rotational speed		3,600 rotations/minute		
Data transfer rate		937.5 kilobytes/second		
Recording code		RLL (² / ₇)		
Interface		ST506R/412R		
Start time		Less than 15 seconds		
Stop time		Less than 25 seconds		

(*) 512 bytes/sector for 26 sectors/track

PHYSICAL SPECIFICATIONS

		M2225DR, M2226DR, M2227DR
Power requirements		12VDC±5%, 0.45A (max. 2.0A) 5VDC±5%, 0.42A
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. 40G (max. 10 ms)
Altitude	Operating	3,000 m (10,000 ft)
	Not operating	12,000 m(40,000 ft)

RELIABILITY SPECIFICATIONS

		M2225DR, M2226DR, M2227DR
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 ¹¹ bits read
	Unrecoverable errors	10 per 10 ¹³ bits read
	Seek errors	10 per 10 ⁷ seeks

Specifications are subject to change without notice. For the latest information, contact your local Fujitsu representative.
First edition, October 1987

North American contact:
FUJITSU AMERICA INC.
3055 Orchard Drive, San Jose,
CA 95134-2017, USA
Phone: (1-408)432-1300
Telex: 176207 TWX: (910)338-2193

FUJITSU CANADA INC.
6280 Northwest Drive, Mississauga,
Ontario L4V 1J7, Canada
Phone: (1-416)673-8666
Telex: 968132

European contact:
FUJITSU EUROPE LTD.
2, Longwalk Road, Stockley Park,
Uxbridge, Middlesex UB11 1AB,
England Phone: (44-1)573-4444
Telex: 263871

FUJITSU DEUTSCHLAND GmbH.
Rosenheimer Straße 145, D-8000,
München 80, F.R. Germany
Phone: (49-89)413010
Telex: 897106

FUJITSU ITALIA S.p.A.
Via Melchiorre Gioia, 8, 20124
Milano, Italy
Phone: (39-2)657-2741
Telex: 350142

FUJITSU NORDIC AB
Torggatan 8, S-171 54
Solna, Sweden
Phone: (46-8) 764-7690
Telex: 13411

Australasian contact:
FUJITSU AUSTRALIA LTD.
41 McLaren St., North Sydney,
N.S.W. 2060, Australia
Phone: (61-2)959-6555 Telex: 25233

Hong Kong contact:
FUJITSU HONG KONG LTD.
R.M. 1831, Sun Hung Kai Centre,
30 Harbour Road, Hong Kong
Phone: (852-5)8915780
Telex: 62667

FUJITSU LIMITED
Communications and Electronics

6-1, Marunouchi 1-chome, Chiyoda-ku, Tokyo 100, Japan
Phone: National (03) 216-3211 International (Int'l Prefix) 81-3-216-3211
Telex: J22833 Cable: "FUJITSULIMITED TOKYO"

©1987 FUJITSU LIMITED
Printed in Japan
OL1033-87XS