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FUJITSU

Fujitsu Quality Storage Products

3.5-inch magnetic disk drive
M2694S/H



3.5-inch hard d

M2694

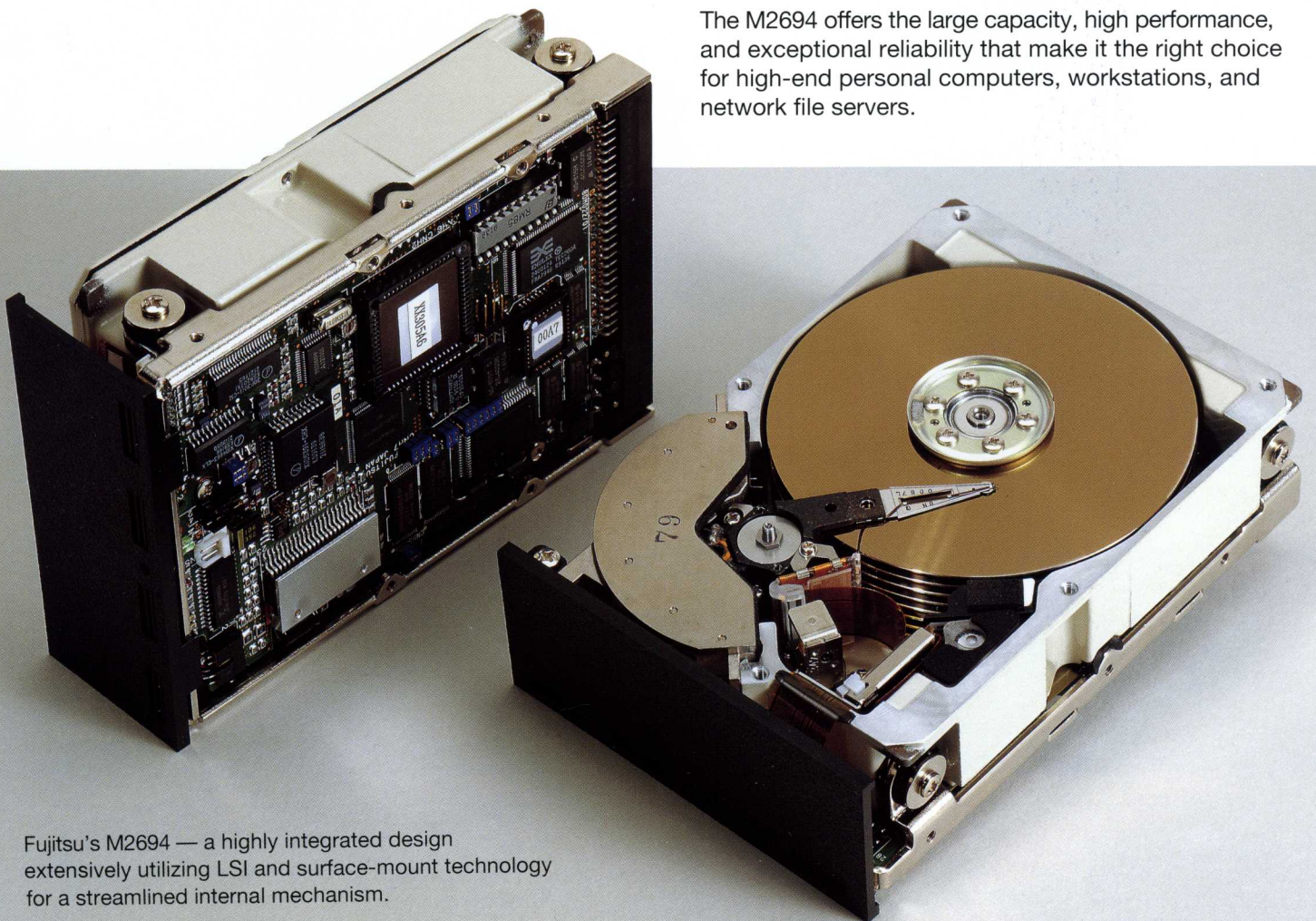
The pursuit of higher storage capacity and faster speed has resulted in one of the industry's foremost 3.5-inch disk drives — the Fujitsu M2694. Featuring 1.08 gigabytes of formatted storage capacity (512 bytes per block), the M2694 delivers a remarkably fast 10 millisecond average positioning time and 10 megabytes per second data transfer rate on the SCSI bus (synchronous).

The M2694 provides fast positioning time — 2.5 milliseconds track-to-track, 10 milliseconds average, and 22 milliseconds maximum, including settling time. The M2694's fast positioning time is due to its streamlined internal mechanism, attaining minimum access time to data. The M2694 has a programmable 256 kilobyte multi-segmented buffer which enables the drive to achieve a maximum transfer rate of 10 megabytes per second and optimize performance.

The M2694 disk drive is built to the highest reliability standards and carries a 300,000 power-on hour mean time between failures (MTBF) rating. This means long-term savings in maintenance and increased productivity for your business.

The M2694's S, SA, and SB models each have an embedded single-ended fast SCSI-2 controller, while the H, HA, and HB models each have a differential fast SCSI-2 controller.

The M2694 offers the large capacity, high performance, and exceptional reliability that make it the right choice for high-end personal computers, workstations, and network file servers.



Fujitsu's M2694 — a highly integrated design extensively utilizing LSI and surface-mount technology for a streamlined internal mechanism.

FUNCTIONAL SPECIFICATIONS

Model		M2694S/H
Storage capacity (Formatted) ²		1,082.59 MB
Disks (3.5-inch)		8
Heads (Read/write) ¹		15
Track capacity (Formatted) ²		29,696 – 49,152 bytes (8 zones)
Tracks per cylinder ¹		15
Cylinders ¹		1,818 + 12 (SA) +1 (CE) +1 (ALT)
Sectors per track		58/64/69/75/80/85/91/96
Positioning time (Including settling time)	Track-to-track	2.5 ms
	Average	10 ms
	Maximum	22 ms
Average latency time		6.82 ms
Rotational speed		4,400 rpm
Data transfer rate	To/from media	2.54 – 4.17 MB/s
	To/from host	10 MB/s (synchronous) max./4 MB/s (asynchronous) max.
Recording code		RLL (1/7)
Interface		S type: Single-ended SCSI-2/H type: Differential SCSI-2
Start time		≤ 15 seconds
Stop time		≤ 30 seconds

¹ Typical sparing ² 512 B/block

PHYSICAL SPECIFICATIONS

Model		M2694S/H
Power requirements	+5VDC±5%	1.1A (Typ)
	+12VDC±5%	0.5A (Typ), 2.0A (Typ)
Dimensions	Height	41.3 mm (1.6 in.)
	Width	101.6 mm (4.0 in.)
	Depth	146 mm (5.7 in.)
Weight		1.2 kg (2.6 lbs.)
Ambient temperature	Operating	5°C to 45°C (41°F to 113°F)
	Non-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% RH (non-condensing)
	Non-operating	5% to 90% RH (non-condensing)
Vibration	Operating	Max. 1.0G (5Hz to 250Hz)
	Non-operating	Max. 5.0G (5Hz to 250Hz)
Shock resistance	Operating	Max. 5G (10 ms)
	Non-operating	Max. 50G (10 ms)
Altitude	Operating	3,000 m (10,000 ft.)
	Non-operating	12,000 m (40,000 ft.)
Acoustic noise		43dB (A) at 1 m (3.3 ft.)

RELIABILITY SPECIFICATIONS

Model		M2694S/H
Mean time between failures (MTBF)		300,000 power-on hours
Mean time to repair (MTTR)		Less than 30 minutes
Component life		5 years
Error rates	Unrecoverable errors	≤ 10 per 10 ¹⁵ 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, March 1992

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Printed in Japan
BS0012-1S