

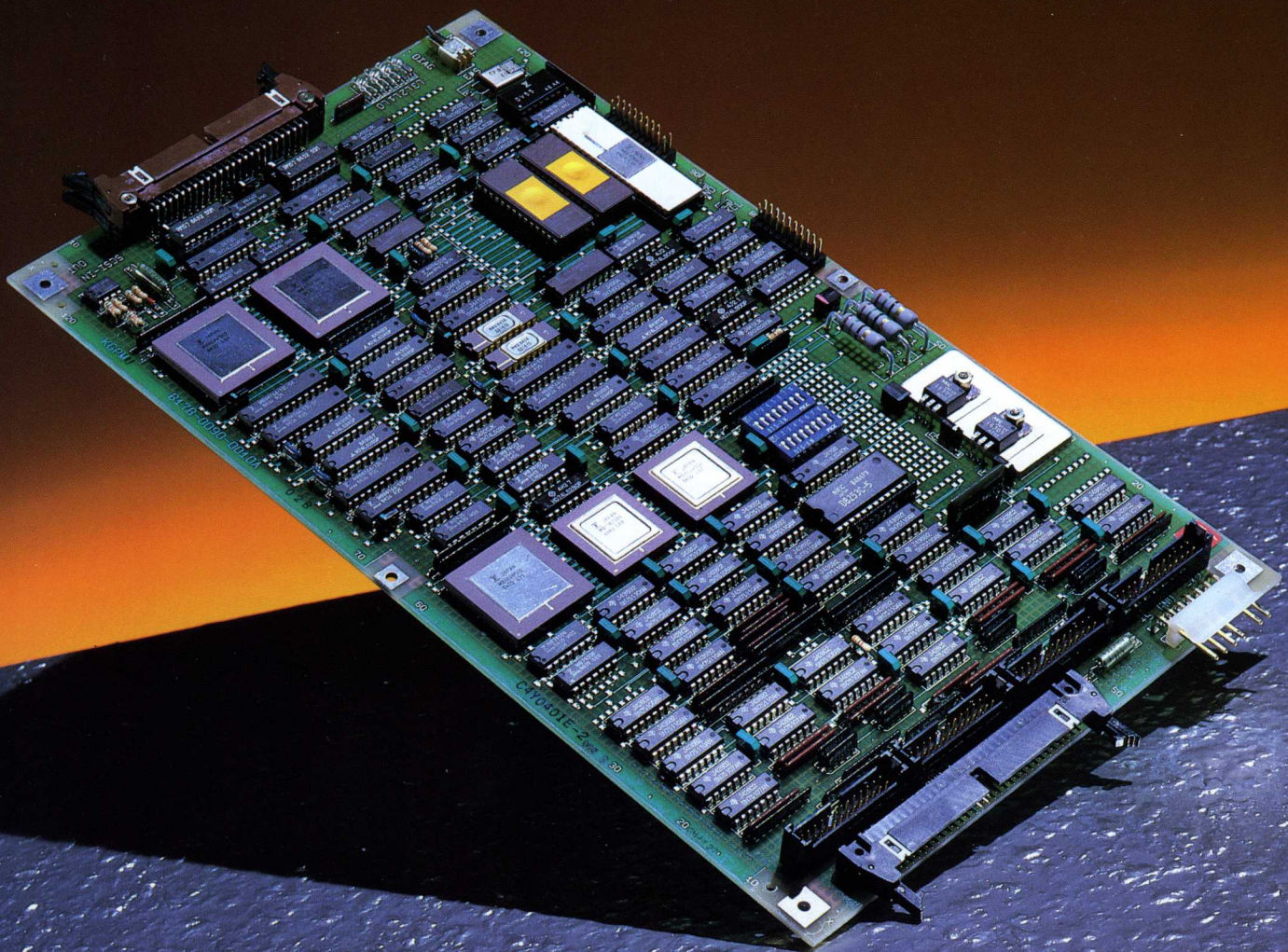
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OEM DISK CONTROLLER

M1053A

*A high performance SCSI disk controller
for Fujitsu's 8-inch Winchester-type disk drives*



SCSI host interface

The M1053A has full compatibility with SCSI specifications. Through its single-ended bus lines, the M1053A transfers data to and from the host computer at up to 2.458 megabytes per second (MB/s) in the synchronous mode or at up to 1.5 MB/s in the asynchronous mode. Disconnection and reconnection functions permit concurrent command executions on multiple disk drives and controllers.

SMD drive interface

The M1053A provides an SMD interface for drives. It can control up to four drives. For mounting the M1053A on the drive, an optional M1053A11 controller mounting frame is available.

Dual sector buffers

The M1053A provides dual sector buffers, each connected with both the host bus and the drive data bus, speeding data handling. Logical block addressing and multiple-block read/write features greatly increase block handling efficiency.

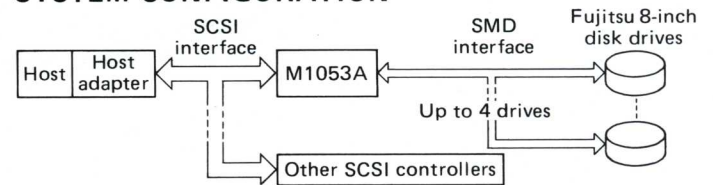
Advanced functions

Automatic seeking, rotational position sensing (RPS), and verification as well as automatic head and cylinder switching assure fast and accurate operations. The seek operation and RPS overlap, further increasing total system throughput. For programmable sector interleaving and dual sector buffers, the transfer rate can be set flexibly, enabling adjustment to meet a wide variety of host system requirements. Volume formatting and defect/alternate sector assignment are all automated.

New high reliability

With extensive use of advanced LSI technology, the controller is not only high performance, compact, and low cost, but it also assures superb reliability. Also, erroneous operations are retried, data errors are detected and corrected, and defective sectors are quickly switched to their alternate sectors. With these features, the M1053A's reliability is unsurpassed.

SYSTEM CONFIGURATION



SPECIFICATIONS

		M1053A
Host interface		SCSI, with single-ended option
Data transfer rate		Max. 2.458 MB/s (synchronous mode) Max. 1.5 MB/s (asynchronous mode)
Cable length		Max. 7 m
Drive interface		SMD
Data transfer rate		Max. 2.458 MB/s
Cable length		Max. 15 m (A-cable, B-cable)
Drives controllable		Max. 4 drives
M2331KS		Block size: 256/512/1,024 bytes User area: 119/135/143MB
M2333KS		Block size: 256/512/1,024 bytes User area: 246/277/294MB
Commands	Group 0	Rezero Unit, Request Sense, Request Log, Test Unit Ready, Format Unit, Read Defect List, Reassign Blocks, Read, Write, Seek, No Operation, Set File Mask, Inquiry, Read Device Characteristics, Priority Reserve, Reserve Unit, Release Unit, Copy, Receive Diagnostic Results, Send Diagnostic
	Group 1	Read Capacity, Read Extended, Write Extended, Verify, Write & Verify, Search Data High, Equal, Low, Set Limits
	Group 6	Diagnostic Write Data, Diagnostic Read Data, Format ID, Space ID and Read Data, Displaced ID, Read ID, Diagnostic Format ID, Diagnostic Read ID
Features		Dual Sector Buffers, Logical Block Addressing, Multiple Blocks Read/Write, Automatic Seek, Automatic RPS, Automatic Verify, Automatic Head/Cylinder Switching, Overlapped Seek/RPS, Internal Retry, Automatic DEF/ALT Sector Assignment, Automatic Volume Formatting, Programmable Sector Interleaving, Unit Reserve/Release
MTBF		150,000 power-on hours
Power		+5VDC ± 5%, max. 5.0A -12VDC ± 5%, max. 1.0A
Dimensions (H x W x D)		21 mm x 330 mm x 196 mm (0.8 in x 13.0 in x 7.7 in)
Ambient requirements		
Operating		5°C to 40°C (41°F to 104°F), 20% to 80%RH
Not operating		-10°C to 60°C (14°F to 140°F), 5% to 95%RH

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

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