SERIES 39

FDS20G Data Module
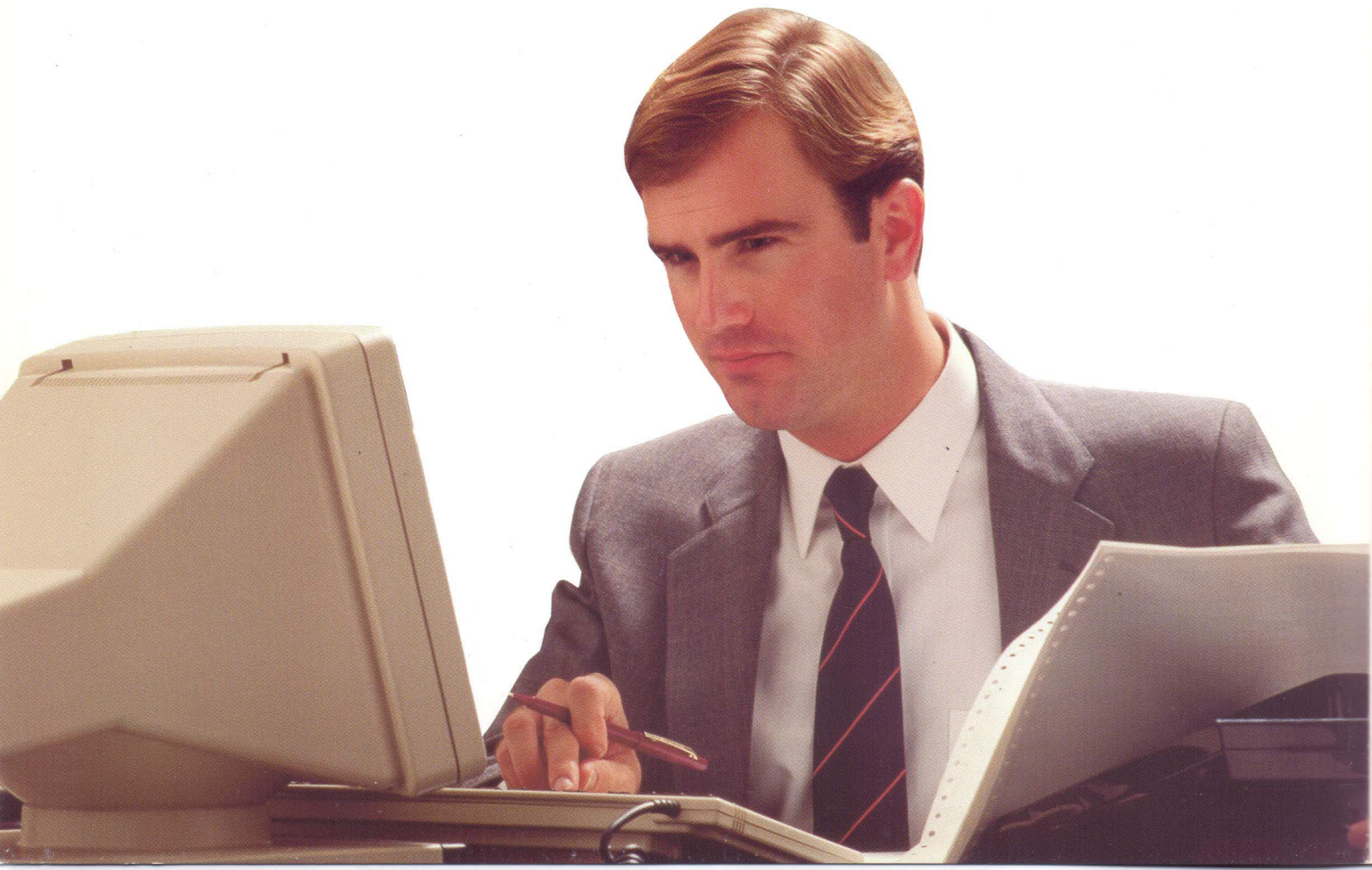
iCL

Storage Systems

SERIES 39

The FDS20G Data Module
is a high capacity disc system
providing low cost disc storage
in a very small footprint.
Up to 20 gigabytes of storage,
a Macrolan controller and
optional CAFS-ISP unit are
offered within a single
compact cabinet.

FDS20G *Data Module*

Footprint

FDS20G provides a significantly smaller footprint than existing disc configurations. It has been possible to achieve up to a nine fold improvements over equivalent FDS5000 configurations, or an eighteen fold improvement over FDS2500. This has been achieved through the compact design, and the ability to place FDS20G Data Modules back-to-back, greatly reducing the amount of service clearance required.

Reliability/Availability

System reliability and availability are of paramount importance to corporate systems customers. The drives integrated within the FDS20G are selected for their high reliability and diagnostic features.

In addition, FDS20G has a "Hot Pull" capability allowing drives to be inserted or extracted from the Module while other drives continue to be accessed. The ability to off-line only a proportion of filestore is crucial to maintain high availability.

Performance

In terms of performance, the FDS20G Data Module achieves more accesses per second than any previous disc system. The average access time (seek + latency) for the FDS20G is 20 milliseconds, compared to 25 milliseconds for FDS5000.
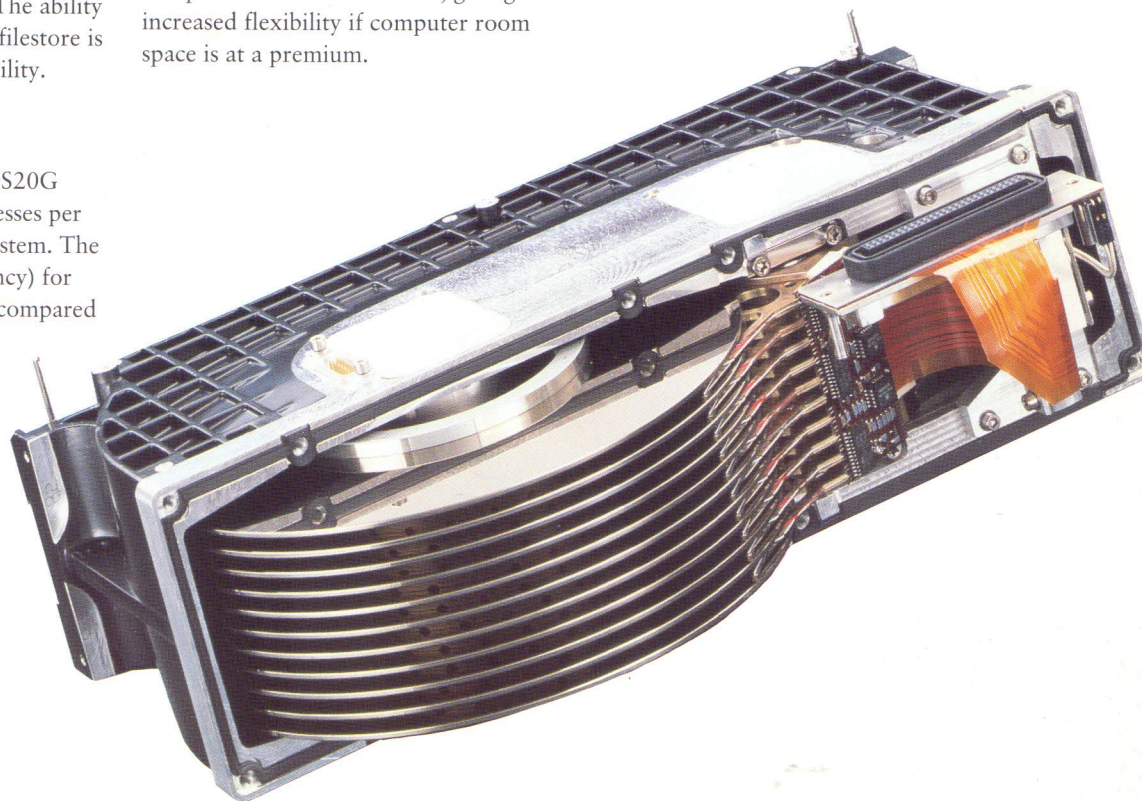
FDS20G Data Modules are available with either 2, 4, 6 or 8 disc drives, providing 5, 10, 15 or 20 gigabytes of on-line storage. Modules are easily upgraded on site to a maximum of 20 gigabytes.

Each Module contains the FDS20G disc controller, power supplies and all necessary cabling to enable on site capacity upgrades.

It is recommended that FDS20G Modules are configured in pairs. This allows the controllers to be dual-accessed, providing enhanced resilience.

The FDS20G CAFS-ISP unit is offered as an option on each Module. It incorporates the latest VLSI technology which delivers a much smaller unit with enhanced levels of reliability and data integrity when compared with previous CAFS-ISP technology.

FDS20G can also operate in a non-computer room environment, giving increased flexibility if computer room space is at a premium.

SERIES 39 *FDS20G Data Module*

General Characteristics

Product

Data Rate	3 megabytes/second nominal
Disc drive capacity	2.5 gigabytes max (unformatted)
	2.32 gigabytes max (formatted)
Number of heads per cylinder	19
Number of cylinders	2611
Number of disc controllers per cabinet	1
Maximum number of drives per controller	16
Number of drives per cabinet	2, 4, 6 or 8
Number of CAFS units per cabinet	1
Maximum sustained CAFS search speed	2.499 megabytes/second
Maximum number of disc drives per string	8

Dimensions

Height (mm)	1441	
Width (mm)	705	
Depth (mm)	805	
Service Clearance (mm)	300 rear, 1000 front	
Weight (Kg)	4 drives	8 drives
	440	540

Power Requirements

Power Required (FVA)	1.18
Type of Supply	Single Phase
Voltage Range (V)	220-240
Frequency (Hz)	50 (-2%+1%)
Line Current (Amps)	8.02

Environment

Noise Level (dB)	4 discs	8 discs
	66	68
Heat Output (KW)	3753	
Temperature Range (°C)	10-40	
Humidity (%)	20 - 80	

For Further Information Contact

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