



PRODUCT DESCRIPTION

The IBM 3375 disk storage facility is a direct access storage device providing fast access, large capacity, high data rate, and low data storage.

The storage media is a non-removable, dual actuator sealed Head Disk Assembly (HDA). The HDA is a fixed unit containing disks, heads and two carriage assemblies. The two access mechanisms work independently.

The operation mode is Count Key Data (CKD) architecture, providing variable length data capabilities. The Read Only Switch is a standard data security feature on both models.

Rotational Position Sensing (RPS) enables the drive to align with a specified record position. The channel is disconnected during most of the record search time.

There are CE tracks on each data surface for test purposes. The HDA is field replaceable by the CE only.

The 3375 subsystem uses the "A" and "B" box concept.

One string consists of one "A" box and a maximum of three "B" boxes to form a subsystem with eight addressable actuators.

The 3375 is designed for channel attachment via the 3880 Storage Control.

Two 3375 models are available:

- Model A1: Dual actuator drive unit with the controller
- Model B1: Dual actuator drive

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General Characteristics

<input type="checkbox"/>	Access time (average)	19 ms	<input type="checkbox"/>
<input type="checkbox"/>	Data Rate	1.86 MB/s	<input type="checkbox"/>
<input type="checkbox"/>	Capacity/Actuator	409.8 MB	<input type="checkbox"/>
<input type="checkbox"/>	Capacity/Spindle	819.7 MB	<input type="checkbox"/>
<input type="checkbox"/>	Capacity/Subsystem (8 addresses)	3278.8 MB	<input type="checkbox"/>

Optional Features

String switch — enables the sharing of a 3375 subsystem between two separate control units.

Programming Support

All programming support for the 3375 must use the S/370 Count Key Data (CKD) command set. The 3375 will be supported by the following programming systems:
DOS/VSE, OS/VS1, VM/370, MVS

Maintainability/Serviceability

Problem Determination/Isolation facilities:

- Maintenance Device (MD)

The MD is a portable onsite tool used as the CE's interface to the 3375. It combines the functions of a CE panel and MAP package. The MD includes a microprocessor, diskette loading device and hand held keyboard display.

The soft copy MAP functions are performed by the MD. The customized diskette is EC controlled and is shipped with each Model A1.

- Microprogrammed Maintenance Analysis Procedures (Soft copy MAPs)

The MAPs provide:

- Automatic execution of in-line microdiagnostics for recreation of failures or machine check-out.
- High speed analysis of symptom codes provided by console messages and error logs for FRU isolation on intermittents.

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- Status and Sense byte information (Fault Symptom Code)
- Environmental Recording, Edit and Print (EREP 1)
- EREP 1 Analysis
An enhancement to EREP 1 which provides additional input to the MAPs based on analysis of EREP 1 summary data.
- Device Support Facility (DSF)
- In-line Tests (Microdiagnostics)
- Software-Error Recovery/Retry
- High Speed error correction
- Head offset for data check recovery
- Visual power status indicators
- Separate controller logic and power
- Maintenance Information Manual (MIM)
- Functional Logic Diagrams (FLD support level documentation)
- Retain Data Bank Search

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