

DATAPoint CARTRIDGE DISKS



(9360 Series Shown)

DATAPoint CARTRIDGE DISKS

Datapoint's cartridge disk system (9367/9368) is a random-access storage device whose compact size and reliability make it eminently well-suited for use with the Datapoint processing installations requiring medium size data storage.

The 9367/9368 system incorporates two disks, one fixed and one removable. This convenient arrangement means that the user can maintain operating software on the fixed disk without worrying about accidental removal or misplacement, while implementing other programs or storing data on the removable disk. These two disks provide up to 5 Megabytes of storage in one small housing. Extensions are available which provide up to 10 Megabytes of storage. A maximum of two drives may be operated from one controller on the 9367/9368.

Advanced electronic and mechanical design produce a disk system that is exceptionally fast and reliable. The disk spindle and drive motor are combined into a single assembly, eliminating the need for pulleys and drive belts. Final head positioning is implemented through an electronic system, reducing the potential for erroneous tracking. A highly efficient air-cleaning system in the 9367/9368 constantly sweeps the disks and heads clean of foreign material.

Error detection is accomplished in the controller by means of a polynomial cyclic redundancy character check (CRCC) between the controller and the disk drive.

The system is available either as a console-mounted memory device or as a freestanding unit. It is included as standard equipment in the DATASHARE 4220 and 4520 systems.

Datapoint also offers cartridge disk storage in single-disk drives, (9350 series) providing 2.5 Megabytes of storage per disk. These disk systems come with a 1K controller buffer; a 4K controller buffer is optional. The disk cartridge used is the Datapoint 80362 (or equivalent).

Functional Characteristics

Capacity:

Surfaces: 4
Tracks/Surface: 203
Sectors/Track: 24
Bytes/Sector: 256
Bytes/Disk (8 bits): 2,494,464

Bit Density:

2200 BPI

Track Density:

100 TPI

Buffer memory size:

4,096 characters

Bit Transfer Rate (to buffer):

1562 KHz

Disk Cartridge:

Datapoint 80362 or equivalent

Disk Timing:

Rotation Speed: 1500 rpm

Average Seek Time: 20 milliseconds

Head Positioning:

Track-to-Track: 15 milliseconds

Average: 70 milliseconds

Interconnection:

Connects directly to any Datapoint processor

Physical Characteristics

Equipment Dimensions:

Console

Width: 53 in. (134.6 cm)
Height: 28 in. (71.1 cm)
Depth: 27 in. (68.5 cm)
Weight: 230 lbs. (105 kg)

Freestanding

Width: 36 in. (91.4 cm)
Height: 28 in. (71.1 cm)
Depth: 27 in. (68.5 cm)
Weight: 200 lbs. (91 kg)

Extension

Width: 36 in. (91.4 cm)
Height: 28 in. (71.1 cm)
Depth: 27 in. (68.5 cm)
Weight: 200 lbs. (91 kg)

Power Requirements:

115 VAC 50 or 60 Hz
(230 VAC, 50 or 60 Hz optional)

Environment:

55 to 80 degrees F
(13 to 27 degrees C)
40 to 70% relative humidity, non-condensing

Model Codes

9367 Front Loading 5 Megabyte Disk
System Console 115 VAC, 50 or 60 Hz
9368 Front Loading 5 Megabyte Disk
System Freestanding
9369 Front Loading 5 Megabyte Disk
Extension
9363 230 VAC, 50 or 60 Hz Power Option

The 9350 Series of Disk Drives uses a single-disk drive mechanism and has slightly different specifications which are not indicated, but can be obtained upon request.

Model Codes

9350 Front Loading 2.5 Megabyte Cartridge
Disk, 115 VAC, 50 or 60 Hz
9352 Front Loading Dual 2.5 Megabyte
Cartridge Disk
9354 Front Loading Dual 2.5 Megabyte
Cartridge Disk Extension (No
Controller)
9355 Front Loading Dual 2.5 Megabyte
Cartridge Disk extensions (No
Controller)
9363 Power Option, 230 VAC, 50 or 60 Hz