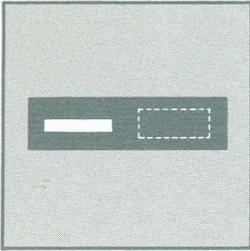




Datapoint 20MB Disk and 20MB Tape Drive



The Datapoint® 9301 20MB Disk and 20MB Tape Drive provides 20 Megabytes of direct access data storage for Datapoint's 8600 series processors. The 9301 consists of a 20MB disk drive, a 20 MB cartridge tape drive, an intelligent controller, and a power supply housed in an attractive desk-top cabinet.

The disk controller provides all data management and control functions. Designed for operator convenience, the sophisticated integral controller transfers information from disk to tape or tape to disk automatically, without operator or processor intervention. The controller can back-up an entire 20 MB disk in less than 15 minutes. This simple and fast back-up method allows the full capacity of the disk to be used for data storage as well as providing even further data protection from hardware, software, or operator error.

Integrated into the 9301 is an advanced tape drive capable of storing over 20 Megabytes of data on a convenient removable tape cartridge. The tape cartridge can be used for system back-up or for transporting data from one system to another. The tape head, often a component that wears out in other tape drives, is made of a tough, durable ceramic that does not require replacement under normal use. A Datapoint developed alignment technique precisely aligns the tape recording head to each tape cartridge, allowing the tape to be interchanged between drives.

The disk storage unit in the 9301 uses a fixed thin-film disk for high density recording. The disk is coated with a unique film to protect stored information from mechanical damage. In addition, data integrity is assured by a powerful error correction code that both recognizes and corrects hardware errors, allowing disk operation to continue undisturbed.

As processing and storage needs grow, up to four 20MB extension disk drives may be added to the 9301 for up to 100 Megabytes of storage capacity. The 9302 is available with two 20MB drives for an additional 40 Megabytes of on-line storage. The 9303 contains only one 20MB disk in a desk-top cabinet with space available for expansion. The 9304 provides a 20MB extension upgrade kit for the 9303 cabinet.

Each extension disk drive requires the installation of one logic card in the 9301 controller card cage. When additional disk drives are added to the 9301, the controller interfaces with each of the drives independently as if each drive resided in the 9301 cabinet. Because of its compact design a 100MB disk system plus tape back-up will easily fit on a table top.

Functional Characteristics

Disk Capacity (formatted):

Tracks/Cylinder	6
Sectors/Track	24
Bytes/Sector	256
Bytes/Track	6144
Bytes/Drive	20.24 Megabytes

Disk Type fixed

Disk Timing:

Bit Transfer Rate	5.802 Mbps
Rotation:	
Average Speed	5520 RPM
Average Delay	5.435 msec
Head Positioning:	
Average	75 msec
Track to Track	15 msec
Maximum	100msec
Drive Start Time	20 seconds (maximum)

Tape Capacity:

Recording Density	5208 BPI
Bytes/Record	6144
Number of Tracks	9
Bytes/Tape	20.24MB (minimum)

Tape Timing:

Bit Transfer Rate	312.5 kilo bits/second
Tape Speed	60 inches/second

Physical Characteristics

9301 Cabinet	
Width	21.9 inches (55.6 cm)
Depth	24.0 inches (61 cm)
Height	7.5 inches (19.1 cm)
Weight	75 pounds (28 kg)

Power Requirements:

115 or 230 VAC, 50 or 60 Hz

Environment:

50 to 100 degrees F
(10 to 38 degrees C)
20 to 90% relative humidity, non-condensing

Model Codes:

9301 20MB Disk and 20MB Tape Drive
9302 40MB Extension Disk
9303 20MB Extension Disk
9304 20MB Extension Upgrade Kit