

DIGITAL EQUIPMENT CORPORATION

decsystem10

OPTION BULLETIN

DISK SYSTEMS



digital

SYSTEM FEATURES

Fast Access

1.966 x 10⁹ characters on-line storage

Up to 4 controllers per system

Up to 8 Drives per Controller

Intermixing of Drives

Interchangeable Disk Packs

Overlapped Positioning with Multiple Drives

High Transfer Rate

Latency Minimization Sector Counters

Swapping Capability

DECsystem-10 Disk Systems offer rapid access on-line storage in large capacities at low cost. Modularly expandable, a system allows up to 4 controllers each with 8 drives, giving a total capacity of 327,680,000 words, or in excess of 1,966 million characters.

The RP10C Disk Controller operates with any combination of two Disk Drives, the RP02 and RP03, with storage capacities of 5,120,000 and 10,240,000 36-bit words per pack, respectively. Thus a system using eight RP02 Drives provides a total on-line capacity of 41,574,400 words, and eight RP03 Drives, 83,148,800 words. In addition to storage, a Disk System can be used to swap programs in and out of core memory.

RP10 DISK DRIVE CONTROLLER

The RP10C Disk Drive Controller provides control for as many as eight Disk Drives: RP02, RP03, or a combination of RP02's and RP03's. Through the DF10 Data Channel, both drives transfer data directly to and from memory.

Since the controller provides overlapped positioner operation, the operating system (monitor) will simultaneously position two or more Disk Drives, shortening the effective access time and increasing throughput. In addition, the monitor uses the controller's sector counters to minimize the effect of rotational latency and further increase throughput.

CONTROLLER SPECIFICATIONS

AC Voltage	115 V $\pm$ 10%, 60 Hz $\pm$ 2 Hz 230 V $\pm$ 10%, 50 Hz $\pm$ 2 Hz
Current	8 A @ 115 V
Power Dissipation	900 Watts
Heat Dissipation	3100 Btu/Hr
Operating Temperature	60° F to 95° F (16° C to 35° C)
Relative Humidity	20% to 80%
Height	69 inches (176 cm)
Width	21.25 inches (53.9 cm)
Depth	27 inches (68.6 cm)
Weight	390 lbs (178 kg)

DISK DRIVES

DECsystem-10 Disk Drives provide fast access. The RP02's and RP03's transfer up to 25,600 words in a single access at a rate of 15 μ sec per 36-bit word.

Access speed is due to a high speed head positioner design which uses a servo-controlled linear motor to convert electrical energy directly into linear motion. A dynamic disk brake facilitates operation by reducing Disk Pack replacement time.

Each Disk Drive includes one removable Disk Pack, RP02P for the RP02 and RP03P for the RP03.

DRIVE SPECIFICATIONS

	RP03	RP02
DISK PACK CAPACITY	10,240,000 36-bit words	5,120,000 36-bit words
DATA TRANSFER RATE	66,666 words (15 μ s/word)	66,666 words (15 μ s/word)
ACCESS TIME*		
Track-to-Track:	7 ms	12 ms
Average:	29 ms	35 ms
Maximum:	55 ms	60 ms
ROTATIONAL SPEED	2400 rpm	2400 rpm
ORGANIZATION	128 words/sector 10 sectors/track 20 tracks/cylinder 400 cylinders/disk pack	128 words/sector 10 sectors/track 20 tracks/cylinder 200 cylinders/disk pack
NUMBER OF HEADS	20	20
NUMBER OF RECORDING SURFACES	20	20
NUMBER OF DISKS	11	11
OPERATING ENVIRONMENT		
Operating Temperature Range	60° F to 90° F (16° C to 32° C)	60° F to 90° F (16° C to 32° C)
Relative Humidity	10% to 80%	10% to 80%
POWER REQUIREMENTS	3-phase, 60 Hz: 6A/phase (running), 30A/phase (starting surge) 3-phase 50 Hz: 4.5A/phase (running), 25A (starting surge). Drive uses one phase; system uses 3-phase	3-phase, 60 Hz: 12A/phase (running), 25A/phase (starting surge) 3-phase 50 Hz: 4.5A/phase (running), 25A (starting surge) Drive uses one phase; system uses 3-phase
DIMENSIONS		
Width:	30 inches (76.2 cm)	30 inches (76.2 cm)
Depth:	24 inches (61.0 cm)	24 inches (61.0 cm)
Height:	40 inches (101.6 cm)	39 inches (99.0 cm)
WEIGHT	390 lbs. (177.3 kg)	395 lbs. (179 kg)

*Times do not include average rotational latency of 12.5 ms.

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