Personal Data Pac™

Tandon

The Personal Data Pac is the first removeable Winchester disk drive. A Personal Data Pac gives you 30 megabytes of data storage in a rugged, easy-to-carry, high-performance package.

Your complete work environment, even large databases and programs, can be removed and locked in your desk, passed to the department upstairs or slipped into your brief-case for a meeting across the country. With the Personal Data Pac, you can move your system without moving your computer.

Data Pac technology puts you in control of your storage options. It frees you from the constraints of a stationary computer, and allows you to:
• Maintain security of your proprietary database

• Allocate PC storage based on need rather than system limitations
• Easily move software applications between your office and remote sites in a rugged package
• Purchase less software, because licensed copies can be easily moved from PC to PC.

You can use Personal Data Pacs in Tandon's innovative AT-compatible, the PAC 286. You can also take advantage of Data Pac technology on your Tandon PCX, PCA, Targa or IBM-compatible system with our Ad-PAC—an easily installed add-on receptacle for Data Pacs.

The Personal Data Pac. Move your system, without moving your computer!

Specifications

Capacity
Unformatted
Megabytes per Drive: 38.44
Bytes per Cylinder: 62,500
Bytes per Track: 15,625

Formatted
Megabytes per Drive: 30.08
Bytes per Cylinder: 49,152
Bytes per Track: 12,288
Bytes per Sector: 512
Sectors per Track: 24

Physical Organization
Tracks: 2,448
Cylinders: 615
Read/Write Heads: 4
Disks: 2

Functional Specifications
Rotational Speed: 3,600 rpm
Recording Method: Run-Length-Limited (2,7)
Recording Density: 20,608 BPI
Flux Density: 13,739 FCI
Track Density: 804 TPI
Data Transfer Rate: 7.5 Mbits per sec.

Access Time
Track to Track: 18 msec.
Average: 40 msec.
Maximum: 205 msec. (includes settling)
Average Latency: 8.46 msec.

Reliability
MTBF: 15,000 power-on hours
PM: None Required
MTTR: 30 minutes
Connector Life: 5 years minimum
System Connector Life: 10,000 plug/unplug cycles minimum

Error Rates
Recoverable Read Errors: 1 per 10^9 bits read
Nonrecoverable Read Errors: 1 per 10^{10} bits read
Seek Errors: 1 per 10^6 bits read

Operational Environment
Ambient Temperature: 4°C to 50°C (39°F to 122°F)
Temperature Gradient: 10°C/hour (18°F/hour)
Altitude: 0 to 1,850 meters (0 to 6,000 feet)
Shock: 10 g (Data Pac in receptacle)

Non-Operational Environment
Ambient Temperature: −40°C to 60°C (−40°F to 140°F)
Temperature Gradient: Below condensation
Altitude: 0 to 7,500 meters (0 to 24,100 feet)

Shock: 200 g (not installed)
No functional damage at 18 inches on rigid surface (i.e., concrete covered with vinyl tile).
No functional damage at 24 inches on carpet over concrete surface.

Shock Protection
4 high-performance shock absorbers.
Rigid steel frame.
R/W heads retract from media surface at power-down and are captured for positive media protection.
Durable ABS plastic casing.

Power Requirements
12 VDC 5% (Amps typ.): 0.2
(Amps max.): 2.0
5 VDC 5% (Amps typ.): 0.2
Power (Watts typ.): 6.8

Dimensions
Length: 7.00 inches (177.8 mm)
Width: 4.75 inches (120.7 mm)
Height: 2.50 inches (63.5 mm)
Weight: 2.6 lbs. (1.2 kg)

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