DATASHET DSD880X/30



/INCHESTER/FLEXIBLE DISK COMBINATION FOR DEC® LSI-11s AND PDP®-11s

- FULL DEC COMPATIBILITY: HARDWARE, SOFTWARE, MEDIA
- TRIPLE RL02 EMULATION
- WINCHESTER BACKUP AND LOADING WITH DEC MEDIA
- EXCLUSIVE HYPERDIAGNOSTICS—BUILT-IN INTELLIGENCE

HIGHER CAPACITY

Data Systems Design introduces a higher capacity version of the DSD 880 Winchester/Floppy Disk Storage System. The DEC LSI-11/PDP-11 compatible DSD 880 is now available with either the previously standard 7.8 or a new 31.2 megabytes of winchester storage capacity. The 8½-inch 31.2 MB disk still fits the DSD 880's compact 5½-inch high box.

CHOICE OF FLOPPIES

The new model, designated the DSD 880 x/30, is available with either a $\frac{1}{2}$ MB, single-sided (DSD 880 S/30) or 1 MB double-sided (DSD 880 D/30) floppy drive for integral I/O and backup.

COMPLETE COMPATIBILITY

The DSD 880 x/30's winchester drive emulates three 10.4 MB DEC RL02s to ensure complete DEC compatibility. In addition, both floppies emulate the DEC RX02 for media interchangeability.

The DSD 880 x/30 comes with a choice of either a dual wide LSI-11 interface board that fits any Q-BUS slot or a quad-wide PDP®-11 interface board that fits any Small Peripheral Controller (SPC) slot.

All applicable DEC diagnostics and utilities are operable with the DSD 880 x/30.

ALL OF THE FEATURES

The DSD 880 x/30 contains all of the DSD 880 x/8 features including HyperDiagnostic™ Panel, built-in bootstrap, off-line backup, LSI-11 multi-level interrupt support and more. For a description of these and other features, see the 12-page DSD 880 Data Sheet.



DSD880x/30

	WINCHESTER (3-RL02's)	FLEXIBLE DISK	
		Double-Sided Double-Density	Single-Sided Double-Density
Capacity (Formatted) Recording Format Average Access Time	31,457,280B MFM 65 ms	1,025,024B IBM 3740 or DEC RX02 174 ms	512,512B IBM 3740 or DEC RX02 296 ms
Maximum Access Time	100 ms	410 ms	783 ms
Rotational Speed Average Latency Real Throughput Within a Track Across Entire Disk Burst Rate Standard Device Addresses (jumper selectable)	3000 rpm 10 ms 204KB/s 143.8KB/s 30 μs/8 words	360 rpm ± 2% 83 ms 20KB/s 18KB/s 4 µs/word plus DMA overhead	360 rpm ± 2% 83 ms 20KB/s 18KB/s 4 µs/word plus DMA overhead
Device Base Address Bootstrap Address Interrupt Priority** (LSI-11/23 compatible) Interrupt Vector **Winchester priority must equal or exceed flexible disk priority	774400 773000 4-7 330	777170 773000 4-7 264	777470 773000 4-7 264

EXTRA FEATURES

Backplane Requirement

Diskettes

Size

Power

Many advanced, user-oriented features are built into all DSD 880's. A diagnostic display panel, located behind the molded front panel, accesses DSD's exclusive

- MODE SELECTION
- STAND ALONE WINCHESTER BACKUP AND LOADING
- READ/WRITE AND SCAN TESTS
- FAULT INDICATION
- DISKETTE FORMATTING
- DC OK INDICATOR

HyperDiagnostics™. These microcoded routines provide stand alone selftesting and detailed status reporting of the disk system, including:

FLEXIBLE DISK ALIGNMENT ROUTINES

One Half Quad Q-BUS Slot: One Bus Load

5.25" H × 17.6" W× 23.5" D

Accepts DEC-compatible soft-sectored diskettes

Standard Domestic and International Configurations

- SEVEN SEGMENT STATUS DISPLAY
- VOLTAGE TEST POINTS
- WINCHESTER AND FLEXIBLE DISK WRITE PROTECTION
- GENERAL SYSTEM EXERCISERS

To enhance system reliability in line with the sealed Winchester, a timer automatically removes power from the flexible disk drive motor when it is not

in use. This feature reduces wear on bearings, belts and diskettes. The flexible disk drive will automatically restart upon receiving the next command.

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EASTERN REGION SALES Data Systems Design, Inc. 51 Morgan Drive Norwood, MA 02062 (617) 769-7620 TWX: 710-336-0120 REPRESENTED

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ROHR ASSOCIATES

P. O. Box 27040 Philadelphia, PA 19118 (215) 836-2200 CORPORATE HEADQUARTERS

Data Systems Design, Inc. 2241 Lundy Avenue San Jose, CA 95131 (408) 946-5800 TWX: 910-338-0249

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