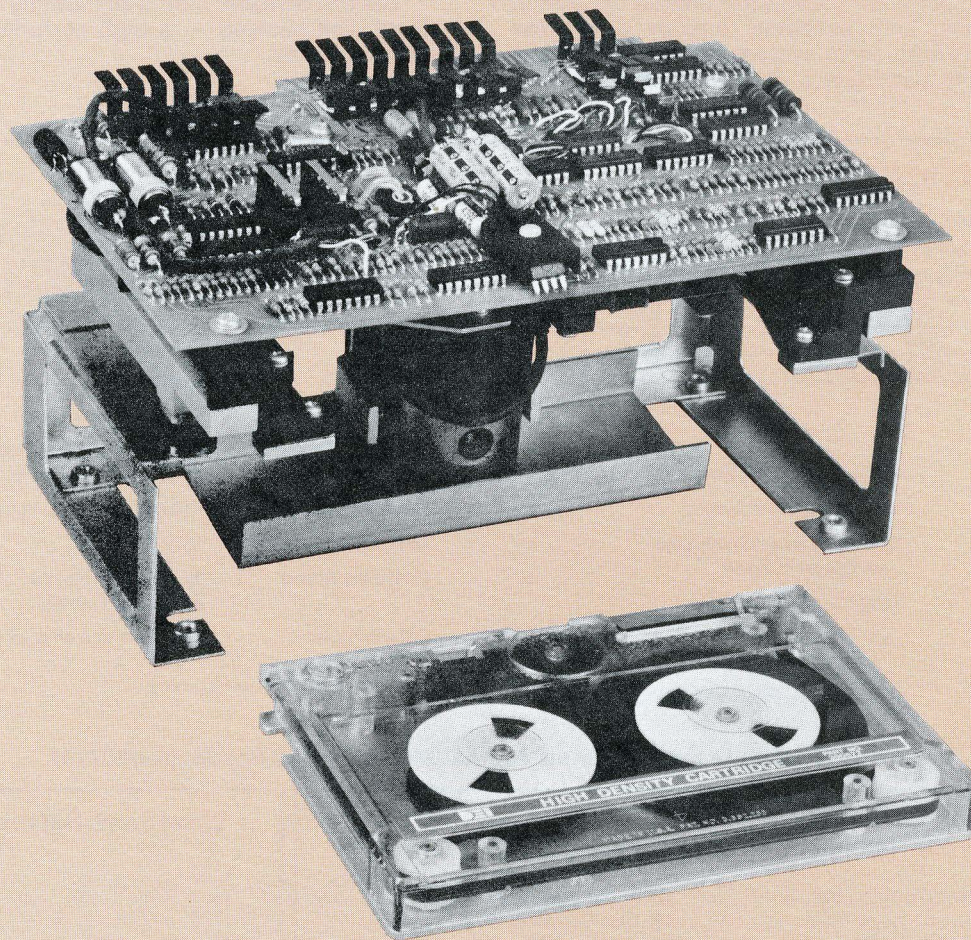


THE STREAKER

10 and 20 MBYTE
CARTRIDGE MAGNETIC TAPE DRIVES



**DATA
ELECTRONICS
INC.**

**FIRST IN
CARTRIDGE TAPE DRIVES**

GENERAL DESCRIPTION

The Streaker is a low cost 1/4" Cartridge Magnetic Tape Drive from DEI offering the optimum solution to the fixed disk back-up problem.

This exciting new product is uniquely designed specifically for the save-and-restore application.

Data is recorded on a 450 foot 1/4" standard cartridge at either 30 or 90 in/sec in a streaming mode. A proprietary dual gap serpentine head provides for read-while-write data verification, and, combined with a separate ac erase head an an integral Tungsten Carbide tape cleaner, facilitates a data reliability of less than one hard error in 10¹⁰ data bits.

Read/write electronics include head drivers, analog amplifiers, external threshold control, amplitude equalization, and filtering for densities up to 10,000 frpi (flux reversals per inch). All input/output signals are digital.

DEI's patented center-of-gravity mounted DC motor/digital magnetic tach assembly directly drives the cartridge. The entire servo system has been designed for the specific parameters of a fixed disc back-up

operation which is characterized by a relatively low-duty cycle and large data blocks.

Optional mounting hardware is available for mounting the Streaker in the same space as a flexible disk drive using either of the industry-standard flexible disk mounting patterns.

Both 10 and 20 megabyte formatted capacity models are available for operation at either 30 or 90 ips. This wide range of models provides the system designer the opportunity to choose the model most suited to the cost/performance objectives of the host system. All models in this family of Streakers have identical dimensions providing the maximum systems flexibility and upward compatibility as future capacity increases become available. The only variation in the signal interface relates to the number of tracks addressed.

The DEI Streaker meets all industry requirements for fixed disk back-up — a high performance product at minimum cost.

SPECIFICATIONS

| Series No. | Capacity (Mbyte) | Operating Speed (ips) |
|------------|------------------|-----------------------|
| 1130 | 10 | 30 |
| 1190 | 10 | 90 |
| 1230 | 20 | 30 |
| 1290 | 20 | 90 |

MODELS:

Cartridge: ANSI X3.55-1977, (450')

Recording Mode: 2 or 4 Tracks Serpentine

Head Type: Dual Gap, Read-While-Write with Separate Erase

Tape Cleaner: Integral

Temperature: +5°C to +45°C Operating
-30°C to +60°C Storage

Relative Humidity: 20% to 80% Non-Condensing

Weight: 4.0 lb (1.9 kg)

Dimensions: 8.57" x 4.52" x 6.0"
WxHxD (21.77 cm x 11.48 cm x 15.24 cm)

Voltage Requirements: + 24 Vdc (1.25 amps),
+ 5 Vdc (2.0 amps)

MTBF: >3500 hours

MTTR: <30 minutes

Start/Stop Times: At 30 ips (76 cm/s): 100 ms
At 90 ips (228.6 cm/s): 300 ms

Recording Density: ≤10,000 frpi (3940 frpcm)

Capacity (Formatted): 10 or 20 Mbytes

Operating Speed: 30 ips (76.2 cm/s) or
90 ips (228.6 cm/s)

Data Reliability: Less than one error in 10¹⁰ bits*

*Determined by customer electronics

For more detailed information on the Streaker, request Product Specification 307131

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For information on the complete line of DEI Drives and systems, send for DEI's Short Form Catalogue.



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