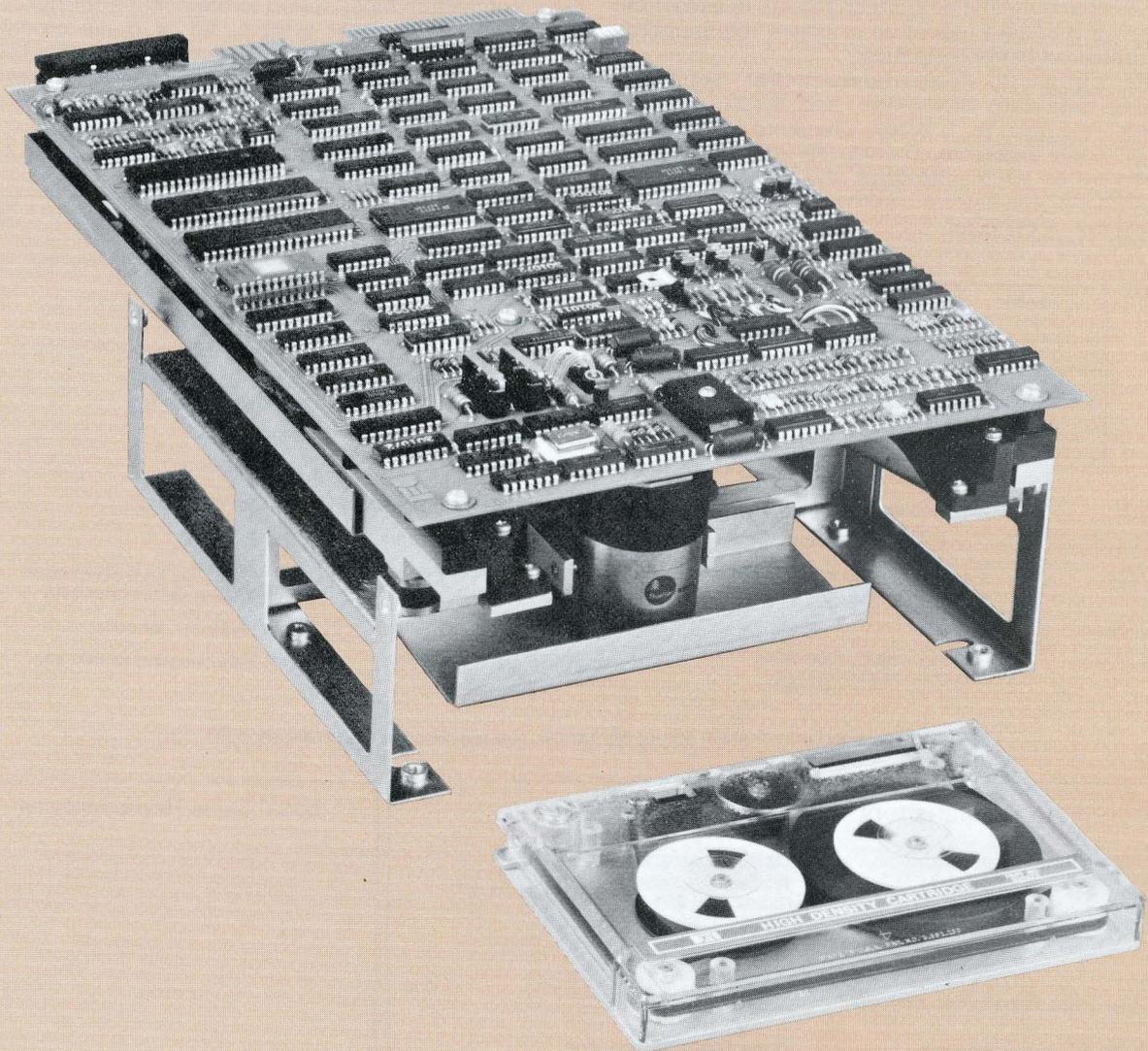


# THE STREAMER

10 and 20 MBYTE CARTRIDGE MAGNETIC TAPE DRIVES  
with STREAMING FORMATTER/CONTROLLER



DATA  
ELECTRONICS  
INC.

FIRST IN  
CARTRIDGE TAPE DRIVES

## GENERAL DESCRIPTION

Fixed disk drives require removable media backup systems that provide a save-and-restore function. "Streaming" 1/4" Cartridge Magnetic Tape Drives from DEI are the ideal back-up choice for systems designers.

The streaming drive allows essentially all of the available tape in the cartridge to be used for data storage by eliminating the traditional starting and stopping between data blocks and the associated interblock gaps. By eliminating the gaps, the data is recorded in what appears to be a continuous stream on the tape using a serpentine track arrangement (i.e., no rewind between tracks, with full read-while-write data verification).

In addition, because starting and stopping becomes very infrequent, tape speed can be increased with a resultant increase in transfer rate. Streaming also eliminates the necessity for rapid start/stop servo electronics and mechanics, which results in a real cost savings as well as a reduction in power requirements and associated heat dissipation.

DEI's streaming formatter/controller separates incoming data into blockettes, and inserts internal address, resync, and error checking characters between each blockette. During the write mode, the data is verified within the drive and marginal data is

rewritten without stopping the tape. In the read mode, the extra characters are stripped, and only data is returned to the host.

When examined, the streaming controller interface looks like a semiconductor memory element. The Streamer may be thought of as a nonvolatile first-in/first-out (FIFO) memory that can easily be integrated into a system. Complex timing and data handling requirements are eliminated.

Systems integration is also enhanced by the Streamer's industry standard dimensions that allow it to mount in the same space as a flexible disk drive using standard mounting hole locations.

There are several models from which to choose: 10 or 20 megabyte formatted capacity, and 30 or 90 kilobytes per second transfer rates. This range of models allows the system designer to choose the back-up subsystem most suited to the cost/performance objectives of the host system. All of these models have identical interfaces and dimensions, providing for maximum systems flexibility and upward compatibility.

Streaming Cartridge Magnetic Tape Drives from DEI offer a flexible, low cost/high performance, easily adaptable solution to your fixed disk back-up requirements.

## SPECIFICATIONS

### MODELS:

| Series No. | Capacity (Mbyte) | Transfer Rate (Kbytes/s) |
|------------|------------------|--------------------------|
| 7130       | 10               | 29.3                     |
| 7190       | 10               | 87.9                     |
| 7230       | 20               | 29.3                     |
| 7290       | 20               | 87.9                     |

Cartridge: ANSI X3.55-1977, (450')  
 Recording Mode: 2 or 4 Track 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: 5.0 lb (2.3 kg)  
 Dimensions: 8.57" x 4.52" x 14.06"  
 WxHxD (21.76 cm x 11.5 cm x 35.71 cm)  
 Voltage Requirements: + 24 Vdc (1.25 amps),  
 + 5 Vdc (2.0 amps)  
 MTBF: >3500 hours  
 MTTR: <30 minutes  
 Recording Density: 7500 bpi (2950 bpcm)  
 Capacity (Formatted): 10 or 20 Mbytes  
 Transfer Rates: 235 kbits/sec (29.3 kbytes/sec) or  
 703 kbits/sec (87.9 kbytes/sec)  
 Interface: Byte Parallel or bit serial  
 Data Reliability: Less than one error in 10<sup>10</sup> bits

For more detailed information on the Streamer, request Product Specification 307130

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### Local Sales Representative:



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