

Model 6809 Data Streamer



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Model 6809 Data Streamer™ Tape Transport

The Kennedy Data Streamer was specifically designed for use with a Winchester disk drive backup where fast starting and stopping is not required. By limiting this start/stop capability, complexity and cost have been reduced to a minimum.

Model 6809 Data Streamer is designed to emulate the performance of the IBM 8809.

Features include:

- **Tape drive includes built-in formatter—it's a compact package.**
- **Contains only four moving parts—hence a much higher MTBF than normal tape drives.**
- **Streams (read/writes) at 100 ips or, in start/stop mode, 12.5 ips.**
- **Uses an extremely accurate, low inertia tachometer and microprocessor controlled speed control, thus eliminating expensive, conventional capstan motor and expensive tape tension buffering.**
- **Utilizes infrared EOT/BOT sensors which are impervious to ambient light.**
- **Up to eight drives may be daisy chained.**
- **Industry compatible formatter interface.**
- **Automatic Tape Size Sensor—Can use any of the three conventional sizes of reels, 7," 8.5" or 10.5"**
- **Can be mounted in three ways—vertically in rack, horizontally in drawer or horizontally in a low boy console.**
- **Microprocessor-controlled self test routines and diagnostics aid in troubleshooting. Insures that you have a working unit and cuts down MTTR.**
- **All solid state electronics and control.**
- **Finally, the Model 6809 is much less expensive than traditional tape transport/formatter combinations. It is ideal for large capacity disk drive backup.**

The 6809 has four moving parts; the two reel motors, a dynamic tension sensor and a low inertia tachometer. The tape coming off the supply reel travels around an idler roller with its associated dynamic tension sensor. The tape then travels through the head area which contains an infrared EOT/BOT broken tape sensor, tape cleaner and a hard head. The tape then runs across another idler roller which is attached to the tachometer, then onto the take-up reel. Feedback, from the tachometer, controls tape speed and tension, by determining the amount of tape on each reel; then dynamically changing the amount of power supplied to each reel, as required.

There are a total of three PC boards in the Model 6809: the write and control, the read, and the power servo. The formatter logic for data encoding, data decoding and controlling the tape drive is contained on these modules. Up to 8 drives can be daisy chained on the input side of the formatter.

The interface to the drive is the "industry standard" formatter interface with slight modifications to accommodate the added functions within the Model 6809.

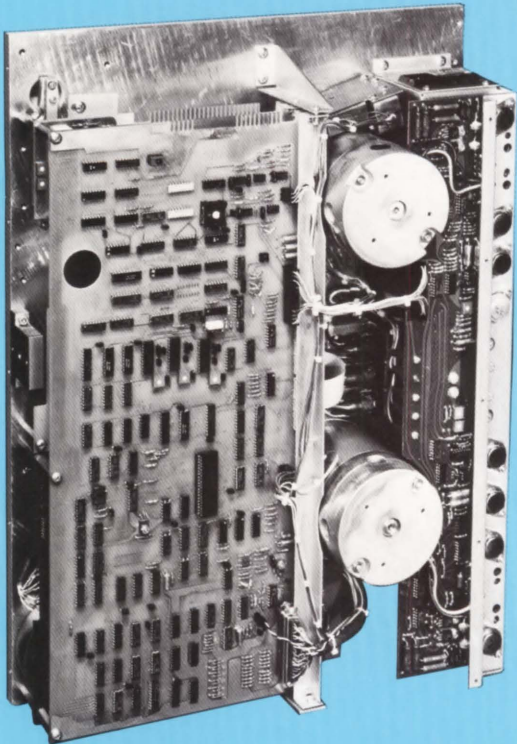
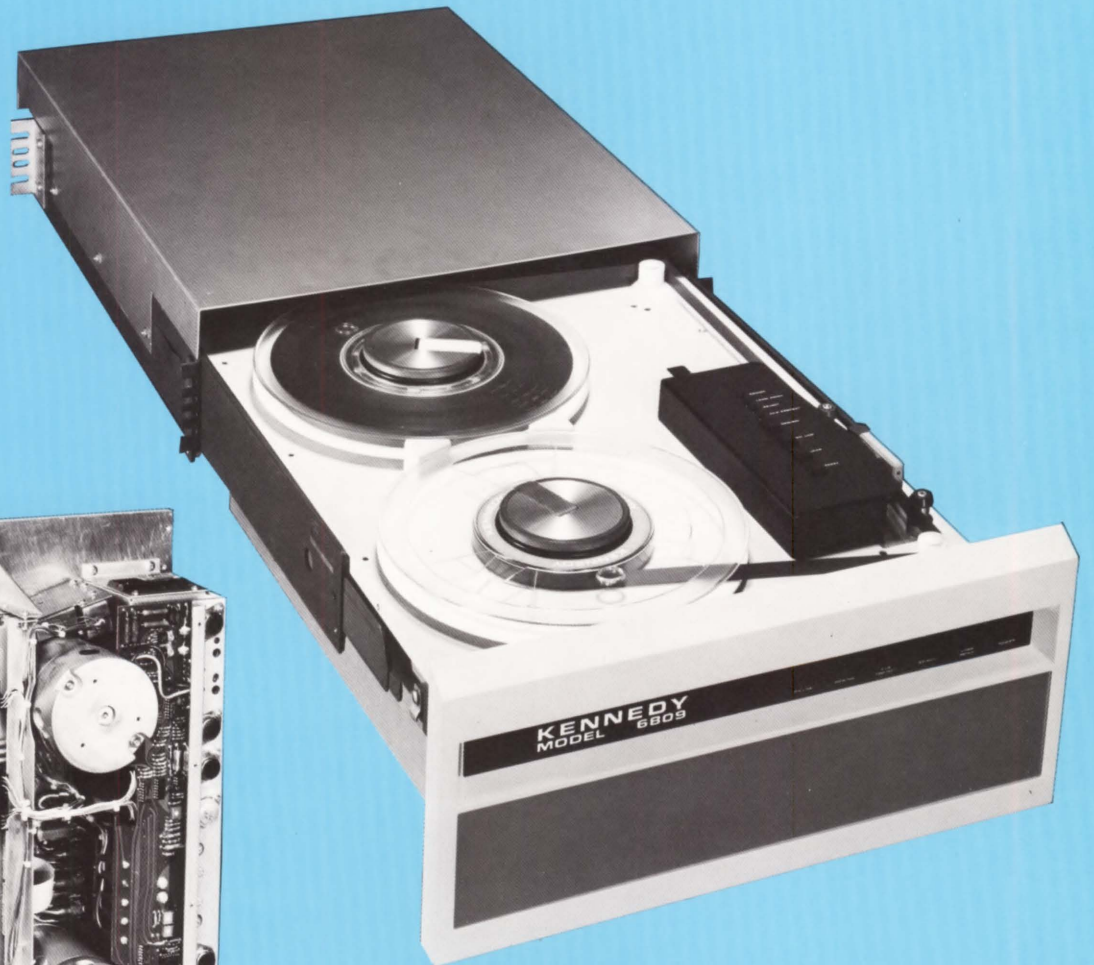
The straight loading path and automatic reel size sensor allow for ease of loading and removing tape. With the aid of the formatter's microprocessor, the tape will be advanced to load point and have proper tension applied across the tape path for correct operation once the user depresses the "load" switch.

The microprocessor also is used for controlling many self tests and will run diagnostics should repair be necessary.

Reliable—
Economical—
Versatile—



The compact Model 6809 provides easy access to all major components, in any of its mounting configurations.



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|--|--|-----------------------------|
| Data Density | 1600 cpi | |
| Number of tracks | 9 track read-after-write | |
| Format | Phase encoded ANSI & IBM compatible | |
| Tape Speed | 100 ips streaming, 12.5 start/stop | |
| Speed Variation | ±5% | |
| Access Time | Start/Stop | Streaming |
| Read | 40 ms | 295 ms |
| Write | 40 ms | 295 ms |
| Command Reissue Time (Streaming Mode) | IRG Size | Time |
| Between write block write tape mark, or Space block commands | 0.6 in. 1.2 in. 0.6 in. | 4.5 ms 10.5 ms 6.0 ms |
| Between read block | 1.2 in. | 10.5 ms |
| Repositioning time (Streaming Mode) Stopped condition | | 880 ms nominal |
| Gaps (Externally selected) | 0.6 in. or 1.2 in. | |
| Parity | Internal or external | |
| Tape Tension | 8.0 oz. | |
| Reel Size | 7," 8.5," or 10.5" | |
| Rewind Speed | 200 ips nominal | |
| Data Streamer Interface | Industry compatible formatter | |
| Physical Dimensions | 8.75" x 17" x 22.75" | |
| Mounting | Horizontal, Drawer, Vertical | |
| Weight | 50 lbs. | |
| Power | 100, 115, 220, 240, VAC 50/60 Hz 250 watts max. | |
| MTBF Design Goal | >10,000 hrs. | |
| Operating Temperature | +2C to 50C | |
| Humidity | 15 to 95% non-condensing | |
| Options Available | Dust Cover Special Paint Bus Interface Drawer Mount | |