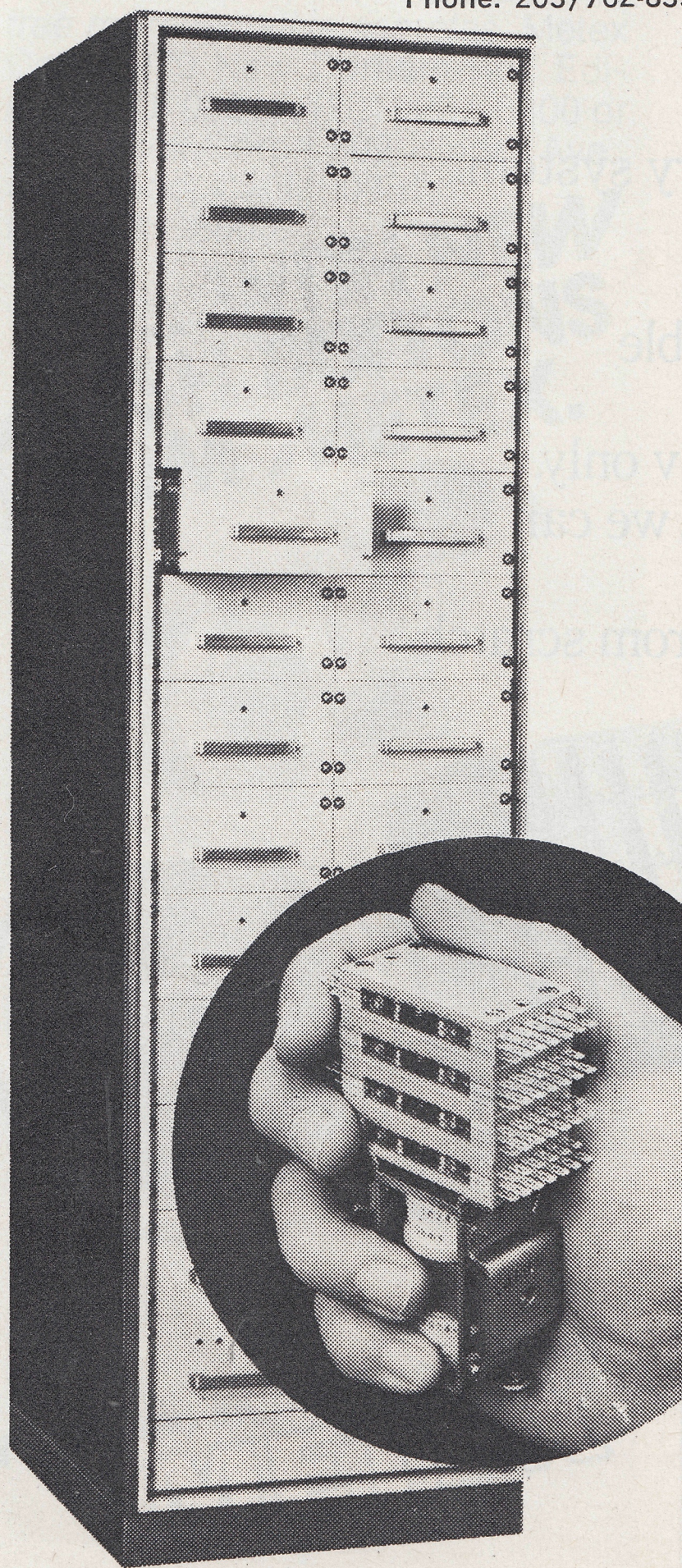


2000 pole double throw switch

How do you direct 2,000 low level transducer lines into a back-up computer without changing 200 cables? Easy. T-Bar® 48-pole latching relays. T-Bar makes high density switches and relays . . . designs and fabricates special switching systems . . . reliably and economically. If you switch a lot of lines — all at once or a few at a time — write or phone today for complete T-Bar literature.

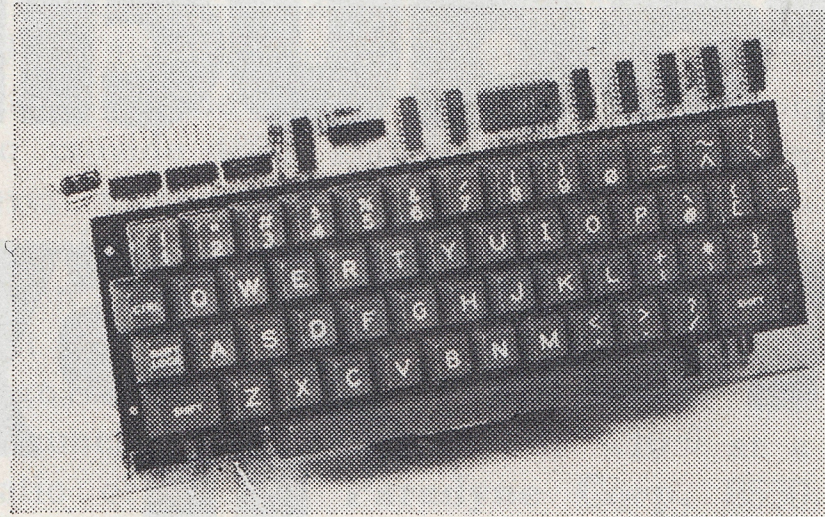
Tbar® INCORPORATED
SWITCHING COMPONENTS DIV.

144J Danbury Road
Wilton, CT 06897
Phone: 203/762-8351



PRODUCTS

ANSI STANDARD KEYBOARD



Keyboard features mechanical switches with gold bifurcated self-wiping contacts, that have been tested to >20 million operations under load. Entry accuracy is protected by 2-key rollover and n-key lock-out. Encoding circuitry is TTL with output in std 7-bit ASCII code, plus u/lc alpha; a jumper option gives uc alpha only. **Maxi-Switch Co.**, 9697 River Rd, Minneapolis, MN 55433.

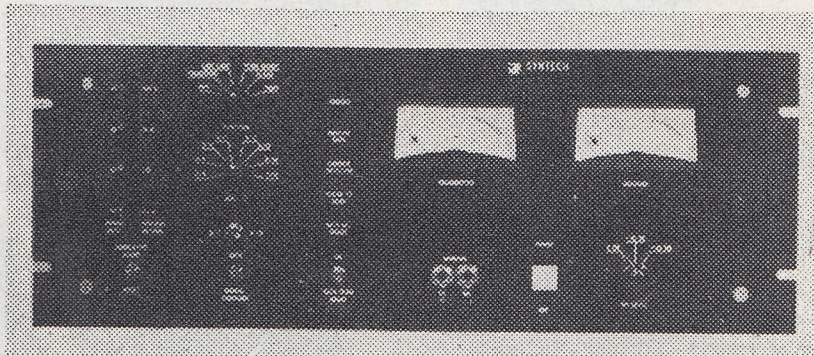
Circle 223 on Inquiry Card

CARD READER SYSTEMS

A 21-model family of card reader systems for Xerox and Sigma computers includes desktop units and large console models. Processing rates range from 200 to 1500 cards/min. Readers can accommodate decks ranging from a single card to 550 to 2250 cards. Nine models have an additional optical-mark read station that enables both punched and pencil-marked cards to be processed; one model combines card punch and reader in the same cabinet. **Telefile Computer Products, Inc.**, 17131 Daimler St, Irvine, CA 92705.

Circle 224 on Inquiry Card

DATA COMMUNICATIONS TEST SYSTEM



For evaluation and fault isolation, the central test system provides fully automatic testing of 2- and 4-wire multipoint systems entirely under central site control. Consisting of a TTS-240 central tester and portable TTR-104 transponders for use at remote sites, system polling capability enables addressing and testing of up to 16 remote modems per transmit/receive line. Tests include bit-error rate, block retransmission rate, and transmit and receive signal level measurements. **Syntech Corp.**, 11810 Parklawn Dr, Rockville, MD 20852.

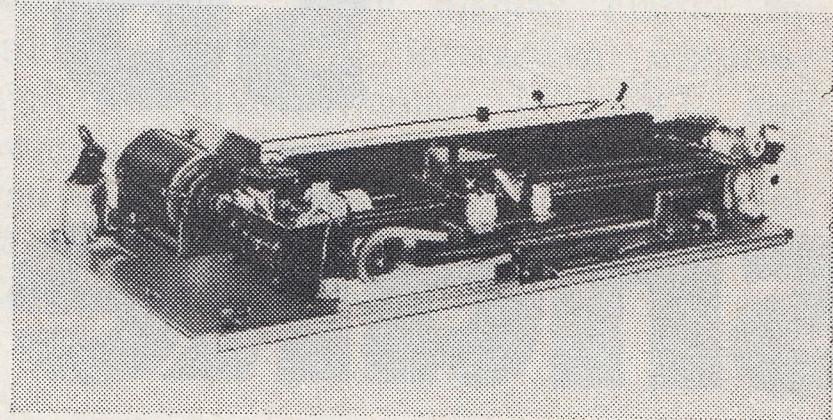
Circle 225 on Inquiry Card

DC SERVOMOTORS

High performance Minertia line is designed for use as head or carriage driving motors in serial printers. Armature and magnetizing circuits are designed to max power rate in small size. Model UGSMEM-A7 has power rate of 2.4 kW/s, rated torque of 9.75 oz-in., max rated speed of 4000 rpm, and weighs 8.12 oz; -02X has power rate of 15.8 kW/s, rated torque of 33 oz-in., max rated speed of 4000 rpm, and weighs 6.6 lb. **Yaskawa Electric America, Inc.**, 4001 Westerly Pl, Suite 101, Newport Beach, CA 92660.

Circle 226 on Inquiry Card

PRINTER MECHANISM

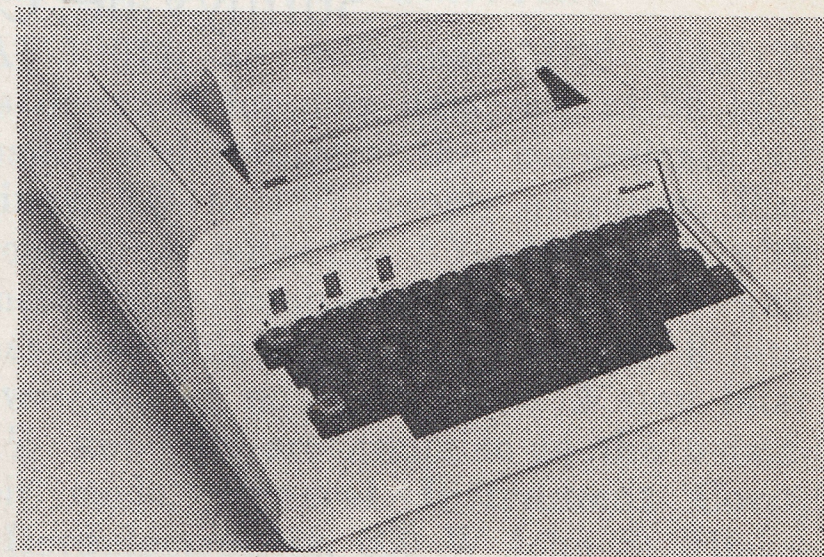


A serial matrix, impact printer mechanism for applications requiring asynchronous speeds up to 30 char/s is available in both 80- and 132-col versions. LED transducers and limit switches are used in place of reluctance and microswitches to provide 500 hr MTBF at 100% print duty-cycle or 50 million char. Std features are 5 x 7 dot matrix, 10 char/in., 6-line/in. spacing, 64-char ASCII code, 6-part copies, roll and pin feed, 33½-char/s catch-up, and 220-V, 50-Hz power. **International Teleprinter Corp/Singer**, 286 Eldridge Rd, Fairfield, NJ 07006.

Circle 227 on Inquiry Card

SMALL TTY-REPLACEMENT TERMINAL

Miniterm, a full-page, hardcopy terminal, features thermal printing, TTY-style keyboard, and integral numeric pad. The unit operates at 10, 15, or 30 char/s, selectable from the keyboard, in TTY, typewriter with u/lc, and numeric pad modes. A 96-char print set provides true underscores. Interfaces are RS-232, serial TTY, 20-mil current-loop, and options such as paper and magnetic tape recorder/reader accessories. Parity may be even, odd, or mark. Size is 15 x 17 x 5". **Computer Devices, Inc.**, 9 Ray Ave, Burlington, MA 01803.



Circle 228 on Inquiry Card