

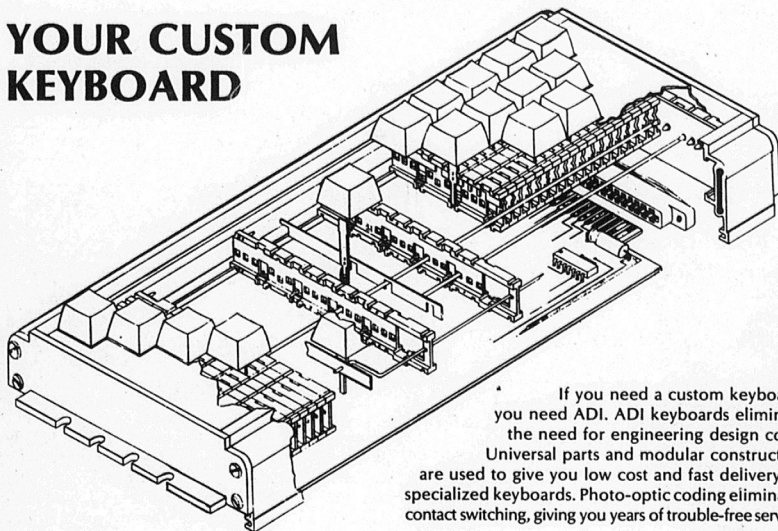
ADI

APPLIED DYNAMICS INTERNATIONAL

3800 STONE SCHOOL ROAD/ANN ARBOR, MICHIGAN 48104/PHONE 313-971-7840

KEYBOARD PRODUCTS

YOUR CUSTOM KEYBOARD



If you need a custom keyboard, you need ADI. ADI keyboards eliminate the need for engineering design costs. Universal parts and modular construction are used to give you low cost and fast delivery on specialized keyboards. Photo-optic coding eliminates contact switching, giving you years of trouble-free service.

In the ADI keyboard, beams of light are directed through a key matrix to photodetectors, whose amplified outputs provide TTL compatible encoded data. Each keyswitch is a notched steel mask which, when depressed, selectively interrupts these light beams. Each key has access to fourteen (14) data bits plus a strobe bit. This technique places all of the encoding information in the individual keyswitch, making the code generation independent of the location of the keyswitch. The modular construction of ADI keyboards allows up to ten key rows with up to thirty keys per row.

The secret of the ADI Custom Keyboard is the standardized interface from the key matrix. Almost any key array, and modifications to this array, can be provided without changing the 17 pin interface connection from the key matrix. This interface presents the encoded data plus strobe from any depressed key anywhere in the matrix. Sufficient bits are available to encode more than 1000 keys while eliminating the possibility of any erroneous codes resulting from simultaneous depression of two or more keys. The standard keyswitch code structure provides for a final multi-mode code of up to eight data bits with additional bits available.

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KEYBOARD PRODUCTS

INSTANT PROTOTYPES —

Rapid delivery of special keyboard prototypes is arranged to fit each customer's needs. The modular construction of ADI Custom Keyboards allows almost any key array to be assembled without requiring any non-recurring charges other than tooling of special two-shot molded legends. ADI Custom Keyboards are available in two versions: the Model D40 Series without logic, and the Model D52 Series with logic. A number of options are also available, including additional encoded keys. Please contact ADI for complete information.

D40 SERIES KEYBOARDS include:

Encoded keys for ASCII code generation with Space Bar, REPEAT, ESC, LF, CR, CTRL, and SHIFT (2) keys, rollover/lockout coding, positive true TTL compatible 13 bit parallel output, two-shot molded keytops, chassis mount end plates, and LED light source.

D52 SERIES KEYBOARDS include:

D40 Keyboard as described above; plus the Keyboard Logic Card which provides 4-mode ASCII operation, 7 or 8 bit negative true parallel output, electronic latching, gated outputs, pulsed and latched strobe signals, keyboard inhibit control line, alpha shift reverse control line, repeat circuitry, and provision for options as listed.

KEYBOARD OPTIONS

Shift Lock
Numeric Cluster, 12 key
Selective Shift Inhibit
Stepped Keys
Desktop Enclosure
Trim Panels
Engraved Legends

LOGIC OPTIONS

Parity Generation
Upper Case Only
Automatic Repeat
Repeat Rate Limiter
Neg True Open Collector
Pos True
Serial, TTL
Serial, EIA

The keyboard Logic Card also has provisions to add PROM's to provide non-logical bit pairing or specialized multi-mode codes.



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