

REIC Single Chip Encoder

Incorporate the Keyboard Encoder Function into your own Design

The REIC is available as a 20 pin DIP or 20 pin SOIC.



The REIC product provides the user with a small, single chip device that can be incorporated into their own design. The device requires minimal support circuitry as demonstrated on the sample schematic.

The REIC is a custom product and is configured by Hagstrom Electronics, Inc. for the user's application. The following list itemizes the information required to set up the REIC for an application.

- 1) Define which scan lines are Rows and which are Columns in the user's matrix. Although the REIC sample schematic shows Rows and Columns assigned to specific pins, any of the scan lines can be either a Row or Column, or even an individual input. A matrix size of 5x5 is the maximum for the REIC.
- 2) Specify the keystroke to be emulated for each position in the matrix or input. The REIC can also produce Macro sequences. With a Macro, a single input can generate a multi-key sequence such as CTRL+F1, etc.
- 3) Fax or email the information to us with your order. We typically have your devices ready in less than one week!

Note that the REIC can also be used in a serial port mode. In this mode, pins 2 and 3 of the REIC are not available for scanning a matrix. Pin 2 is the logic level receive, and pin 3 is the logic level transit. The user can select the appropriate level driver for the application (RS-232, RS-485, etc.).

The REIC support circuitry includes an 11.0592 Mhz crystal, two 33pf capacitors, and various pull-up resistors. The user must also supply a logic level reset to pin 1 of the REIC on power up (100 msec to 500 msec duration).

Schematic of typical REIC Implementation and Support Circuitry (PC Compatible)

