

KEYBOARD ENCODERS

KB3661 PROGRAMMABLE MICROCONTROLLER-BASED SERIAL/PARALLEL KEYBOARD ENCODER

DESCRIPTION

The KB3661 keyboard encoder has been preprogrammed for typewriter or computer terminal applications. Based on GIM's PIC1670 microcontroller, it is designed to scan a 104-key keyboard organized in an 8 x 13 matrix. The user can select either 8-bit serial or 8-bit parallel output. The device's outputs are fully buffered and compatible with TTL devices.

Options include:

- two serial-mode baud rates (2400 and 9600),
 - synchronous or asynchronous serial-mode operation,
 - a disable auto repeat function, for all keys,
 - soft lock on alpha caps, with status indicated by LED, and
 - *n*-key lockout or *n*-key rollover.
- Other features include:*
- ASCII output code (standard), with other codes mask-programmable,
 - auto repeat on all keys,
 - "phantom key" detection,
 - an on-chip crystal oscillator,
 - a single +5 V power supply, and
 - a 40-pin DIP.

