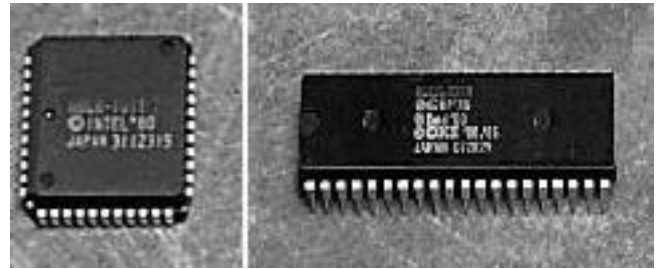


FEATURES:

- Reads Code 39 and Interleaved 2 of 5
- No External Memory Required
- Serial and Keyboard Wedge Interfaces
- Compare Function
- Polling Protocol
- Laser Gun Interface
- Setup Using Serial Port



DESCRIPTION:

The DB1000 Series Decoder Chip decodes the two most common industrial barcodes, Interleaved 2 of 5 and Code 39. Both the Normal and Extended versions of Code 39 are supported. The decoder reads barcodes up to 20 characters in length. Both serial and keyboard wedge communication is supported. RS-232, RS-422 and RS-485 communications can be achieved with the appropriate interface circuits. A polling protocol is built in enabling the unit to be used in multi-drop applications. The decoder will interface with a standard un-decoded laser gun as well as wands and fixed optics scanners. A compare function enables the barcodes being read to be compared to a single value retained in nonvolatile memory. The decoder parameters can be setup by sending commands to the chip via the serial communications port. Default parameters can be set using hardware jumpers

APPLICATIONS:

The DB1000 Series is designed to be incorporated into the users printed circuit board. The unit is available in either PLCC-44 or 40-pin DIP Packages. No external memory or latch chips are required, keeping component count to a minimum. External circuitry includes a crystal, reset/watchdog chip and optional serial EEPROM. An interface circuit for the desired communications option is also required. A general application circuit is shown on page 2 of this data sheet. The Product Manual shows specific circuit details for the various communications and scanner options. Good circuit layout practices are required when designing a circuit board, including a decoupling capacitor close to the VCC and Ground pins.

SPECIFICATIONS:

Electrical

Power: +5VDC \pm 5% @ 75ma. Maximum.
 Digital Input: TTL level Signal, Bar = 1 in Normal Mode, Bar = 0 in Laser Mode.
 Communications: Serial ASCII.
 Baud Rates: 2400, 4800, 9600, 19200
 Parity: Mark, Space, Even or Odd
 Stop Bits: 1 or 2
 RTS/CTS hardware handshaking.
 Keyboard Wedge: IBM PC/AT keyboard interface.
 Messages: 10 character preamble and ID character.

Barcodes

Code Types: Interleaved 2 of 5, Code 39, Extended Code 39
 Code Lengths: Up to 20 Characters.
 Check Character: Supports check characters for both code types.

Environmental

Temperature: Operating: 0° to 70°C
 Storage: -40 to 70°C

APPLICATION CIRCUIT:

