

Multi-Standard Infrared Transceiver

Features

- Adds IR port to standard UART
- IrDA, HPSIR, ASK (CW) & TV remote compatible
- 1200bps to 115kbps data rate
- Programmable Tx LED power
- Programmable Rx threshold level
- Power down modes
- Direct, no modulation, mode
- Tiny 5x7mm 20 pin SSOP package
- +2.7V to +5.5V supply

General Description

The CS8130 is an infrared transceiver integrated circuit. The receive channel includes on-chip high gain PIN diode amplifier, IrDA, HPSIR, ASK & TV remote compatible decoder, and data pulse stretcher. The transmit path includes IrDA, HPSIR, ASK & TV remote compatible encoder, and LED driver. The computer data port is standard UART Tx/D and Rx/D compatible, and operates from 1200 to 115200 baud.

External PIN diode and transmit LED are required. A control mode is provided to allow easy UART programming of different modes.

The CS8130 operates from power supplies of +2.7V to +5.5V.

**For more information see the
1994 Communication Data Book**

