

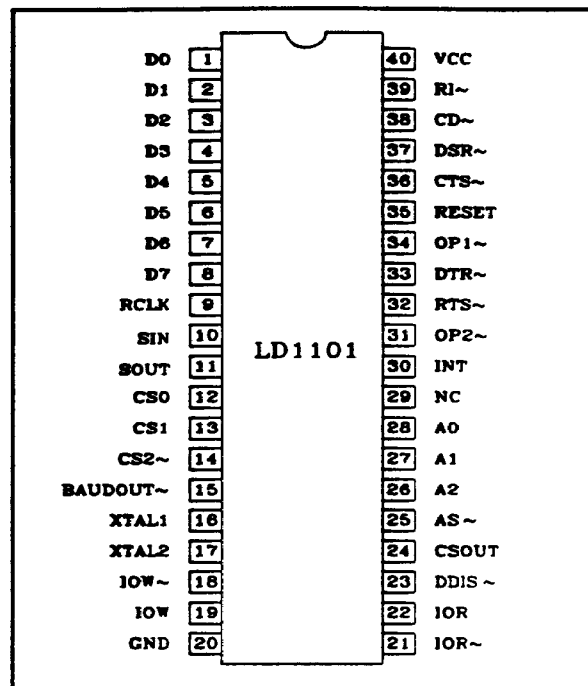
ASYNCHRONOUS RECEIVER AND TRANSMITTER

DESCRIPTION

The LD1101 is a universal asynchronous receiver and transmitter with modem control signals. An internal programmable baud rate generator is provided to select transmit and receive clock rates from 50Hz to 56kHz. The LD1101 is fabricated in an advanced 2 μ CMOS process to achieve low drain power and high speed requirements.

FEATURES

- * Pin-to-pin and functionally compatible to INS8250, NS16C450
- * Modem control signals (CTS~, RTS~, DSR~, DTR~, RI~, CD~)
- * Programmable character lengths (5, 6, 7, 8)
- * Even, odd, or no parity bit generation and detection
- * Status report register
- * Independent transmit and receive control
- * TTL compatible inputs, outputs



APPLICATIONS

- * RS232 receiver or transmitter
- * Serial to parallel/parallel to serial converter
- * Modem handshaking

ORDERING INFORMATION

Part number	Package	Operating temperature
LD1101CN	Plastic	0° C to +70° C
LD1101CV	PLCC	0° C to +70° C

GENERAL DESCRIPTION

The LD1101 is an improved version of the INS8250/NS16C450 UART with higher speed operating access time. The LD1101 performs the parallel to serial/serial to parallel conversion on the data characters received from the CPU or the MODEM. The on board status register will provide the error conditions, type and status of the transfer operations being performed. Complete MODEM control capability, and a processor interrupt system that may be software tailored to the user's requirements to minimize the computing required to handle the communications link. The LD1101 can interface easily to the most popular microprocessors and communications link faults can be detected with internal loopback capability.