

EXAR

Product Number: XR16V554IV80-F

2.25V to 3.6V Quad UART with 16-Byte FIFO

Features

- Pin-to-pin compatible with ST16C454, ST16C554, TI's TL16C554A and Philips' SC16C554B
- Intel or Motorola Data Bus Interface select
- Four independent UART channels
- Register Set Compatible to 16C550
- Data rates of up to 4 Mbps at 3.3 V and 3.125 Mbps at 2.5 V
- 16 byte Transmit FIFO
- 16 byte Receive FIFO with error tags
- 4 Selectable RX FIFO Trigger Levels
- Full modem interface
- 2.25V to 3.6V supply operation
- Crystal oscillator or external clock input
- Pb-Free, RoHS Compliant Versions Offered

Applications

- Portable Appliances
- Telecommunication Network Routers
- Ethernet Network Routers
- Cellular Data Devices
- Factory Automation and Process Controls

Description

The XR16V554¹ (V554) is a quad Universal Asynchronous Receiver and Transmitter (UART) with 16 bytes of transmit and receive FIFOs, selectable receive FIFO trigger levels and data rates of up to 4 Mbps at 3.3 V. Each UART has a set of registers that provide the user with operating status and control, receiver error indications, and modem serial interface controls. An internal loopback capability allows onboard diagnostics. The V554 is available in a 48-pin QFN, 64-pin LQFP, 68-pin PLCC and 80-pin LQFP packages. The 64-pin and 80-pin packages only offer the 16 mode interface, but the 48- and 68-pin packages offer an additional 68 mode interface which allows easy integration with Motorola processors. The XR16V554IV (64-pin) offers three state interrupt output while the XR16V554DIV provides continuous interrupt output. The XR16V554 is compatible with the industry standard ST16C554.

Package code: LQFP80

Min. Temp. : -4 to 85 °C