

# PRODUCT LAUNCH OVERVIEW



## XR21V1410

1-ch Full-Speed  
USB UART

The XR21V1410 is an enhanced Universal Asynchronous Receiver and Transmitter (UART) with a USB interface. The USB interface is fully compliant to Full Speed USB 2.0 specification that supports 12 Mbps USB data transfer rate. The USB interface also supports USB suspend, resume and remote wakeup operations. The XR21V1410 operates from an internal 48MHz clock therefore no external crystal/oscillator is required like previous generation UARTs. With the fractional baud rate generator, any baud rate can accurately be generated using the internal 48MHz clock.

### Features

- USB 2.0 Compliant Interface
  - Supports 12 Mbps USB full-speed data rate
  - Supports USB suspend, resume and remote wakeup operations
- Enhanced Features
  - Data rates up to 12 Mbps
  - Fractional Baud Rate Generator
  - 128 byte TX FIFO
  - 384 byte RX FIFO
  - 7, 8 or 9 data bits, 1 or 2 stop bits
  - Automatic Hardware (RTS/CTS or DTR/DSR) Flow Control
  - Automatic Software (Xon/Xoff) Flow Control
  - Multidrop mode w/ Auto Half-Duplex Transceiver Control
  - Multidrop mode w/ Auto TX Enable
  - Half-Duplex mode
  - Selectable GPIO or Modem I/O
- Internal 48 MHz clock
- Single 2.97-3.63V power supply
- 16-pin QFN package
- Virtual COM Port drivers
  - Windows 2000, XP and Vista
  - Windows CE 4.2, 5.0, 6.0
  - Linux
  - Mac

### Target Applications

- Portable Appliances
- External Converters (Dongles)
- Battery-Operated Devices
- Cellular Data Devices
- Factory Automation and Process Controls
- Industrial Applications

### Sales Message:

USB 2.0 compliant UART supporting the smallest package and fastest data rate in the industry, along with a complete suite of available software drivers – focus on software support and lowest BOM costs.

### Competition:

FTDI FT232, Silabs CP2102/3, TI TUSB3410, Moschip MCS7710

### Suggested 1000pc Resale:

\$1.80

### Part Numbers/Packages:

XR21V1410IL16-F      3mm x 3mm QFN16

### Lead Time:

Available now

### Evaluation Board:

XR21V1410IL-0A-EB

### Technical Support:

uarttechsupport@exar.com