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8-channel UART supports high-speed data transmission in industrial applications

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(02/06/2006 6:55 PM ET)

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Fremont, Calif.—Exar Corp. has released its highest performing UART, an eight-channel device that transmits data at 8-Mbits/s. The XR16V798 UART is aimed at industrial applications that require high-speed data transmission.

The XR16V798 is a 2.25-V to 3.6-V UART with 5-V tolerant inputs that features 64-byte transmit (TX) and receiver (RX) FIFOs with fully programmable trigger levels. It also features automatic RTS/CTS or DTR/DSR hardware flow control with programmable hysteresis and automatic software (Xon/Xoff) flow control.

The 8-channel UART is designed with RS-485 half-duplex direction control with programmable turn-around delay, an Intel or Motorola bus interface and sleep mode with a wake-up indicator. It also has the industry standard 16C550 register set, and is pin-for-pin compatible with Exar's XR16L788 (8-channel, 8-bit data bus) device.

The XR16V798 is targeted at industrial applications including remote access servers, network management, factory automation/process control and multi-port RS-232/RS-422/RS-485 communications cards. The device operates over the industrial temperature range of -40°C to +85°C.

"The XR16V798's fractional baud rate generator can accept any external clock to generate the desired baud rate; this eliminates the need for an additional clock source and results in saving on both board space and cost," said Levent Ozcolak, divisional vice president and general manager, Interface Products Division.

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The XR16V798 is supported by Exar's UART software drivers for operating systems including Windows 2000, XP and Linux. The XR16V798 is available now in 100-pin QFP packages at \$20.13 for 1,000 pieces.

Additional information on the product can be found at: www.exar.com/product.php?ProdNumber=XR16V798&areaID=3

Exar Corp., 1-510-668-7000, www.exar.com

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