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Exar Releases Widest Operating Range RS-485 Transceivers

XR33032/5/8 Operate from 2.8V to 5.5V with +/-18V Fault Tolerance

FREMONT, Calif., April 7, 2014 /PRNewswire/ -- Exar Corporation (NYSE: EXAR), a leading supplier of high performance analog mixed-signal components, and video and data management solutions, today announced a family of half duplex RS-485 transceivers optimized to operate over a wide 2.8V to 5.5V supply voltage range. The wide operating range makes these transceivers ideal for isolated applications where the remote devices are powered through the cable. The XR33032/5/8 wide supply transceivers can tolerate significant voltage drop along the cable resistance and still maintain compliant RS-485 output levels and performance, even with a 2V voltage drop in the cable (when utilizing a remote 5V power supply).

The XR3303x product family offers industry-leading +/-18V Fault Tolerance for direct shorts to DC or AC, +/-70V Transient Protection, and exceeds the highest ESD rating of IEC 61000-4-2 Level 4. These rugged features remove the need for additional protection components, allowing system designers to increase the reliability of isolated industrial networks, remote meter reading, process control and monitoring, GSM/GPRS modules, building automation, HVAC control, and security systems.

"The wide operating range allows designers to simplify their system BOMs and standardize on one part for 3.3V or 5V applications, or use intermediate voltages such as 3.9V or 4.0V without requiring a step-down regulator," said Jack Roan, Product Marketing Manager, Exar. "The XR33032/5/8 typically draw only 300 microampere when idling with the receivers active, making them ideal for battery powered installations."

Product Details
The XR33032/5/8 half duplex RS-485 transceivers support 250kbps, 1Mbps, and 10Mbps data rates and are fully compliant to the TIA/EIA-485 and TIA/EIA-422 standards when operated above 3.0V. The analog bus pins are protected against severe ESD events exceeding IEC level 4 (+/-15kV IEC 61000-4-2 Air Gap Discharge, +/-8kV IEC 61000-4-2 Contact Discharge, +/-15kV Human Body Model), and can tolerate direct shorts to DC or AC voltages as high as +/-18V.

Product Availability and Pricing
The XR33032/5/8 are available in industry standard 8 pin NSOIC packages. To request samples please visit Exar's website at www.exar.com, or contact Customer Service at customersupport@exar.com website. The suggested retail price is $1.65 in 1,000 piece quantities.

Additional Information
Additional Information on the XR33032/5/8 is also available online.
https://www.exar.com/common/content/document.ashx?id=21512

Additional information on Exar's Serial Transceiver products is also available online.
http://exar.com/connectivity/transceiver

About Exar
Exar Corporation designs, develops and markets high performance, analog mixed-signal integrated circuits and advanced sub-system solutions for the Networking & Storage, Industrial & Embedded Systems, and Communications Infrastructure markets. Exar's product portfolio includes power management and connectivity components, communications products, and network security and storage optimization solutions. Exar has locations worldwide providing real-time customer support. For more information about Exar, visit http://www.exar.com.

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