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## 8:1 Sensor Interface Analog Front End Simplifies Sensor Conditioning

FREMONT, Calif., April 20, 2016 /PRNewswire/ -- Exar Corporation (NYSE: EXAR), a leading supplier of analog mixed-signal products serving the industrial, high-end consumer and infrastructure markets, announces the [XR18910](#), the latest addition to its family of analog front end sensor interfaces, which integrates high channel count and functionality in a tiny 3.5mm x 3.5mm footprint. The XR18910 provides 14-bit signal path linearity and is designed to connect analog sensors to a microcontroller (MCU) or field-programmable gate array (FPGA) with an embedded ADC.

The onboard 10-bit DAC offers  $\pm 560\text{mV}$  of offset correction and allows an independent offset value for each of the eight differential inputs. The programmable gain instrumentation amplifier offers eight fixed-gain settings (from 2V/V to 760V/V), ensuring the amplified sensor signal falls within the optimum input range of the downstream ADC. The integrated LDO provides a regulated 3V or 2.65V voltage to power the sensors. The XR18910 is controlled via an I<sup>2</sup>C serial interface and typically consumes 457 $\mu\text{A}$  of supply current and offers a sleep mode which reduces the supply current to only 45 $\mu\text{A}$ .

"The XR18910 provides designers with an easy-to-use sensor interface that calibrates and amplifies signals from eight different analog sensors, improving overall system sensitivity and accuracy," said Dale Wedel, vice president of high performance analog. "It offers more functionality with lower power than discrete solutions and is suitable for a variety of applications such as force sensing, pod racers and power monitoring for solar energy and data centers. It also occupies a significantly smaller footprint than our original XR10910 16:1 sensor interface, making it more attractive when fewer channels are required."

The XR18910 is available in a RoHS compliant, green/halogen free, space-saving 3.5mm x 3.5mm QFN package. The XR18910 is priced at \$6.10 in 1,000-piece quantities. For more information, visit the [XR18910](#) page.

### About Exar

Exar Corporation designs, develops and markets analog mixed-signal products for the industrial and embedded systems communications, high-end consumer and infrastructure markets. Exar's broad product portfolio includes power management, signal conditioning, interface, display, data management and video processing solutions. Exar has locations worldwide providing real-time customer support. For more information, visit [www.exar.com](http://www.exar.com).

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Press Contacts:

Andrea Vedanayagam  
Veda Communications  
510-668-7186  
[press@exar.com](mailto:press@exar.com)

Bob Jones/Derek Rye  
Publitek  
North America: 408-786-5151  
Europe: +44 1225 470000  
[exar@publitek.com](mailto:exar@publitek.com)

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