



Exar's Universal PMIC Offers Up to 40V Input

Programmable quad output XR77129 powers any FPGA, SoC or DSP

FREMONT, Calif., Dec. 23, 2014 /PRNewswire/ -- Exar Corporation (NYSE: EXAR), a leading supplier of high performance integrated circuits and system solutions, today introduced the [XR77129](#), a quad output programmable Universal PMIC with an input operating voltage range of 6V to 40V. Its patented control architecture is well suited for 40V inputs using a 17-bit wide PID voltage mode V_{IN} feed forward architecture. This controller offers a single input, quad output, step-down switching regulator controller with integrated gate drivers and dual LDO outputs. It can also monitor and dynamically control and configure the power system through an I²C interface. Five configurable GPIOs allow for fast system integration for fault reporting and status or for sequencing control.

The XR77129 is quickly configured to power nearly any FPGA, SOC or DSP system through the use of Exar's design tool, PowerArchitect™ and programmed through an I²C based SMBus compliant serial interface. PowerArchitect 5.2 has been upgraded to support the additional capabilities of the XR77129 including output voltage ranges beyond the native 0.6V to 5.5V with the use of external feedback resistors. The XR77129 wide input voltage range, low quiescent current of 450uA (standby) and 4mA (operating) make it an excellent choice for a wide range of systems including 18V to 36VDC, 24VDC or rectified AC systems used in the industrial automation and embedded applications.

"The XR77129 Universal PMIC brings a wide range of capabilities to industrial embedded designs not available before," said James Loughheed, Exar's vice president, power management products. "The dynamic control, configurability and monitoring of Exar's programmable power solutions give industrial system designers capabilities to solve unique and difficult power conversion challenges."

The XR77129 is available now in a RoHS compliant, green/halogen free space-saving 7mm × 7mm TQFN and is priced at \$9.95 in 1000-piece quantities. For more information, visit www.exar.com/xr77129.

Summary of features:

- 6V to 40V input voltage
- Quad channel step-down controller
- Digital PWM 105kHz to 1.23MHz operation
- SMBus compliant I²C interface
- Supported by PowerArchitect 5.2 or later

About Exar

Exar Corporation designs, develops and markets high performance integrated circuits and system solutions for the industrial & embedded systems communications, high-end consumer and infrastructure markets. Exar's broad product portfolio includes analog, display, LED lighting, mixed-signal, power management, connectivity, data management and video processing solutions. Exar has locations worldwide providing real-time customer support. For more information, visit www.exar.com.

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