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Exar Introduces 1.5A PowerBlox™ Step Down Regulator with Smallest Solution Footprint

XRP7659 Delivers High Frequency in a SOT 23 Package, while Reducing Component Count

FREMONT, Calif., Aug. 28, 2012 /PRNewswire/ -- Exar Corporation (Nasdaq: EXAR) today introduced the XRP7659, the latest addition in its PowerBlox family of high voltage and high current step down regulators. With its high operating frequency, integrated high side MOSFET switch and control loop compensation, the XRP7659 reduces both overall component count and component sizes, thus offering the smallest total solution footprint of the whole PowerBlox family.

(logo: <http://photos.prnewswire.com/prnh/20120716/SF41155LOGO>)

With a fixed frequency operation of 1.4MHz and optimized for a 12V input voltage, the XRP7659 is suitable for a variety of consumer oriented applications such as infotainment equipment and set top boxes. It is also ideal for distributed power architectures and for generic point of load conversions. Additionally, built in safety features like output over voltage, over temperature, cycle-by-cycle over-current and under voltage lockout (UVLO) protection ensure safe operation under abnormal operating conditions.

"The addition of the XRP7659 broadens the selection of PowerBlox solutions for our customers," said Eric Pittana, Exar's Power Management Marketing Director. "It provides a very compact, high-performance solution that's extremely easy to use, for point-of-loads up to 1.5Amp stepping down from the traditional 12V power rail."

Product Details

The XRP7659 is a non-synchronous PWM step-down (buck) voltage regulator capable of delivering an output current up to 1.5Amps. A wide 4.5V to 18V input voltage range allows for single supply operation from industry standard 5V, 9.6V and 12V power rails. With a 1.4MHz fixed operating frequency and current-mode control architecture, it provides fast transient response and achieves conversion efficiencies as high as 92%. An integrated soft-start prevents inrush current at turn-on, and in shutdown mode the supply current drops to 0.1µA. The XRP7659 offers the following protection schemes: output over voltage (open load), thermal shut-down, cycle-by-cycle over-current limit, and under voltage lockout (UVLO).

Product Availability and Pricing

The XRP7659 is available now in volume quantities. 1,000-unit price is \$0.69 each. The

XRP7659 comes standard in a RoHS compliant, halogen free 6 pin SOT-23 package.

Power Management Products

Exar designs and develops traditional power management products as well as innovative programmable power management systems. Exar's power management products simplify the power and system architecture in a wide variety of end markets for both line and battery-powered electronic equipment. With over 30 years of analog and mixed-signal expertise, Exar's power management solutions are trusted everyday to provide an unprecedented combination of high efficiency, high performance, board space optimization and improved system reliability while reducing costs and time to market.

Additional Information

Additional information on the XRP7659 is available [online](#).

Additional information on Exar's PowerBlox™ family is also available [online](#).

About Exar

Exar Corporation designs, develops and markets high performance analog mixed-signal integrated circuits and advanced sub-system solutions for data communication, networking, storage, consumer and industrial applications. Exar's product portfolio includes power management and connectivity components, communications products, 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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