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Exar Introduces New Programmable High Brightness LED Driver

XRP7613 Thermal Current Fold-back Improves Reliability in LED Lighting Fixtures

FREMONT, Calif., Nov. 27, 2012 /PRNewswire/ -- Exar Corporation (Nasdaq: EXAR) a leading supplier of high performance analog mixed-signal components and data management solutions today introduced the XRP7613, a programmable high current, high brightness LED Driver. Capable of driving LED currents up to 1.2A, the XRP7613 operates from input voltages up to 36V and supports analog and Pulse Width Modulation (PWM) dimming up to 40KHz.

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

Designed for retail and architectural lighting applications, the XRP7613 offers a proprietary and selectable LED thermal current fold-back mode of operation that effectively reduces the programmed LED current as the ambient temperature increases. This feature provides additional reliability for the whole system and longer operation under adverse temperature conditions. The XRP7613 supports a wide range of programmable LED currents, from 150mA to 1.2A, making it ideal for various LED brightness and light fixture wattage. Additionally, an extended operating voltage range of up to 36V allows usage of the XRP7613 in industrial lighting applications where power transmission line losses are minimized through higher input voltage rails.

"The XRP7613 offers customers a number of leading features including the thermal current fold-back mode which maintains the LED lit under stressful temperature conditions where most other drivers would simply turn off," said Eric Pittana, Exar's Power Management marketing director. "Ultimately, the XRP7613 enables an enhanced consumer lighting experience with a longer lasting and more reliable lighting fixture."

Product Details

The XRP7613 is a non-synchronous step down driver with integrated FET optimized to drive high power LEDs up to 1.2A while supporting up to 36V on the input. The XRP7613 has a switching frequency of up to 1MHz, a programmable output current from 150mA to 1.2A, and supports both analog as well as PWM dimming up to 40KHz. A selectable LED thermal current fold-back control feature linearly reduces the LED current as temperature rises to ensure continuous lighting. The XRP7613 also provides designers with a compact and robust LED driver solution capable of fitting into the popular MR16 space constraint sockets.

Product Availability and Pricing

The XRP7613 is available now in volume quantities and comes standard in a RoHS compliant, Halogen Free 8-Pin Exposed Pad SOIC package. The 1,000-unit suggested retail is \$0.99 each. Exar also offers an evaluation board for customers to quickly and easily test the features of the XRP7613.

Additional Information

Additional information on the XRP7613 is available [online](#).

Additional information on Exar's LED power management products 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, 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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