



News Release

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TI introduces new LED-lamp Reference Board for dimmable offline lighting applications in collaboration with Lemnis Lighting

TI's technology and Lemnis Lighting's application experience are bringing LED lighting home

DALLAS (April 7, 2010) – Texas Instruments Incorporated (TI) (NYSE:TXN), today introduced a complete [LED](#) lighting driver reference board in collaboration with Lemnis Lighting to help address three important issues: cost, dimming and efficacy. The TPS92010 LED-lamp Reference Board applies TI's semiconductor technology for general LED lighting and Lemnis Lighting's expertise in dimmable lighting applications. The board can help speed adoption of energy-saving retrofit LED light bulbs. The reference board will be available in mid-second quarter and is accompanied by a user's guide that contains the schematics, bill of materials and test results needed to design a dimmable LED lamp. For details see: www.ti.com/tps92010referenceboard-pr.

The reference board is based on TI's new TPS92010 LED lighting controller. The TPS92010 offline LED lighting controller implements quasi-resonant flyback power converters to achieve high efficiency of up to 87 percent, small size and lower cost for AC/DC LED lighting drivers. The TPS92010's control technique allows designers to develop replacement light bulbs in tight, small form factors, and helps reduce overall system cost. The device's system-level features, such as overvoltage detection and shutdown, prevent system damage caused by an open LED string. Its over-temperature shutdown feature protects against excessive heat in the system.

“The TPS92010 is helping achieve industry-leading lumens, efficacy, color temperature and dimming performance in Lemnis Lighting's Pharox® line of omni-directional LED replacement bulbs (A19-E26/27 form factor),” said Remko Gaastra, chief executive officer of San Francisco and Netherlands-based Lemnis Lighting B.V. “This solution will deliver the optimal balance between power, size and efficiency to help accelerate the trend to replace traditional light bulbs with energy-saving LED bulbs.”

The TPS92010 is the first of a new family of TI LED controllers designed for general lighting applications, such as residential LED fixtures; retrofit LED bulbs; commercial troffers; down-lights; wall sconces; pathway lighting; overhead lighting; and architectural and display lighting.

“TI is now applying years of experience in LED backlighting to deliver efficient power management solutions for the rapidly-growing general LED lighting market,” said Tim Goodrow, general manager for TI’s Power Supply Solutions group. “The TPS92010 and the TPS92010 LED-lamp Reference Board demonstrate TI’s commitment to helping our customers solve their lighting design challenges, and they complement our broad portfolio of power management devices, wired and wireless interfaces, and embedded processors for lighting applications.”

Building on the successful development of the TPS92010 LED-lamp Reference Board, TI and Lemnis Lighting will continue to collaborate on future cutting-edge driver solutions for LED lighting applications.

Key features and benefits of the TPS92010 LED-lamp Reference Board

- The TPS92010 LED-lamp Reference Board features a seamless, high-performance dimming interface to TRIAC (triode for alternating current) based wall dimmers.
- The TRIAC dimming interface circuit maintains high efficiency even during deep dimming (60 percent efficient at 10 percent LED current).
- The reference board is an isolated driver with low EMI to simplify safety certification and electromagnetic compatibility (EMC) compliance. To order the TPS92010 LED-lamp Reference Board see www.ti.com/tps92010referenceboard-pr.

Availability and pricing

The TPS92010 LED-lamp Reference Board will be available in mid-second quarter and is priced at \$49.95. The TPS92010 offline LED lighting controller is available now in an 8-pin SOIC package and is priced at \$0.43 in quantities of 1,000.

Find out more about TI’s LED lighting portfolio at the links below:

- To order samples of TPS92010 LED lighting controller: www.ti.com/tps92010-pr.
- TI’s complete LED lighting portfolio: www.ti.com/led-pr.
- TI’s complete power management portfolio: www.ti.com/power-pr.
- Download the LED Reference Design Cookbook: www.ti.com/ledcookbook-pr.

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About Texas Instruments

Texas Instruments (NYSE: TXN) helps customers solve problems and develop new electronics that make the world smarter, healthier, safer, greener and more fun. A global semiconductor company, TI innovates through manufacturing, design and sales operations in more than 30 countries. For more information, go to www.ti.com.

About LED lighting from Texas Instruments

TI offers a leading-edge portfolio of products for today's LED lighting design requirements based on decades of innovation in power management and wired and wireless communication technology. TI helps speed customers' lighting innovation with a broad portfolio of power management devices, wired and wireless interfaces, and embedded processors, as well as products tailored to the needs of the lighting market, complemented by the company's strong local and online customer support network.

About Lemnis Lighting

Lemnis Lighting B.V. is a frontrunner in the field of sustainable lighting solutions, based on LED technology. In 2006, Lemnis introduced the first LED light bulb under the brand name Pharox that could realistically be viewed as an up-to-par replacement of the incandescent light bulb. The technology used also has other applications in outdoor, greenhouse and solar lighting and has resulted in Lemnis Lighting being awarded the 2009 Technology Pioneer Award by the World Economic Forum and a top-10 position in the 2010 Fast Company "most innovative consumer goods companies" list. Lemnis Lighting has offices in the Netherlands, San Francisco, Hong Kong and Singapore. Lemnis Lighting B.V. is a Dutch company with limited liability, and is a subsidiary of Tendris Holding. Tendris Holding initiates, develops and invests in companies that focus on sustainable, market-oriented and environmentally friendly solutions. For further information, please visit www.lemnislighting.com

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