Marvell Showcases Breakthrough LED Lighting Solutions For Residential And Commercial Deployments At LIGHTFAIR International 2012

Marvell's smart lighting reference platforms and ODM end lighting products leveraging these platforms are available worldwide

SANTA CLARA, Calif., and LAS VEGAS, May 9, 2012 /PRNewswire/ -- Marvell (Nasdaq: MRVL) will showcase smart and superior quality LED lighting solutions with complete reference designs and control software for building residential and commercial lighting products at LIGHTFAIR International 2012, May 9 - 11, 2012.

(Logo:https://investor.marvell.com/image/Marvell_logo.jpg)

Based on its advanced LED driver integrated circuits (ICs), microcontrollers and integrated control software technology, Marvell's total system solutions allow lighting original equipment manufacturers (OEMs) and original design manufacturers (ODMs) to quickly build high-performance and affordable LED lighting products. These reference designs are available for OEMs to customize and implement into their own product designs and are also available as finished products from multiple ODMs worldwide.

"Marvell's smart lighting solutions are designed to accelerate the deployment of superior quality LED lighting and smart lighting controls in mainstream residential and commercial lighting applications," said Kishore Manghnani, vice president of Green Technology Products Group at Marvell Semiconductor, Inc. "The availability of these reference designs from Marvell and finished solutions from third party companies will further accelerate the adoption of these advanced LED technologies by the mass market worldwide."

Marvell at LIGHTFAIR International 2012

In-suite demonstrations of Marvell's latest LED driver electronics and lighting control solutions will highlight solutions optimized to address the residential and commercial lighting markets. Specifically, Marvell will showcase:

- Several reference designs for retrofit LED lamps based on the new Marvell® 88EM8183 deep dimming single stage AC/DC TRIAC LED driver integrated circuit (IC), which achieve superior dimming performance and compatibility using the lowest component count in the industry
- External LED driver reference designs, including DALI and Zigbee wireless solutions, developed for commercial lighting applications

Residential Lighting: Marvell's advanced driver ICs and reference designs offer the industry's best dimming capability for a wide variety of retrofit LED lamps, such as A19, PAR, BR, GU10 and Candle.

Marvell's new 88EM8183 driver IC offers OEMs and ODMs a superior compatible dimming solution as compared to a majority of dimmers currently on the market, and also excellent light quality, intended to decrease consumer dissatisfaction and returns. The reference designs include isolated and non-isolated versions, all with the lowest component count and smallest form factor available in the industry.

"After comparing various LED driver ICs on the market, we chose Marvell's 88EM8183 LED driver IC for our new generation dimmable retrofit lamps because it offers the best dimming performance and compatibility at the lowest component count," said George Xu, general manager of Leedarson Lighting. "Combined with Leedarson's large scale manufacturing capability and operational excellence, the Marvell 88EM8183 solution allows us to offer cost effective, reliable and best dimming retrofit LED lamp products to lighting OEMs worldwide."

Commercial Lighting and Lighting Controls: By introducing a family of high quality commercial LED external drivers and lighting control solutions, Marvell is supplying a wide range of turnkey designs for commercial lighting systems. These solutions include external driver designs optimized for downlights, panel lights and other luminaries in the 12-40W range with 1-channel, 2-channel and 4-channel options and control software. The external LED drivers feature 0-10V dimming capability that is compatible with wall box dimmers available in North American, European and Asian markets (Class 1 and Class 2). Applications that require Smart LED Lighting control, including on/off switching, dimming, color mixing or color correlation temperature (CCT) tuning, can also be developed with the addition of DALI or ZigBee® communication modules, which allows networked lighting control. The designs are based on the Marvell 88MZ100 microcontroller system on a chip (SoC) and the 88EM8801, the industry's first dual-string smart LED controller chip, which uses Marvell's unique mixed-signal power technology to enable superior lighting performance with high color rendering index (CRI) while maintaining high-levels of integration and efficiency.

"Orama is excited to work with Marvell because they provide a feature-rich, integrated solution including LED driver ICs, microcontrollers and control software, which allowed us to quickly develop a wide array of LED driver products for commercial applications," said Jason Huang, general manager of Orama, Inc. "Their solution enables us to offer affordable, energy efficient products to OEMs worldwide and emerging markets."

Demonstrations of Marvell's residential and commercial LED lighting solutions are available at LIGHTFAIR by appointment.

About Marvell

Marvell (NASDAQ: MRVL) is a world leader in the development of storage, communications and consumer silicon solutions. Marvell's diverse product portfolio includes switching, transceiver, communications controller, wireless and storage solutions that power the entire communications infrastructure, including enterprise, metro, home and storage networking. As used in this release, the term "Marvell" refers to Marvell Technology Group Ltd. and its subsidiaries. For more information, visit Marvell.com.

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