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# Marvell Introduces Mass Production-Ready LED Retrofit Lamp Reference Design Kit

**Philips Lumileds to showcase innovative new LED reference design at LIGHTFAIR International 2011, based on Marvell's 88EM8081 Digital Flyback LED Controller**

SANTA CLARA, Calif., May 16, 2011 /PRNewswire/ -- Marvell (Nasdaq: MRVL), a worldwide leader in integrated silicon solutions, today announced the availability of a highly optimized, manufacturing-ready 40 watt equivalent LED lamp reference design kit. The reference design with Philips Lumileds is for a 40 watt equivalent LED light bulb based on the Marvell® [88EM8081 Digital Flyback PFC Controller](#) with patented adaptive control-loop design and an innovative Digital Signal Processing (DSP) solution, and the newly announced LUXEON A LED.

(Logo: <https://photos.prnewswire.com/prnh/20100719/SF36559LOGO-b>)

These turnkey LED solutions have undergone rigorous pre-testing, a process that typically takes OEMs four-to-six months, significantly reducing lighting manufacturers time-to-market. The designs also meet critical environmental and regulatory specifications, as well as safety requirements.

"Building high performance and cost effective retrofit light bulbs requires intimate system knowledge to optimize the characteristics of the system design. Marvell's driver expertise coupled with the latest LUXEON LEDs yields a highly quality, high performance go to market bulb," said Ray Chockof Philips Lumileds. "To capture critical LED market share it's imperative that customers can quickly reach mass-production and recognize cost savings that can be passed on to the end user. Through our engineering teams' close collaboration, we can now offer a fully optimized reference design that enables customers to quickly bring high quality, energy-efficient retrofit bulbs to the consumer and commercial markets."

"Our newest dual-string smart LED single chip, the 88EM8081, builds on Marvell's extensive heritage in low-power, energy-efficient solutions," said Kishore Manghnani, vice president of Green Technology Products Group at Marvell. "We're pleased to work with a company like Philips Lumileds that shares our commitment to environmentally-friendly silicon solutions. Through Marvell's wide-ranging IP portfolios and deep engineering acumen, OEM and ODM customers can quickly get to market with superior solutions that are as easy on consumers' wallets as they are on the Earth."

For more information about Marvell's LED reference designs, visit [www.marvell.com/green-technology](http://www.marvell.com/green-technology). LUXEON LEDs are available from Future Lighting Solutions, [www.futurelightingsolutions.com](http://www.futurelightingsolutions.com).

## Reference Design Details

The A19 40 watt equivalent LED lamp reference design uses the Marvell 88EM8081 Digital Flyback LED Controller and LUXEON A LEDs. The lamp is designed to consume 6.5W power to deliver 475lm at 3,000K CCT with color rendering indicator (CRI) great than 80. The LED reference design works with universal AC voltage input with 0.99 power factor and under 10 percent total harmonic distortion.

## About Philips Lumileds

Philips Lumileds is a leading provider of LEDs for illumination solutions. The company's leading quality of light, light output, efficacy and thermal management are direct results of the ongoing commitment to advancing solid-state lighting technology and enabling lighting solutions that are more environmentally friendly, help reduce CO2 emissions and reduce the need for power plant expansion. Philips Lumileds' LUXEON LEDs are enabling new solutions for shop, outdoor, office, school, and home lighting applications. More information about the company's LUXEON LED products and solid-state lighting technologies can be found at [www.philipslumileds.com](http://www.philipslumileds.com).

## 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](http://Marvell.com).

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