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Marvell Announces New Optimized LED Retrofit Lamp Reference Designs, Featuring Cree LEDs, Primed for Mass Production

Marvell's new 40 watt equivalent A-Lamp and 100 watt equivalent PAR LED lamp reference design kits to deliver faster time-to-market and cost benefits for lighting OEMs and ODMs

SANTA CLARA, Calif., May 16, 2011 /PRNewswire/ -- Marvell (Nasdaq: MRVL), a worldwide leader in integrated silicon solutions today announced the first mass manufacturing-ready 40 and 100 watt equivalent reference LED retrofit lamp designs that enable OEMs to reduce time-to-market while delivering the highest performance at the lowest cost. Benefitting from rigorous pre-testing, a process that typically takes OEMs four-to-six months, these designs also meet critical environmental and regulatory specifications, as well as safety requirements.

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

"Cree is committed to driving the LED lighting revolution," said Mike Watson, Senior Director of Marketing and Applications at Cree. "The Marvell designs deliver excellent overall system performance with just four lighting-class XLamp XP-E High Efficiency White LEDs in the 40 watt equivalent A19 design and just one XLamp MT-G in the 100 watt equivalent PAR38 reference design. This efficient use of Cree LEDs, combined with Marvell's novel Digital Flyback LED Controller, can reduce overall system cost and accelerate the adoption of LED lighting."

"Energy efficiency has long been a crucial focus at Marvell; we've been delivering bleeding-edge low-power solutions to various markets for more than a decade," said Kishore Manghnani, vice president of Green Technology Products Group at Marvell. "We understand the inherent challenges in designing the most efficient light bulb and are proud to support an industry leader like Cree to deliver a turnkey, energy saving solution for lighting manufacturers. I am confident we can deliver unparalleled, ecologically friendly solutions that will help combat unneeded energy waste."

Key Reference Design Highlights

The jointly-developed 40 and 100 watt equivalent LED lamp reference designs are based on Cree's XLamp XP-E and MT-G LED components respectively and Marvell's [88EM8081 Digital Flyback PFC Controller](#), with patented adaptive control-loop design and an innovative Digital Signal Processing (DSP) solution. Built on industry-leading technology, these new

reference designs enable OEMs to recognize superior performance with the highest color consistency while reducing the bill of materials to lower overall system costs.

For example, the A19 40 watt equivalent LED lamp reference design only consumes 7.5W power to deliver 475lm at 3,000K CCT. Whereas, the PAR38 100 watt equivalent LED lamp reference design consumes 23.5W power to deliver 3700 CBCP (center beam candle power) with 27 BA (beaming angle) at 3000K CCT. Also, the 40 and 100 watt equivalent LED lamp reference designs both delivers 0.99 power factor and under 10 percent total harmonic distortion.

Marvell will highlight its technology from May 15 – 19 in Cree's booth (#1925 in the Pennsylvania Convention Center) at Lightfair International 2011. For more information about Marvell's LED reference designs, visit www.marvell.com/green-technology.

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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