Lattice Semiconductor and Helion Demonstrate New FPGA-Based Camera Design Solutions at SPIE Photonics West 2014

January 29, 2014

Companies to Demonstrate How Low-Cost, Low-Density FPGAs Can Help Easily Accelerate Advanced Camera Designs

HILLSBORO, OR -- (Marketwired) -- 01/29/14 -- Lattice Semiconductor Corp.(NASDAQ: LSCC) and Helion GmbH today announced they will demonstrate several new FPGA-based camera design solutions at SPIE Photonics West, Booth 4136, in San Francisco's Moscone Center, February 4-6, 2014. Show attendees can see firsthand how the world's smallest, lowest-cost-per I/O programmable devices are enabling new HD quality camera solutions for industrial and healthcare markets.

Lattice and Helion will showcase the LatticeECP3™ FPGA HDR-60 Camera Development Kit and Helion's IONOS Image Signal Processing IP as a base platform and demonstrate megapixel and HD solutions using Sony IMX104 and IMX136 image sensors and an On Semiconductor VITA 1300 global shutter sensor.

The LatticeECP3 FPGA will interface directly to a variety of HD sensors, process the image for intelligent analytics and output the video through its high-speed I/O or through a combination of its integrated SERDES channels, making the solution very compelling for machine vision and factory automation applications.

"Lattice's low-cost, low-power, small-footprint FPGAs are ideally suited to implement various functions in a camera signal chain and allow us to support a number of camera applications," said Kambiz Khalilian, strategic marketing manager for Industrial & Automotive segments at Lattice. "With key technology partners, such as Helion, and our unique small-form factor FPGA programmability, our customers have a programmable platform they can use to quickly bring their advance camera solutions to market."

Lattice and Helion experts will also demonstrate CSI-2 solutions showcasing the HDR-60 camera development kit's capabilities with LatticeECP3 device for supporting bridging solutions using MIPI the Mobile Industry Processor Interface increasingly being used by system architects and design engineers. Other demonstrations will showcase HDR-60 based auto focus and liquid lens solutions from Varioptics for industrial automation applications.

SPIE Photonics West
SPIE Photonics West 2014 runs from February 4 to 6. It is the essential photonics and laser event with more than 1,240 companies exhibiting in 2014. New Imaging Technologies is exhibiting at the SPIE Photonics West Exhibition 2014 in the Moscone Center in San Francisco at Booth 4136, Helion Booth.

About Helion GmbH
Located in Duisburg, Germany, Helion GmbH offers a wide variety of engineering and consulting services in the field of CMOS image sensor technology and TFT display systems. Based on 15 years of practical experience in research and camera development, Helion offers a wide variety of services to make developments easy, fast and flexible for camera manufacturers.

About Lattice Semiconductor
Lattice Semiconductor (NASDAQ: LSCC) is the world's leading provider of ultra-low-power programmable IC solutions for makers of smartphones, mobile handheld devices, small-cell networking equipment, industrial control, automotive infotainment, and much more. With more than 1 billion units sold over the past 10 years, Lattice ships more FPGAs, CPLDs and Power Management solutions than any other programmable solutions vendor. For more information, visit www.latticesemi.com. You can also follow us via Twitter, Facebook, or RSS.

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