



Lattice Semiconductor Releases New Embedded Vision Development Kit Targeted for Mobile-Influenced Applications at the Edge

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Modular Platform Enables Flexible Connectivity and Energy Efficient Image Processing for Robotics, Drones, ADAS, Smart Surveillance and AR/VR Systems

- Stackable boards based on Lattice's CrossLink™ pASSP™, ECP5™ FPGA, and Si1136 ASSP device
- All-inclusive kit with stereo vision support, and dual MIPI® CSI-2 to 1080p HDMI® demo
- Optimized for low power, low cost, embedded vision applications in Industrial, Automotive, and Consumer markets

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PORTLAND, Ore.--(BUSINESS WIRE)--May 1, 2017-- [Lattice Semiconductor Corporation](#) (NASDAQ: LSCC), the leading provider of customizable smart connectivity solutions, today announced the availability of its Embedded Vision Development Kit, the first-of-a-kind development kit optimized for mobile-influenced system designs that require flexible, low cost, and low power image processing architectures. By leveraging a mix of Lattice's FPGA, ASSP and programmable ASSP (pASSP) products in a single, modular platform, this unique solution provides the right balance of flexibility and energy efficiency required for a variety of embedded vision applications in the industrial, automotive and consumer markets.

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The new Embedded Vision Development Kit takes advantage of the company's smart connectivity and acceleration product lines, equipping customers with a comprehensive, integrated solution for developing designs and enabling faster time-to-market. By combining the [CrossLink](#) pASSP mobile bridging device, [ECP5](#) low power, small form factor FPGA, along with its high-bandwidth, high resolution [HDMI](#) ASSP, Lattice is offering an innovative solution that accelerates development of intelligent, vision-enabled devices at the edge.

To enable and realize the true value of IoT, edge intelligence, which pushes processing for data intensive and processing applications away from the core to the edge of the network, continues to expand according to [IDC](#). The market analyst firm has forecasted intelligent systems revenue to exceed \$2.2 trillion in 2020.¹

Lattice's Embedded Vision Development Kit is optimized for mobile-influenced system designs that require flexible, low cost, and low power image processing architectures. (Photo: Business Wire)

"As intelligence at the edge continues to increase, more applications will require integrated embedded vision technology," said Deepak Boppana, director, product

marketing at Lattice Semiconductor. "Our Embedded Vision Development Kit accelerates the adoption of mobile-influenced technology for applications including machine vision, smart surveillance cameras, robotics, AR/VR, drones and Advanced Driver Assistance Systems (ADAS)."

The CrossLink input board includes dual-camera HD image sensors supporting the MIPI CSI-2 interface, eliminating the need for external video sources. The ECP5 base board enables low-power pre/post processing and includes support for HD image signal processing (ISP) intellectual property (IP) from [Helion Vision](#). Also included is a [NanoVesta](#) connector to support external image sensor video inputs. The HDMI output board based on the [Si1136](#) non-HDCP version enables connectivity to standard HDMI displays.

The Embedded Vision Development Kit is available now from Lattice and its distributors. To learn more, visit www.latticesemi.com/evdkit. Lattice's

complete product portfolio for Embedded Vision Solutions can be found at www.latticesemi.com/EVsolutions.

Lattice at the Embedded Vision Summit 2017 – Santa Clara, CA

Lattice will be showcasing its new Embedded Vision Development Kit, along with other machine learning demos, including 3D depth map generation, object detection and binarized neural network implementation at booth #209 at the Santa Clara Convention Center from Monday, May 1, 2017 - Tuesday, May 2, 2017.

¹ Source: [IDC Press Release](#), "Increasing Edge Intelligence and Connectivity to Drive Intelligent Systems Volumes through 2020; IDC Forecasts Intelligent Systems Revenue to Exceed \$2.2 Trillion In 2020," May 17, 2016.

About Lattice Semiconductor

Lattice Semiconductor (NASDAQ: LSCC) provides smart connectivity solutions powered by our low power FPGA, video ASSP, 60 GHz millimeter wave, and IP products to the consumer, communications, industrial, computing, and automotive markets worldwide. Our unwavering commitment to our customers enables them to accelerate their innovation, creating an ever better and more connected world.

For more information about Lattice please visit www.latticesemi.com. You can also follow us via [LinkedIn](#), [Twitter](#), [Facebook](#), [YouTube](#) or [RSS](#).

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