



Lattice Semiconductor and MediaTek Deliver the World's Most Power Efficient 4K Video Solution Over USB Type-C

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Reference Designs Address Growing Smartphone and Accessory Markets

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- Lattice Semiconductor and MediaTek release joint reference designs that create power efficient solutions to drive 4K over a USB Type-C connector
- Enables UHD video output on smartphones for a console quality gaming experience and home entertainment on the latest 4K TVs

PORTLAND, Ore.--(BUSINESS WIRE)--Mar. 14, 2016-- [Lattice Semiconductor Corporation](#) (NASDAQ:LSCC), the leading provider of customizable smart connectivity solutions, and MediaTek today announced the joint release of power-efficient reference designs that drive 4K UHD over a USB Type-C connector. Lattice's USB Type-C port controllers and MHL[®] transceivers can easily be paired with MediaTek's Helio™ X20, the world's first mobile processor with Tri-Cluster™ CPU architecture and ten processing cores (Deca-core). These solutions highlight Lattice and MediaTek's continued collaboration to deliver next-generation, low power video reference designs specifically for the growing 4K UHD market.

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Consumers want to lengthen the battery lives of their smartphones and other mobile devices, so delivering high performance features with low power consumption is critical. For smartphones, Lattice's [Si18348](#) MHL transmitter is used to seamlessly connect to MediaTek's Helio X20 to drive 4K video, while the [Si17033](#) port controller sets up MHL Alt Mode on USB Type-C as well as Power Data Objects (PDOs) required to quickly charge the phone. The Si17033 port controller also integrates the required switches to support simultaneous MHL and USB3.1 connectivity over the reversible Type-C connector. For docks and accessories, Lattice's [Si17013](#) and the [Si19396](#) port controllers are used to establish MHL Alt Mode and convert MHL to HDMI transmission respectively to connect to the billions of displays worldwide.

"MediaTek is a valuable partner and together we're enabling 4K video output on smartphones so users can experience console quality gaming and home entertainment on the latest 4K UHD TVs," said C.H. Chee, senior director of consumer marketing at Lattice Semiconductor. "We're delivering the world's most power-efficient 4K video out solution to make these connectivity use cases a reality without sacrificing battery life, so consumers can have the best of both worlds."

About Lattice Semiconductor

Lattice Semiconductor (NASDAQ:LSCC) is a global leader in smart and connected solutions. Our customers rely on our ultra-low power, small form-factor Programmable Logic Devices, standards-driven video connectivity ASSPs, high-bandwidth 60 GHz millimeter wave wireless

Enables UHD video output on smartphones for a console quality gaming experience and home entertainment on the latest 4K TVs. (Graphic: Business Wire)

devices, and intellectual property to quickly develop faster, sleeker, and more responsive devices for the Consumer, Communications, and Industrial

markets.

Lattice was founded in 1983 and is headquartered in Portland, Oregon. For more information, visit www.latticesemi.com. You can also follow us via [LinkedIn](#), [Twitter](#), [Facebook](#), [YouTube](#) or [RSS](#).

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