



## Lattice Releases World's First superMHL Solutions for USB Type-C to Deliver 4K 60fps Video with Concurrent USB 3.1 Data

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- The world's first superMHL products to deliver 4K 60fps RGB/4:4:4 video with concurrent USB 3.1 Gen 1 or Gen 2 data over the new USB Type-C connector are now available.
- This transmitter and receiver pair can deliver and receive 4K 60fps over a single lane, enabling a PC experience with USB Type-C devices.

PORTLAND, Ore.--(BUSINESS WIRE)--Aug. 3, 2015-- Lattice Semiconductor Corporation (NASDAQ:LSCC), the leading provider of customizable smart connectivity solutions, today announced the world's first superMHL™ products for USB Type-C to deliver 4K 60fps RGB/4:4:4 video with concurrent USB 3.1 Gen 1 or Gen 2 data. The Sil8630 and Sil9396 are a low-power superMHL transmitter and receiver pair that can deliver and receive 4K 60fps over a single lane, enabling a PC experience with USB Type-C devices.

This Smart News Release features multimedia. View the full release here: <http://www.businesswire.com/news/home/20150803005485/en/>

### Sil8630 – Mobile/PC Market

The Sil8630 transmitter is able to seamlessly interface with HDMI® 2.0 transmitters already integrated into the Application Processors used in the latest phones, tablets and notebooks. Since this part has an MHL switch, it enables a direct interface with a USB 2.0-enabled Type-C connector without the need for additional high-speed switches. The Sil8630, combined with the [Si7033](#), offers a complete solution to deliver 4K 60 video with concurrent USB 3.1 Gen 1 data.

### Sil9396 – Mobile/PC Accessories and Displays

The Sil9396 receiver is ideal for MHL adapters and docks. When paired with the [Sil7023](#) or [Sil7033](#), MHL accessories can be designed to connect USB Type-C mobile and PC products to HDMI displays and USB devices such as keyboards, mice and external storage. The Sil9396 receiver can also be used in monitors, projectors and TVs to connect to MHL and superMHL sources, including mobile and PC devices with the USB Type-C connector.

USB Type-C products using these solutions will be able to connect to more than 750 million legacy MHL and future superMHL TVs, monitors, AVRs, Blu-ray Disc™ players, projectors, set-top boxes and automotive products.

"Our superMHL transmitters and receivers offer the lowest power, quick time to market, and the only solution to offer concurrent USB 3.1 data with 4K60 UHD video to address the growing number of productivity applications for mobile devices," said Abdullah Raouf, senior marketing manager at Lattice Semiconductor. "Other video solutions require four lanes to deliver 4K 60fps, which inhibits concurrent 4K video with USB 3.1 data."

The [Sil8630](#) and [Sil9396](#) devices support:

- UHD 4K 60fps 4:4:4 over a single lane
- Improved Electromagnetic Interference (EMI) features
- Concurrent USB 3.1 (Gen 1 or Gen 2) data
- Seamless integration with USB Type-C products
- Latest superMHL features (BT.2020, High Dynamic Range, Object Audio, HDCP 2.2)
- Legacy connectivity to MHL1, 2, and 3 enabled products

Evaluation kits are available now. For more information on MHL Alternate Mode ("Alt Mode") for the USB Type-C specification, visit <http://www.mhltech.org/usdtype-c.aspx>.

### About Lattice Semiconductor

Lattice Semiconductor (NASDAQ: LSCC) is the global leader in smart connectivity solutions, providing market leading intellectual property and low-power, small form-factor devices that enable more than 8,000 global customers to quickly deliver innovative and differentiated cost and power efficient products. The Company's broad end-market exposure extends from consumer electronics to industrial equipment, communications infrastructure and licensing.

Lattice was founded in 1983 and is headquartered in Portland, Oregon. In March 2015, the Company acquired Silicon Image, which is a leader in setting industry standards including the highly successful HDMI®, DVI™, MHL® and WirelessHD® standards.

For more information, visit [www.latticesemi.com](http://www.latticesemi.com). You can also follow us via [LinkedIn](#), [Twitter](#), [Facebook](#), or [RSS](#).

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