



Huawei Boosts Smartphone 4G Reliability and Performance with Lattice Semiconductor Tunable Antenna Solution

July 7, 2015

Huawei's Kirin 930 smartphone platform achieves automatic 4G RF optimization with the smart antenna switching functionality of the Lattice iCE40 LM FPGA

[Click-to-Tweet](#)

- Lattice's low latency tunable antenna controller allows Huawei's Multi-Scenario Adaptive RF solution to automatically optimize 4G reception for various RF conditions.
- Lattice tunable antenna controller helps phone manufacturers achieve optimal reception quality when designing devices with metal exteriors.
- The iCE40 LM family delivers unsurpassed integration of important functions to enable designers of mobile consumer devices to implement compelling features where solution size, lowest power, and high volume pricing are of upmost importance.

PORTLAND, Ore.--(BUSINESS WIRE)--Jul. 7, 2015-- Lattice Semiconductor Corporation (NASDAQ:LSCC), a leading provider of programmable smart connectivity solutions, today announced its new iCE40 LM FPGA is integrated in the new Huawei P8 flagship smartphone to enable optimal 4G reception. Huawei will continue to use Lattice's low latency, tunable antenna controller in other devices using its Kirin 930 chipset.

The Signal+ technology in Huawei's P8 uses the iCE40 LM FPGA to automatically optimize 4G reception for multiple RF conditions. The resulting antenna solution is 80 times faster than other options, providing reception quality that is 40 percent better than Huawei's competitors in the poorly covered or congested RF environments frequently found in both high-density cities and rural areas with limited reception.

Huawei put considerable effort into designing the P8's attractive one-piece aluminum body, and the Lattice tunable antenna controller helps it achieve optimal RF performance and overcome the inherent RF quality issues of metal casings. The iCE40 LM device performs as the bridge between the Kirin 930 application processor and tuner integrated circuit to minimize latency during an antenna switch, also saving system power.

"We designed the iCE40 LM to provide our partners ultimate flexibility when designing consumer devices where space is at a premium," said Subra Chandramouli, director of marketing for Lattice. "Huawei shows that users do not have to sacrifice functionality when choosing a beautiful device."

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. You can also follow us via [LinkedIn](#), [Twitter](#), [Facebook](#), or [RSS](#).

Lattice Semiconductor Corporation, Lattice Semiconductor (& design), L (& design), iCE40 LM, HDMI, DVI, MHL, Wireless HD and specific product designations are either registered trademarks or trademarks of Lattice Semiconductor Corporation or its subsidiaries in the United States and/or other countries.

GENERAL NOTICE: Other product names used in this publication are for identification purposes only and may be trademarks of their respective holders.

View source version on businesswire.com: <http://www.businesswire.com/news/home/20150707005133/en/>

Source: Lattice Semiconductor Corporation

Lattice Semiconductor
Sherrie Gutierrez, 408-616-4017
sherrie.gutierrez@latticesemi.com

or
Voce Communications
Bob Nelson, 408-738-7889
LatticeTeam@vocecomm.com