ZTE Chooses Lattice Semiconductor for Feature Differentiation and Integration on Star 2 Smartphone

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Phone giant uses smart programmability of iCE40 LM FPGA to implement key features in its latest flagship smartphone

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- ZTE adopts Lattice's programmable platform to implement infrared remote control, breathing LED, and other sensor control functions.
- Lattice's always-on sensor hub saves power while enabling background apps and sleep mode features.
- Lattice's infrared solution provides better reliability and performance over software-based solution.
- iCE40 LM devices are highly integrated with built-in hardened IPs and LED drivers to allow manufacturers to incorporate unique features while using less power than their competitors.

PORTLAND, Ore.--(BUSINESS WIRE)--Jun. 23, 2015-- Lattice Semiconductor Corporation (NASDAQ: LSCC), the leading provider of customizable smart connectivity solutions, today announced its iCE40 LM FPGA has been integrated in the recently released ZTE Star 2 flagship smartphone to perform IR remote control, and sensor hub functions.

From wearables to smartphones, the iCE40 LM family of devices offer exceptionally low power consumption and extremely small footprint – and have been specifically designed to enable manufacturers of mobile consumer products to implement top of line features fast and efficiently, without sacrificing performance.

The ultra low power iCE40 LM device allowed ZTE to set the Star 2 apart by implementing critical always-on functions. In the crucial battle to reduce energy consumption, it can recognize various gestures and activities while the application processor remains inactive, significantly reducing power usage. Minimizing the application processor usage allows ZTE to maximize the battery life of the Star 2.

"Lattice's programmable solution allows ZTE to achieve high performance while meeting low power targets, making it possible to implement key differentiating features in our smartphones," said Ling Xiaobing, product manager of ZTE Corporation. "The solution's flexibility makes it the right choice for fast implementation of its features."

ZTE considered a software-based solution for IR remote control, but integrated hard IP found in Lattice's iCE40 LM offered better reliability and performance.

ZTE was able to individually decide which functions to incorporate, targeting the features of each model, while simultaneously saving board space, cost and power.

"Lattice's low power, small size, low cost iCE40™ FPGAs are widely used in smartphone, tablet and IoT devices," said Subra Chandramouli, director of marketing for Lattice. "The ZTE Star 2 shows how customers can provide flexible integration, add differentiation, boost performance, save system power and reduce BOM cost."

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.

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