Lattice Semiconductor Announces Industry's Lowest Power "Always Listening" Voice Detection and Recognition Solutions for Mobile Devices

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Programmable human voice detection and command recognition solutions as small as 2.1 mm x 2.1 mm with power consumption about two-thirds less than that of competitors

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- -Enables system power savings by ensuring processing sub-systems remain off until a verified human voice is recognized
- -Improves user experience by activating exclusively to owner's voice and providing near zero latency response to specific, high use commands at much lower power consumption
- -Incredibly small solutions (36-ball, 0.35 mm pitch, 2.1 mm x 2.1 mm) can be used in even the smallest mobile and IoT devices

HILLSBORO, OR December 15, 2014 - Lattice Semiconductor Corporation (NASDAQ: LSCC), the leader in ultra-low power, small form factor, customizable solutions, today announced the availability of human voice detection and command recognition IP for smartphones and other handhelds for the growing Internet of Things (IoT) category of devices. These IPs are implemented in the iCE40™ family of mobile FPGAs, enabling manufacturers to improve the user experience of their mobile devices with new voice activation capabilities and by maximizing battery life by minimizing false wake-up triggers to the processor.

"Accurate and reliable voice detection and command recognition is important for today's smartphones and other mobile devices, but sound processing with a power hungry processor quickly drains batteries when random sounds are misinterpreted as human speech," said Joy Wrigley, Product Line Manager, Lattice Semiconductor. "Further, user experience is diminished when devices do not properly capture commands. Lattice's low power, near-zero latency voice solutions alleviate these issues so manufacturers can improve the reliability of their devices' voice activated functions while extending battery life."

The rapidly expanding number of IoT devices is projected to reach 26 billion by 2020 according to the analyst firm Gartner. Lattice's new solutions are ideal for a growing number of these IoT devices, which must minimize power consumption while maximizing sensor reliability and performance.

Silicon samples and both voice IP are available immediately by contacting Lattice directly or going to the Latticesemi.com/voice webpage.

About Lattice Semiconductor

Lattice Semiconductor (NASDAQ: LSCC) is the leader in low power, small form factor, low cost, customizable solutions for a quickly changing connected world. From making smart consumer devices smarter, to enabling intelligent industrial automation, or connecting anything to everything in communications, electronics manufacturers around the world use Lattice's solutions for fast time to market, product innovation, and competitive differentiation. For more information, visit www.latticesemi.com. You can also follow us via LinkedIn, Twitter, Facebook, or RSS.

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