Cypress Qualifies Bluetooth Low Energy Radio to Integrate with PSoC and Capacitive Touch Technologies

Cypress Semiconductor

Enables single-chip solutions to address a wide range of applications for growing markets, including the Internet of Things and Human Interface Devices

SAN JOSE, Calif., July 15, 2013 – Cypress Semiconductor has announced it has qualified a Bluetooth Low Energy (BLE) radio to integrate with its programmable platforms. Cypress will develop single-chip solutions combining this radio with its PSoC programmable system-on-chip, industry-leading CapSense capacitive sensing and TrueTouch touchscreen technologies. These combinations will enable Cypress to quickly address emerging Bluetooth Smart applications such as PC peripherals, remote controls, wearable electronics and portable medical devices.

“Adding a BLE radio to our programmable platforms allows Cypress to explore an intriguing variety of new solutions,” said Hassane El-Khoury, Executive Vice President of the Programmable Systems Division at Cypress. “For example, pairing this efficient wireless connectivity with the programmable analog of PSoC delivers unparalleled flexibility for designers of wearable electronics and other emerging applications.

“Additionally in the wearable market, BLE is a complementary technology for our TrueTouch products, providing designers with a true single-chip solution that integrates capacitive sensing, an analog front-end for biometrics sensors, and now BLE for power savings and smaller design footprints,” said El-Khoury.

Cypress has qualified the BLE radio in its S8 130-nanometer flash-based SONOS (Silicon Oxide Nitride Oxide Silicon) process technology, which is the primary manufacturing technology for PSoC, CapSense and TrueTouch products. SONOS is compatible with standard CMOS technologies and offers numerous advantages, including high endurance, low power, and radiation hardness. The technology enables Cypress’s BLE radio to operate in the industrial temperature range of -40 to +85 degrees C.

“BLE is quickly gaining adoption in a broad range of human interface devices,” said Badri Kothandaraman, EVP of Data Communications Division. “Its low power consumption extends system battery life and eliminates the need for an external dongle, which has been a requirement in systems based on proprietary 2.4-GHz technology. The integration of this wireless connectivity and touch functionality enables the development of cost-effective, compact and sleek designs.”

Cypress expects to sample its first integrated BLE device in the first quarter of

2014.

For more information, visit www.cypress.com [1].

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