March 14, 2017

Cypress Expands its Leadership in Wireless Connectivity with New 802.11ac Solutions that Pave the Way for Mass Adoption in IoT Devices

New WICED®-based Wi-Fi® MCU and Combo Solutions Streamline Integration of High-performance Wi-Fi into IoT Devices for Better Range, Lower Power and Crisp Audio and Video

NUREMBERG, Germany, March 14, 2017 /PRNewswire/ -- EMBEDDED WORLD Cypress Semiconductor Corp. (NASDAQ: CY), the leader in wireless connectivity solutions for the IoT, today announced two new wireless solutions that deliver advanced coexistence and robust connectivity combining 802.11ac high-performance Wi-Fi®, Bluetooth® and Bluetooth Low Energy (BLE) for IoT applications. The 802.11ac solutions use high-speed transmissions to enable IoT devices with faster downloads and better range, as well as lower power consumption by quickly exploiting deep sleep modes. The solutions are supported in Cypress' all-inclusive, turnkey, WICED® Studio IoT development platform, which streamlines the integration of wireless technologies for IoT developers.

Wi-Fi networks powered by 802.11ac simultaneously deliver low-latency and high-speed with secure device authentication, making them the ideal wireless technology for connecting things directly to the cloud. The new highly integrated Cypress CYW43455 advanced multi-radio wireless solution incorporates high-performance 802.11ac, low-power Bluetooth 4.2 and BLE. This combo solution is ideal for smart home products such as security cameras that require high-speed Wi-Fi combined with low power BLE connections for motion sensing.

The Cypress CYW54907 802.11ac microcontroller (MCU) integrates a high-performance 320-MHz ARM® Cortex®-R4 application processor and an advanced 802.11ac subsystem. This powerful dual-band solution offers bridging for IoT gateways and synchronized streaming audio solutions. Both solutions feature a dual-band 2.4- and 5-GHz radio with 20-, 40- and 80-MHz channels with up to 433 Mbps performance. More information on Cypress' WICED 802.11ac solutions is available at http://www.cypress.com/802.11ac.

"Wi-Fi is the backbone of Internet connectivity, and 802.11ac high-performance Wi-Fi has become the standard for enterprise infrastructure and home gateways," said Michael Hogan, Vice President of the IoT Business Unit at Cypress. "802.11ac is now beginning to ramp in IoT devices, helping them meet coexistence challenges in sharing the crowded 2.4-GHz band with Bluetooth devices, delivering cleaner air for audio, video and voice control data, as well as improved network performance for multi-user environments."

Customer and Partner Quotes

James Stansberry, Senior Vice President of IoT Business Team at Samsung Strategy and Innovation Center (SSIC):
"The industrial IoT will be centered around high-density deployments with nodes rapidly accessing the cloud through high-performance networks. Cypress' CYW43455 802.11ac Wi-Fi combo is a key component to the ARTIK™ 710 IoT gateway platform, enabling secure, reliable enterprise network connections with low latency via local intelligent management and into a wide array of cloud interactions."

Mehul Udani, general manager, connectivity solutions, Murata:
"The Cypress WICED MCU has been a very popular solution for our IoT customers. Adding 802.11ac to the WICED combo and MCU offering will bring consumer products to the next level of security and performance for home monitoring and audio entertainment."

Hugo Fiennes, CEO and co-founder, Electric Imp:
"Manufacturers are definitely investing in industrial IoT (IIoT) for business advantage. IIoT applications rely on hardware that provides fast, reliable connectivity in often extraordinarily high-density applications — exactly what Cypress delivers with their 802.11ac silicon. Combining Cypress hardware with Electric Imp's embedded OS and secure cloud platform helps a wide range of companies deliver on the promise of IIoT across a wide range of applications."

Cypress at Embedded World 2017

Cypress, the leader in wireless solutions for the IoT, is demonstrating its full portfolio of IoT solutions for automotive, consumer and industrial markets here at the Embedded World trade show in hall 4A, stand 148 of the Nuremberg Exhibition Center from March 14-16.

About Cypress WICED Studio IoT Development Platform

The Cypress WICED Studio IoT development platform features an integrated and interoperable wireless software development kit (SDK). The SDK includes rigorously tested Wi-Fi and Bluetooth protocol stacks, as well as simplified application programming interfaces that free developers from needing to learn complex wireless technologies. In line with the IoT trend toward dual-mode connectivity, the SDK supports Cypress' Wi-Fi and Bluetooth combination solutions and its Bluetooth and Bluetooth Low Energy devices. The SDK enables cloud connectivity in minutes with its robust libraries that uniquely integrate popular cloud services such as Amazon Web Services, IBM Bluemix, Alibaba Cloud, and Microsoft Azure, along with services from private cloud partners.

Cypress's WICED Studio connectivity suite is microcontroller (MCU)-agnostic and provides ready support for a variety of third-party MCUs to address the needs of complex IoT applications. The platform also enables cost efficient solutions for simple IoT applications by integrating MCU functionality into the connectivity device. Wi-Fi and Bluetooth protocol stacks can run transparently on a host MCU or in embedded mode, allowing for flexible platform architectures with common firmware. More information on Cypress' WICED platform, ecosystem and community is available at http://www.cypress.com/wicedcommunity.

Availability

The CYW43455 and CYW54907 802.11ac solutions are currently sampling to lead customers. Full production is expected early in May 2017.

Follow Cypress Online

Join the Cypress Developer Community, read our Core & Code blog, follow us on Twitter, Facebook and LinkedIn, and watch Cypress videos on our Video Library or YouTube.

About Cypress

Founded in 1982, Cypress is the leader in advanced embedded system solutions for the world's most innovative automotive, industrial, home automation and appliances, consumer electronics and medical products. Cypress's programmable systems-on-chip, general-purpose microcontrollers, analog ICs, wireless and USB-based connectivity solutions and reliable, high-performance memories help engineers design differentiated products and get them to market first. Cypress is committed to providing customers with the best support and engineering resources on the planet enabling innovators and out-of-the-box thinkers to disrupt markets and create new product categories in record time. To learn more, go to www.cypress.com.

Cypress, the Cypress logo, WICED, PSoC and CapSense are registered trademarks of Cypress Semiconductor Corp. All other trademarks are property of their owners.

To view the original version on PR Newswire, visit:http://www.prnewswire.com/news-releases/cypress-expands-its-leadership-in-wireless-connectivity-with-new-80211ac-solutions-that-pave-the-way-for-mass-adoption-in-iot-devices-300423081.html

SOURCE Cypress Semiconductor Corp.