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Raspberry Pi Selects Cypress' Wireless Connectivity Solution for Industry-Leading IoT Boards

Cypress Wi-Fi® and Bluetooth® Combo Solution Delivers Robust Connectivity for Developers on New Raspberry Pi Zero W Board and Builds on Raspberry Pi 3 Adoption

SAN JOSE, Calif., March 28, 2017 /PRNewswire/ -- Cypress Semiconductor Corp. (NASDAQ: CY), the leader in wireless connectivity solutions for the Internet of Things, today announced its Wi-Fi® and Bluetooth® combo solution delivers wireless connectivity for the new Raspberry Pi Zero W board for IoT applications. The Cypress CYW43438 combo solution provides robust 802.11n Wi-Fi for developers to connect their applications to the Internet, along with advanced coexistence algorithms enabling simultaneous Bluetooth 4.1 operations such as audio streaming and low-power Bluetooth Low Energy (BLE) connections to smartphones, sensors and other low-power devices. Raspberry Pi's original board with Wi-Fi and Bluetooth connectivity, the Raspberry Pi 3, also uses a Cypress wireless solution.



More information on the Raspberry Pi Zero W and ordering information is available at www.raspberrypi.org/products/pi-zero-w, and more information on Cypress' 802.11n and Bluetooth combo solutions is available at www.cypress.com/802.11n-wifi-bt.

"With Cypress' combo solution on board, Raspberry Pi Zero W allows designers to connect to the most pervasive Wi-Fi networks for infrastructure connections and offers Bluetooth to connect to smartphones and other low-power smart devices," said Eben Upton, CEO of Raspberry Pi Trading. "The highly integrated Cypress solution enabled us to offer our boards at the right price points for wide scale adoption by IoT developers, eliminating the need for them to purchase wireless dongles that can cost more than the boards themselves. The Zero W has earned positive reviews from developer engineers and makers alike."

"Raspberry Pi has grown to become the industry's leading developer and maker platform for IoT applications, and we are pleased to have Cypress' wireless contribute to that success," said Michael Hogan, Vice President of the IoT Business Unit at Cypress. "The Raspberry Pi 3 has shipped more than four million units to date, and we expect the new Raspberry Pi Zero W and future boards will encourage users from their diverse customer base in education, industrial and mass-market IoT to look at other Cypress solutions as well."

The Raspberry Pi Zero W features a 1GHz, single-core CPU, 512MB RAM, Mini-HDMI and Micro-USB ports, composite video and reset headers and a CSI camera connector, along with 802.11n wireless LAN and Bluetooth 4.1 wireless connectivity.

Cypress' CYW43438 combo solution integrates IEEE 802.11n Wi-Fi and Bluetooth in a single-chip solution to enable small-form-factor IoT designs. The solution provides up to 150 Mbps PHY data rates and coexistence management for advanced Wi-Fi and Bluetooth streaming applications. The combo solution is supported on Cypress' Wireless Internet Connectivity for

Embedded Devices (WICED[®]) Software Development Kit (SDK), which provides code examples, tools and development support.

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' 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>.

About Raspberry Pi Foundation

The Raspberry Pi Foundation works to put the power of digital making into the hands of people all over the world, so they are capable of understanding and shaping our increasingly digital world, able to solve the problems that matter to them, and equipped for the jobs of the future.

Raspberry Pi provides low-cost, high-performance computers that people use to learn, solve problems and have fun. They provide outreach and education to help more people access computing and digital making. They develop free resources to help people learn about computing and how to make things with computers, and train educators who can guide other people to learn. For more information, visit www.raspberrypi.org.

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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.

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