



Cypress Expands Collaboration With Arm to Deliver Full-Featured IoT Platform With Secure Device Management

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Cypress' PSoC[®] 6 MCU Combines PSA Secure Partition Management and WICED[®] Wi-Fi[®] Firmware to Support Arm[®] Pelion[™] IoT Platform

SAN JOSE, Calif.--(BUSINESS WIRE)--Oct. 17, 2018-- Cypress Semiconductor Corp. (NASDAQ: CY), the embedded solutions leader, announced that it has expanded its collaboration with Arm to enable secure, easy-to-use management of Internet of Things (IoT) edge nodes based on Cypress' leading compute and connectivity hardware. The solution integrates the Arm[®] Pelion[™] IoT Platform with Cypress' ultra-low power, dual-core PSoC[®] 6 microcontrollers (MCUs) and CYW4343W Wi-Fi[®] and Bluetooth[®] combo radios for robust wireless connectivity. PSoC 6 provides Arm v7-M hardware-based security that adheres to the highest level of device protection defined by the Arm Platform Security Architecture (PSA).

This press release features multimedia. View the full release here: <https://www.businesswire.com/news/home/20181017005272/en/>

Hardware Isolation within Cypress' PSoC[®] 6 MCU



Cypress and Arm are demonstrating hardware-secured onboarding and communication through the integration of the dual-core PSoC 6 MCU and Pelion IoT Platform in the Arm booth at Arm TechCon. The PSoC 6 MCU is running Arm's PSA-defined Secure Partition Manager to be supported in Arm Mbed OS version 5.11 open-source embedded operating system, which will be available this December. Developers can leverage the private key storage and hardware-accelerated cryptography in the PSoC 6 MCU for cryptographically-secured lifecycle management functions, such as over-the-air firmware updates, mutual authentication, and device attestation and revocation.

Pictured is a block diagram showing the hardware-based security in Cypress Semiconductor's PSoC 6 microcontroller for the IoT. (Graphic: Business Wire)

and general manager, IoT Cloud Services at Arm. "By partnering with companies such as Cypress, we are enabling a more secure environment from device-to-data."

"Cypress is making a strategic push to integrate security into our compute, connect and store portfolio for the IoT," said Sudhir Gopalswamy, Executive Vice President of Cypress' Microcontrollers and Connectivity Division. "Our continued collaboration with Arm is focused on delivering secure, easy-to-use solutions and is an important part of our strategy to enable IoT designers to quickly develop, deploy and manage secure IoT edge nodes."

About PSoC 6

PSoC 6 is the industry's lowest power, most flexible MCU with built-in Bluetooth Low Energy (BLE) wireless connectivity and integrated hardware-based security in a single device. The PSoC 6 architecture is built on ultra-low-power 40-nm process technology, and the MCUs feature low-power design techniques to extend battery life up to a full week for wearables. The dual-core Arm Cortex-M4 and Cortex-M0+ architecture lets designers optimize for power and performance simultaneously. Using its dual cores combined with configurable memory and peripheral protection units, the PSoC 6 MCU delivers the highest level of protection defined by the Platform Security Architecture (PSA) from Arm. Designers can use the MCU's software-defined peripherals to create custom analog front-ends (AFEs) or digital interfaces for innovative system components such as electronic-ink displays. The PSoC 6 MCU features the latest generation of Cypress' industry-leading CapSense[®] capacitive-sensing technology, enabling modern touch and gesture-based interfaces that are robust and reliable. Designers can find more information on the PSoC 6 MCU architecture at <http://www.cypress.com/PSoC6>.

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About Cypress

Cypress is the leader in advanced embedded system solutions for the world's most innovative automotive, industrial, smart home appliances, consumer electronics and medical products. Cypress' 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 development resources on the planet enabling them to disrupt markets by creating new product categories in record time. To learn more, go to www.cypress.com.

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