## New Product Announcement

# Now at Mouser: Cypress' CYW20719 SoC Supports Bluetooth Mesh Networking for Smart Home Applications

**June 28, 2018** – Mouser Electronics, Inc., the industry's leading New Product Introduction (NPI) distributor with the widest selection of semiconductors and electronic components, is now stocking the CYW20719 dual-mode *Bluetooth*® wireless microcontroller from Cypress Semiconductor. Optimized for Internet of Things (IoT) applications, the CYW20719 is an ultra-low-power microcontroller device that complies with Bluetooth core specification version 5.0 (with LE 2 Mbps optional feature) with support for mesh networking. Forged using an advanced 40nm CMOS low-power fabrication process, this system-on-chip (SoC) employs a high level of performance and integration to help reduce external components while minimizing the footprint and overall cost of the application.

The microcontroller subsystem of the Cypress CYW20719, available from Mouser Electronics, consists of a 96-MHz Arm® Cortex®-M4 microcontroller with floating point unit (FPU), 512 KBytes of RAM, 2 MBytes of ROM (containing the stack and drivers), and 1 MByte of probe-proof flash memory. The probe-proof flash, once programmed, not only prevents hackers from reprogramming the device to gain access to sensitive user data or payment information, but also inhibits competitors from doing a flash dump to reverse engineer the firmware IP. For additional security, the CYW20719 includes various security functions — such as ECDH, RSA, AES and SHA/MD5 hashing functions — as well as a hardware accelerator to ensure best-in-class encryption for Bluetooth.

The ultra-low-power radio in CYW20719 delivers a Bluetooth low energy (BLE) receive current (Rx) of 5.9 mA with sensitivity of -95.5 dBm and a transmit current (Tx) of 5.6 mA at 0 dBm. Ultra-low current consumption in this device enables extended battery life for a variety of wireless IoT devices, including wearables and fitness bands, home automation, medical devices, and proximity sensors.

The CYW20719 is supported by the CYW920719Q40EVB-01 evaluation kit and the Cypress Wireless Internet Connectivity for Embedded Devices (WICED®) Studio IoT development platform, which provides all the application programming interfaces, code snippets, and demo applications to accelerate the development process.

To learn more, visit www.mouser.com/cypress-cyw20719-soc.

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## About Mouser Electronics

Mouser Electronics, a Berkshire Hathaway company, is an award-winning, authorized semiconductor and electronic component distributor focused on rapid New Product Introductions from its manufacturing partners for electronic design engineers and buyers. The global distributor's website, Mouser.com, is available in multiple languages and currencies and features more than 5 million products from over 700 manufacturers. Mouser offers 23 support locations around the world to provide best-in-class customer service and ships globally to over 600,000 customers in more than 220 countries/territories from its 750,000 sq. ft. state-of-the-art facility south of Dallas, Texas. For more information, visit www.mouser.com.

## About Cypress Semiconductor

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.

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– 30 –

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