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New Product Announcement

Microchip's SAM R34 SiPs, Now at Mouser, Deliver Low-Power LoRa Solution for Edge Devices

December 20, 2018 – Mouser Electronics, Inc., the authorized global distributor with the newest semiconductors and electronic components, is now stocking the SAM R34 LoRa Sub-GHz system-in-package (SiP) family from Microchip Technology. Delivering industry-leading low-power performance for a wide range of Internet of Things (IoT) applications, the SAM R34 SiP family devices integrate a 32-bit microcontroller, software stack, and sub-GHz LoRa® transceiver in a small 6 mm × 6 mm package.

The Microchip SAM R34 LoRa sub-GHz SiPs, available from Mouser Electronics, incorporate a Microchip SAM L21 microcontroller based on a 32-bit Arm® Cortex®-M0+ core with up to 256 Kbytes of flash and 40 Kbytes of RAM. The onboard UHF transceiver supports LoRa and FSK modulation and covers frequencies from 137 MHz to 1020 MHz with maximum transmit power up to +20 dBm without external amplification. The SAM R34 family is supported by Microchip's LoRaWAN protocol stack and supports Class A and Class C end devices, as well as proprietary point-to-point connections.

The SiPs offer sleep modes as low as 790 nA, helping to extend battery life and conserve power consumption in smart devices. The SAM R34 SiP includes a USB interface, making it suitable for USB dongle applications or for software updates via USB. The SiPs are suitable for a variety of battery-powered and sensor-based connected applications, including smart agriculture, smart city devices, and tracking devices for supply chain management.

Mouser also stocks the SAM R34 Xplained Pro evaluation kit, supported by the Atmel Studio 7 integrated development platform. The kit includes reference designs and software examples that enable engineers to develop SAM R34-based LoRa end-node applications. The kit is certified with the Federal Communications Commission (FCC), Industry Canada (IC), and Radio Equipment Directive (RED) so designs can meet government requirements across geographies.

To learn more, visit www.mouser.com/microchip-sam-r34.

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With its broad product line and unsurpassed customer service, Mouser strives to empower innovation among design engineers and buyers by delivering advanced technologies. Mouser stocks the world's widest selection of the latest semiconductors and electronic components for the newest design projects. Mouser Electronics' website is continually updated and offers advanced search methods to help customers quickly locate inventory. Mouser.com also houses data sheets, supplier-specific reference designs, application notes, technical design information, and engineering tools.

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 750 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.

Trademarks

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