New Product Announcement

Microchip's WLR089U0 Module, Now at Mouser, Offers Ultra-Low-Power Performance for Remote Sensors

January 21, 2021 – 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 WLR089U0 LoRa®-enabled sub-GHz module from Microchip Technology. Featuring ultra-low-power sleep currents as low as 790 nA, the WLR089U0 module provides an ideal solution for battery-powered remote sensing applications, including Internet of Things (IoT) devices and smart city solutions.

The Microchip WLR089U0 module, available from Mouser Electronics, is based on the highly integrated SAM R34 family ICs with support for LoRa and FSK modulation. The WLR089U0 module includes a 32-bit Arm® Cortex®-M0+ processor and includes 256 Kbytes of flash and 40 Kbytes of SRAM (including 8 Kbytes of battery-backed SRAM). The highly configurable module offers a wide range of peripherals, including seven 12-bit analog-to-digital converter (ADC) channels, up to four serial communication interfaces, and two analog comparators.

The WLR089U0 module integrates an RF switch to support worldwide LoRaWAN operation from 863 MHz to 928 MHz, allowing developers to use a single part variant across different regions, simplifying the design process and streamlining the bill of materials. The module delivers up to 18.6 dBm of transmit (TX) power with an receive (RX) sensitivity down to -136 dBm, and is certified to FCC (U.S.), IC (Canada), and RED/CE (Europe).

Mouser also stocks the WLR089 Xplained Pro evaluation kit, which provides easy access to various features of the WLR089U0 module and ATSAMR34J18B device and offers additional peripherals to extend the features of the board and ease the development of custom designs. The kit is supported by the Atmel Studio, an integrated development platform, which provides predefined application examples.

To learn more about the WLR089U0 module, visit https://www.mouser.com/new/microchip/microchip-wlr089u0-lora-sub-ghz-module/.

As a global authorized distributor, Mouser offers the world's widest selection of the newest semiconductors and electronic components — in stock and ready to ship. Mouser's customers can expect 100% certified, genuine products that are fully traceable from each of its manufacturer partners. To help speed customers' designs, Mouser's website hosts an extensive library of technical resources, including a Technical Resource Center, along with product data sheets, supplier-specific reference designs, application notes, technical design information, engineering tools and other helpful information.

About Mouser Electronics

Mouser Electronics, a Berkshire Hathaway company, is an authorized semiconductor and electronic component distributor focused on New Product Introductions from its leading manufacturer partners. Serving the global electronic design engineer and buyer community, the global distributor's website, mouser.com, is available in multiple languages and currencies and features more than 5 million products from over 1,100 manufacturer brands. Mouser offers 27 support locations worldwide to provide best-in-class customer service in local language, currency and time zone. The distributor ships to over 630,000 customers in 223 countries/territories from its 1 million-square-foot, state-of-the-art distribution facilities in the Dallas, Texas, metro area. For more information, visit https://www.mouser.com/.

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– 30 –

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