New Product Announcement

Mouser Electronics Now Stocking ST's LoRa-Enabled STM32WL Nucleo-64 Boards, Supporting World's First LoRa SoC

January 11, 2021 – Mouser Electronics, Inc., the authorized global distributor with the newest semiconductors and electronic components, proudly announces that it is now stocking the STMicroelectronics (ST) STM32WL Nucleo-64 boards, based on the new STM32WL Series microcontroller. The STM32WL is the world's first wireless microcontroller to integrate a LoRa® transceiver on its silicon die, meeting the requirements of a wide range of low-power wide area network (LPWAN) wireless applications in industrial and consumer Internet of Things (IoT) markets.

ST's NUCLEO-WL55JC1 and NUCLEO-WLJC2 boards, available from Mouser Electronics, provide an affordable and flexible way for design engineers to try out new sub-GHz wireless communications concepts and build prototypes with the STM32WL Series wireless microcontroller, choosing from the various combinations of performance, power consumption, and features. The boards include support for both Arduino Uno headers and ST morpho headers to provide an easy means of expanding the functionality of the STM32WL Nucleo open development platform with a wide choice of specialized shields. The STM32WL Nucleo-64 boards also integrate the STLINK-V3E debugger and programmer, removing the need for a separate probe.

The onboard STM32WL55JC microcontroller incorporates two 32-bit Arm® Cortex®-M4/M0+ cores with 256 Kbytes of flash memory and 64 Kbytes of SRAM. The device's specially engineered radio offers two power outputs — one up to 15 dBm and the other up to 22 dBm — and supports LoRa, (G)FSK, (G)MSK, and BPSK modulations. The NUCLEO-WL55JC1 supports the high-frequency band from 865 to 928 MHz used in the Americas and Europe, while the NUCLEO-WL55JC2 supports the low-frequency band from 433 to 510 MHz used in Asia, allowing design engineers worldwide to use the STM32WL in their designs.

The STM32WL Nucleo-64 boards come with the STM32WL comprehensive software HAL library and various packaged software examples available with the STM32CubeWL MCU Package.

To learn more, visit https://www.mouser.com/new/stmicroelectronics/stm-stm32wl-nucleo-64/.

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 www.mouser.com.

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– 30 –

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