

## New Product Announcement

# Mouser Electronics Offers Murata's Ultra-Compact Standalone Type ABZ LoRa Module

**April 27, 2017** – [Mouser Electronics](http://www.mouser.com), Inc., the industry's leading New Product Introduction distributor with the widest selection of semiconductors and electronic components, is now stocking the [Type ABZ LoRa module](#) from [Murata](http://www.murata.com). The innovative Type ABZ LoRa module is a compact low-power wide area network (LPWAN) wireless module that supports the LoRaWAN™ long-range wireless protocol and is designed to help increase the adoption of the LoRaWAN platform and make it the standard for LPWANs that support [low-power](#) Internet of Things (IoT) applications.

[Murata's Type ABZ LoRa module](#), available from Mouser Electronics, is a small, cost-effective LoRaWAN module capable of supporting a wide range of [sensors](#) through 18 general-purpose inputs and outputs (GPIOs). The module includes a [Semtech SX1276](#) ultralong range spread spectrum wireless transceiver and a [STMicro STM32L0](#) series ARM® Cortex®-M0+ 32 bit microcontroller, with communication via UART, SPI, or I<sup>2</sup>C interfaces. The STM32L0 microcontroller includes 192 kBytes of flash and 20 kBytes of RAM, offering enough memory to embed customer applications and host other modulation stacks. The microcontroller also offers an optional STSAFE secure element to enhance the network security capabilities.

The Type ABZ module features pre-certified radio regulatory approvals for operating in the 868 MHz and 915 MHz industrial, scientific and medical (ISM) spectrum in most geographical regions of the world. The device's normal output power is +14dBm but a PA boost function can be selected to increase [radio frequency](#) (RF) output to + 20dBm for long-range applications. The module also integrates a temperature-compensated crystal oscillator (TCXO) with robust low-drift thermal characteristics to provide an accurate clock source for the Semtech transceiver.

The Murata Type ABZ module measures just 12.5 × 11.6 × 1.76mm and is housed in a metal shielded package. Typical applications for the module include [smart metering](#), wearables, tracking, [machine-to-machine](#) (M2M) communication, and [IoT](#) edge nodes.

To learn more, visit <http://www.mouser.com/new/Murata/murata-lora-module/>.

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 subsidiary of TTI, Inc., is part of Warren Buffett's Berkshire Hathaway family of companies. Mouser 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 4 million products from over 600 manufacturers. Mouser offers 22 support locations around the world to provide best-in-class customer service and ships globally to over 550,000 customers in 170 countries from its 750,000 sq. ft. state-of-the-art facility south of Dallas, Texas. For more information, visit [www.mouser.com](http://www.mouser.com).

### **About Murata**

Murata Manufacturing is a world leader in the design, manufacture and sale of ceramic-based passive electronic components and solutions, communication modules and power supply modules. Murata is committed to the development of advanced electronic materials and leading edge, multi-functional, high-density modules.

### **Trademarks**

Mouser and Mouser Electronics are registered trademarks of Mouser Electronics, Inc. All other products, logos, and company names mentioned herein may be trademarks of their respective owners.

– 30 –

Further information, contact:  
Kevin Hess, Mouser Electronics  
Senior Vice President of Marketing  
(817) 804-3833  
[Kevin.Hess@mouser.com](mailto:Kevin.Hess@mouser.com)

For press inquiries, contact:  
Kelly DeGarmo, Mouser Electronics  
Manager, Corporate Communications and Media Relations  
(817) 804-7764  
[Kelly.DeGarmo@mouser.com](mailto:Kelly.DeGarmo@mouser.com)