

## New Product Announcement

# Semtech's SX1276 LoRa Shields, Now at Mouser, Merge Long-Range RF with mbed IoT Platform

**September 13, 2016** – [Mouser Electronics](http://www.mouser.com), Inc., the industry's leading New Product Introduction (NPI) distributor with the widest selection of semiconductors and electronic components, is now stocking [SX1276 LoRa™ ARM® mbed™-enabled shields](#) from [Semtech](#). These easily programmable tools come pre-installed with editable source code, allowing developers to easily develop [Internet of Things \(IoT\)](#) applications and connect to LoRaWAN gateways. This gives developers the tools necessary to test the capabilities of LoRa [radio frequency](#) (RF) technology and create IoT solutions.

[Semtech's SX1276 LoRa mbed-enabled shields](#), available from Mouser Electronics, are produced in association with ARM and based on Semtech's [SX1276 transceiver](#). The shields, designed for the ISM 433 MHz and 868 MHz frequency bands of Europe and China ([SX1276MB1MAS](#)) and 433 MHz and 915 MHz bands of North America ([SX1276LB1LAS](#)), give developers source code to enable RF tests, simple point-to-point communication and other device compatibility. The SX1276MB1LAS uses a dedicated output pin so it can achieve 20dBm on the HF output, while the LF output on both versions of the board limits maximum power to 14 dBm. The mbed shields plug into any mbed microcontroller development platforms from STMicroelectronics, NXP, and other manufacturers.

The onboard SX1276 transceiver features a LoRa long range modem, which provides ultra-long range, spread spectrum communication and high interference immunity while minimizing current consumption. Using Semtech's patented LoRa modulation technique, the SX1276 can achieve a sensitivity of over -148dBm using a low-cost crystal and bill of materials. The high sensitivity combined with the integrated +20 dBm power amplifier yields industry-leading link budget of 168 dB, making it ideal for applications that require range or robustness. The SX1276 delivers exceptional phase noise, selectivity, receiver linearity and IIP3 for significantly lower current consumption than competing devices.

To learn more about the SX1276 LoRa transceiver, visit <http://www.mouser.com/new/semtech/semtech-sx1276-transceiver/>.

To learn more about the SX1276 LoRa mbed-enabled shields, visit <http://www.mouser.com/new/semtech/semtech-sx1276-mbed-shields/>.

With its broad product line and unsurpassed customer service, Mouser caters to design engineers and buyers by delivering What's Next in advanced technologies. Mouser offers customers 22 global support locations and stocks the world's widest selection of the latest semiconductors and electronic components for the newest design projects. Mouser Electronics' website is updated daily and searches more than 10 million products to locate over 4 million orderable part numbers available for easy online purchase. Mouser.com also houses an industry-first interactive catalog, 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 the rapid introduction of new products and technologies to electronic design engineers and buyers. Mouser.com features more than 4 million products online from more than 600 manufacturers. Mouser publishes multiple catalogs per year providing designers with up-to-date data on the components now available for the next generation of electronic devices. Mouser ships globally to over 500,000 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 Semtech**

Semtech Corporation is a leading supplier of high-quality analog and mixed-signal semiconductor products. The company is dedicated to providing proprietary solutions and breakthrough technology in power management, circuit protection, timing and synchronization, touch interface, video broadcasting, high-performance optical transport equipment (SerDes), high-reliability military products, low-power wireless RF, and digital sensor/signal conditioning ICs. Semtech's products are used in the following markets: Smartphones, LCD TVs, Notebook Computers, Wireless LAN Modems, Automatic Meter Reading, Ultra-Low Power Medical, Satellite Communication, Cellular Infrastructure, Optical Transport and Datacenters.

### **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)