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Murata introduces a new smaller and cheaper LoRaWAN® module in collaboration with Trusted Object packaged as System on Chip

Amsterdam, 30 January 2020: [Murata](#) introduces a newer smaller and cheaper LoRa® module which includes TO-Protect-LoRaWAN® - a secure software library specifically intended for industrial IoT devices with the smallest form factor and significantly reduced current consumption. The demonstration was shown at [The Things Conference](#), followed by a workshop on how to use this module for the participants. This module from Murata makes it suitable for a wide range of high-volume applications where small size, long-range, extended battery life, security and a competitive price point are requirements.

→ **Murata** introduces a new **smaller and cheaper LoRaWAN®** module in collaboration with **Trusted Object** packaged as a **System on Chip**.

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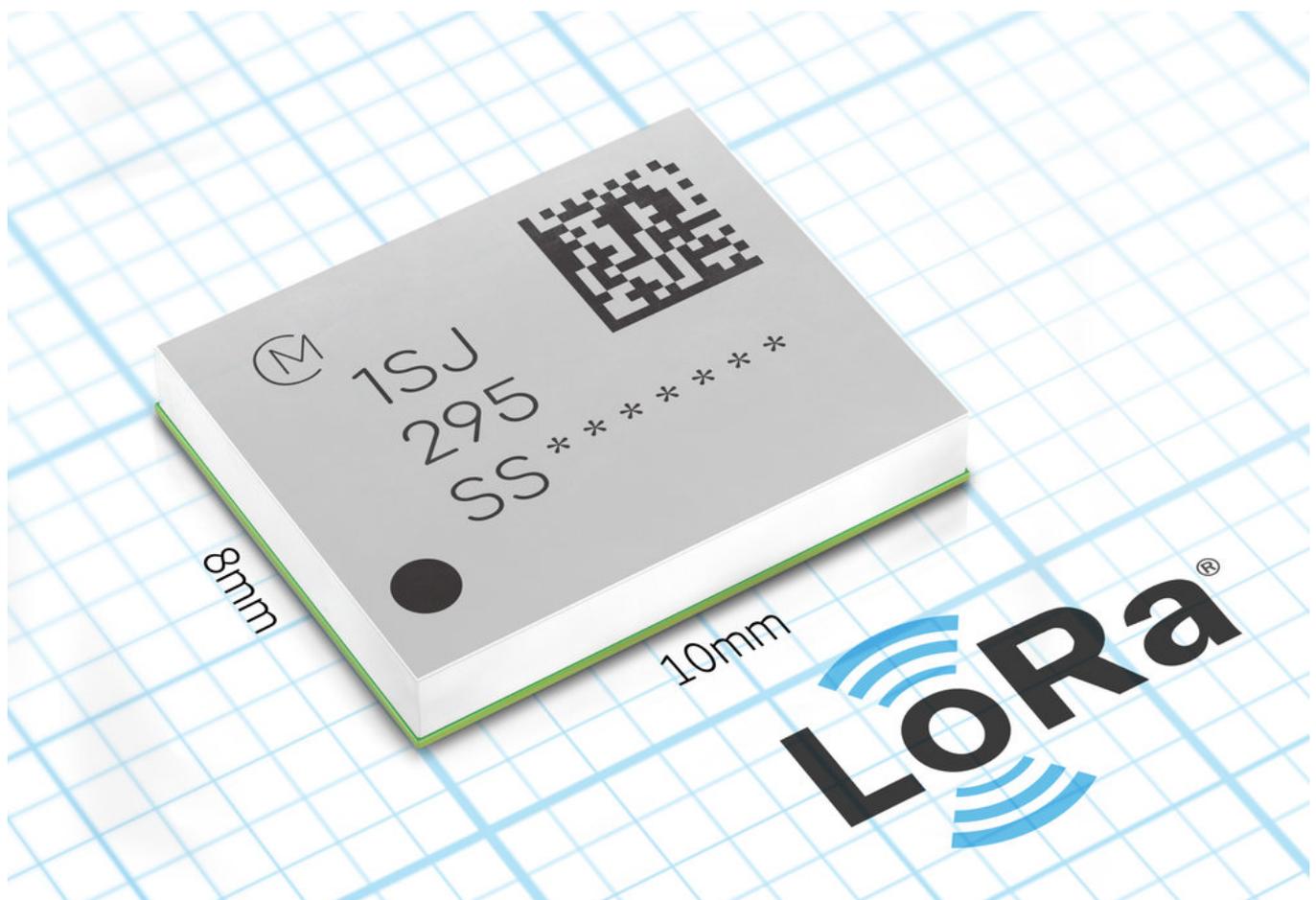
THE THINGS
INDUSTRIES

LoRaWAN™

LoRaWAN is a low-power, wide-area (LPWA) networking protocol specifically designed to connect battery-powered nodes to the Internet in regional, national or even global networks. It provides many essential features including bi-directional communication, end-to-end security and mobility/localisation services.

Murata's latest system-on-chip (SoC) LoRa module is based on a Semtech SX1262 RF IC and an STMicroelectronics STM32Lo ARM Cortex-M0 microcontroller. It supports operation within the frequency range 860 to 930 MHz. The rugged device operates at temperatures in the range -40°C to +85°C and includes multiple interfaces and an on-board temperature-controlled crystal oscillator.

Despite the high level of integration and performance, this module measures just 10.0 mm x 8.0 mm x 1.60 mm and is housed in a shielded surface mount package. The device has a single part number globally, simplifying customer supply chains.



As the secure library in this module is already qualified, the design task is simplified and time-to-market is reduced, providing device makers easy access to security expertise. The code is compatible with [The Things Industries](#) stack, and existing hardware designs and can be rapidly deployed for production use cases.

It is great to see Murata supporting our LoRaWAN partners to scale their device production with new products.

— Wienke Giezeman, CEO, The Things Industries

Semtech's LoRa technology, with its long range, flexible capabilities, is the platform of choice for Internet of Things (IoT) applications. Murata's new LoRa-based module will help develop and expand its unique IoT solutions in a variety of industries, including asset tracking smart buildings and utilities.

— Pedro Pachuca, Director of Wireless Products, Semtech Corporation

The new Type 1SJ LoRa-based module will help designers to develop solutions that meet the most demanding requirements, especially in areas such as asset tracking, utilities, agriculture, smart cities, smart buildings, industrial and other IoT applications. Sample quantities of the new module, along with a full evaluation kit are available with immediate effect.

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LoRaWAN® is a mark used under license from the LoRa Alliance®. LoRa® is a registered trademark of Semtech.

About The Things Industries

The Things Industries provides enterprise-grade technology for customers to build private LoRaWAN networks. Its technology is user-centric and meets the demands of scalability, flexibility and security. Its API-first approach allows customers to seamlessly integrate into existing systems and infrastructure. TTI supports an installed base of roughly 15 000 LoRaWAN gateways globally. For more information, visit www.thethingsindustries.com

About Murata

Murata is a leading manufacturer of electronic components, modules, and devices. The complete range includes ceramic capacitors, resistors/thermistors, inductors/chokes, timing devices, buzzers, sensors and EMI suppression filters. Whilst the company is known as a global ceramic capacitor manufacturer, it is also a world leader in Bluetooth® & WiFi™ Modules, board-mount DC-DC converters and is a key manufacturer of standard and custom AC-DC power supplies. Established in 1944, Murata is headquartered in Japan and has European offices in Finland, France, Germany, Hungary, Italy, the Netherlands, Spain, Switzerland and the UK. For more information on Murata, please visit www.murata.com. You can also follow us on Twitter @MurataEurope, [LinkedIn](#) or join us on [Facebook](#).

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The Things Industries