

Kerlink and Semtech Test Kerlink's Complete Geolocation Solution in Dense Urban Setting

Experiment in Mexico Will Demonstrate Accuracy & Quality of Communication for Kerlink's Commercial-Grade Offering



PRESS RELEASE

Barcelona, Spain – Feb. 27, 2018, 6:00 p.m. CET – **Kerlink** (ALKLK - FR0013156007), a specialist and global leader in solutions dedicated to the Internet of Things (IoT), and **Semtech Corporation**, (Nasdaq: SMTC), a leading supplier of high-performance analog and mixed-signal semiconductors and advanced algorithms, today announced an urban live-test in Aguascalientes City, Mexico, for Kerlink's geolocation solution, Wanesy™ Geolocation.

Land-based geolocation leveraging the LoRaWAN™ open protocol uses a different technology than GPS, eliminating the requirement for costly and power-hungry data processing. Gartner forecasts that a third of the world's 15 billion connected devices will be critically dependent on geodata by the end of 2020.

The Mexican project is the first demonstration of Kerlink's end-to-end network environment, which combines the [Wirnet™ iBTS 915 MHz gateways](#), the [Wanesy™ Management Center](#), which is the company's core network management suite, and the [Wanesy™ Geolocation](#), its new geolocation solver. The experiment with Semtech provides large-scale field-testing opportunities to demonstrate the benefits of geolocation and to show the impact of the quality of coverage on accuracy, when the number of gateways and location of installation points is varied in a dense urban setting.

"Geolocation is simple to deploy and operate because each end-device can be natively located without the need to add a costly GPS module inside it," said Yannick Delibie, Kerlink CTIO. "This dramatically optimizes power consumption and reduces device hardware costs. No additional hardware is required, assuming that gateways are geolocation-ready, like Kerlink Wirnet™ iBTS gateways."

Semtech, whose LoRa® devices and wireless radio frequency technology (LoRa Technology) transceivers are central to the implementation of LoRaWAN™ networks around the world, actively collaborated with Kerlink on equipment installation in Aguascalientes City, a metropolitan area of about 1 million population.

"Optimal location of the gateways is crucial for delivering an optimized, fine time stamp for real-time tracking," said Marc Pegulu, vice president and general manager of Semtech's Wireless and Sensing Product Group. "Kerlink's Wirnet™ iBTS Compact, based on Semtech's industrial-grade reference design, offers improved gateway clock synchronization for its embedded GPS to further improve geolocation accuracy, especially in a dense urban area."

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Live tests in the demonstration show promising results with CEP 95 (circular error probable with 95 percent probability) around 80 meters for moving objects, such as vehicles, in class A type of communication while in urban environments that can create communication multipath challenges, resulting from radio reflection generated by buildings.

This demonstration environment will also help the teams to further evaluate network and gateway-deployment geometry, which plays a significant role in geolocation performance. All of these findings will help Kerlink continuously optimize the network design and deployment it offers customers through its professional services, including geolocation services.

"The global performance of the accuracy is continuously progressing by leveraging environment learning and intelligent algorithms," Delibie said. "The infrastructure set-up is an alive technical ecosystem of partners delivering the entire value chain with a tremendous improvement in the quality of service able to support an increasing number of concrete use cases."

Semtech and Kerlink are among the founding members of the LoRa Alliance™, which recently published a [white paper](#) on geolocation using Semtech's LoRa® technology.

Kerlink will present its solutions and show geolocation demonstration during Mobile World Congress on in booth located 8.0 C11. [Ask for a demo](#).

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About Kerlink Group

Kerlink Group is a global leading provider of end-to-end network solutions for the Internet of Things (IoT), serving telecom operators, businesses and public authorities worldwide. Its growing suite of turnkey IoT services includes network planning, design and operational management that maximizes performance of its market-leading, carrier-grade infrastructure offering. The Group, widely recognized for its IoT expertise, also continually introduces innovative value-added services, such as network-based geolocation, remote end-device management and low-power IoT reference design, which allows its customers to quickly bring to market IoT-ready devices and to imagine innovative business models to monetize their deployments.

In just over 10 years, more than 100,000 Kerlink installations have been deployed in more than 69 countries. In 2017 Kerlink supplied more than 330 customers, including major telecom operators such as Tata Communications, and service providers such as GrDF and Suez. The company's solutions are enabling IoT networks worldwide with major deployments in Europe, South Asia, South America and Oceania. Kerlink, a co-founder and board member of the LoRa Alliance™, has invested more than €10 million in research in the past three years. In 2017, Kerlink Group generated revenues of nearly €25 million, more than 50 percent internationally. Since 2013, it has posted average annual growth of more than 62 percent. It has been listed on Euronext Growth Paris since May 2016 and was added to the EnterNext PEA-PME 150, an index of 150 fast-growing French SMEs, in 2017.

For more information, visit www.kerlink.com or follow us on Twitter @kerlink_news.

About Semtech

Semtech Corporation is a leading supplier of high performance analog and mixed-signal semiconductors and advanced algorithms for high-end consumer, enterprise computing, communications, and industrial equipment. Products are designed to benefit the engineering community as well as the global community. The Company is dedicated to reducing the impact it, and its products, have on the environment. Internal green programs seek to reduce waste through material and manufacturing control, use of green technology and designing for resource reduction. Publicly traded since 1967, Semtech is listed on the Nasdaq Global Select Market under the symbol SMTC.

For more information, visit www.semtech.com

About LoRaWAN™

The technology used in a LoRaWAN™ network is designed to connect low-cost, battery-operated sensors over long distances in harsh environments that were previously too challenging or cost-prohibitive to connect. With its unique penetration capability, a LoRaWAN™ gateway deployed on a building or tower can connect to sensors more than 10 kilometres away or to water meters deployed underground or in basements. The LoRaWAN™ protocol offers unique and unequalled benefits in terms of bi-directionality, security, mobility and accurate localization that are not addressed by other LPWAN™ technologies. These benefits will enable the diverse use cases and business models that will grow deployments of LPWAN™ IoT networks globally.

About the LoRa Alliance™

The LoRa Alliance™ is an open, nonprofit association that has grown to over 500 members since its inception in March 2015, becoming one of the largest and fastest-growing alliances in the technology sector. Its members are closely collaborating and sharing their experience to promote the LoRaWAN™ protocol as the leading open global standard for secure, carrier-grade IoT LPWAN connectivity. With the technical flexibility to address a broad range of IoT applications, both static and mobile, and a certification program to guarantee interoperability, LoRaWAN™ has already been deployed by major mobile network operators globally, with wide expansion anticipated in 2017. For information about joining the LoRa Alliance™, please visit the membership page.

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Upcoming events

2017 Annual Results: 4 April 2018 after market

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