

Press release 28.09.2026

Zenner and LoRaWAN: Building the Connected Infrastructure for Smart Cities

Smart Cities rely on connected infrastructure and reliable IoT data to understand and operate urban systems more efficiently. From metering, water and waste management to parking, lighting, buildings, mobility and environmental monitoring, a wide range of applications depends on data from distributed assets. The challenge is to connect all these distributed devices reliably, cost-effectively and with minimal maintenance. LoRaWAN provides the infrastructure to make it possible.

From metering to a connected city

LoRaWAN is particularly well suited to large-scale urban IoT applications. Its long range and low power consumption enable battery-operated sensors with multi-year lifetimes. As an open and interoperable standard, LoRaWAN allows devices and solutions from different suppliers to use the same network infrastructure. This means one network can support a wide range of applications.

Smart metering, particularly remote water meter reading, can provide a strategically important starting point for building connected urban infrastructure. The same network can then support a wide range of IoT use cases, including Smart Water, Smart Waste, Smart Parking, Smart Lighting, environmental monitoring, flood protection, energy monitoring and Smart Building. This allows municipalities to expand their Smart City infrastructure step by step, building on a shared foundation rather than creating isolated technology silos.

Zenner: an established LoRaWAN player

Zenner has supported LoRaWAN from the early stages of the technology and has been an active LoRa Alliance member since its early years. The company contributes to the development and adoption of the standard through Alliance activities and working groups. With more than 11 million LoRaWAN devices deployed worldwide and one of the world's largest LoRaWAN networks, Zenner is a leading provider of LoRaWAN-based solutions. The company's portfolio combines sensors and meters, LoRaWAN gateways, network infrastructure, the B.One element suite with its own IoT platform and various applications.

LoRaWAN can support cities and communities of all sizes. More than 100 cities, municipalities and utilities are already using LoRaWAN solutions from Zenner, demonstrating the range of applications that can be built on a shared network infrastructure. Whether in densely populated urban areas, medium-sized cities, rural communities or specialised industrial environments, LoRaWAN with its flexible and adaptable nature is suitable for all requirements. The following examples show how cities, municipalities and utilities are using LoRaWAN with Zenner:

Metropolitan areas

- **Hamburg, Germany:** One of Germany's smartest cities with more than 46,000 IoT devices, more than 600 gateways and an almost complete city-wide LoRaWAN coverage demonstrates how the technology can scale across a major city.
- **Bonn, Germany:** Former German capital that uses LoRaWAN to provide a common infrastructure for Smart Utility, Smart City and Smart Building applications, connecting meters and a variety of IoT devices.

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Medium-sized cities

- **Amberg, Germany:** One network supports Smart Metering while also enabling a wide range of Smart City applications, providing data for Smart Parking, black ice detection, soil moisture and environmental monitoring through Smart City dashboards.
- **Schwerte, Germany:** Combining real-time water-level monitoring with other Smart Utility applications helps strengthen the city's ability to respond to heavy rainfall and flood risks.

Smaller municipalities

- **Mersch, Luxembourg:** Luxembourg has established itself as a pioneer in IoT. Many municipalities, including Mersch, use LoRaWAN for applications such as river-level monitoring, flood protection and smart street lighting.
- **Dillingen/Saar, Germany:** Across several neighbouring communities, a shared LoRaWAN network connects almost 15,000 smart devices covering metering, building, environmental monitoring and a range of Smart City applications.

Beyond cities and utilities

- **Europa-Park, Rust, Germany:** One of Europe's largest leisure parks is almost a city in itself. LoRaWAN connects its complex site infrastructure, starting with water-level monitoring and providing a foundation for further IoT applications.

One network. Many applications.

These real-world applications show that LoRaWAN goes far beyond Smart Metering. With its benefits it can provide a shared, scalable connectivity layer for the connected city. The combination of broad coverage, low-power operation and an open ecosystem makes LoRaWAN suitable for cities of every size. Zenner brings together long-standing expertise in metering, IoT and LoRaWAN to support municipalities and utilities in developing connected urban infrastructure.

Want to explore LoRaWAN in action? Visit the Zenner team at the Smart City Expo World Congress (SCEWC) in Barcelona at the LoRa Alliance Pavilion, Hall 3 - B41. <https://events.lora-alliance.org/lorawan-in-action-at-smart-cities-expo-world-congress>

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Image material

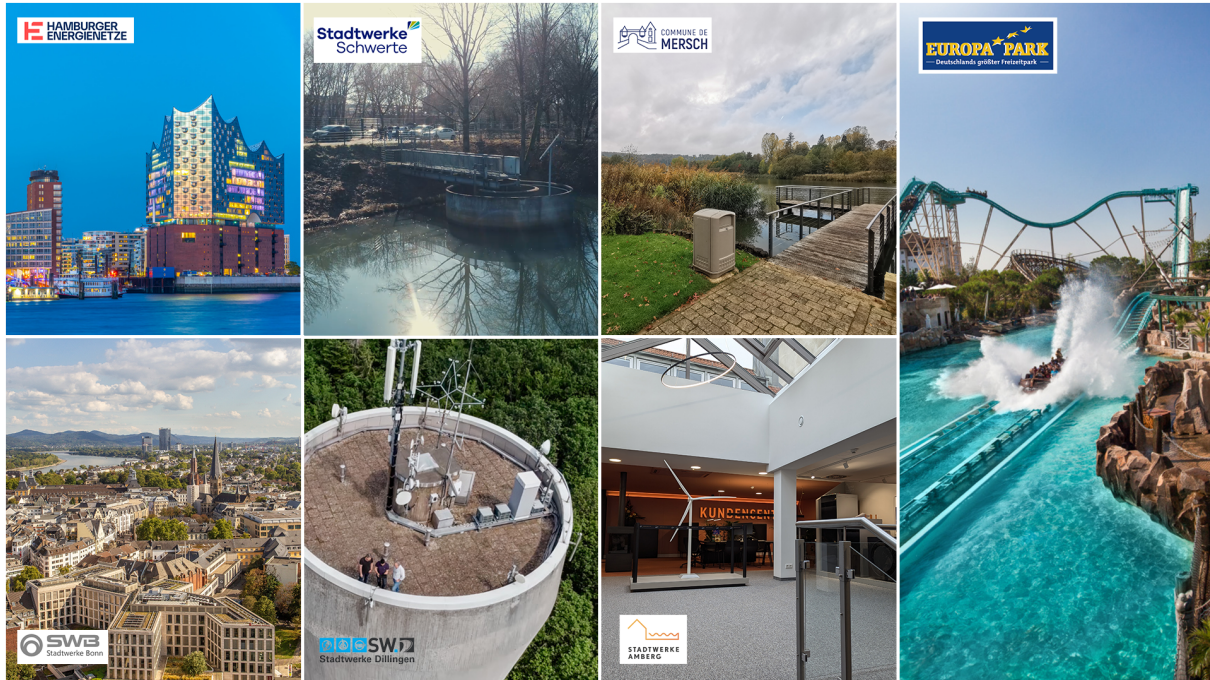


Image caption: From small communities to major cities: Zenner supports customers with flexible LoRaWAN solutions.

(Source: Hamburg: Fotolia; Schwerte: Stadtwerke Schwerte; Mersch: Gemeinde Mersch (Lux.); Bonn: Giacomo Zucca/Bundesstadt Bonn; Dillingen: Stadtwerke Dillingen; Amberg: Stadtwerke Amberg; Europa-Park: Europa-Park)

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About ZENNER

ZENNER International GmbH & Co. KG is a leading global provider of innovative solutions for municipal utilities, energy suppliers and local authorities. The company develops and produces measuring technology for recording water, heat and gas consumption as well as digital solutions for the Internet of Things (IoT) for the digitalisation of the smart city. From measuring technology and sensors to LoRaWAN infrastructures and data services to the finished application, ZENNER offers everything from a single source. With well over 10 million measuring instruments and sensors produced each year and experience from over 450 successful IoT projects, ZENNER is a pioneer in the smart city sector. ZENNER, headquartered in Saarbrücken, operates production facilities in Europe, Asia and the USA and has 60 locations worldwide. Founded in 1903, ZENNER is now part of the international Minol-ZENNER Group, which employs more than 4,400 people worldwide.

More information at www.zenner.de

Press contact

Zenner International GmbH & Co. KG
Patrik Sartor/ Stefanie Schröder
Heinrich-Barth-Str. 29
66115 Saarbrücken
T. +49 681 / 9 96 76 - 3157, - 3155
patrik.sartor@zenner.com, stefanie.schroeder@zenner.com
www.zenner.de