



GATEWAY LoRaWAN

LORCOM

Durable and safe hardware

LORCOM is built on its own safe hardware with a powerful and energy-efficient NXP processor, an Arm® Cortex®-A55 core and advanced industrial-grade security. The gateway runs a reliable Linux system based on the Yocto Project.

LoRaWAN chipset Semtech® SX1302

Bidirectional LoRaWAN communication is provided by an **8-channel module** based on the new generation **Semtech® SX1302 chipset**, which offers higher sensitivity and significantly lower consumption.

Power supply

It can be powered via LAN (**PoE**) or an **external power supply** in the range of 15-30 V DC. **Active and passive PoE** are supported.

NO licences. No hidden fees

By purchasing the gateway, you get a full-fledged product with **unlimited** data points, **unlimited** LoRaWAN devices and **free** future upgrades.

Manufactured in EU (CZ)

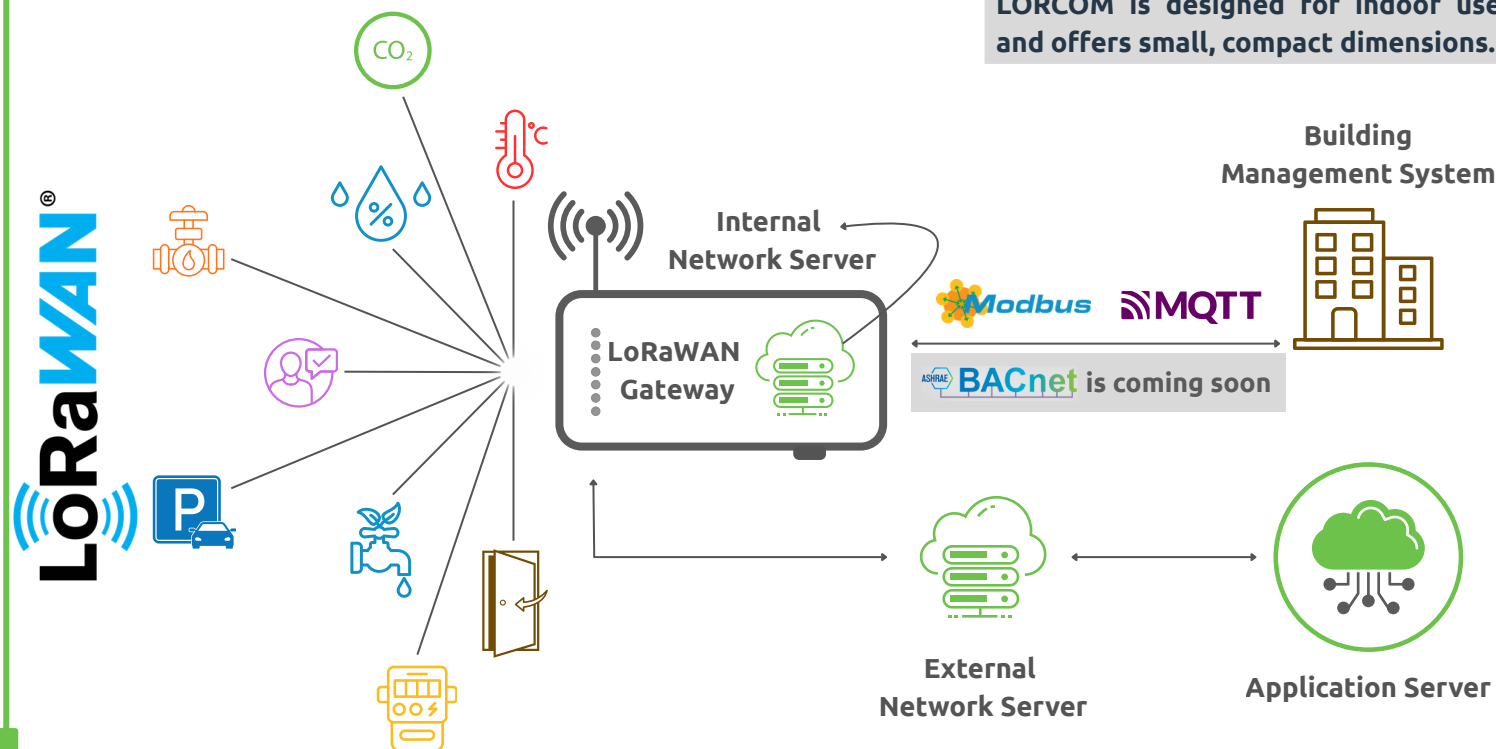


Each piece is carefully inspected by FIRVENA, this brings **exceptional quality**.

- smart building
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LORCOM is designed for indoor use and offers small, compact dimensions.



Network server (NS)

Integrated NS allows to function as an **independent unit** that is able to forward decoded data to the BMS via MODBUS, MQTT communication.

It also offers easy **integration with IoT platforms** such as AWS IoT Core, Azure IoT Hub or Google Cloud Pub/Sub.

The gateway can also work as a **packet forwarder**, that connects to any external NS (e.g. The Things Stack, ChirpStack, AWS) which ensures efficient **device management** and seamless **data integration** into end applications.

Support for new devices

End-device support is handled through flexible **configuration files**, which in most cases eliminates the need for firmware modifications. Users can use pre-built configurations or easily create and customize their own to meet specific device requirements. The solution is fully compatible with the **ChirpStack v4 JavaScript codecs** that manufacturers commonly provide as part of their LoRaWAN device support.

MODBUS

Simple integration of elements into BMS via Modbus, configuration via web interface, possibility to export register description to CSV file.

Real-time backup

The gateway includes an exceptionally long-life **supercap** for real-time backup that ensures accurate time for at least 72 hours during power outages.

Support for 1000 LoRaWAN elements

The gateway is designed to serve **1000** elements on the LoRaWAN wireless network with its performance and capacity.

Web server

Integrated. Simple gateway setup, access via a unique name on the local network.



Node-RED system

Integrated visual programming tool for connecting devices, data and services **directly inside** the gateway.

Brand Labelling

Your logo on LORCOM

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