



# 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.

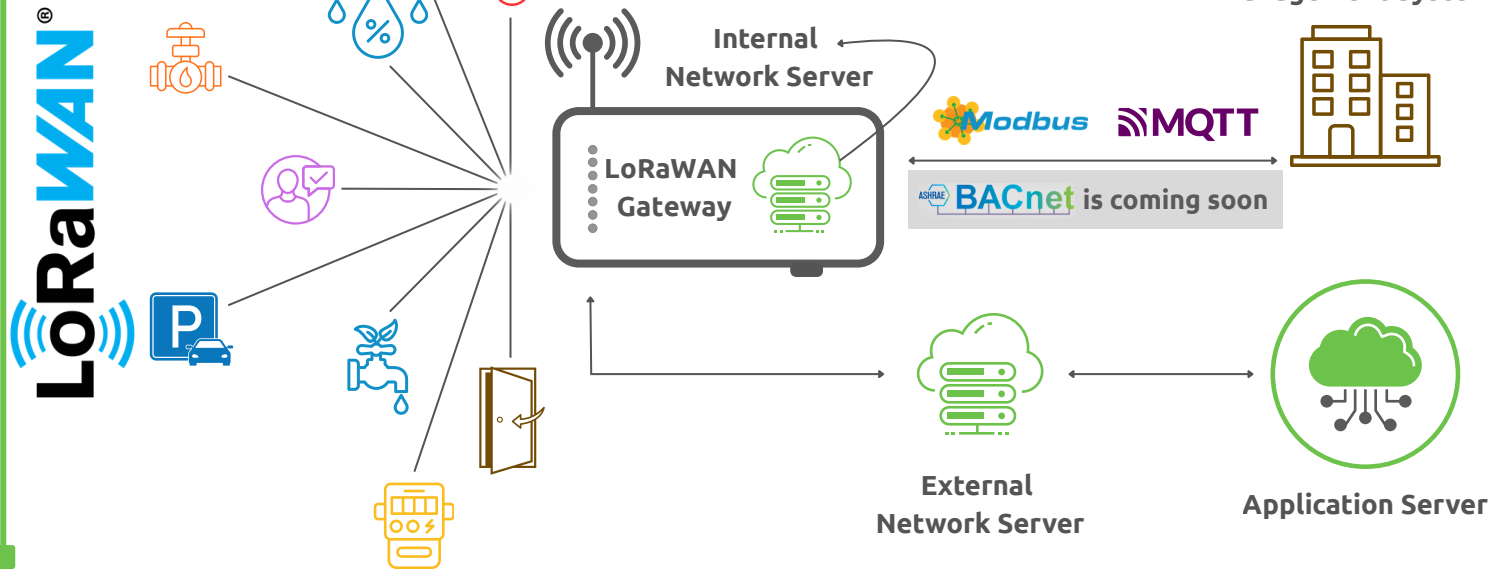
### Manufactured in EU (CZ)

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

- smart building
- smart home
- smart industry
- smart parking
- smart metering



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 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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