

# WebdynEasy LoRaWAN

## Gateway for sensors using LoRaWAN network

The WebdynEasy LoRaWAN equipment is specific to wireless networks using LoRa radio technology. Its main function is to provide the connection between sensors and a data server using the LoRaWAN network. The purpose of the hub is to collect LoRaWAN and/or Modbus data and to send it at a regular frequency to a remote server (IS) using Ethernet or 3G/4G. The configuration is done from the embedded webserver. It uses "Over The Air Activation", and it listens on 8 different frequencies at once. This allows it to capture data emitted using LoRaWAN from sensors that are far away. The channels can be configured locally or remotely.



## Main Features



4G/3G



LoRaWAN



RS485  
RS422



Ethernet



IP67



Plug  
& Play



Remote  
configuration



Modbus  
RTU/TCP



FTP/s

■ HARDWARE ■ SOFTWARE

## Strenghts & Benefits

- Plug & Play
- LoRaWAN server monitors up to 1000 LoRaWAN sensors and 10 gateways
- Compatible with commercially available sensors
- Reduce maintenance costs
- Optimised energy efficiency
- Optimisation and adaptation of speed and power

## Applications

- Remote readings of all types of sensor (temperature, humidity, etc.)
- Remote reading of all types of meter (electricity, gas, water, etc.)

# Specifications

## WebdynEasy LoRaWAN 4G

**4G:** Cat-1, Bands B1, B3, B7, B8, B20, B28

**3G:** HSPA+, UMTS (B1, B8)

LoRaWAN 863 - 870MHz multi-channel radio interface

## Interfaces

- 4G/3G connectivity
- LoRaWAN 863 - 870MHz
- 1x RS485/RS422 Modbus RTU/TCP
- 1x Ethernet 10/100Mbit/s
- Packet Forwarder Class A, B, C
- Embedded LoRaWAN server Class A
- Flash memory: 50 Mb (uncompressed, compressed files)

## Connectors

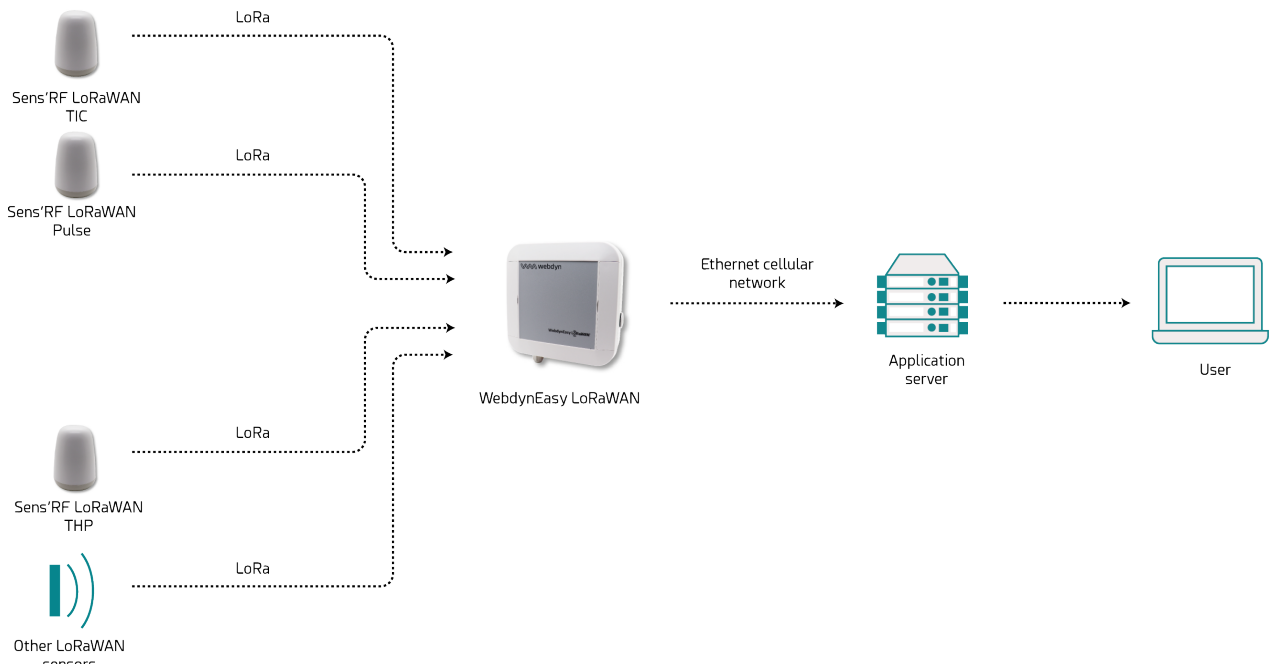
- 1x internal SMA connector:  
LoRaWAN
- 1x internal SMA connector: 4G/3G
- 1x internal RJ45: Ethernet
- 2x terminal block: RS485/RS422,  
external 12V power supply
- 1x internal miniSIM card holder

## Characteristics

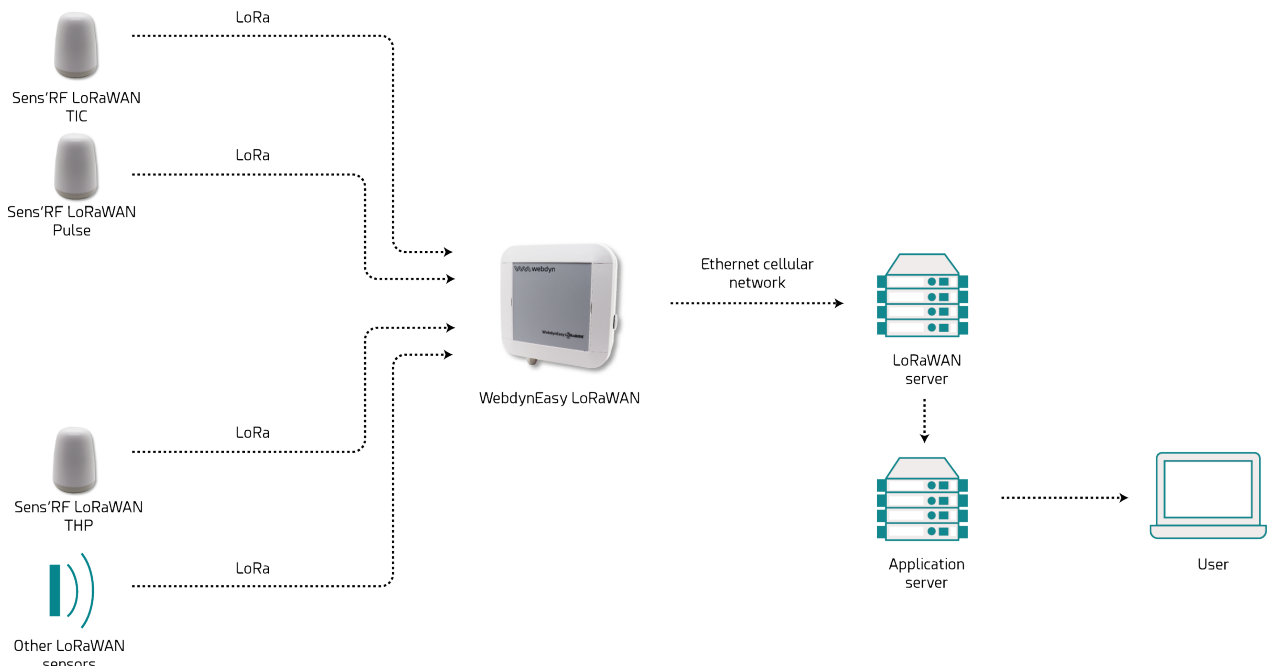
- Status LEDs
- IP67
- DC input: +12 to +24 Vdc
- Consumption: 10W max.
- Temperature range: -20 - 55°C
- Storage temperature: -20 - 70°C
- Humidity: 25-75%
- Dimensions: 160x150x55mm
- Weight: 450gr.
- Certifications: RED, RoHS, REACH
- Open VPN
- Webservices

# Architecture

## Configuration with internal server



## Configuration with external server



## Software Features

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- Plug & Play
- Remote configuration
- Modbus monitoring in RTU and TCP mode

## References

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### PRODUCTS

- WebdynEasy LoRaWAN **WG0610-A01**

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