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	Class A & C Server	MQTT

■ HARDWARE ■ SOFWARE

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
- Embedded LoRaWAN server Class A & C
- Flash memory: 50 Mb (uncompressed, compressed files)
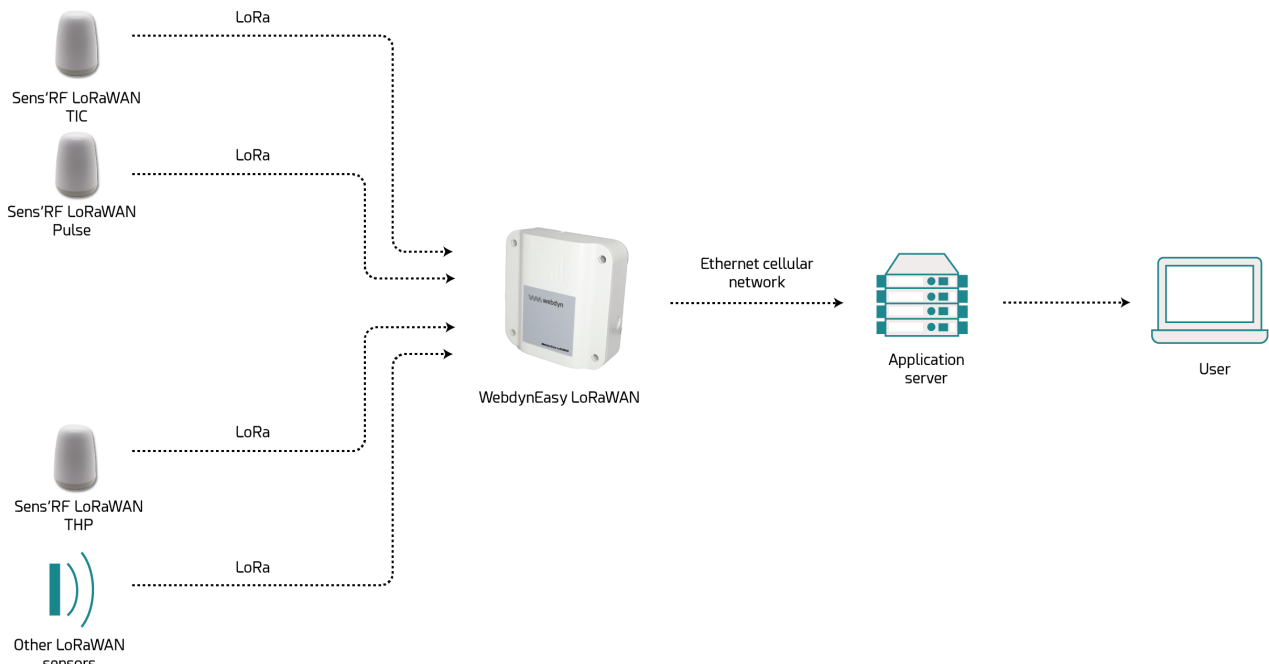
Connectors

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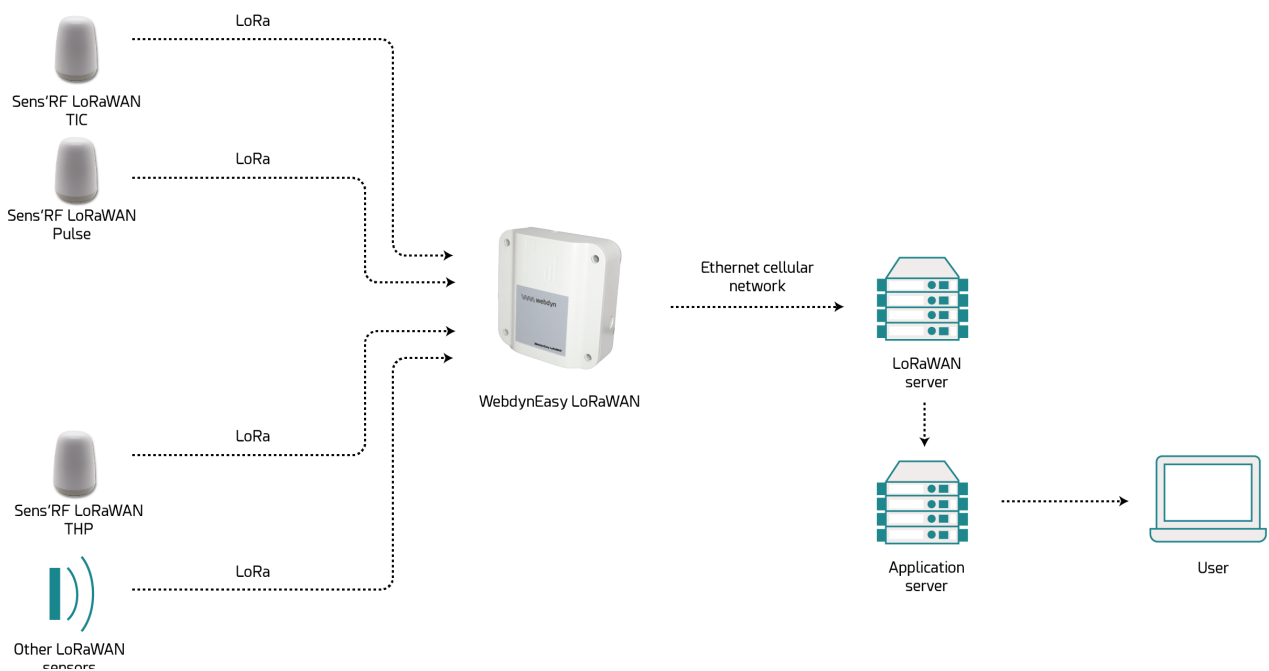- 1x internal miniSIM card holder

Characteristics

- Status LEDs
- IP67
- DC input: +12 to +24 Vdc
- Consumption: 10W max.
- Temperature range: -20 - 55⁰C
- Storage temperature: -20 - 70⁰C
- Humidity: 25-75%
- Dimensions: 160x150x55mm
- Weight: 450gr.
- Certifications: RED, RoHS, REACH
- Open VPN
- Webservices

Architecture

Configuration with internal server

Sens'RF LoRaWAN TIC — LoRa
Sens'RF LoRaWAN Pulse — LoRa
Sens'RF LoRaWAN THP — LoRa
Other LoRaWAN sensors — LoRa
WebdynEasy LoRaWAN — Ethernet cellular network — Application server — User

Configuration with external server

Sens'RF LoRaWAN TIC — LoRa
Sens'RF LoRaWAN Pulse — LoRa
Sens'RF LoRaWAN THP — LoRa
Other LoRaWAN sensors — LoRa
WebdynEasy LoRaWAN — Ethernet cellular network — LoRaWAN server — Application server — User

Software Features

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

References

PRODUCTS

- WebdynEasy LoRaWAN   **WG0610-A01**

ACCESORIES

- Walmount Kit DIN Rail   **AC0304-01**
- MTX-12-1 EU PLUG-Tinned Wire   **901006300**