

## LoRa Outdoor Radio Telemetry Unit

The TBSL1/RFB-LORA is a versatile outdoor radio telemetry unit, acting as a multi-sensors wireless bridge that can operate on any Class A LoRaWAN network. This is a flexible platform offering a rich connectivity for multiple usual sensors interfaces used in agricultural applications: SDI-12, pulses and analog. Optional Linux broker platform allows to export sensors data to application server.



**TBSL1/RFB-LoRa**

### Features

- LoRaWAN 1.02 Class A
- EU868/US915/AU915/EU433/AS923/CN470/CN779
- Linux broker platform to export data to application server (optional)
  - FTP & MQTT
- Sensors types: SDI-12, analog (2\*12 bits), pulse
- System features:
  - Configurable measurement intervals for each sensor
  - Configurable sensor's alarms: inside/outside limits, thresholds/hysteresis
  - Remote configuration of the platform through LoRaWAN downlink packets.
  - Embedded flow meter and totalizer module
  - External relays/irrigation valves control (option)
  - Long range: up to 15km in clear line of sight
- Power:
  - Lilon/LiPo single cell 3.7V battery 1500-2500mAh with solar panel
  - External power supply 6-18V (option)
- USB connectivity for PC monitoring and programming
- IP67 Alu diecast
- External antenna
- Operating Temperature Range: -40°C ... 65°C

### Application

- Crop yield optimization
- Irrigation
- Field monitoring