

## Cellular Outdoor Radio Telemetry Unit

The TBSL1/RFB-3G and TBSL1/RFB-4G are versatile outdoor radio telemetry units, acting as a multi-sensors wireless bridge that can operate on any 2G or 3G (RFB-3G) / 3G or 4G (RFB-4G) cellular network. They share the core TBSL1 RTU HW and only differ by their interchangeable modem board. This is a flexible platform offering a rich connectivity for multiple usual sensors interfaces used in agricultural applications: SDI-12, pulses and analog. Sensors data is exported to application server through MQTT protocol.



### **TBSL1/RFB-3G / TBSL1/RFB-4G**

#### Features

- Dual 2G/3G or 3G/4G modem with configurable fallback option
- GSM 900/1800/1900/850
- WCDMA 2100/1900/850/900/800
- LTE region dependant (AUS, US and EU)
- Protocol: MQTT v3.1.1 compliant
- Sensors types: SDI-12, analog (2\*12 bits), pulse
- System features:
  - Configurable measurement intervals for each sensor
  - Configurable sensor's alarms: SMS, e-mail
  - Remote configuration of the platform through MQTT
  - Embedded flow meter and totalizer module
  - Over The Air Firmware Update
- Power:
  - Lilon/LiPo single cell 3.7V battery 1500-2500mAh with solar panel
  - External power supply 6-18V (option)
- USB connectivity for monitoring and platform configuration (PC application)
- IP67 Alu diecast
- External antenna
- Operating Temperature Range: -40°C ... 65°C

#### Application

- Crop yield optimization
- Irrigation
- Field monitoring