

# RS485/UART to LoRaWAN Converter

## RS485-BL



## OVERVIEW:

The Dragino RS485-BL is a **RS485 / UART to LoRaWAN Converter** for Internet of Things solution. User can connect RS485 or UART sensor to RS485-BL converter, and configure RS485-BL to periodically read sensor data and upload via LoRaWAN network to IoT server.

RS485-BL can interface to **RS485 sensor**, **3.3v/5v UART sensor** or **interrupt sensor**. RS485-BL also provide a 3.3v output and a 5v output to power the sensors. Both output voltage are controllable to minimize the total system power consumption.

RS485-BL is IP67 water proof and powered by **8500mAh Li-SOCI2** battery, It is designed for long term use for several years.

RS485-BL running in standard LoRaWAN 1.0.3 Class A. It can reach long transfer range and easy to intergrate with LoRaWAN compatible gateway and IoT server.

Each RS485-BL pre-loads with a set of unique keys for LoRaWAN registration, register these keys to local LoRaWAN server and it will auto connect after power on.

## Features:

- LoRaWAN v1.0.3 Class A
- Ultro low power consumption
- RS485 interface for RS485/ Modbus sensor
- 3.3 / 5v UART interface for sensor
- High capacity 8500 mAh Li-SOCI2 battery
- Bands: CN470/EU433/KR920/US915
- EU868/AS923/AU915/IN865
- AT Commands to change parameters
- Uplink on periodically
- Downlink to change configure

## Sensor Interface:

- RS485 Sensor
- 3.3v / 5v UART Sensor
- Interrupt Sensor
- Controllable 3.3v /5v voltage output

## Applications:

- Wireless Alarm and Security Systems
- Home and Building Automation
- Automated Meter Reading
- Industrial Monitoring and Control
- Long range Irrigation Systems,etc.

## Order Info- RS485-BL-XX

XX:

- XX: Frequency Bands, options:  
EU433,CN470,EU868,IN865,KR920  
AS923,AU915,US915