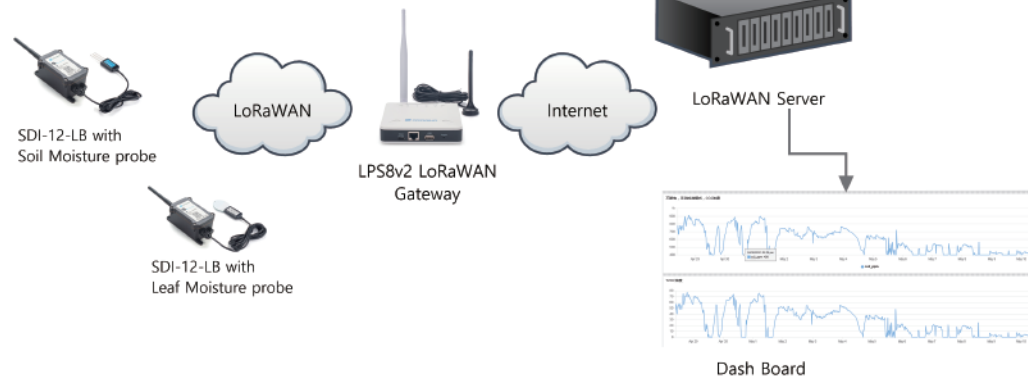# SDI-12 to LoRaWAN converter

SDI-12-LB

SDI-12-LB in a LoRaWAN Network

OVERVIEW:

The Dragino SDI-12-LB is a SDI-12 to LoRaWAN Converter designed for Smart Agriculture solution.

SDI-12 (Serial Digital Interface at 1200 baud) is an asynchronous serial communications protocol for intelligent sensors that monitor environment data. SDI-12 protocol is widely used in Agriculture sensor and Weather Station sensors.

SDI-12-LB has SDI-12 interface and support 12v output to power external SDI-12 sensor. It can get the environment data from SDI-12 sensor and sends out the data via LoRaWAN wireless protocol.

The LoRa wireless technology used in SDI-12-LB allows device to send data and reach extremely long ranges at low data-rates. It provides ultra-long range spread spectrum communication and high interference immunity whilst minimizing current consumption.

SDI-12-LB is powered by 8500mAh Li-SOCl2 battery, it is designed for long term use up to 5 years.

Each SDI-12-LB is pre-load with a set of unique keys for LoRaWAN registrations, register these keys to local LoRaWAN server and it will auto connect after power on.

Applications:

- Smart Agriculture

Order Info: SDI-12-LB-XX

XX:

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

Features:

- LoRaWAN v1.0.3 Class A
- Ultra-low power consumption
- SDI-12 protocol to connect SDI-12 sensors
- Controllable 5v and 12v output
- Monitor Battery Level
- Support BLE and LoRaWAN remote configure
- Bands: CN470/EU433/KR920/US915/EU868/ AS923/AU915/IN865

- AT Commands to change parameters
- Uplink on periodically
- Downlink to change configure
- IP66 Waterproof Enclosure
- Support wireless OTA update firmware
- 8500mAh Battery for long term use