LoRaWAN USB Dongle

Features

- LoRa modem in a USB Dongle form factor
- Embedded LoRaWAN certified module
- Can be used as a LoRa development PCBA with pin header connection interfaces
- High sensitivity down to -148 dBm
- Optional support a wide frequency range from 470MHz to 928MHz in different SKU *see specification below for more details
- Plug & play with Raspberry Pi, Arduino, LinKit
- Options for built-in LoRa antenna and external antenna
- Support AT command set

This LoRaWAN USB Dongle is designed to provide LoRa modem functionality in an USB dongle form factor. It supports the AT command set and plug & play with Raspberry Pi, Arduino, LinKit and other popular IOT platforms. This enables developers to do rapid prototyping of LoRa enabled sensors. One can attach this to a Raspberry Pi to enable LoRa communication. Then attach the desired sensors to the Raspberry Pi and do the programming that reads the sensors and send data via LoRa up to a network server in a few hours. Thus, enabling the makers community and sensor vendors to quickly develop their applications/solutions. Inside the dongle, there are pin connectors for using this as LoRa development kit.

Specification

Model Name	WLRUBS-100
Frequency Band	US 902~928 MHz / CN 470~510 MHz
Number of Channels	Configurable up to 16 channels / Nodes will select available channel to send data
WAN Protocol	LoRaWAN
Modulation	Based on LoRaWAN
RF Transceiver	SX1276
Transmit RF Power	19 dBm
Receive Sensitivity	Down to -140 dBm
Operation Temperature	-20ºC ~ 60ºC
Storage Temperature	-20ºC ~ 60ºC
Power Voltage	5V/0.5A via USB
Antenna Type	Built-in LoRa antenna and external antenna option
Interfaces	LED indicator
Dimensions	L:93.8 x W:21 x H:5.4mm
Weight	11 g
Security	AES 128

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SKU Detail			
SKU	Country	Channels	Frequency Band (MHz)
WLRUBS-100	USA	16	US915 (902~928)
WLRUBS-100_G78S	China	16	CN470 (470~510)

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