Zio Qwiic Lora Module 915MHz

SKU: 101966

Description:

This is a US compatible LoRa module (SX1276, 915MHz). LoRa module can send and receive data in a very long distance but consume very low power. We made a Qwiic version of this LoRa module, no soldering and jumper wire connections, just Qwiic cable plugin, and have fun!

LoRa module is powerful, it can send and receive data packets at up to 10KM distance, and consumes very low power (10mA for receiver, 120mA for transmitter).

LoRa itself is a SPI device, in order to turn it into a I2C device, we added a MCU (ATMEGA328P) as the gateway to do the dirty work for you, you just need to use the module's I2C interface to communicate with the others. It is just that easy.

The button on the board is for pairing function, check here for more details:
https://github.com/sparkfun/SparkFun_QwiicRF_Library/wiki

Note: This LoRa module is based on SX1276 RFM95W-915S2, the frequency is 915 MHz, check here to see if this can be used in your country.
https://www.thethingsnetwork.org/docs/lorawan/frequencies-by-country.html

Specification

- Voltage: 3.3V
- Interface: I2C
- LoRa IC: SX1276 RFM95W-915S2
- Distance: Up to 10KM
- Gateway MCU: ATMEGA328P
- Dimension: 26.0 x 41.6 mm
- Weight: 5.3g

Links:

- PCB Source file
- PCB schematic
- Demo Code
- Gateway firmware

More Product Picture: