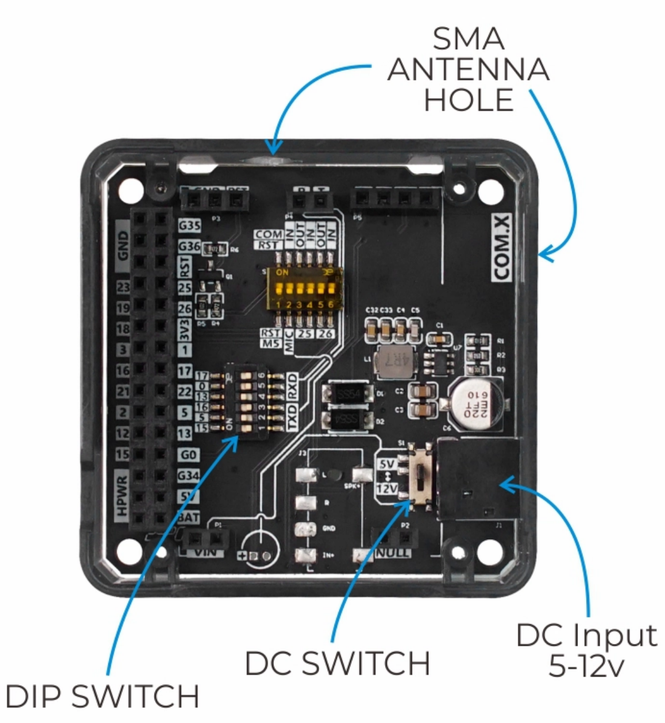
COM.LoRaWAN915

SKU:M031-C3



Description

COM.LoRaWAN915 is a LoRaWAN communication module suitable for 915MHz frequency launched by M5Stack. The module adopts the ASR6501 solution, which supports long-distance communication and has both ultra-low power consumption and high sensitivity. The module integrates the LoRaWAN protocol stack and adopts a serial communication interface (using AT command set for control), and can be used as a collection node to access a large number of gateways for data collection and management.

An external power supply is provided (5V-12V input can be adjusted by switching the dial on-board switches). The module fits for long distance low power IoT communication applications, such as deployment of environmental monitoring nodes.

> **Note:**
> This module supports `US915` band plan only. NOT supports `AU915` .

Notice

> When used with the **FIRE** main control, due to the PSRAM pin conflict, please switch the DIP switch pins of the module base to TX(0/13), RX(5/15), and the device can use USB/ External DC is used for power supply.

> When used with **Core2** series main control, due to the different order of the base pin array, COM.X base pins TX(16), RX(17) correspond to the actual pins TX(14), RX of the Core2 main control (13) The equipment needs to use external DC for power supply.

Product Features

- ASR6501
- Supported US915
- SMA antenna
- Communication interface: UART
- Command protocol: AT command

Includes

- 1x LoRaWAN915 Module
- 1x SMA antenna

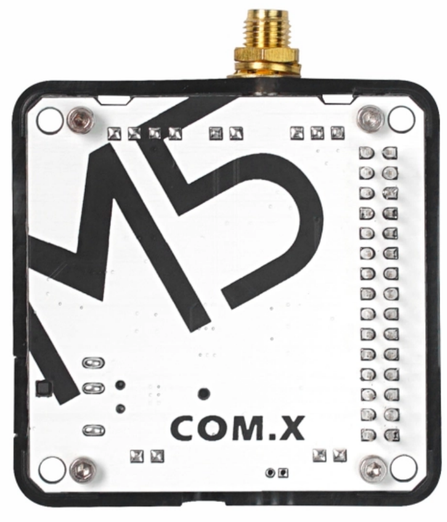
Application

- Automatic remote meter reading
- Intelligent traffic intelligent parking lot
- Remote irrigation and environmental monitoring

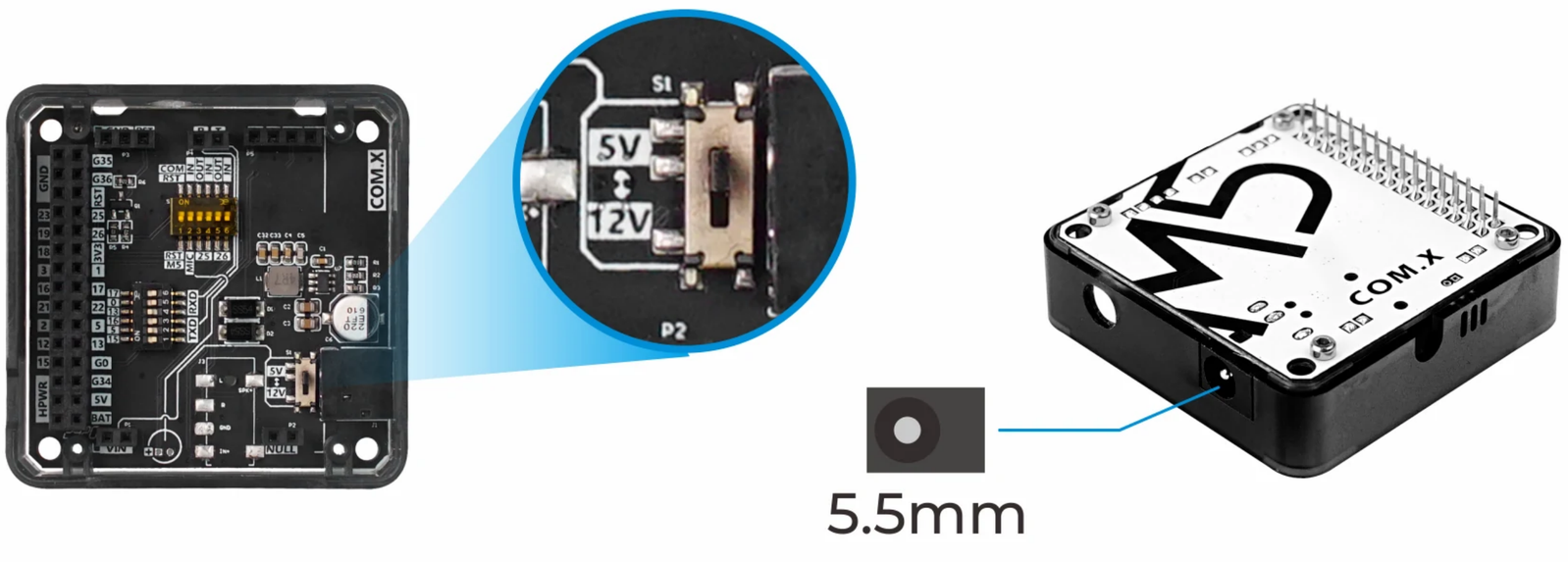
Specification

Specification	Parameter
UART baud rate	115200
DC interface specifications	5.5mm
Net weight	35g
Gross weight	72g
Product size	54.2*54.2*13.2mm

Specification	Parameter
Package size	165*60*36mm



The module base has a DC power input interface. Please strictly follow the input range (5-12V) to prevent damage to the module when using this interface to connect to the power supply. The internal power DIP switch can adjust the voltage level of the internal terminal VIN to adapt to different modules.



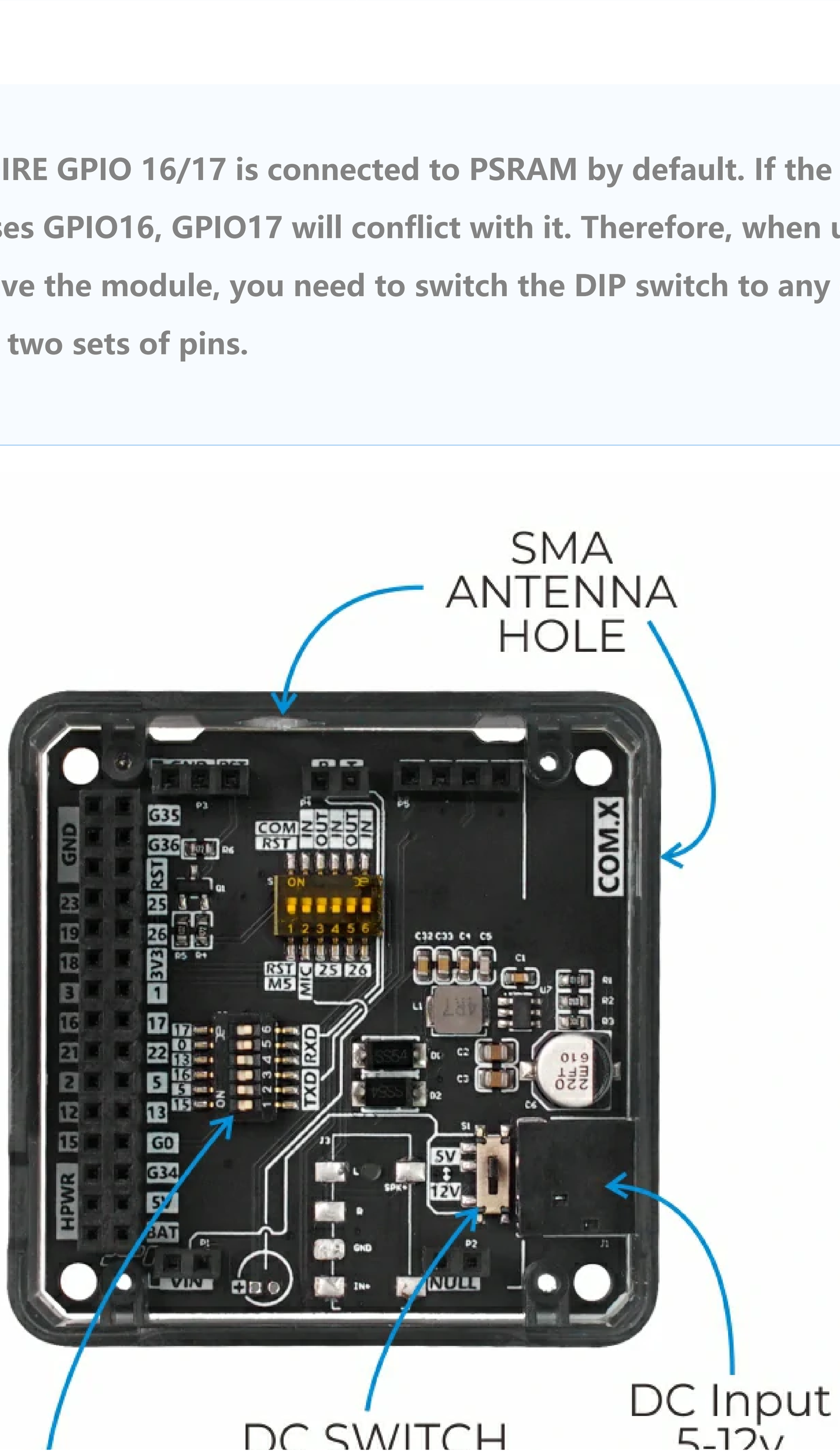
Major countries and regions supported by US915

Argentina / Canada / Chile / Colombia / Ecuador / Greece Guatemala / Jamaica / Mexico / Nicaragua / Panama / United States / Uruguay

Pin mapping

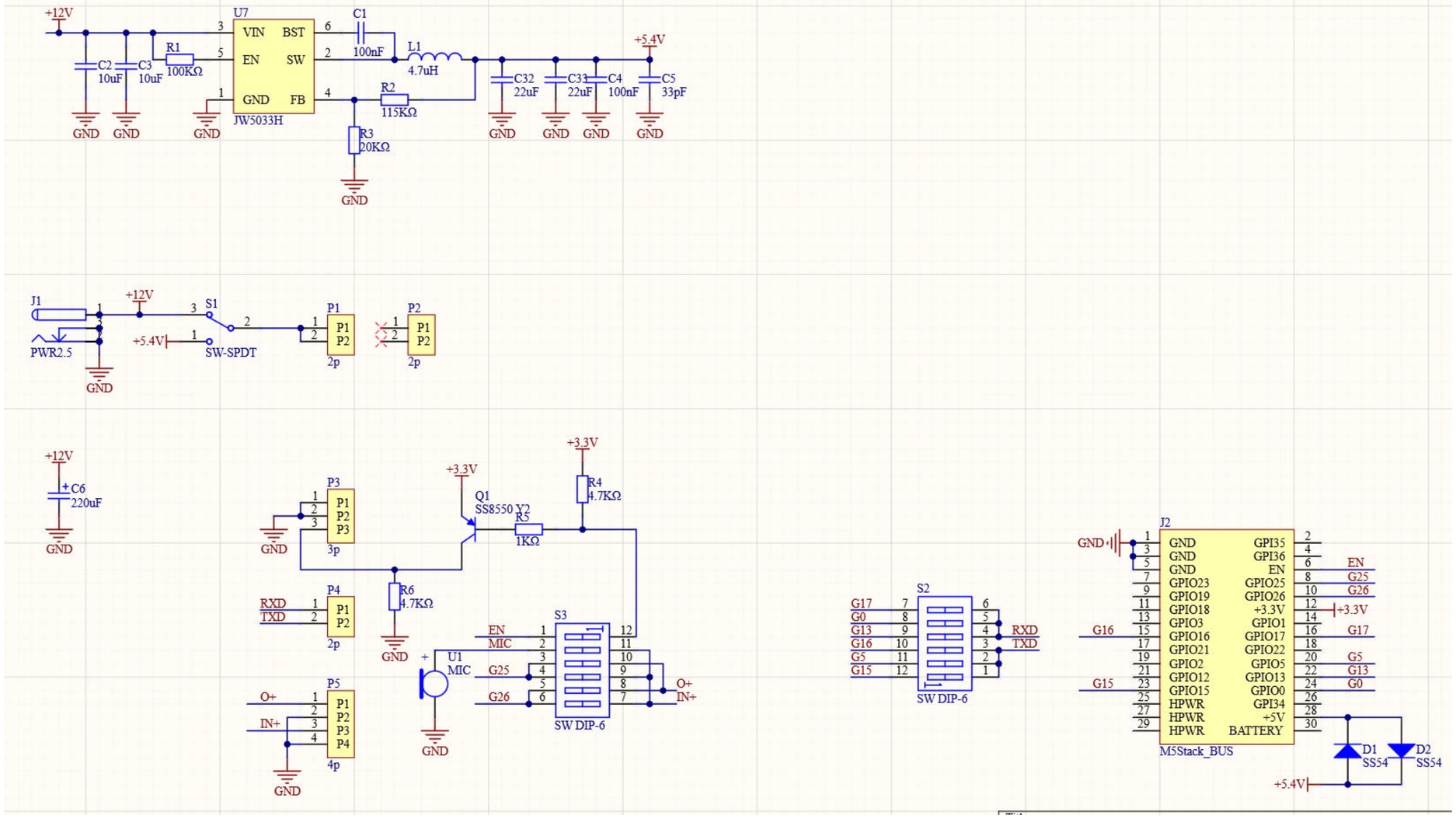
CORE	RX	TX
SW DIP-6 dip switch	G17/G0/G13	G16/G5/G15

M5Stack FIRE GPIO 16/17 is connected to PSRAM by default. If the TXD/RXD of this module uses GPIO16, GPIO17 will conflict with it. Therefore, when using M5Stack FIRE to drive the module, you need to switch the DIP switch to any one of the remaining two sets of pins.



Schematic

- The module plugs into the base



Related Links

- COM.LoRaWAN915 AT Command Set
- LoRaWAN Regional Parameters

Learn

M5Stack COM.LoRaWAN Using UIFlow

M5Stack recently released an updated LoRaWAN module. This tutorial teaches you how to connect it to The Things Network using UIFlow.

Example

- Arduino code example

Video