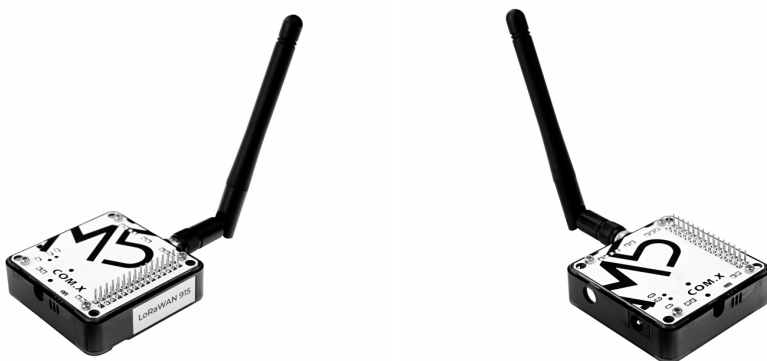
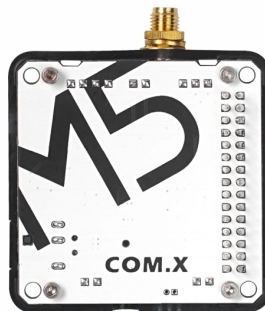
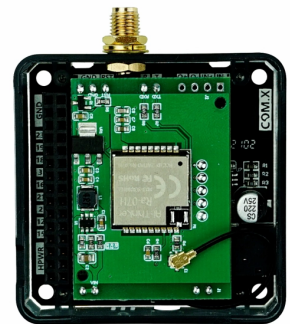
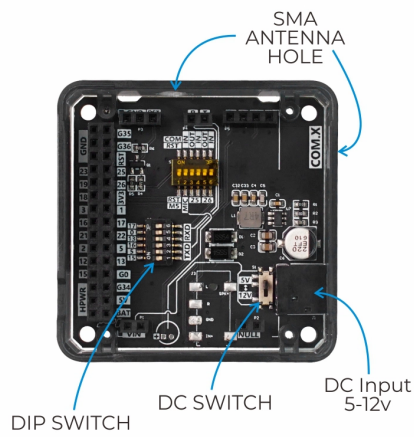
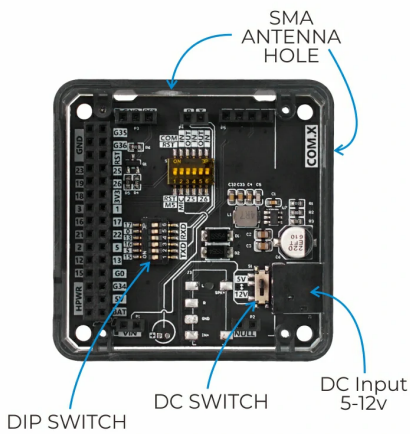


Module COMX LoRaWAN915

SKU:M031-C3





Description

Module COMX LoRaWAN915 is a LoRaWAN communication module launched by M5Stack for the 915MHz frequency. The module adopts the ASR6501 solution, supporting long-distance communication while featuring ultra-low power consumption and high sensitivity. The module integrates the LoRaWAN protocol stack and uses a serial communication interface (controlled by AT commands), making it suitable for data collection and management as a collection node when connected to a gateway in large quantities. It provides an external power interface (with a toggle switch to adjust between 5V/12V power input), making it suitable for long-range, low-power IoT communication applications such as environmental monitoring node deployment.

Note

Compatibility

When used with the Fire controller, due to PSRAM pin conflicts (G16/G17), please switch the module base toggle switch pins to TX(G0/G13), RX(G5/G15).

Frequency Band

The product supports the **US915** band by default and does not support **AU915**.

Features

- ASR6501
- Supports US915
- SMA antenna
- Communication interface: UART
- Command protocol: AT commands

Includes

- 1 x Module COMX LoRaWAN915
- 1 x SMA antenna
- 1 x Hex wrench

Applications

- Automatic remote meter reading

- Smart traffic and parking systems
- Remote irrigation and environmental monitoring

Specifications

Specification	Parameter
UART Baud Rate	115200
DC Interface Spec	5.5mm
Net Weight	35g
Gross Weight	72g
Product Size	54.2 x 54.2 x 13.2mm
Package Size	165 x 60 x 36mm

Learn

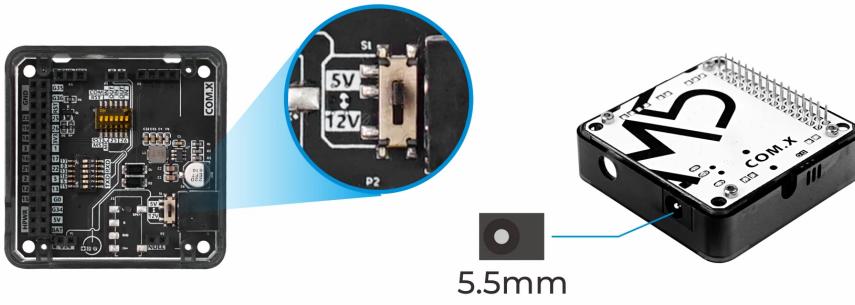
Main Countries and Regions Supported by US915

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



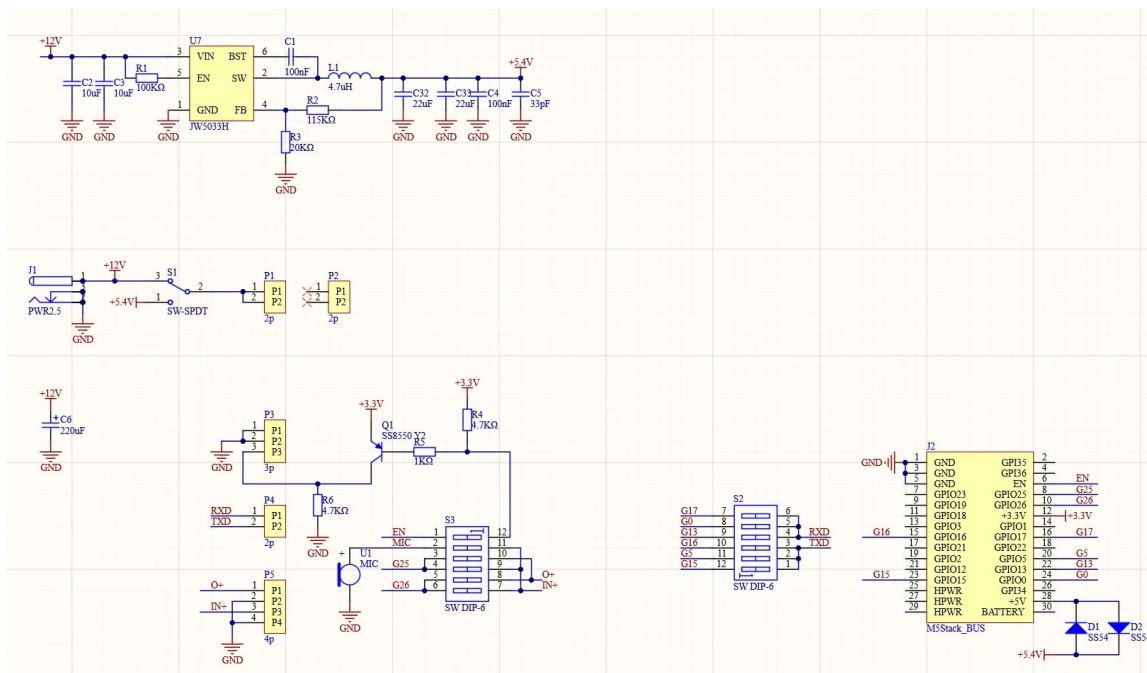
Power Switching

The module base has a DC power input interface. When using this interface to connect to a power source, please strictly adhere to the input range (5-12V) to prevent module damage. The internal power toggle switch can adjust the voltage level of the internal VIN terminal to adapt to different modules.



Schematics

Module COMX Baseboard Schematic



PinMap

Adjust the toggle switch to the corresponding pins based on different host requirements.

Controller	CoreS3	Core2	Core
RXD	17/0/7	14/0/19	17/0/13
TXD	18/1/13	13/33/2	16/5/15

M5-Bus

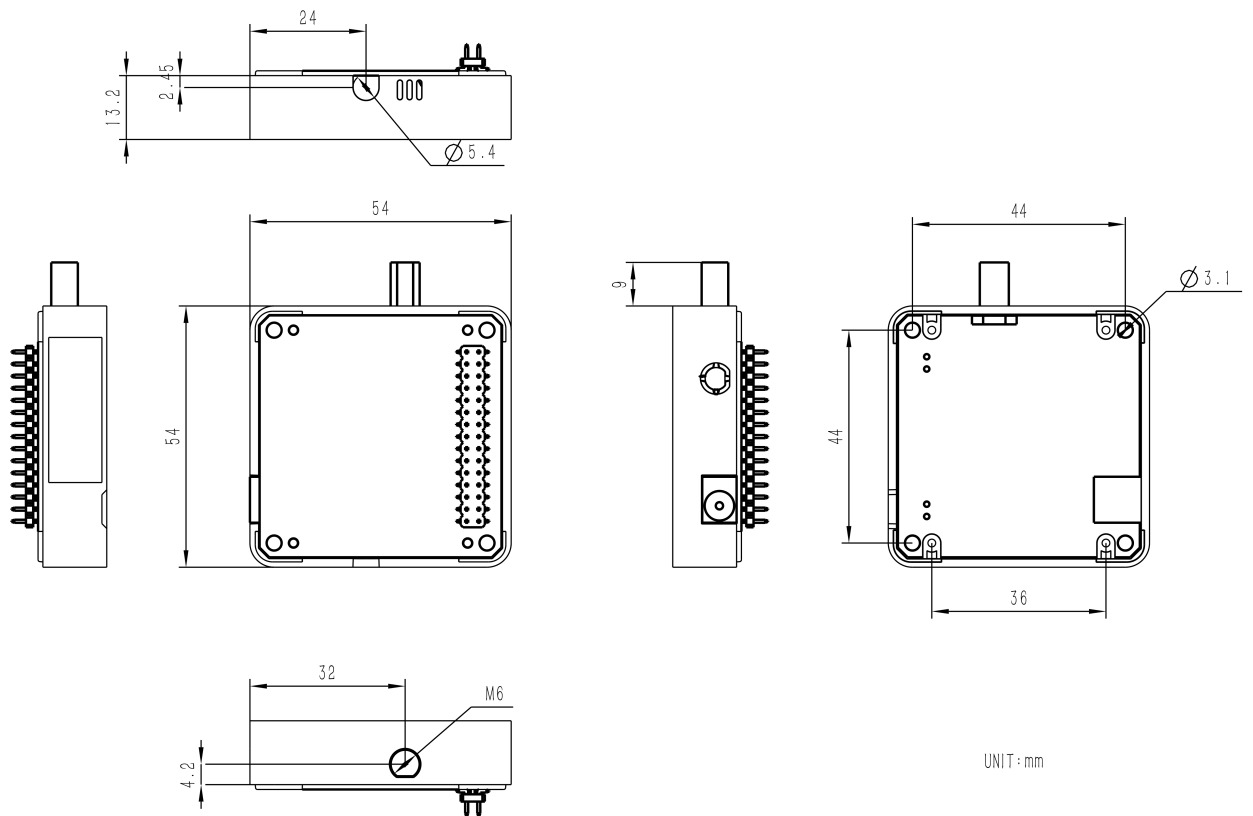
Switch

The pins marked **SW** on the M5-Bus below can be switched via DIP switches to adapt to different main controllers.

PIN	LEFT	RIGHT	PIN
GND	1	2	
GND	3	4	
GND	5	6	
	7	8	
	9	10	
	11	12	3V3
	13	14	
TXD (SW)	15	16	RXD (SW)
	17	18	
	19	20	TXD (SW)
	21	22	RXD (SW)
TXD (SW)	23	24	RXD (SW)
	25	26	
	27	28	5V
	29	30	

Model Size

- [Module COMX LoRaWAN915 Model Size PDF](#)



Datasheets

- [LoRaWAN Regional Parameters](#)

Softwares

Arduino

- [Click here to get the Arduino example code](#)

UiFlow1

- [Module COMX LoRaWAN915 UiFlow1 Docs](#)

Protocol

- [Module COMX LoRaWAN915 AT Command Set](#)

Video

[COM.LoRaWAN915.mp4](#)