

Module LoRa433

SKU:M005

NEW
LoRa-433



Built-in Antenna



433MHZ
Built-in Antenna

LoRa-433
MODULE

GPIO5->NSS
GPIO26->RST
GPIO36->IRQ



We are a global collaborative
Internet of Things ecosystem
that creates networks, devices
and solutions using
LoRaWAN®.

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TTN(The Things Network)

This tutorial will introduce how to implement a LoRaWAN470 gateway and node using the [Basic](#) host and [Module LoRa433](#), and communicate with [TTN](#).

Description

Module LoRa433 is a LoRa communication module (operating at 433MHz) in the M5Stack stackable module series. The module retains some expansion space for you to design more functions. Whether it's for basic wireless communication or projects with more customized elements, Module LoRa433 will be a suitable choice.

Features

- Module LoRa433: Ra-02
- Serial communication protocol: SPI
- Operating frequency: 433 MHz
- Supports FSK, GFSK, MSK, GMSK, LoRa™, and OOK modulation modes
- Receiver sensitivity: as low as -140 dBm
- Programmable bit rate up to 300Kbps
- Built-in PCB antenna
- External antenna interface
- Development platforms: Arduino, Micropython, UIFlow(Blockly)

Includes

- 1 x Module LoRa433

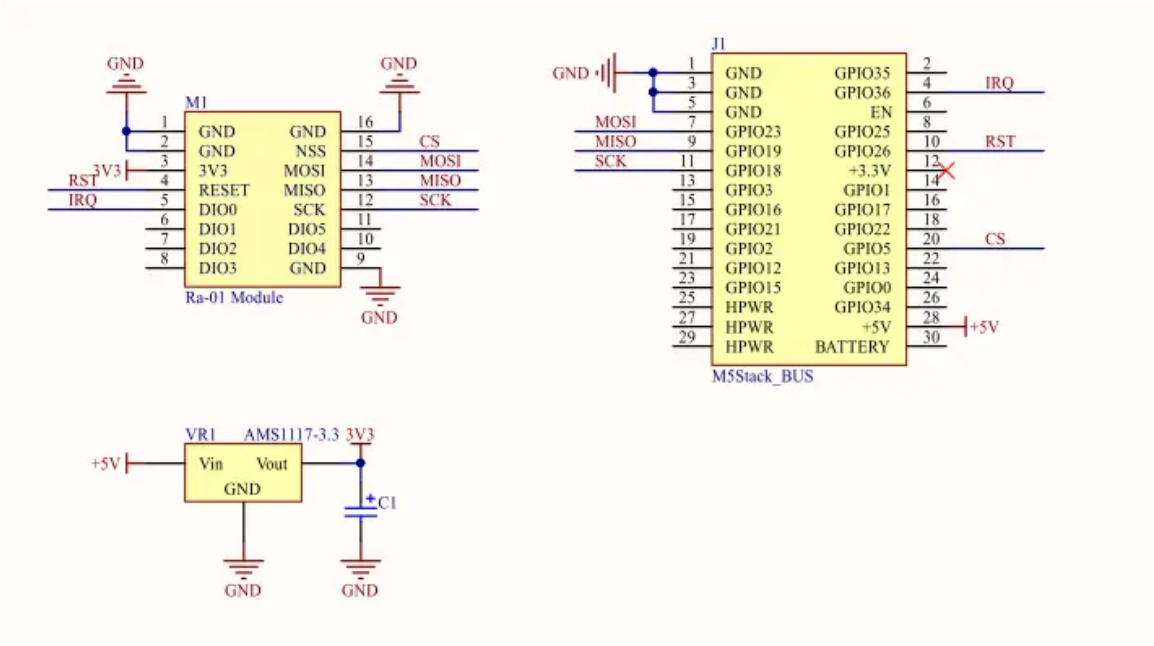
Applications

- Automatic meter reading systems
- Building automation

Specifications

Specification	Parameter
Net weight	13g
Gross Weight	24g
Product size	54.2 x 54.2 x 12.8mm
Package size	60 x 57 x 17mm

Schematics



PinMap

M5-Bus

PIN	LEFT	RIGHT	PIN
GND	1	2	
GND	3	4	IRQ
GND	5	6	
SPI_MOSI	7	8	RST
SPI_MISO	9	10	
SPI_CLK	11	12	
	13	14	
	15	16	
	17	18	
	19	20	CS
	21	22	
	23	24	
	25	26	
	27	28	5V
	29	30	

Datasheets

- [Ra-02_CH](#)
- [Ra-02_EN](#)
- [SX127X](#)

Softwares

Arduino

- [Module LoRa433 Arduino Library](#)
- [Module LoRa433 LoRaSender Example](#)
- [Module LoRa433 LoRaReceiver Example](#)
- [Module LoRa433 LoRaSetSpread Example](#)
- [Module LoRa433 LoRaDuplex Example](#)

UiFlow1

- [Module LoRa433 UiFlow1 Docs](#)

Easyloader

Easyloader	Download Link	Notes
Module LoRa433 LoRaDuplex Example Easyloader with M5Core	download	/