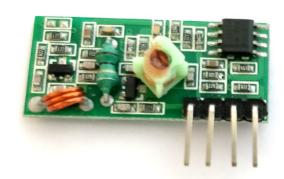


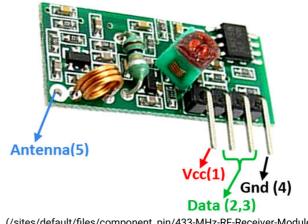
433 MHz RF Receiver Module

21 February 2018 - 0 Comments



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433 MHz RF Receiver Module



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433 MHz RF Receiver Module Pinout

Pin Configuration:

No:	Pin Name	Description
1	Vcc	Power supply (3V to 12V)
2	Data	Data received can be obtained from this pin
3	Data	It serves the same purpose (any one can be used)
4	Gnd	Connected to the ground of the circuit
5	Antenna	Solder wire/antenna to improve range (not mandatory)

433 MHz Module Specifications:

• Wireless (RF) Simplex Transmitter and Receiver



- Transmission Distance: 3 meters (without antenna) to 100 meters (maximum)
- Modulating Technique: ASK (Amplitude shift keying)
- · Data Transmission speed: 10Kbps
- · Circuit type: Saw resonator
- · Low cost and small package

Note: The datasheet can be found at the bottom of the page

Other RF modules:

HC12, nRF24l01 (https://components101.com/wireless/nrf24l01-pinout-features-datasheet), nRF905

Other Wireless options:

Bluetooth (https://components101.com/wireless/hc-05-bluetooth-module), Lora (https://components101.com/wireless/sx1278-lora-rf-module-features-dimension-datasheet), ESP8266 (https://components101.com/wireless/esp8266-pinout-configuration-features-datasheet), GSM (https://components101.com/tags/gsm), Xbee (https://components101.com/wireless/xbee-s2c-module-pinout-datasheet)

Where to use 433 MHz RF Modules:

The **433MHz wireless module** is one of the cheap and easy to use modules for all wireless projects. These modules can be used only in pairs and only simplex communication is possible. Meaning the transmitter can only transmit information and the receiver can only receive it, so you can only send data from point A to B and not from B to A.

The module could cover a minimum of 3 meters and with proper antenna a power supplies it can reach upto 100 meters theoretically. But practically we can hardly get about 30-35 meters in a normal test conditions.

So if you are looking for a simple wireless communication to transmit information within a short distance then these RF pair could be the right choice.

How to use 433MHz RF modules:

The module itself cannot work on its own as it required some kind of encoding before being transmitter and decoding after being has to be used with an encoder or decoder IC or with anv (https://components101.com/microcontrollers) on both ends. The simplest way to use it is with the HT12E Encoder (https://components101.com/ht12e-encoder-pin-diagram-datasheet) and HT12D Decoder IC (https://components101.com/ht12d-rfdecoder-ic).

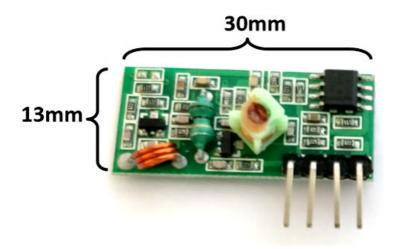


aistance form this module as this is very much susceptible to noise. The rage depends on the voltage supplied to Receiver and the noise present in the environment.

Applications:

- · Home automation
- · Transmit Serial data for short distance
- · Car security system
- · Wireless logging
- · Short distance communication

Dimension of the Module:



Component Datasheet

433 MHz RF Receiver Module Datasheet

(https://components101.com/sites/default/files/component_datasheet/433%20MHz%20RF%20

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