

NRF905 Transceiver 433MHz-Wireless Module

From ElectroDragon

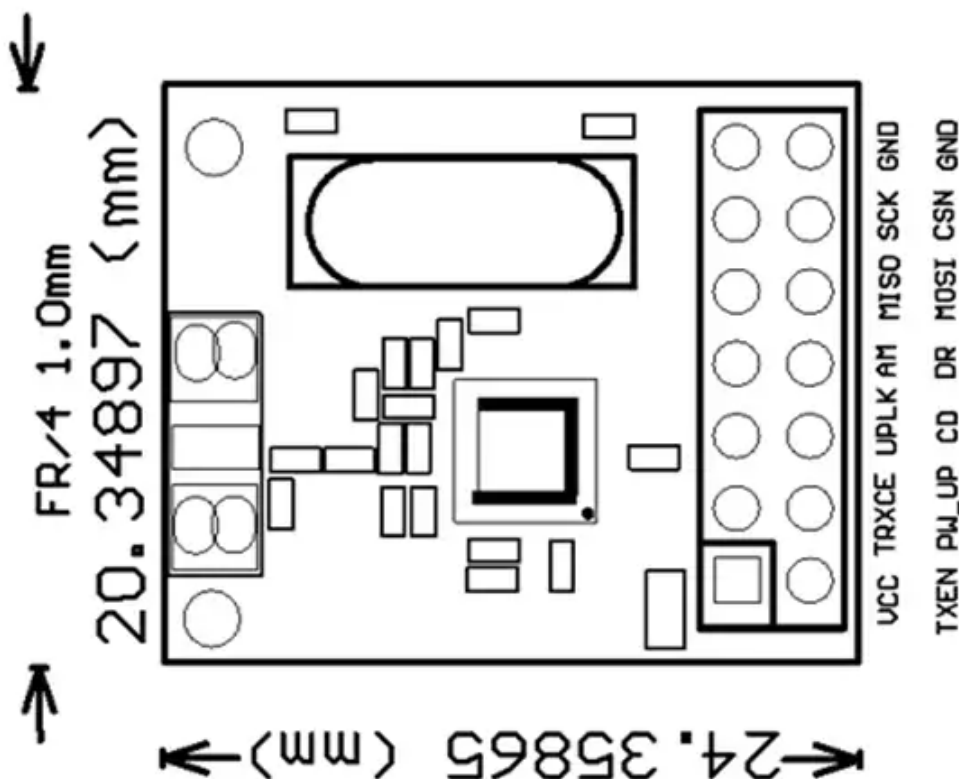
Contents

- 1 Size
- 2 Pin Definition
- 3 Example_with_arduino
 - 3.1 Usage
- 4 Documentation

Share |

8+1

Size

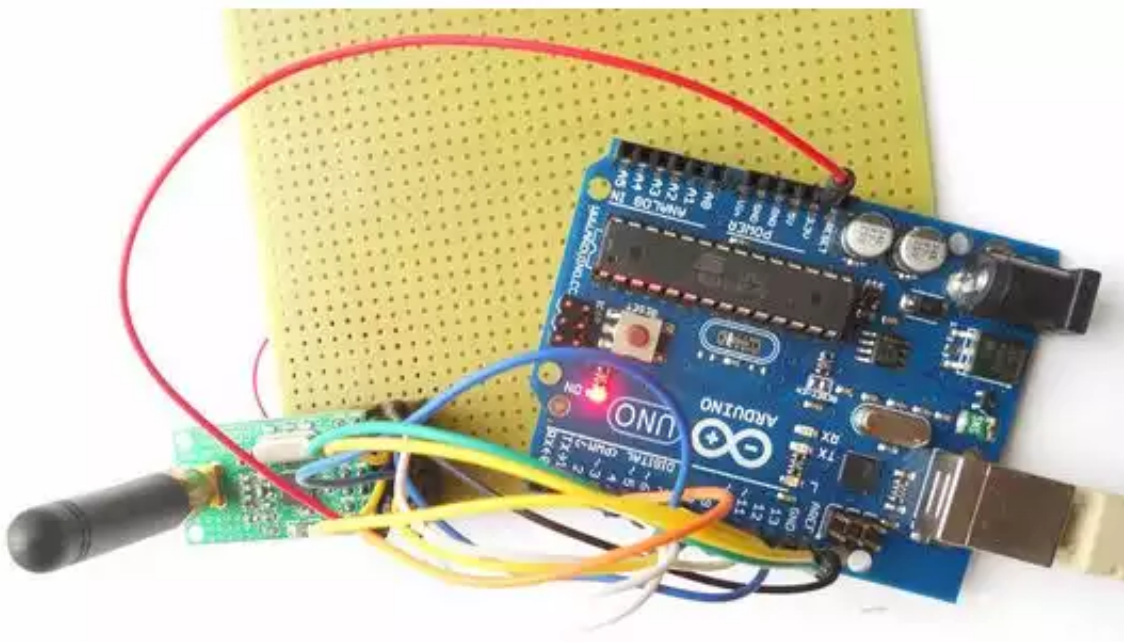


Pin Definition

- VCC ---- Power supply.
- TXE ---- RF module mode selecting.
- CE ---- Enable RF module for transmit and receive.
- PWR ---- Power up chip.

- CLK ---- Output clock, divided crystal oscillator full swing clock.
- CD ---- Carrier detect.
- AM ---- Address matched.
- DR ---- Receive and transmit ready.
- MISO ---- SPI master input slave output.
- MOSI ---- SPI mater output slave input.
- SCK ---- SPI clock.
- CSN ---- SPI enable.
- GND ---- Ground
- GND ---- Ground

Example_with_arduino



UNO	nRF905	UNO	MEGA	nRF905	MEGA
3V3	VCC	TXE	5	TXE	5
4	CE	PWR	3	PWR	3
NC	CLK	CD	7	CD	7
9	AM	DR	8	DR	8
12	MISO	MOSI	11	MOSI	51
13	SCK	CSN	10	CSN	10
GND	GND	GND	GND	GND	GND

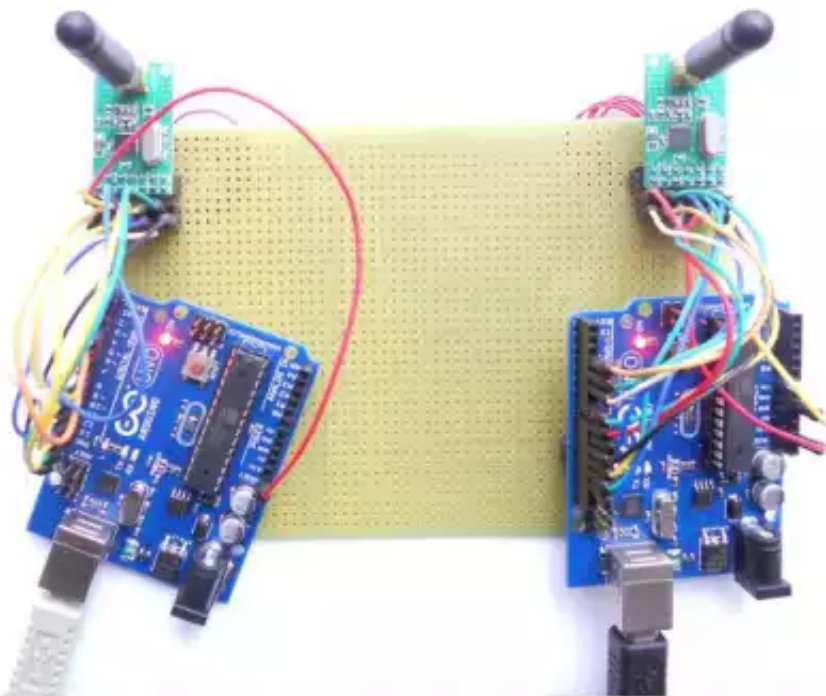
Usage

There are two examples in this code, one is sending data and another is receiving data.
 File: Get the code here (<http://www.electrodragon.com/wp-content/uploads/2011/11/NRF905-for-arduino.zip>) .

Set different bands for different countries, here is very easy to change:
`nrf905.write_config(US);` Just enter your country or area as a parameter in this function.
In fact, you have choices:

Country	Band
US	908.42Mhz
EU	868.42Mhz
Africa	868.42Mhz
China	868.42Mhz
HK	919.82Mhz
Japan	853.42Mhz
Australia	921.42Mhz
New_zealand	921.42Mhz
Brasil	921.42Mhz
Russia	896Mhz

upload the two examples into two arduino boards, one for sending and other one for receiving:



On the receiving end, you should be able to see:
Hi, Arduino 0,
Hi, Arduino 1,
Hi, Arduino 2,

Documentation

- Nrf905 datasheet - File:Product Specification nRF905 v1.5.pdf
- Schematic - File:XL905-51-schematic.pdf
- Demo Code with atmega 16 (<http://www.electrodragon.com/wp-content/uploads/2011/11/ATmage16-codes-for-Nrf905.rar>)
- Code for arduino (<http://www.electrodragon.com/wp-content/uploads/2011/11/NRF905-for-arduino.zip>)

Retrieved from "http://www.electrodragon.com/w/index.php?title=NRF905_Transceiver_433MHz-Wireless_Module&oldid=4606"

Category: Wireless

- This page was last modified on 6 July 2013, at 12:39.
- This page has been accessed 14,555 times.