2KM Long Range RF link kits w/ encoder and decoder

This is a super long-range 433mhz RF link kit. It comes with VCO, PLL technology, steady frequency and super anti-jamming ability. You can directly use it with your projects, like wireless data transport, remote control, etc.

Specifications

Parameter	Value
Working voltage	Receiver(3-5V), Transmitter(3-9V)
Working current	≤2.5mA(5.0VDC)
Principle of operation	Superhet（VCO, PLL）
Modulation	OOK/ASK

Parameter	Value
Working band	433.92MHz (customized service available)
Bandwidth	1.5MHz
Sensitivity	-105dBm (50Ω)
Rate	＜5Kbps
Decoding form	PT2272
Antenna length	18cm
Transmission range	2 km

Application Ideas

- Wireless switch
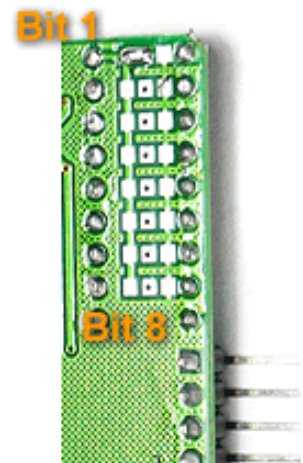- Remote transmission
- Wireless control

Hardware Overview

Three state for each coding bit, solder corresponding bit for pairing.

Example:
- Float, do nothing
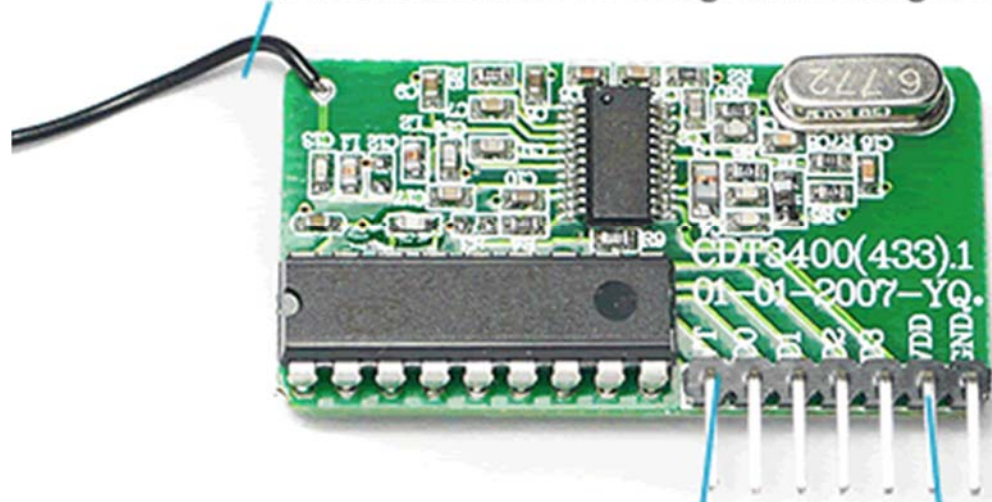- High, solder pin to the left pad
- Low, soler pin to the right pad

Transmitter

Explanation on coding.

SEEED STUDIO

Receiver

4. Antenna should be straignthen during usage.
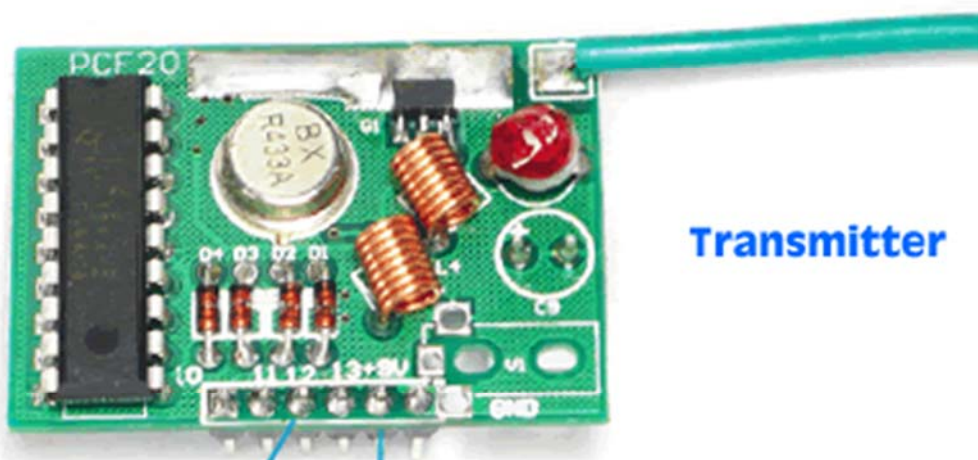
CDT8400(433).1
01-01-2007-YQ.

Receiver

1. VT Output high when signal received.

3.VDD 5V

2. Data output same as transmitter input

PCF20

Transmitter

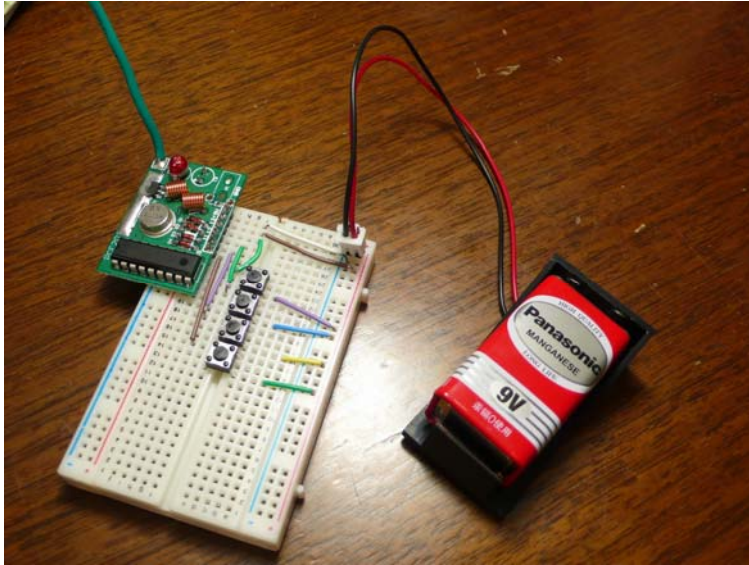**From left to right: D1, D2, D3, D4**

Vcc 5VDC

Wiring Scheme

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Getting Started

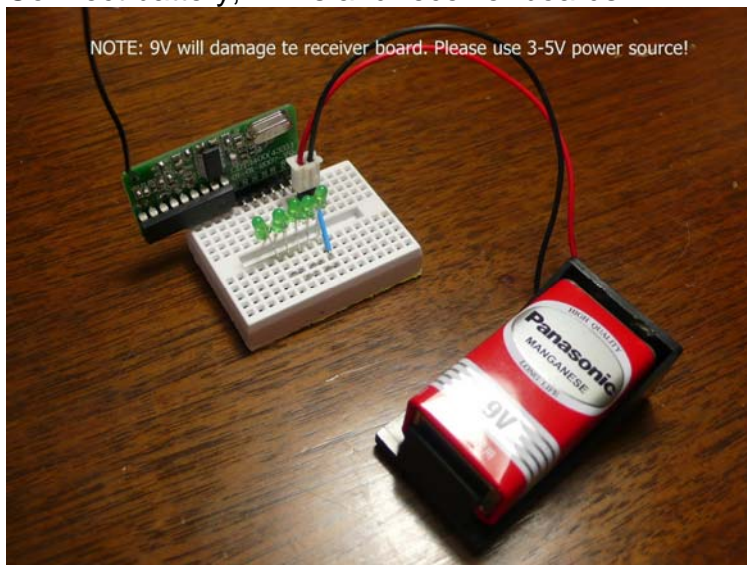- Please follow the Instruction to hook up the communication system.
- Connect battery, button and transmit boards.

Note
Please use 3-5V power source! 9V will damage the receiver board.

Connect battery, LEDs and receiver boards.

Note
Do not put RX module and TX module too close: this would prevent them to work. Make sure that the RX module and TX module are at least 1 meter away from each other.

- When we press the button on the Transmitter side, the related LED on receiver side will be turned on.

Resources

- **[Instruction]** Transmitter and receiver Setup Manual

https://github.com/SeeedDocument/2KM_Long_Range_RF_link_kits_w_encoder_and_decoder/raw/master/res/2KM_RF.rar

- **[Datasheet]** Datasheet for PT2272 and PT2262

http://www.datasheetcatalog.org/datasheet/PrincetonTechnologyCorporation/mXusxsq.pdf

Tech Support

Please submit any technical issue into our forum or drop mail to techsupport@seeed.cc.