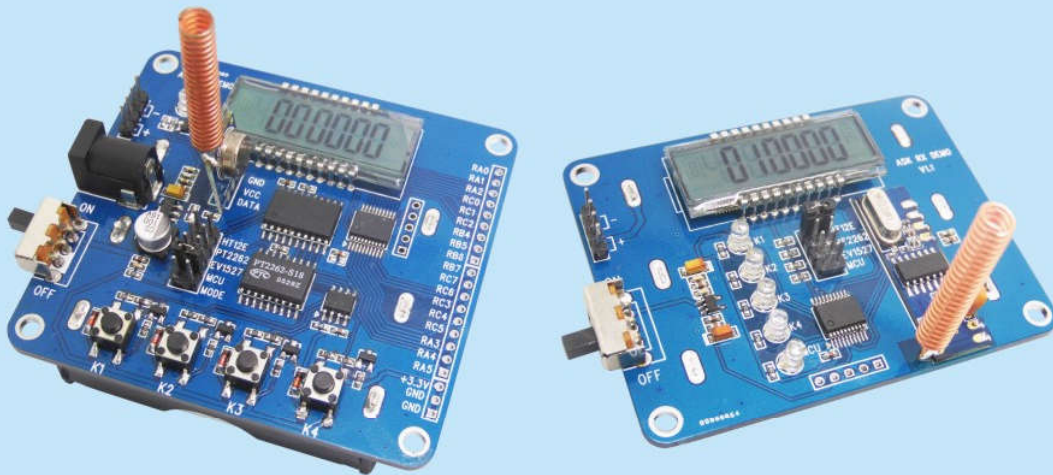




NiceRF Wireless Technology Co., Ltd.

## Product Datasheet V1.0

### ASK DEMO Kit



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Tel: 86-755-23080616      Fax: 86-755-27838582  
Email: sales@nicerf.com      Web: www.nicerf.com  
Address: 4th floor of DuoTai Bldg, Anle Industrial Zone,  
Area 43, Baoan Dist, Shenzhen, China

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## Note: Revision History

Revision	Date	Comment
V1.0	2015-8-7	First release

## 1. Introduction:

ASK demo Kit include transmitter kit and receiver kit. In the transmitter, several encoders (HT12E, EV1527, PT2262 and MCU ) are included. In the receiver, the MCU decode the signal for all the encoders. With this demo, user can evaluate the performance of the RF module. It is easy to use and helpful especially in field test. Customer can contact sales for the source code related to this demo kit.

**Transmitter kit is for STX882.**

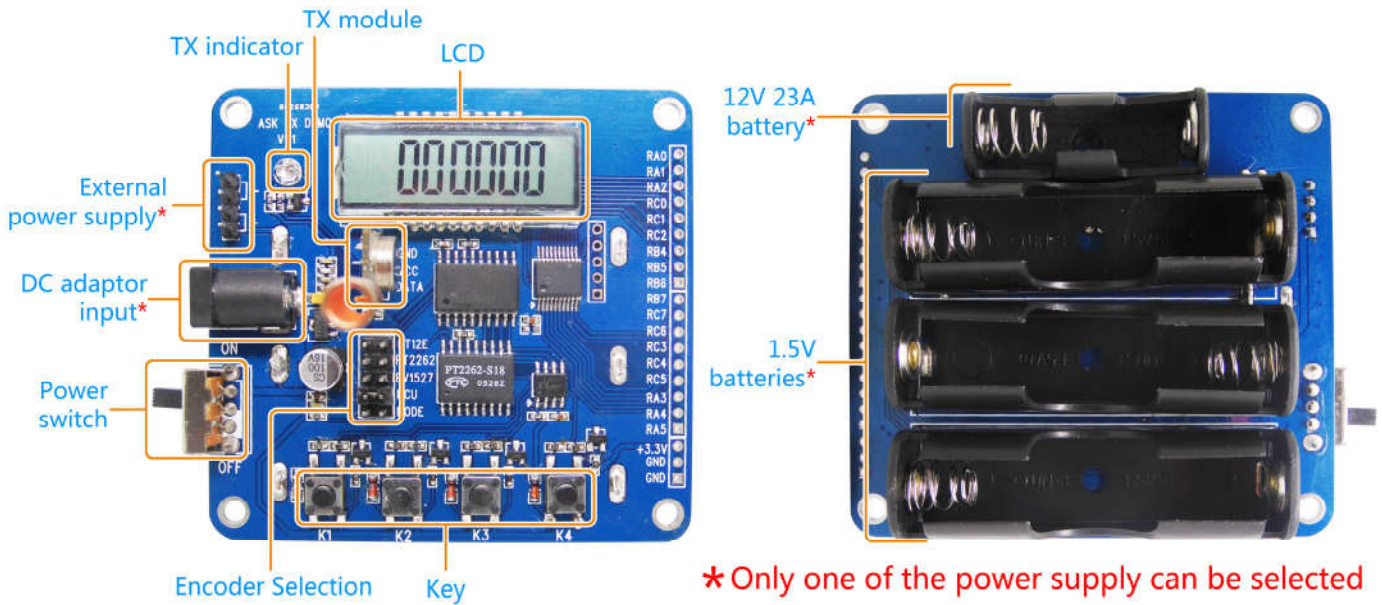
**Receiver kit has 2 versions, one for SRX882, another for SRX887.**

## 2. Features:

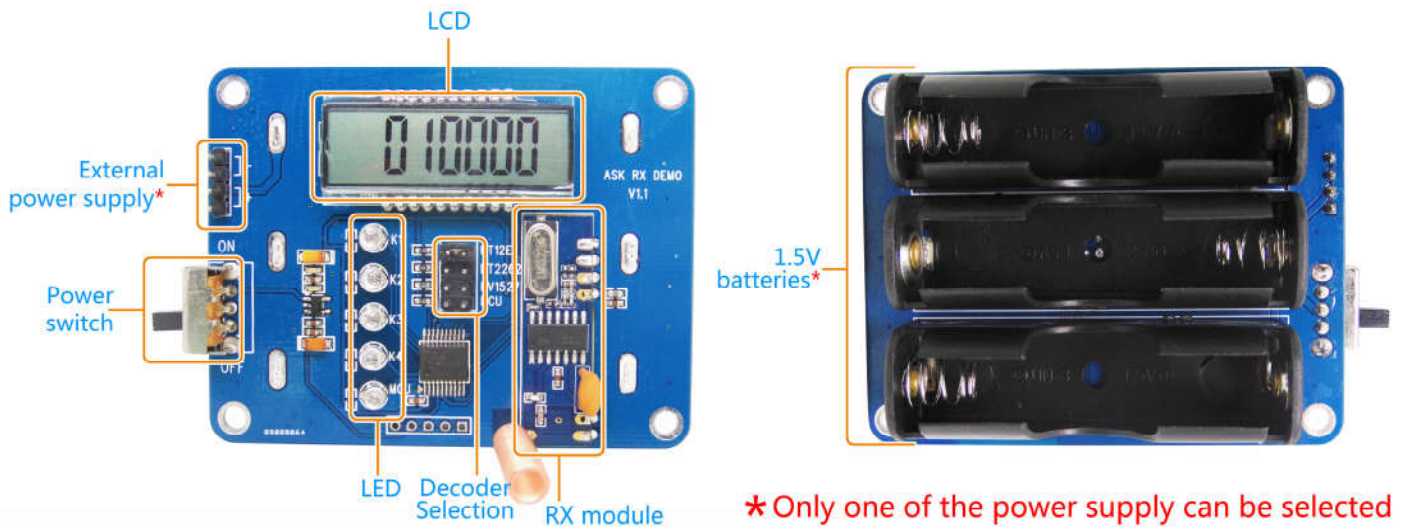
- HT12E / EV1527 / PT2262 / MCU encoder
- LCD display
- 3V ~ 12V
- Very easy to use
- Manchester encode / decode
- High stability in varies nvironment
- Superheterodyne modulation
- Wild voltage range

### 3. Overview:

#### Transmitter



#### Receiver



### 4. Operation:

#### Operation Steps:

1. Power on.
2. Select the encoder and decoder ( both the transmitter and receiver should be same)
3. Start to Tx and Rx by pressing key or transmit automatically

## 5. Detailed Description

### 5.1 Power supply ( Transmitter / Receiver )



1. External power supply
2. 5V DC adaptor (Transmitter only)
3. 12V 23A battery (Transmitter only)
4. AA battery

**Note: Only one of the power supply can be selected , the voltage range is 3V ~ 12V**

**5.2 Encoder selection**

1. The encoder is selected when short caps put on
2. The encoder on the Transmitter and Receiver should be same.
3. Only one encoder can be selected, for example:

**Transmitter**



**Receiver**



Encoder HT12E is selected.

4. MODE selection is valid only when MCU is selected, and it will enter automatic mode when it is valid ( Both MCU and Mode has cap on). In automatic mode it send message every 1s automatically.

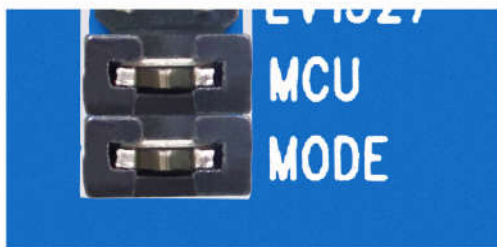
**Transmitter**



**Receiver**



Key mode ( key trigger the transmission)



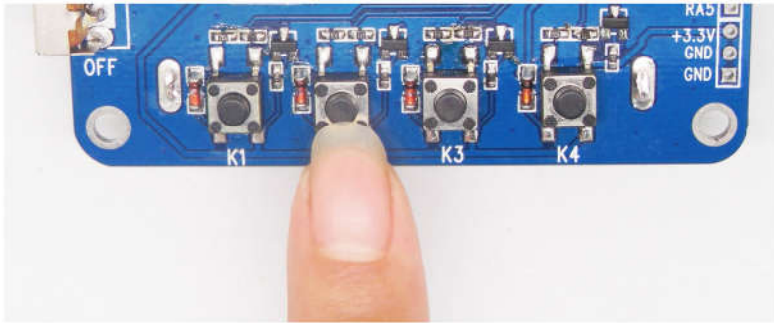
Automotic mode



## 5.3 Key & LED

1. The LEDs of the receiver are corresponding to the keys on the transmitter
2. The led of MCU will light on when in automatic mode

**Transmitter**



**Receiver**



## 5.4 LCD

The LCD display reset to 000000 after power on, and increase 1 when one packet send out or received

**Transmitter**



**Receiver**



**6. FAQ:**

- a) Why can not communicate?
- 1) Check if there is power connection error,if DEMO in normal working;
  - 2) Check if the transmitter and receiver decode and encode mode are the same;
  - 3) Check if module are broken (see if the light flash when power on)
- b) Why transmit range is not long?
- 1) Power supply ripple is too large;
  - 2) Antenna type does not match or improperly installed;
  - 3) Surrounding co-channel interference;
  - 4) The surrounding environment is harsh, strong interference sources;

**7. Order list**

**The Receiver Kit has 2 version, one is for SRX882, and another is for SRX887. Users should advise the correct version before release order**

<b>Product Name</b>	<b>Description</b>
ASK 882 DEMO Kit	STX882 transmitter kit & SRX882 receiver kit
ASK 887 DEMO Kit	STX882 transmitter kit & SRX887 receiver kit