

**DEMO-A- 0W5**

**Walkie talkie module**

**Demo board/ Development board**

DEMO-A-0W5



01

DEMO-A outline

02

Development interface

03

Voice intercom

04

Parameter setting

05

Data transfer

## Fast evaluate

Just mount Antenna,  
Speaker ,Battery ( recommend 3.6-  
4.2V ) ,it can works.

## Voice intercom demo

Just press PTT key , then can make  
voice intercom

## Data transfer demo

USB2UART tools connected to PC and  
demo board , then you can send SMS via  
UART software.

01

OPTION

02

OPTION

03

OPTION

04

OPTION

05

OPTION

## Parameter setting demo

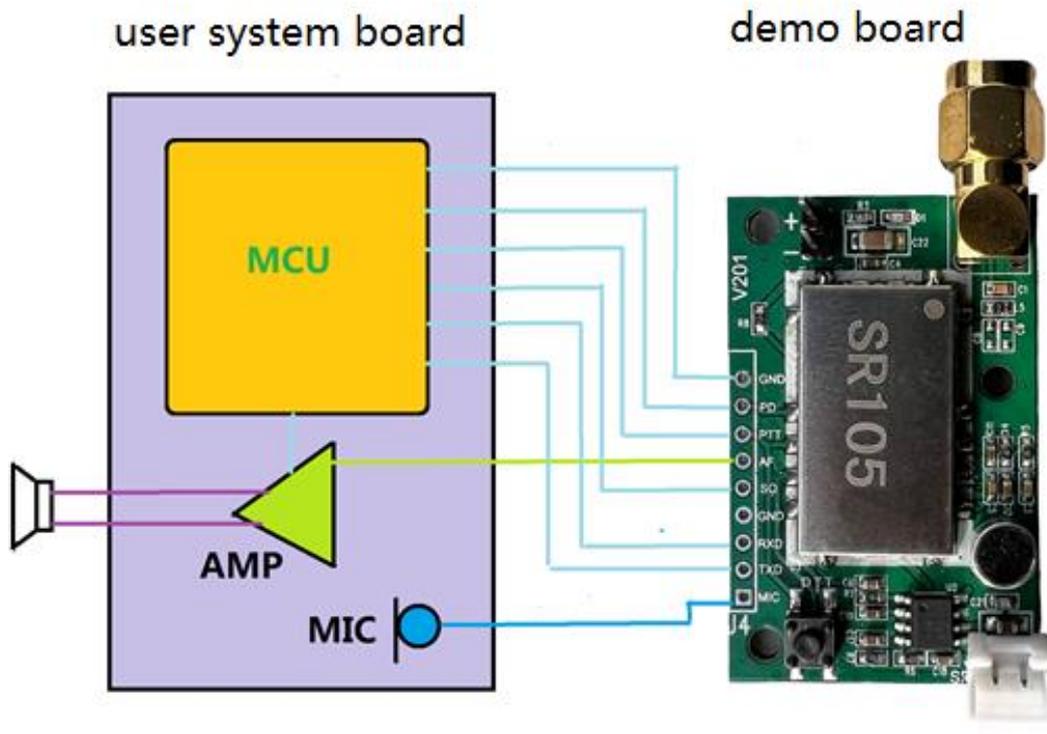
USB2UART tools connected to PC and  
demo board, you can set these  
parameter on PC UART software, such  
as Volume, Mic sensitivity, VOX level,  
SQL level , etc.

## Fast develop

Demo board reserved all  
interface , it is easy for  
connect user board for  
product developlment.



## Development interface



01

TXD RXD GND

Module para setting interface

02

PD

MCU control module ON/OFF

03

PTT

MCU control module transmit

04

SQ

Detect if received a valid RX signal

05

MIC

User mic into demo board

06

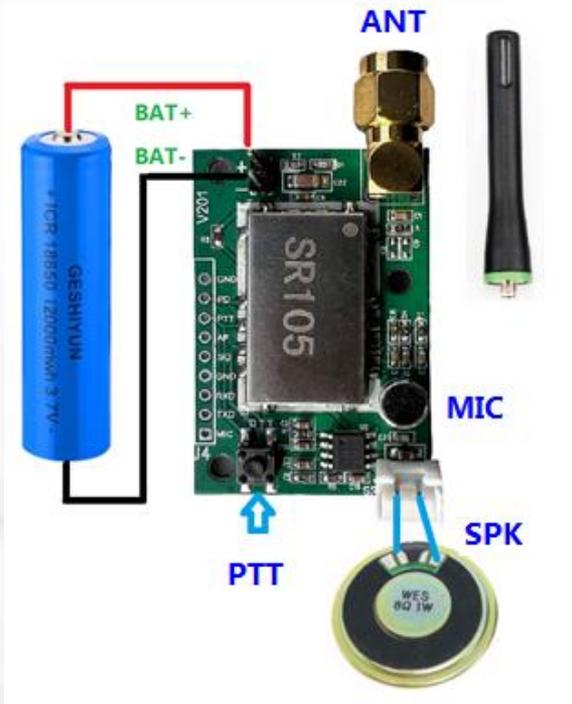
AF

Audio to user board

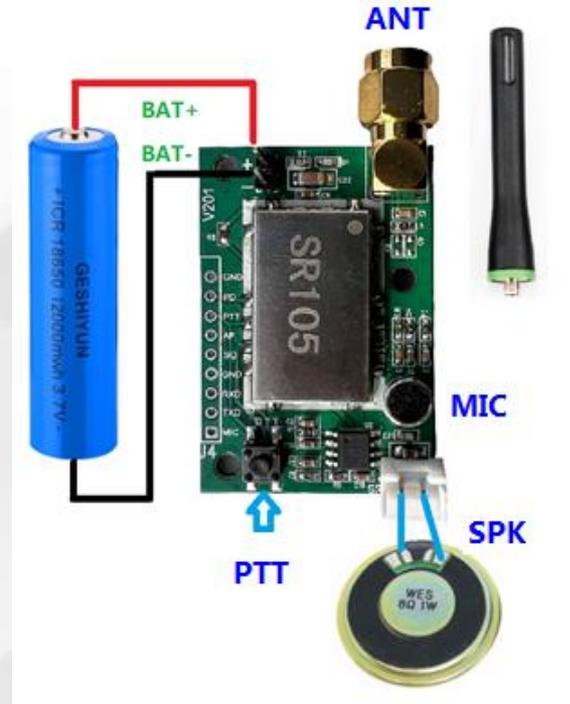
3-1

# Voice intercom demo

# DEMO-A-0W5



A board



B board

1

## Preparation

Mount battery, ant, speaker

2

## Voice intercom

Press PTT key for talk;  
Release PTT key for listen

3

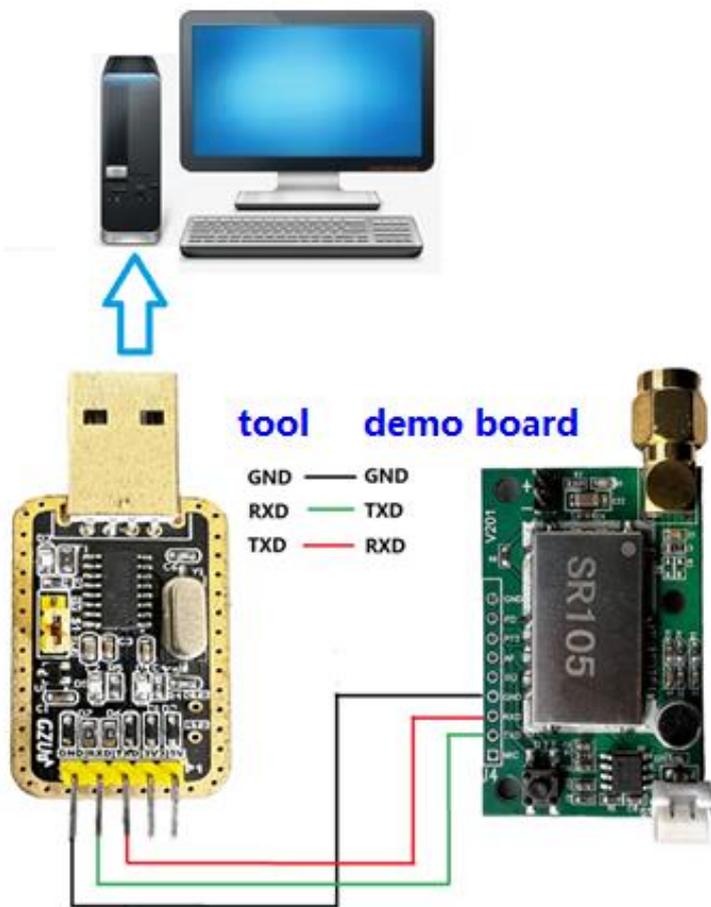
## squeaking

Keep A, B board far away

4

## Not intercommunicate

Check power supply ;  
Make A,B has same Frequency  
And CTCSS/CDCSS



1

## UART connection

Board **TXD,RXD** connect with  
 Tools **RXD,TXD** (crossing-link) ;  
 UART is TTL ;  
 9600 , 8 , N, 1

2

## U S B connection

Connect Tools USB with  
 PC USB port

3

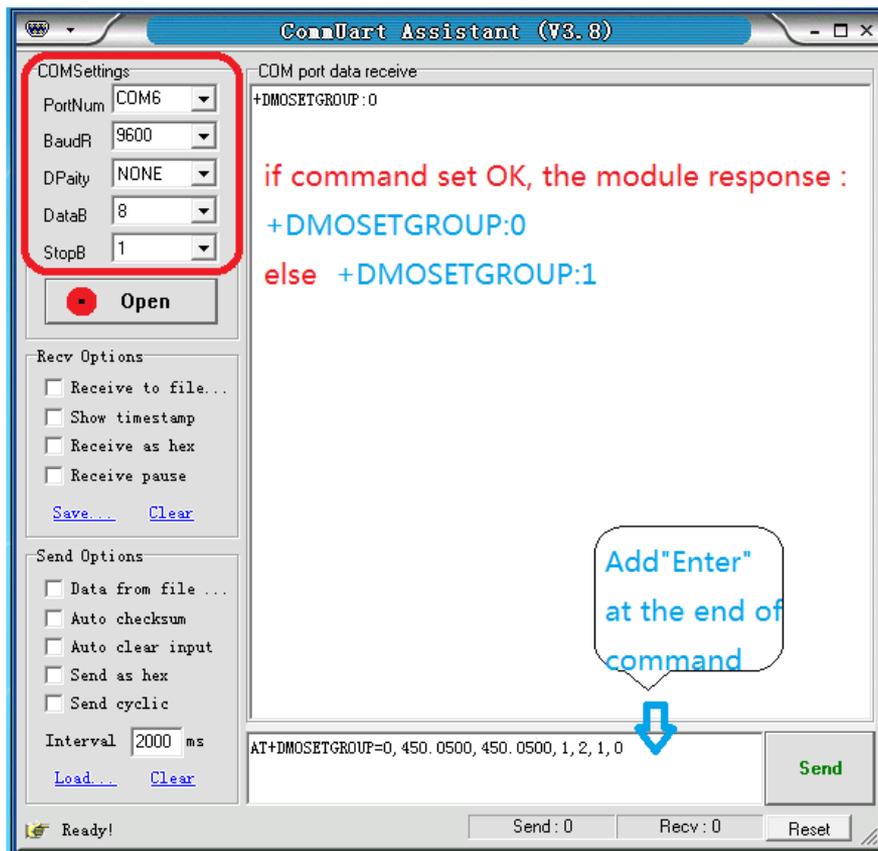
## Board power supply

3.3-5V, recommend 3.6-4.2V

4

## Setting kept

After setting, parameter can be kept after power down



01

## Parameter setting

Must add "enter" at the end of command;

02

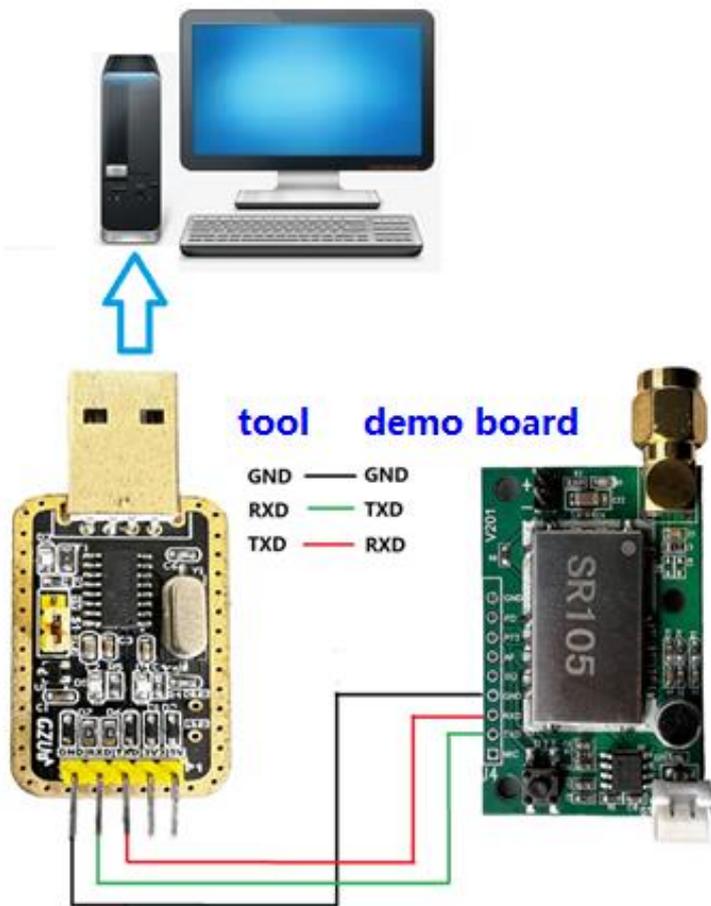
## Command response

: 0 OK  
: 1 NG

03

## comment

0 . 5 W , 1 W Command is different with 2 W , 5 W ; please refer to spec.



01

## UART connection

Board **TXD,RXD** connect with Tools **RXD,TXD** (crossing-link) ;  
 UART is TTL ;  
 9600 , 8 , N, 1

02

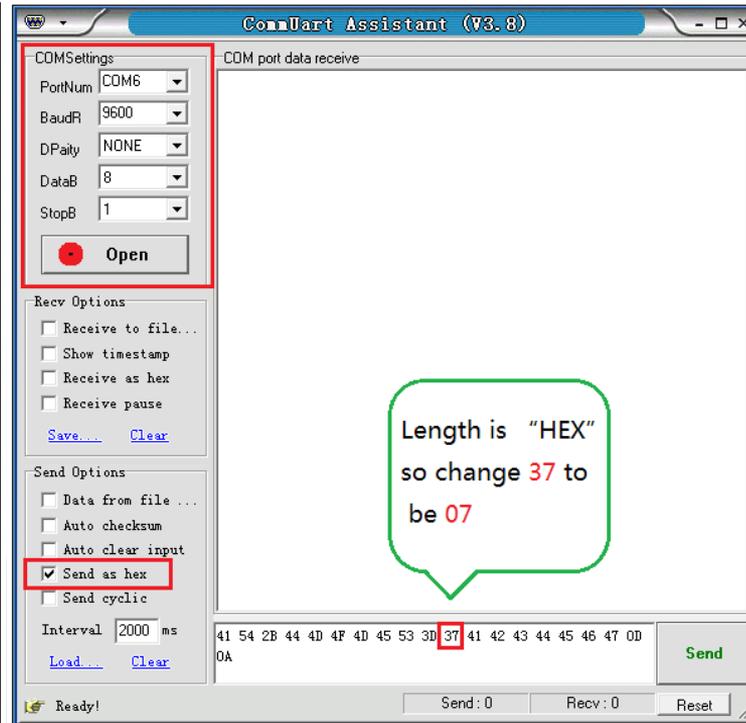
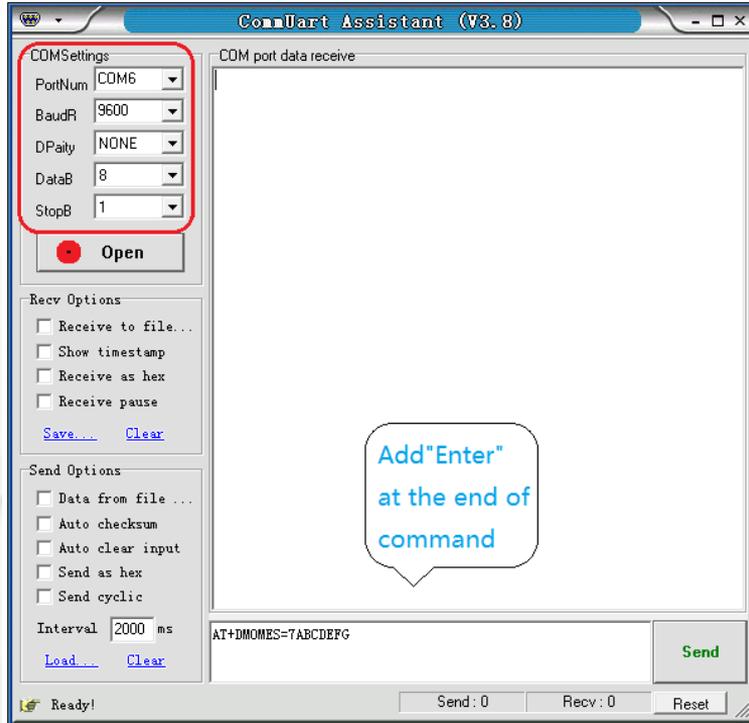
## U S B connection

Connect Tools USB with  
 PC USB port

03

## Data transfer/SMS

Command refer to module  
 spec.



01

Input SMS

An "enter" is must

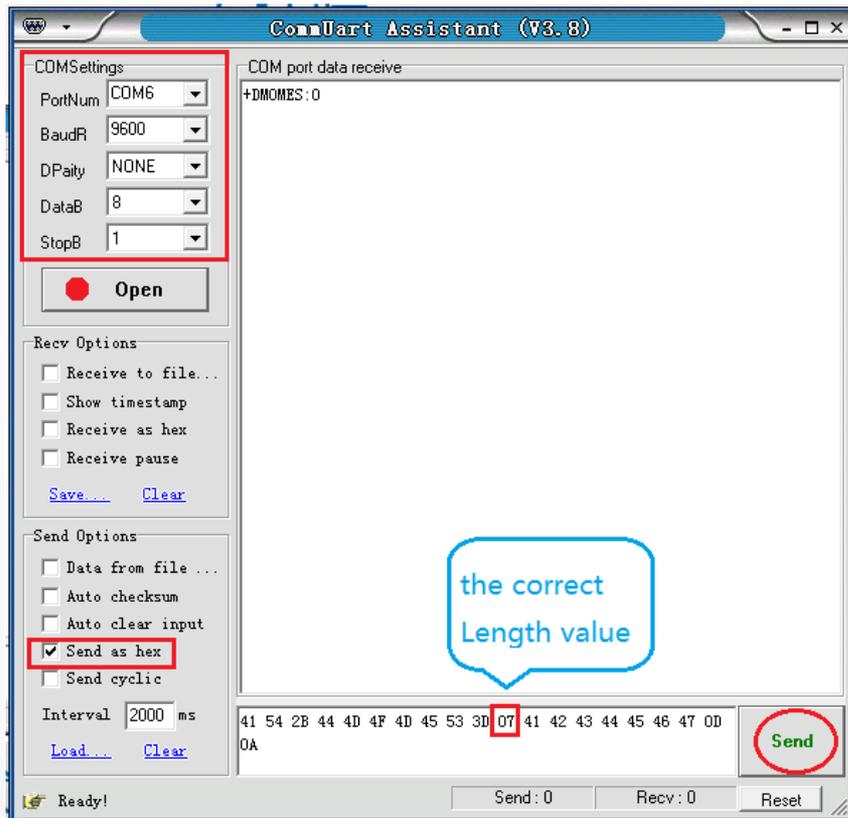
02

Length

The Length should equal the SMS content quantity

1 ) Type command with TEXT

2 ) Then switch to "send as hex"



1 ) Change “37” to be “07”, then “send”

01

## Length

Length is “HEX” ,  
Change TEXT”7” to be HEX”07”

02

## Response

: 0 OK  
: 1 NG

03

## Comment

The response “:0” just means the TX side finished the message sending, it doesn’t mean the RX side can get the message;

01

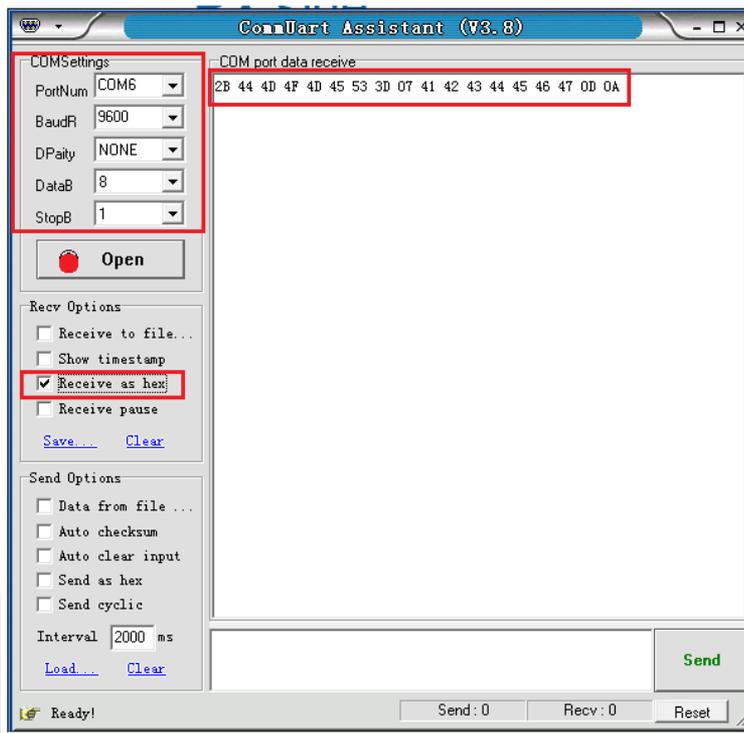
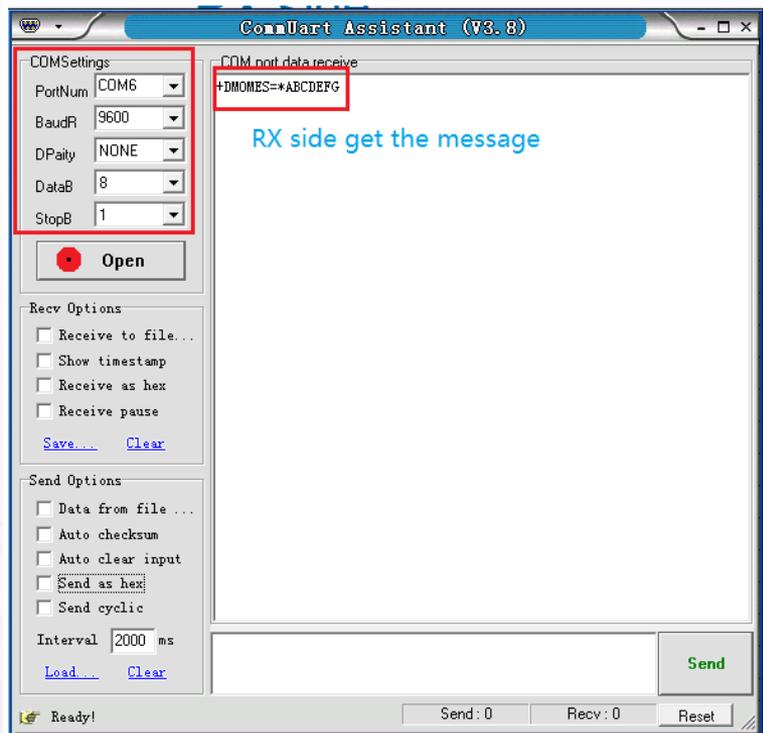
## RX SMS Upload

RX side received message, it sending the message to HOST/MCU automatically

02

## Response

RX side no need send response to module ;



## **HARDWARE SUPPORT**

Application circuit  
package  
Application notes

## **Software support**

Demo code

Service

## **Solution support**

Assist solution design  
Technology consulting

## **Custom order**

Frequency  
power  
size  
function

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