User Guide of HC11 Wireless transfer Module
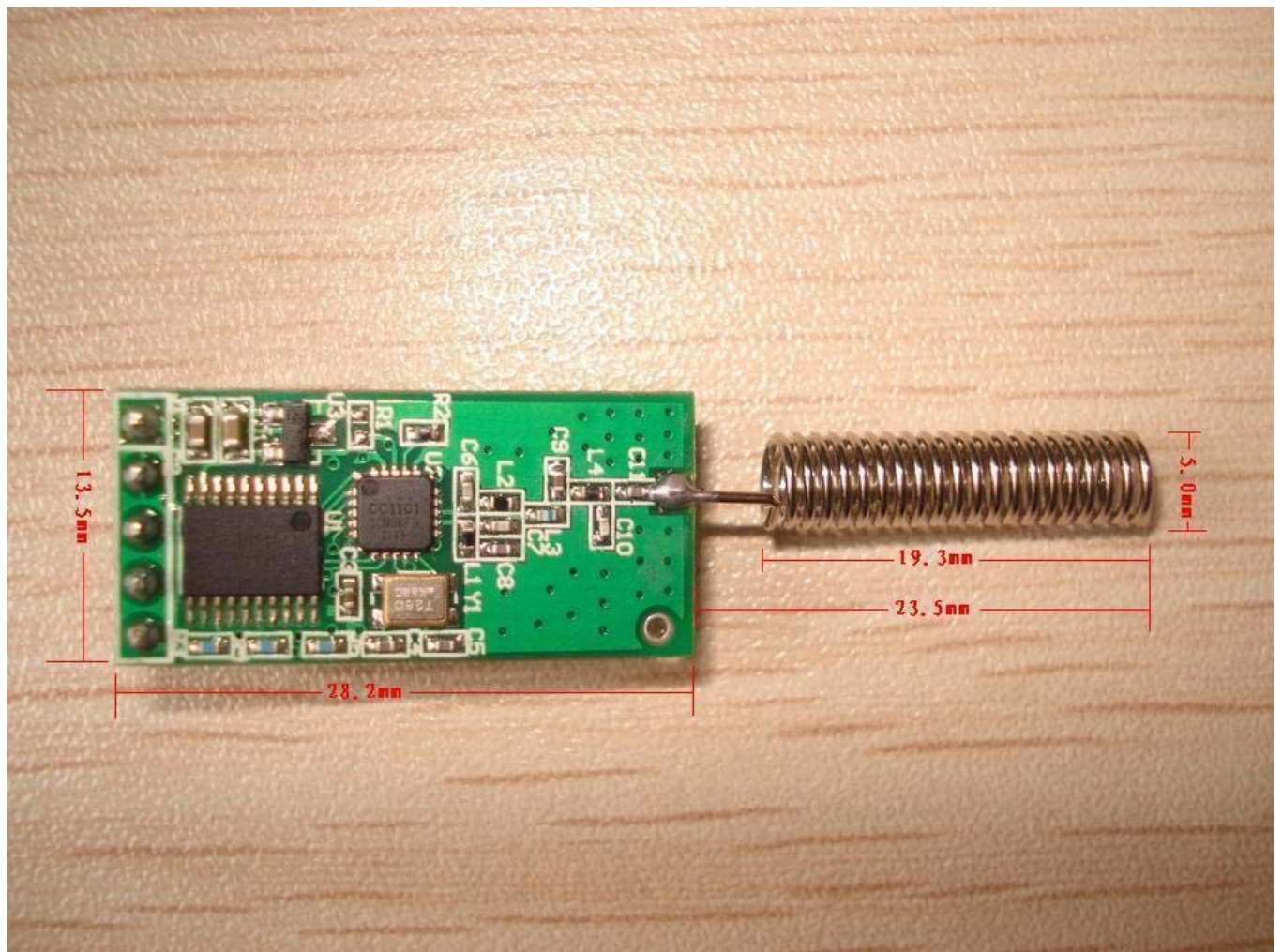
Introduction：

HC-11   uses   433MHZ as its wireless freq.
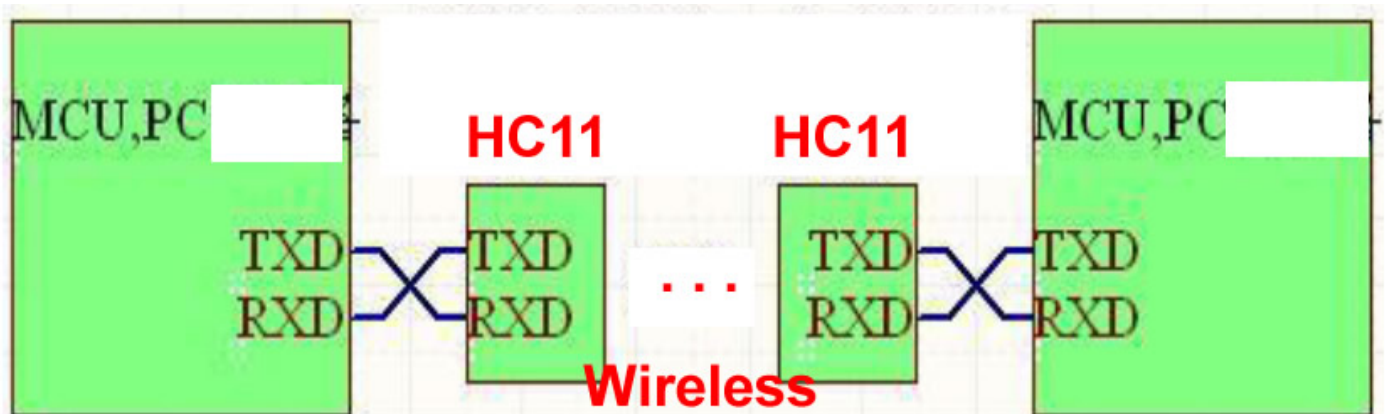
1， Idle Power: 3.4mA / 3.31V

2， Distance: Max to 200 meters in the open area.

3， Input Power: DC 3～5V.

4， Support Transparent seria COM transferring(Half-Duplex).

5， Support Freq set，Address Set and auto-filter function.

6, Smart Size（13.5×28.2mm）

7. Max Power: 10DBM

8. Receiving Sensitivity: -110DBM

F1

Pins order 1~5 From top to down.

Typical Application：
Wireless RS232 port

HC11 will work as transparent Wireless RS232 transceiver(Half-Duplex mode). Under this mode, at least **2 pcs** of HC11 modules are needed! User can set different Frequence to setup the separated wireless network. Different freq modules will not interfere other freq modules.
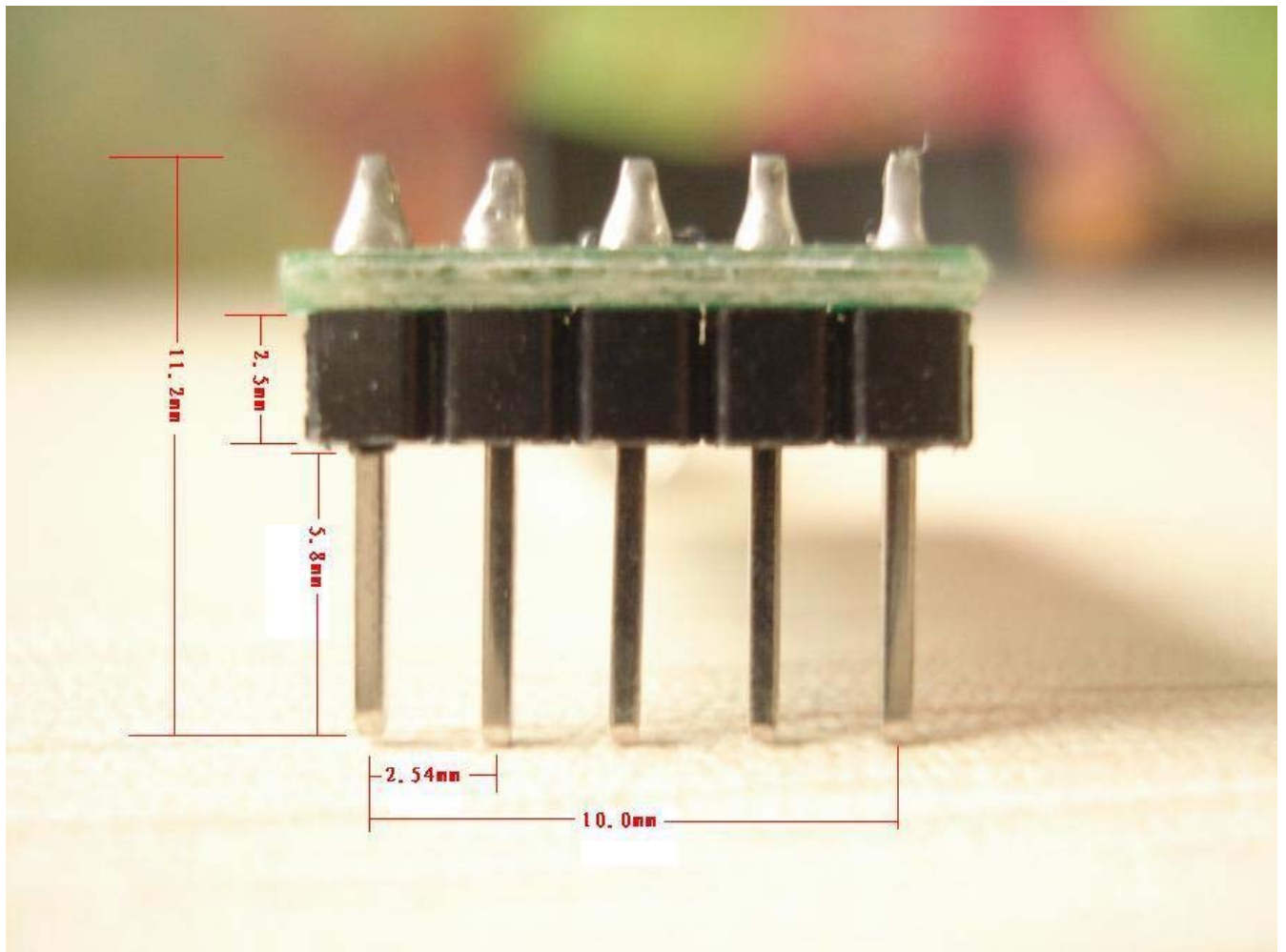
2. Pin Defines:
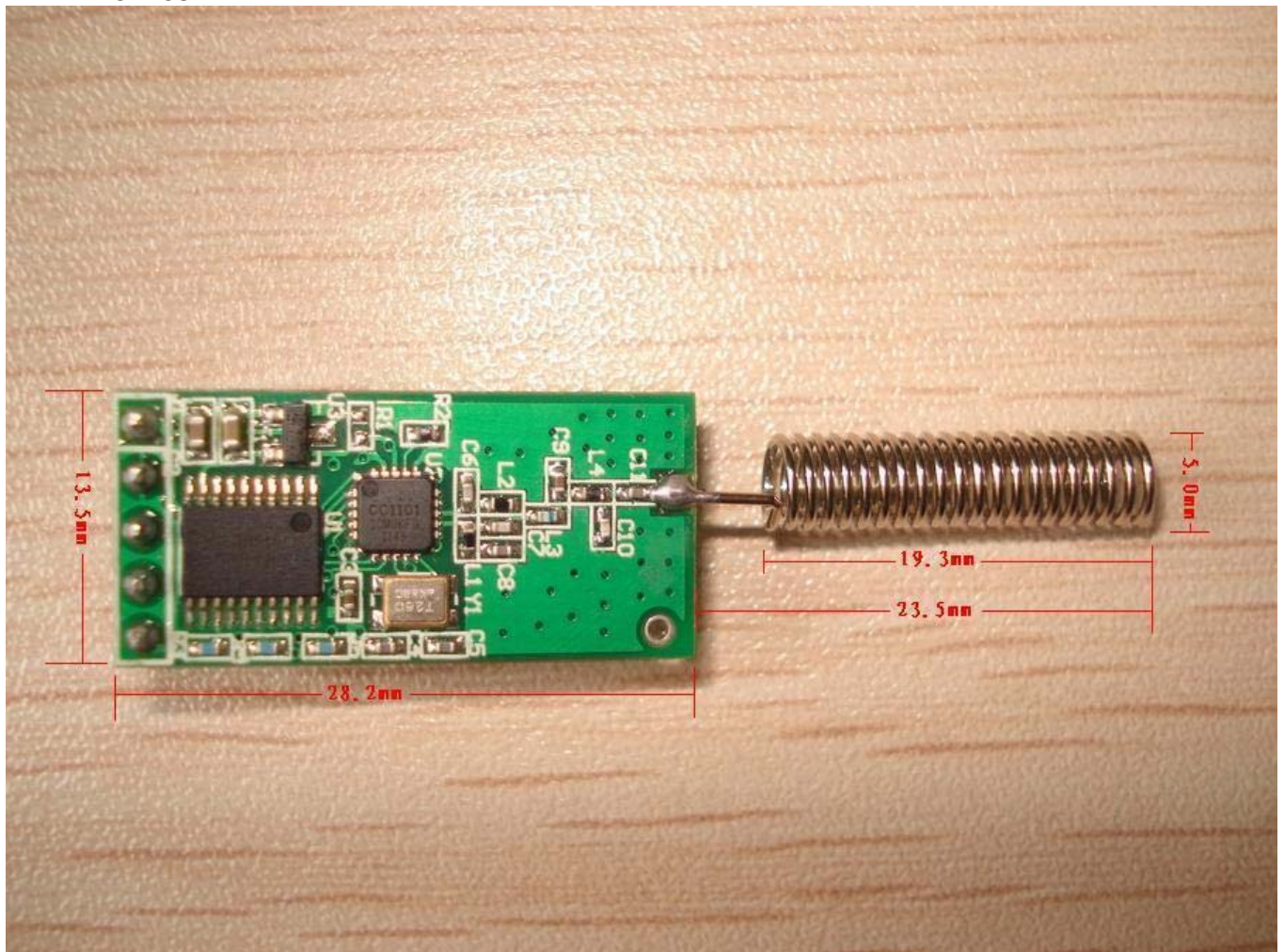
Pin 1~5 is shown from Up to down"

PIN 1	VCC	DC 3~5V
PIN 2	GND	
PIN 3	RXD	
PIN 4	TXD	
PIN 5	CON	AT Control Mode

PIN5   Con is the AT Control mode，Pull up to high or NC will make module work as normal，When connect to low, it will enter the AT Command mode.

F 3

AT Command mode:

There're 2 ways to make the module enters AT command setup mode:
1. When module is working, pull the Pin 5 to low for over 3ms;
2. Or when module is off power, pull Pin5 to low, and power up the module, this will make module restore back to default status(9600 bps, transparent RS232 transferring mode).

Please note, when finish sending the AT configuration data, user must wait 15ms to make sure the module can finish read the setup data successfully.

AT Setup commands:
x   means 1 or more than 1 digital，y means the first character of the command

Command	Meaning	Example

AT	Test the mode	Shall reply with "OK"
AT+Bx	Change 232's baud rate，can be set to 2400，2400，4800，9600，19200，38400 57600，115200。Default is 9600	Set baud rate to 57600：AT+B57600，Reply OK－B57600
AT+U	232's Pairing & Stop bit set: N：No pairing， O：odd； E：Even。 1：1 bit stop； 2：2 bit stop； 3：1.5 bit stop	To set Odd paring 2 bit stop : AT+UO2，Reply OK－UO2

AT+Ax   Change module address，From 000 to 255
            Default is 000
Set address to 123：
AT+A123，Reply OK－A123

AT+Cx   Change Frequence chanel，from 001 to 127
            Default is 001。（Suggest to use 1~100 for stable performance）
Set channel to 023：
AT+C023   Reply OK－C023
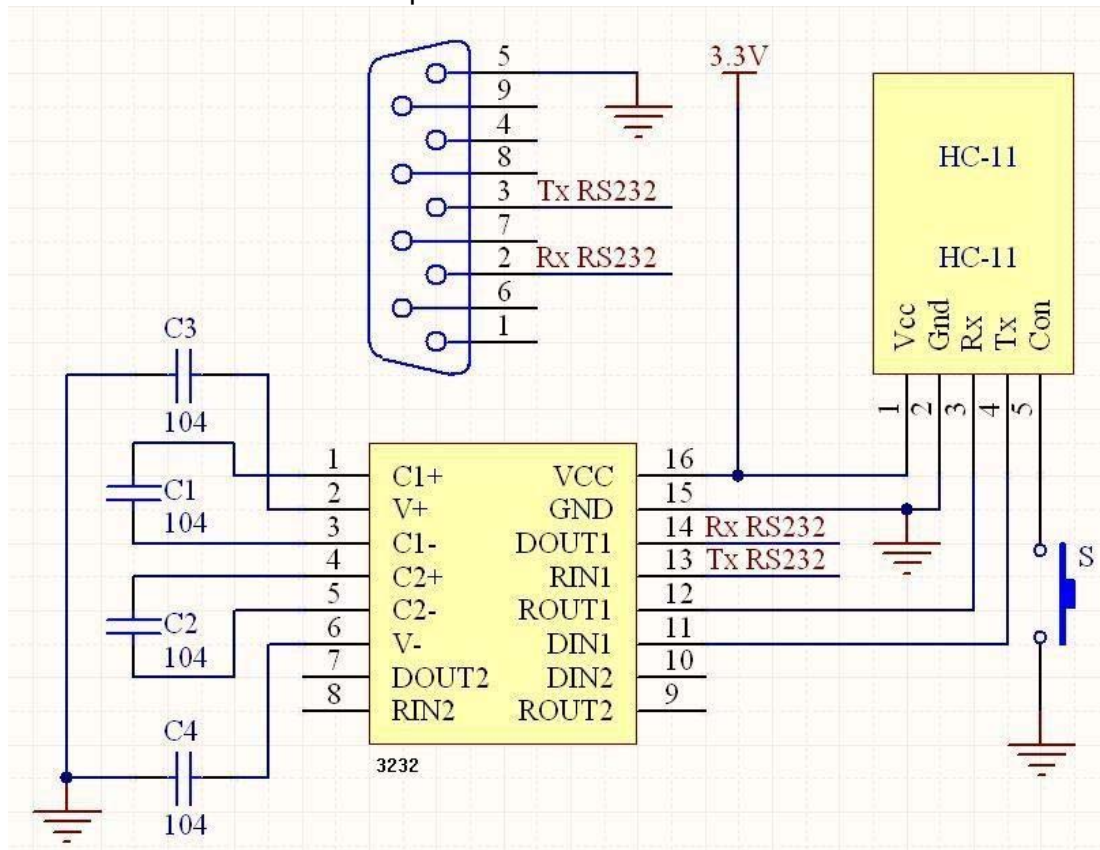
AT+Px   Set wireless Power，x is from 1 to 8
            Default is 8， 1 ～ 8   means -30dBm, -20dBm,
            -15dBm,-10dBm,   0dBm,   5dBm,
            7dBm,10dBm; Default 8（is 10dBm）

AT+FU   Set module to transparent wireless 232 mode.
Default is working under this mode

AT+V: Reply Version

Typical Application-
When connect to PC's COM port:

When Connect to MCU/PIC/ARM/AVR's UART port:

如果不改参数
可去掉这个连接