Guideline to configure Serial communication with Virtual COM for 4G Router

The following content uses a Local test environment as an testing example,shown as Figure1. For User's public Server network environment just refer to Figure2.

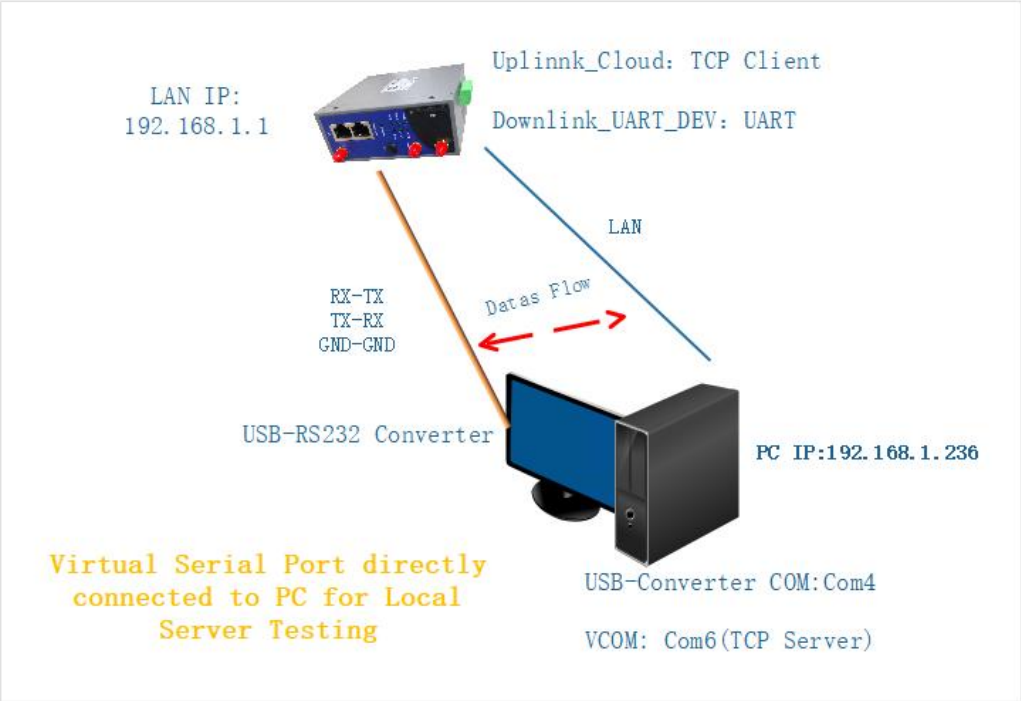
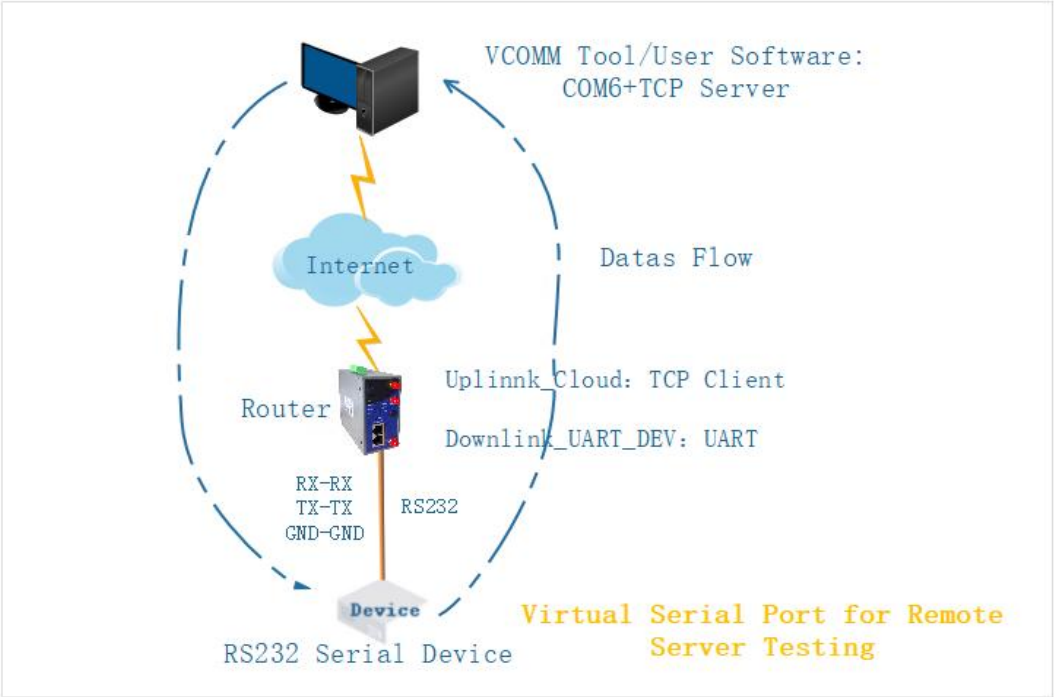
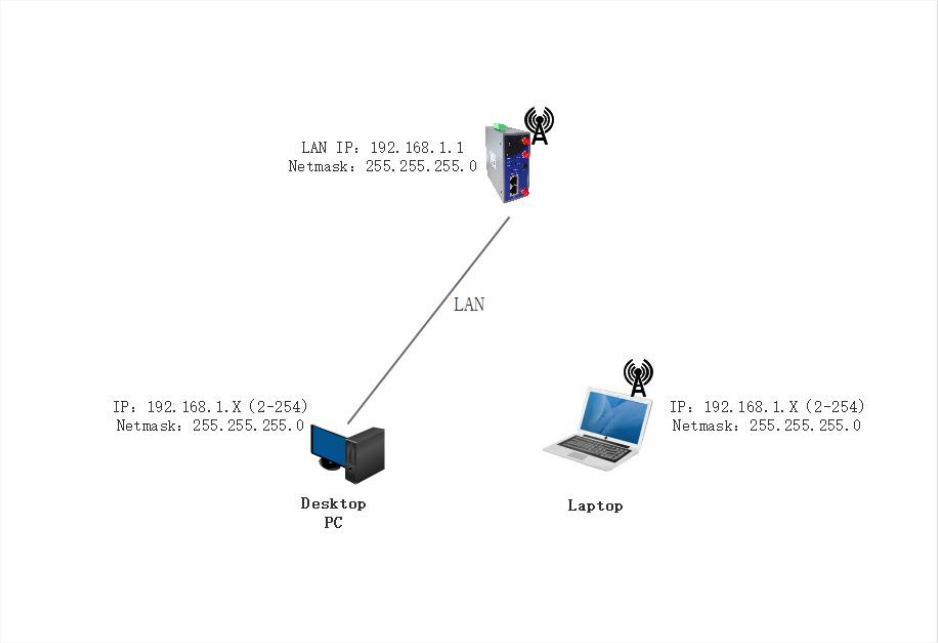


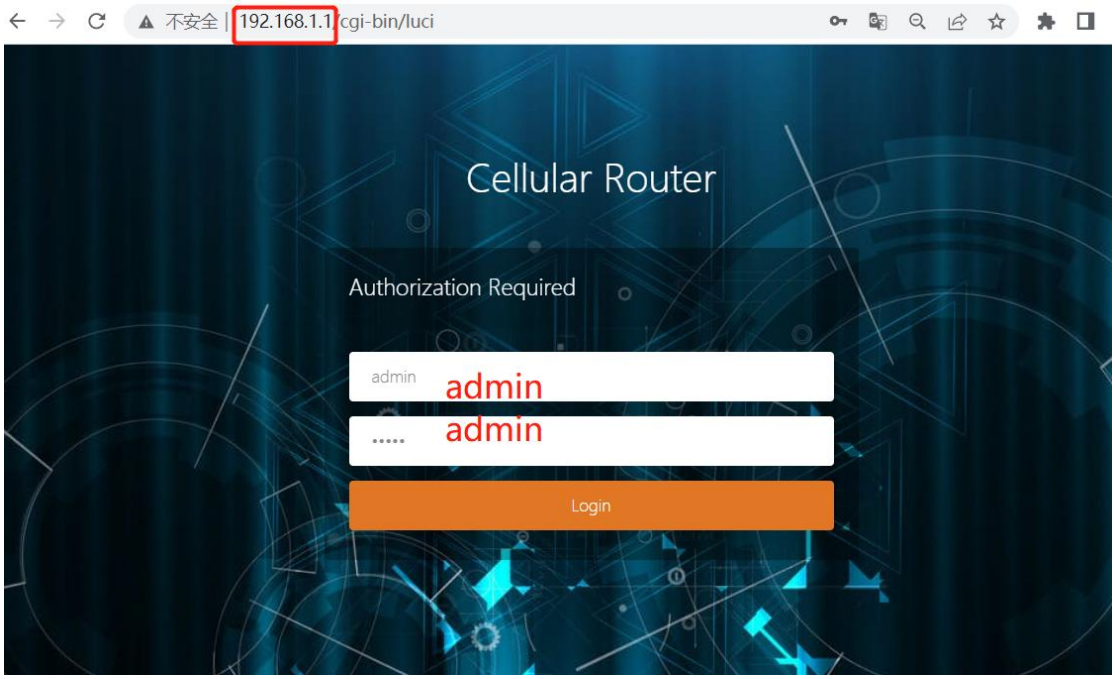
Figure1



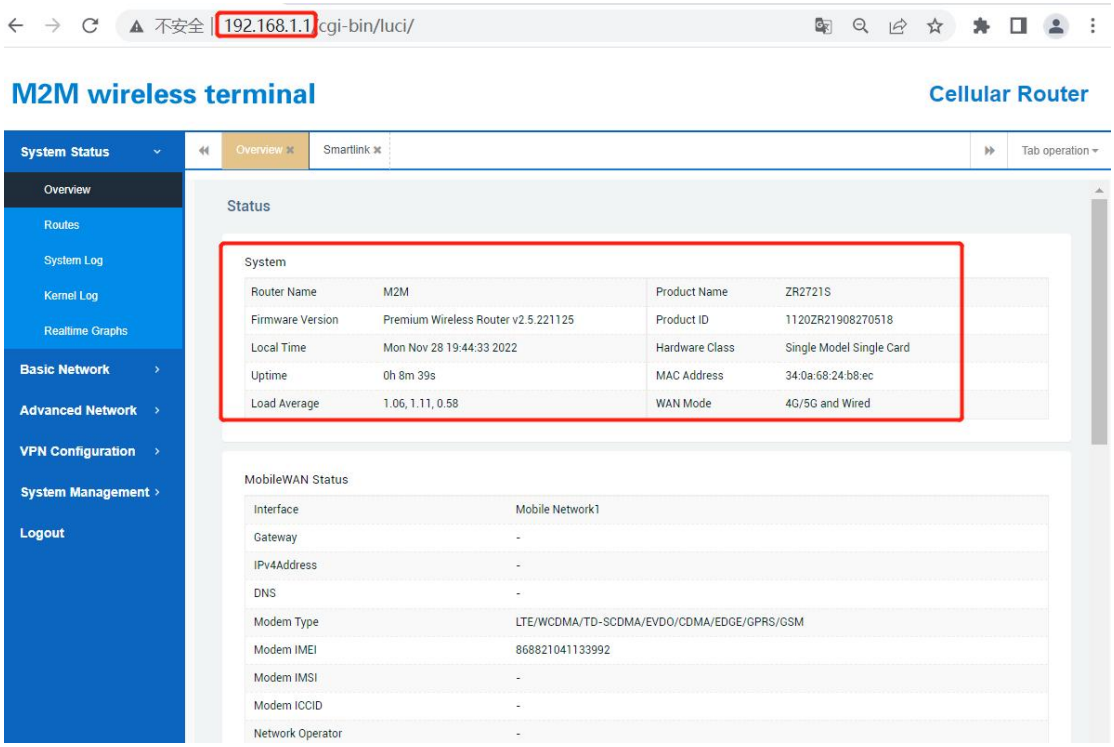
1.Connect the LAN port of the router to the computer, and set the automatic dhcp mode for the computer Network Ineterface Card, and ensure that the computer can obtain the address 192.168.1.x, netmask 255.255.255.0.



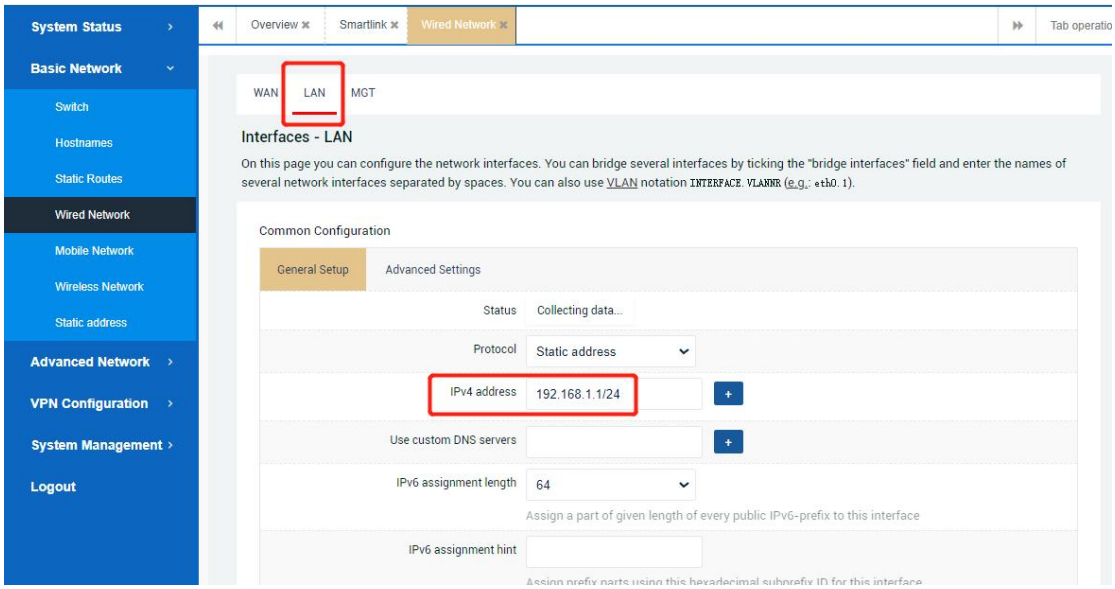
2.Open the browser, type the default IP address of the router with 192.168.1.1, then press Enter. And then input the username/password with admin/admin to login the Router.

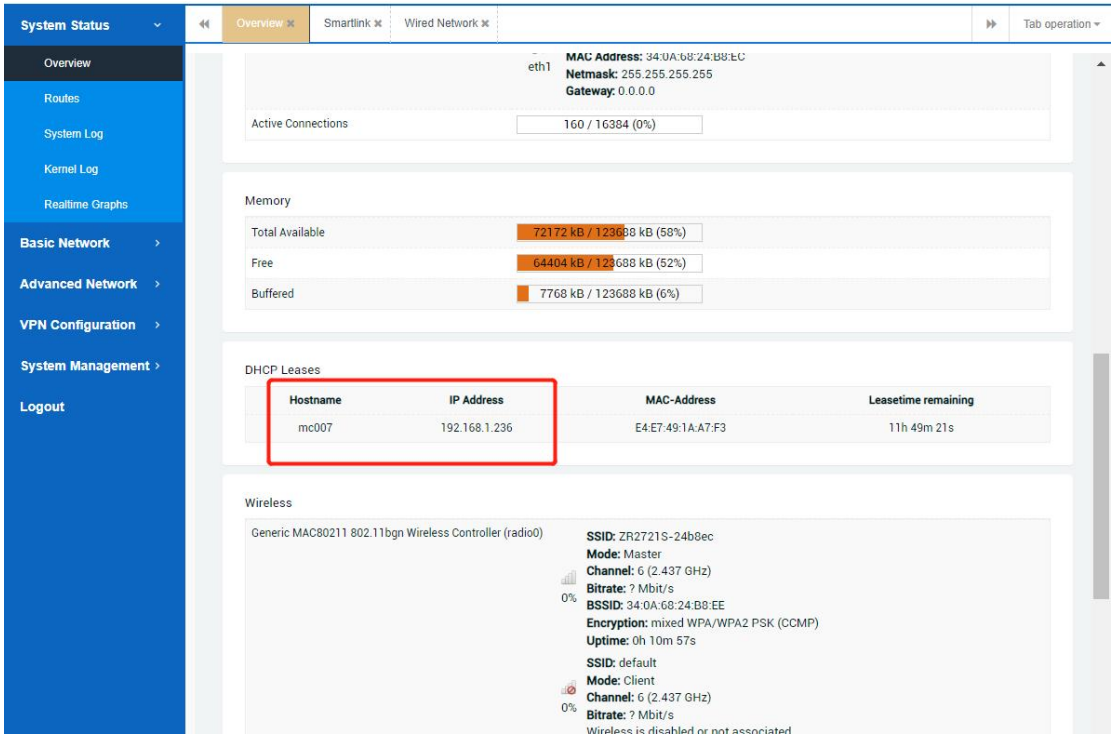


3.After logging , you will see overview details about the router system, including the software/hardware version, product model, product id, networking mode, and MAC address, etc.



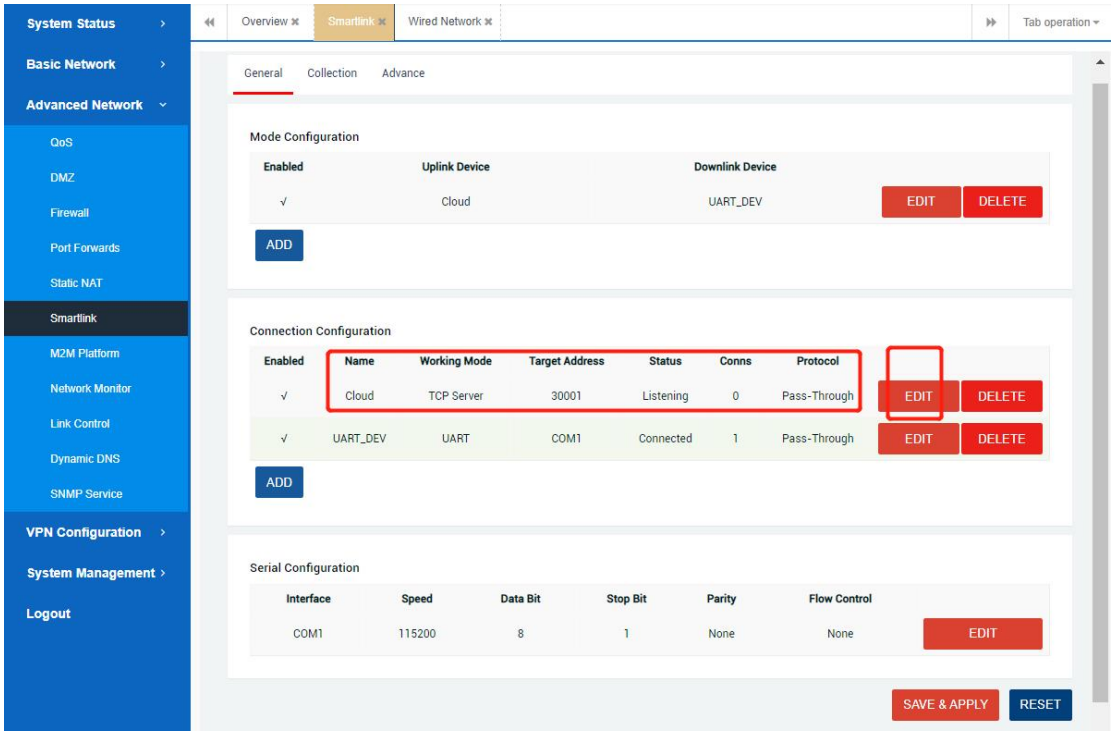
4.Check the LAN IP address of the router and PC address connected to router , shown as follows:

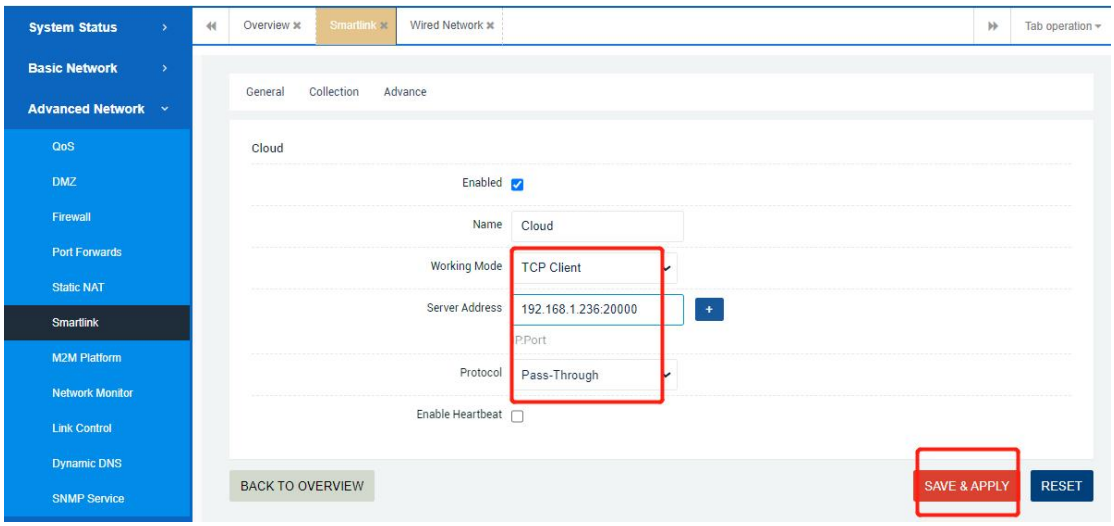




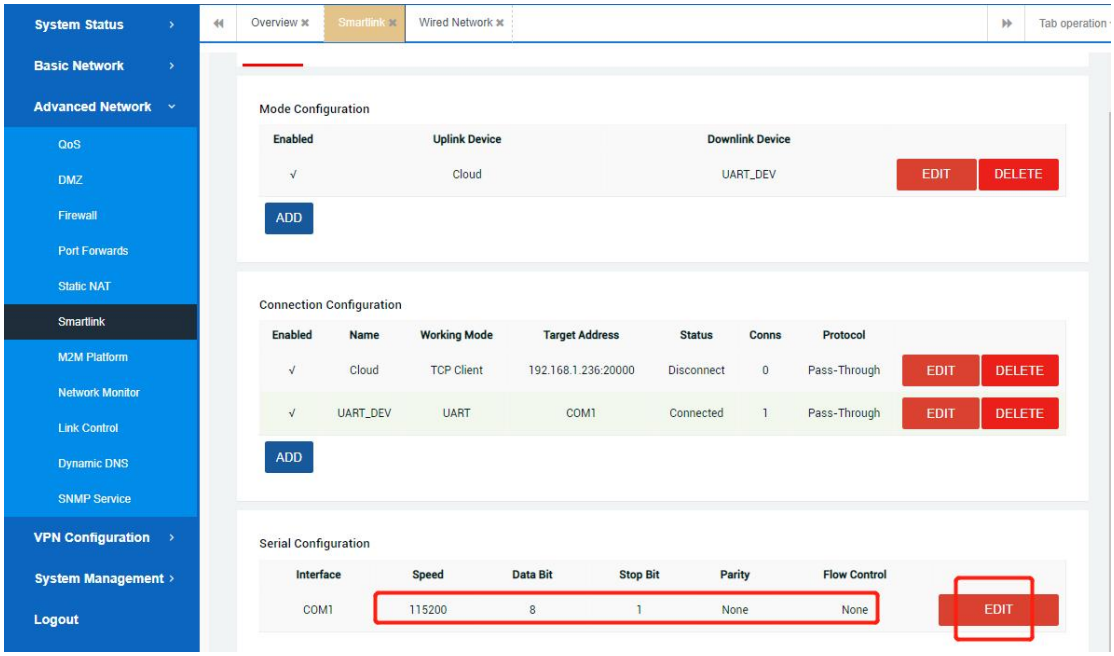
5.Start to configure smartlink usage.

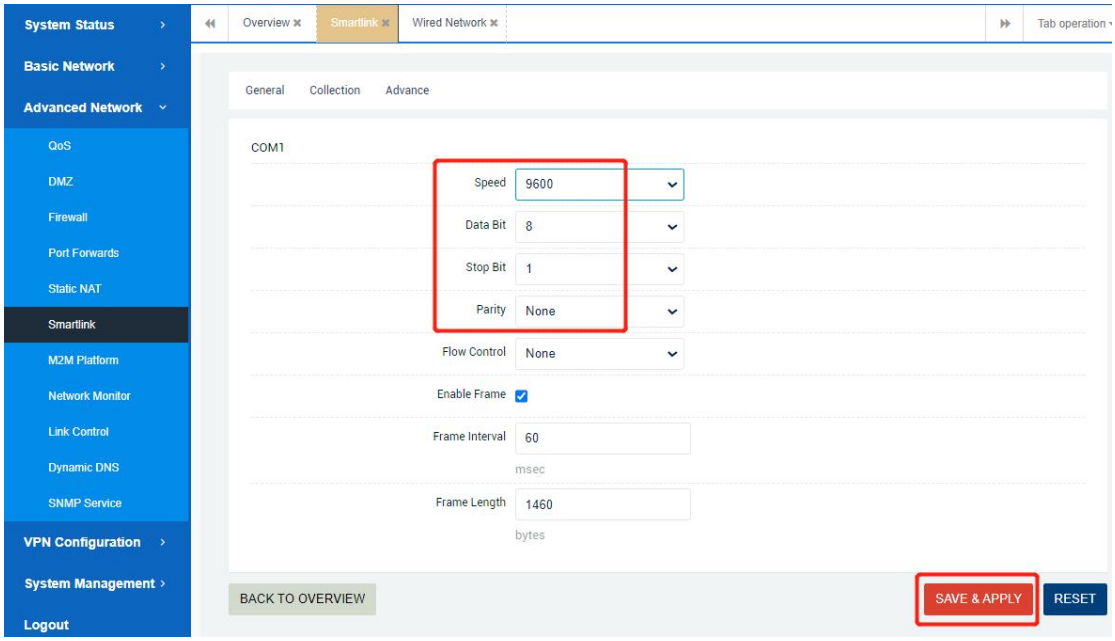
5.1 to config 'cloud'/'uplink device' option: set it to TCP Client mode，and make sure the IP address and port of the server must be the same as that of the PC.



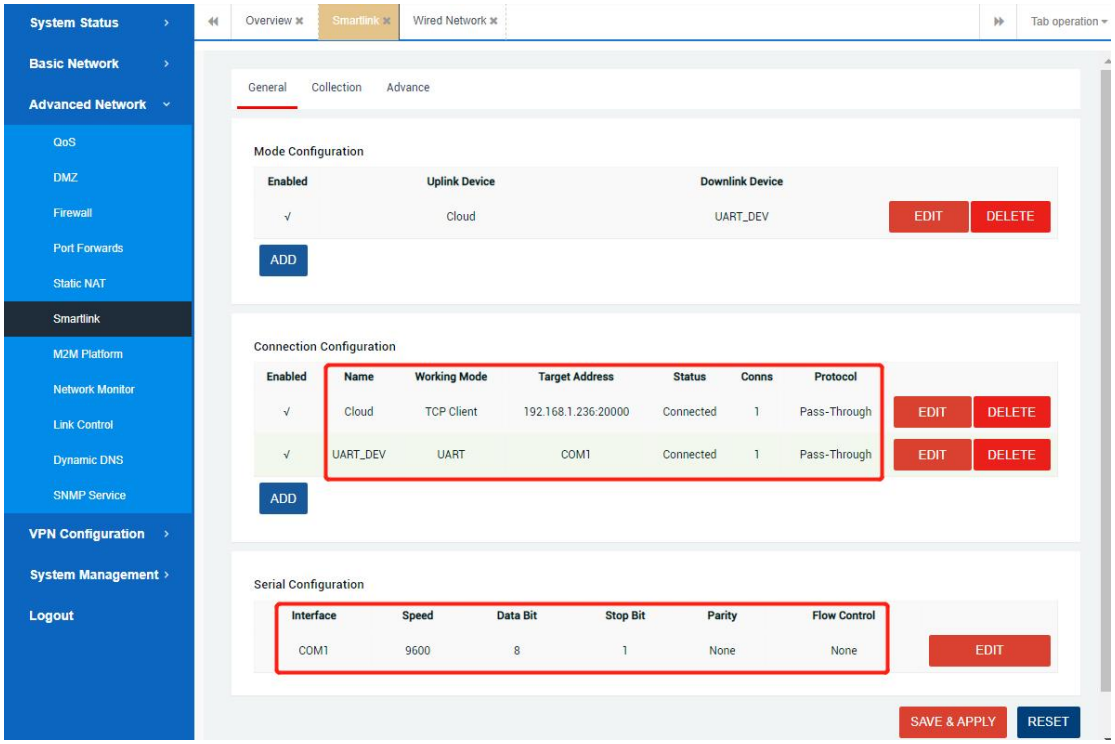


5.2 Set serial port parameters, such as baud rate, data bit, and parity bit.



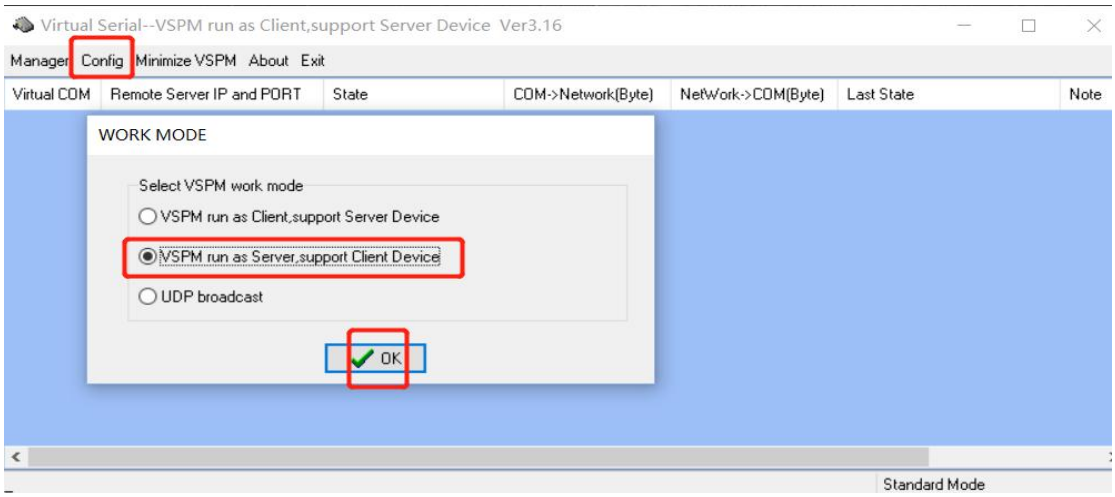


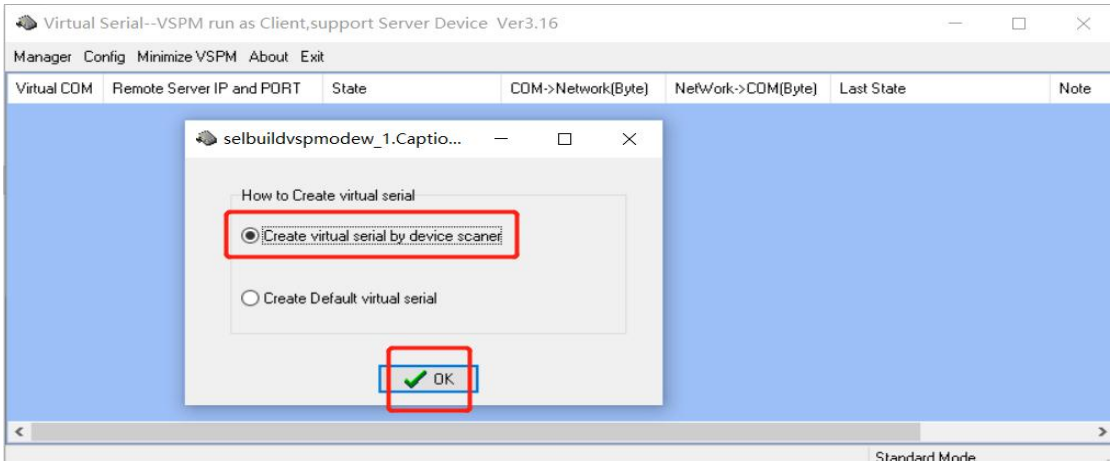
5.3 All configuration finished , show as figure below.

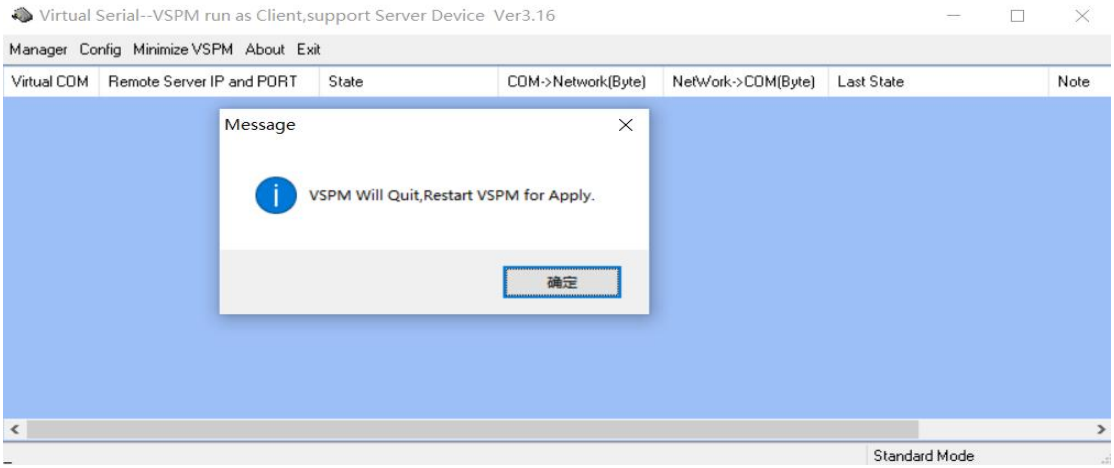


6.Install and run the VCOMM virtual serial port tool on the PC.

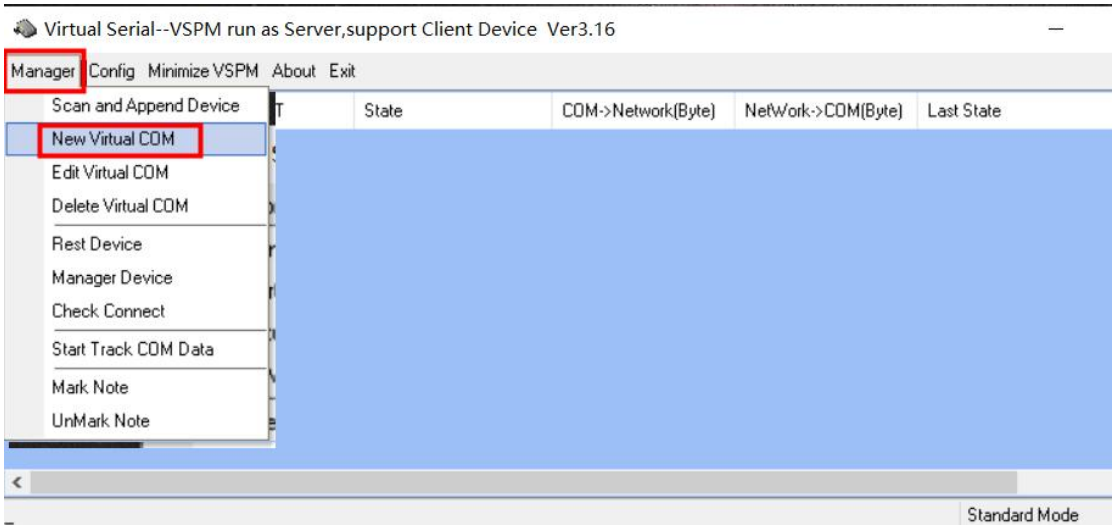
6.1 First, set the working Mode to TCP Server Mode(cause the router is set to TCP Client mode), and then set the following parameters:

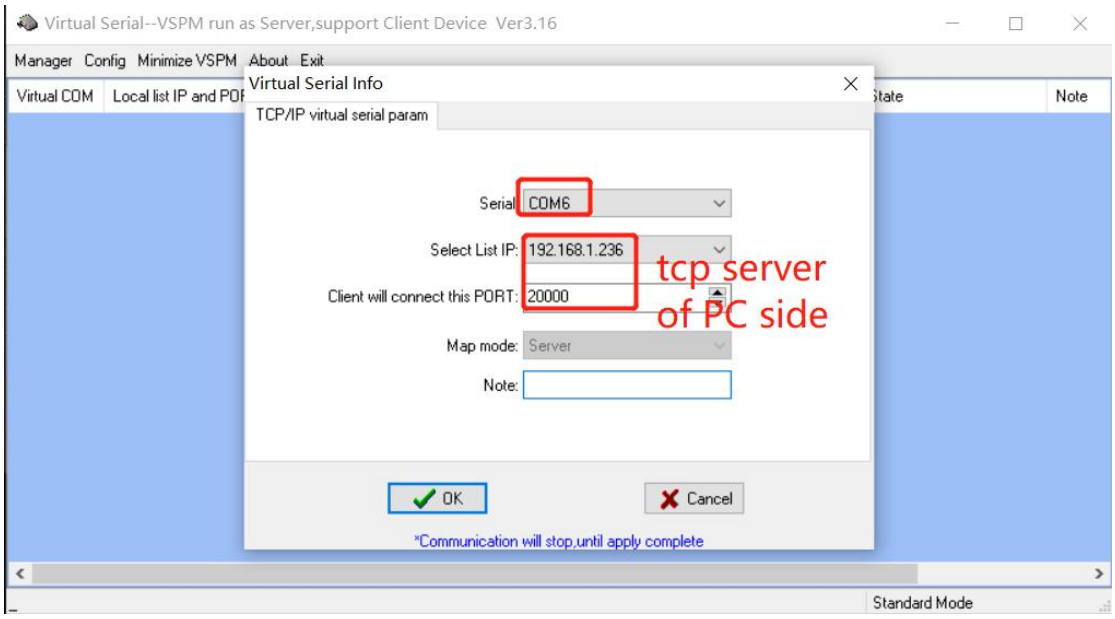




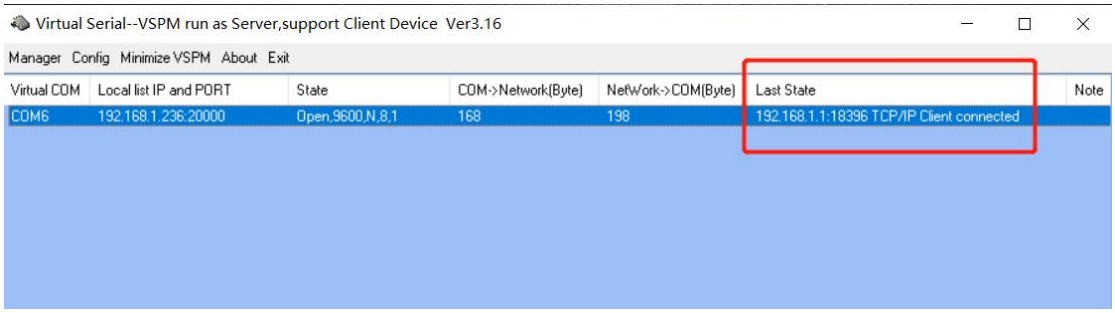


6.2 Create a new virtual serial port , such as com6, and configure the server address and listening port of PC .



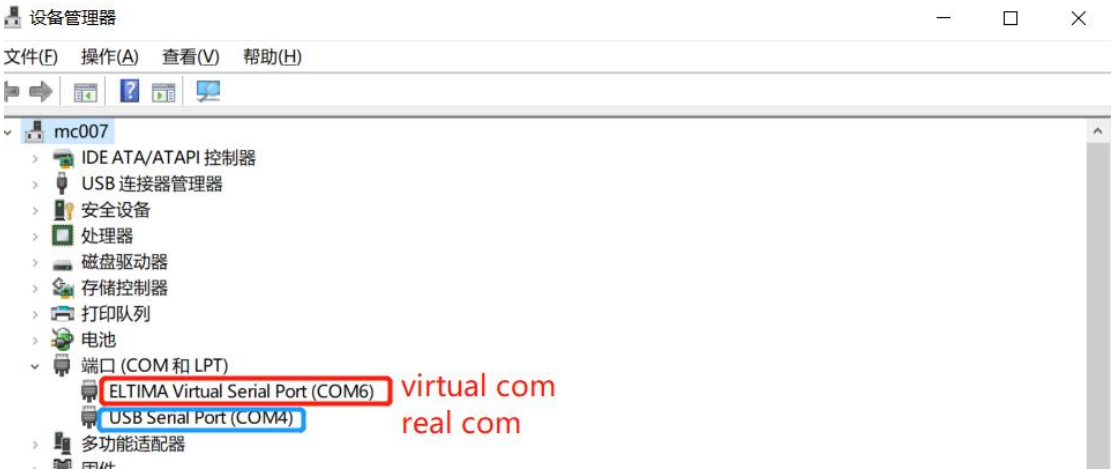


6.3 Now you can see that the router is successfully connected to the VOMM virtual software.

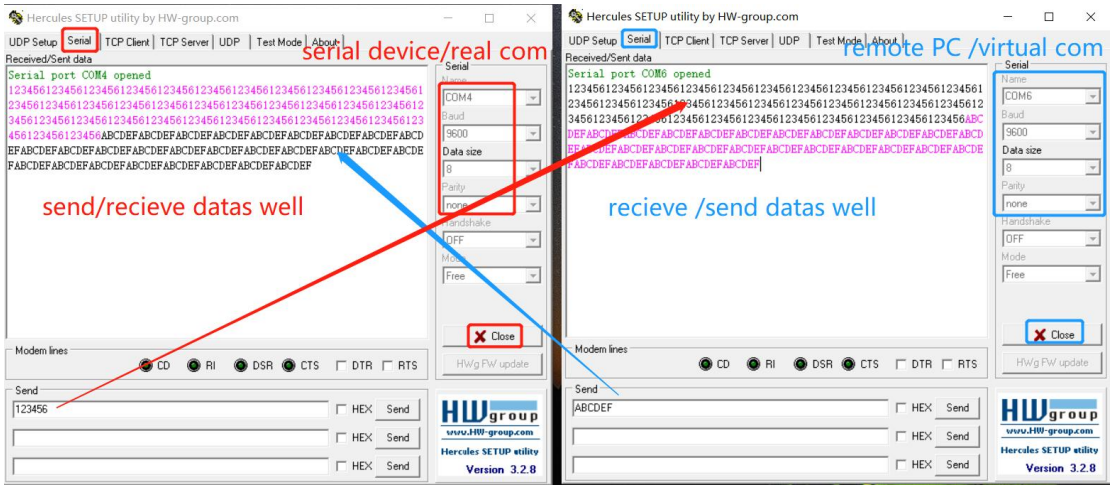


7. Start sending and receiving data testing between the serial port device and the virtual serial port tool on the PC.

7.1 View the com port created by the USB-232 converter on the PC (com4 for example)： a new virtual com created by VCOMM tool shown as below(com6 for example).

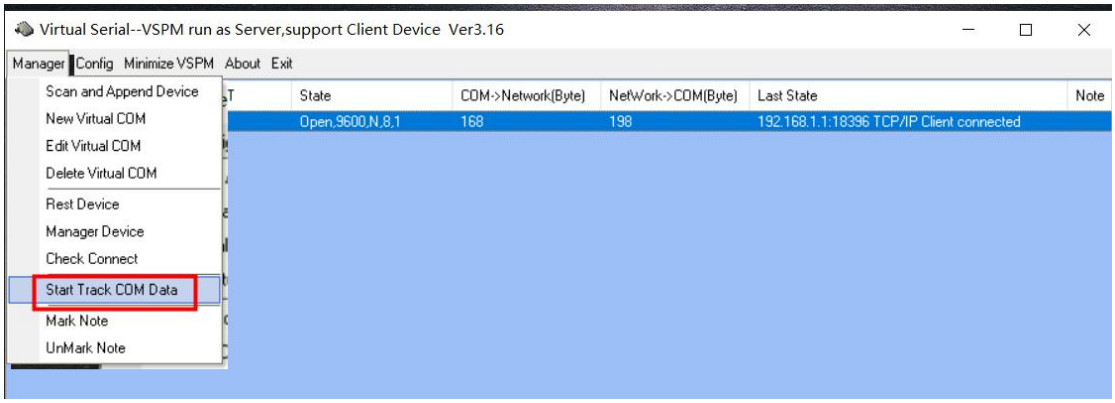


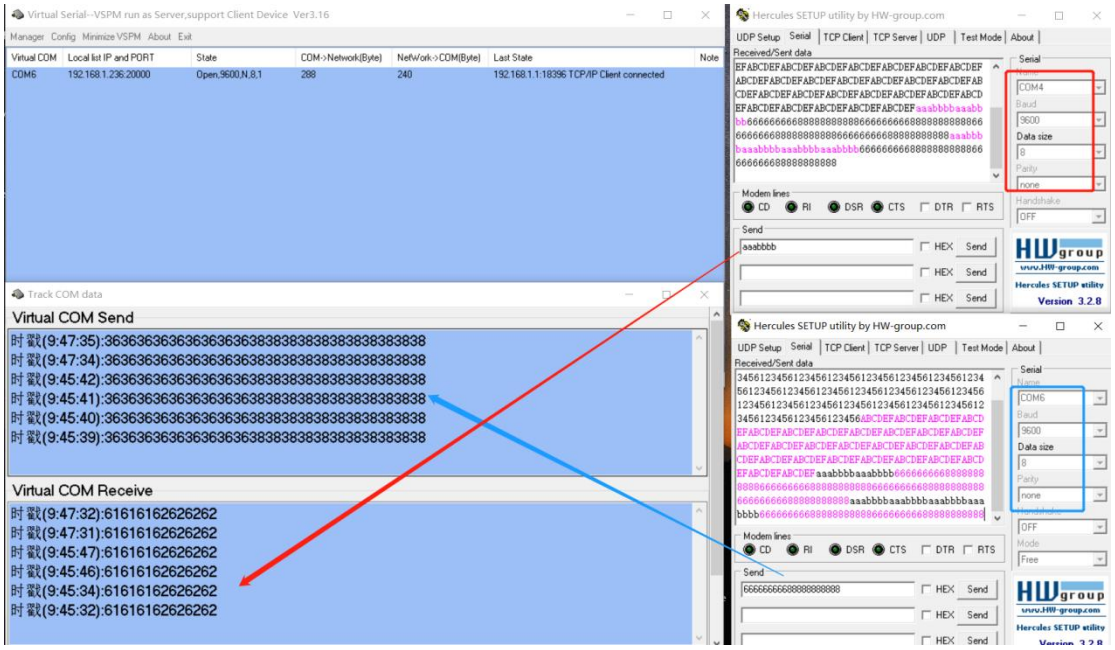
7.2 The testing for sending and receiving data between the serial port device and the virtual serial port tool is as follows.



7.3 Additional note:

You can also set the data tracking mode of the VCOMM tool. You will see the details of the data sending and receiving as follows.


Virtual Serial--VSPM run as Server,support Client Device Ver3.16
Manager
Config
Minimize VSPM
About
Exit
Scan and Append Device
New Virtual COM
Edit Virtual COM
Delete Virtual COM
Rest Device
Manager Device
Check Connect
Start Track COM Data
Mark Note
UnMark Note
State
COM->Network(Byte)
NetWork->COM(Byte)
Last State
Note
Open,9600,N,8,1
168
198
192.168.1.1:18396 TCP/IP Client connected


Virtual Serial--VSPM run as Server,support Client Device Ver3.16
Track COM data
Virtual COM Send
Virtual COM Receive
Hercules SETUP utility by HW-group.com
UDP Setup
Serial
TCP Client
TCP Server
UDP
Test Mode
About
Received/Sent data
Modem lines
Send
Version 3.2.8