

IP MODEM Setup Guide

The ip modem configure tool and the vc demo are from the disc.

This is only to make the appropriate settings for the focus of the IP address and port, and other detailed settings according to the needs of different users, please refer to "IP MODEM using the instruction manual."

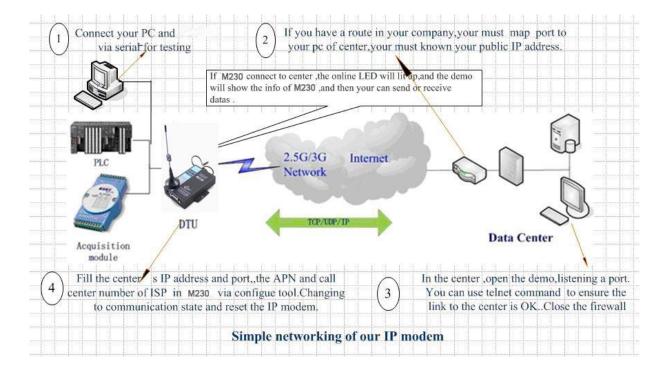
1. Requirements

Please confirm the following information already have before your test:

- 1. APN of your country's wireless ISP (including APN, username, password), ISP number (also called "call center number").
- 2 . You must have a static IP of your center, or a dynamic DNS.
- 3. A SIM card opening data business.
- 3.IP MODEM, PC, RS232 cable

2. The network topology

- 1.Please confirm whether your static IP is your company's export IP, or your PC's IP.
- 2 Please comfirm whether your company's entry is an router, whether you have permission to enter the router configuration web page.
- 3 please briefly describe your application, or what is the testing environment that you want to establish.
- 4. We provide the following simple and universal test topology, you can make a reference.
- If your Network topology As mentioned above, then your can establish simulative test environment as shown above..



3. Detail Configuration

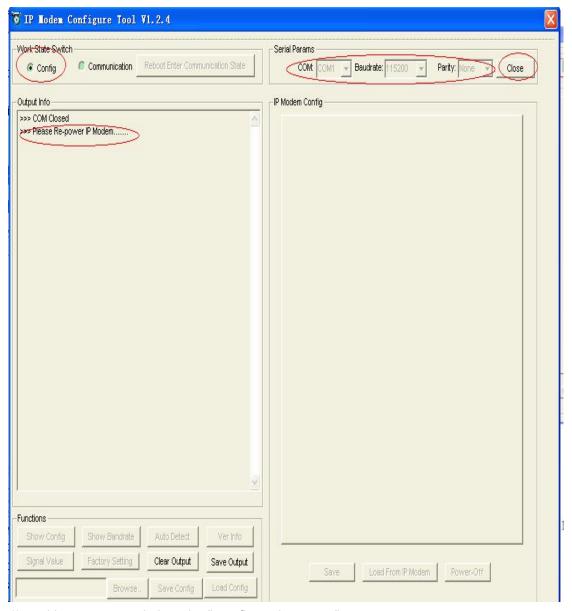
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Step 1:run the software IP Ioden Configure Iool



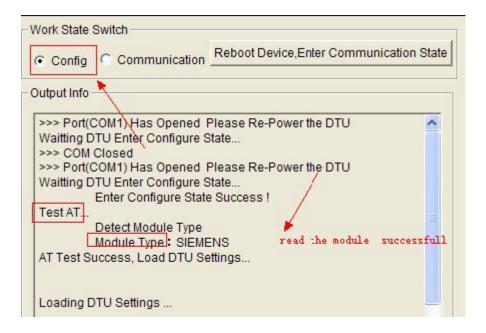
- 1) working state to switch to the "configuration state"
- 2) Select work in the PC COM port, baud rate is factory- 115200, no parity.
- 3)use the Company that comes with the serial line IP MODEM and connect computer , after the electrical connection is completed,repower the IP MODEM .

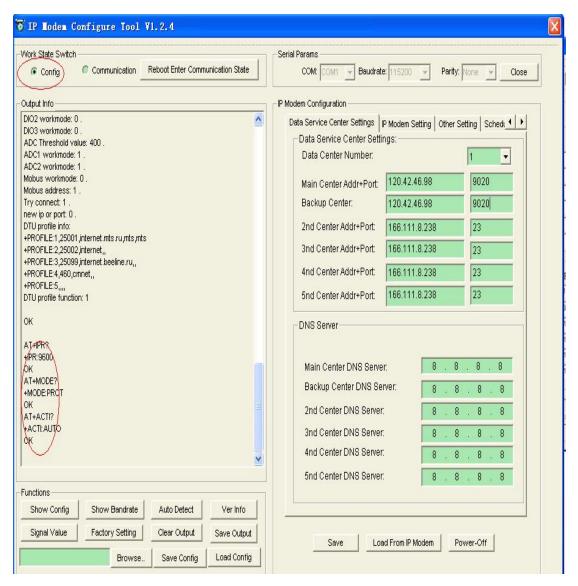
Step 2: IP MODEM power state after power on, power-on will appear the following information automatically.

In the process log information box will load the factory default IP MODEM parameter information

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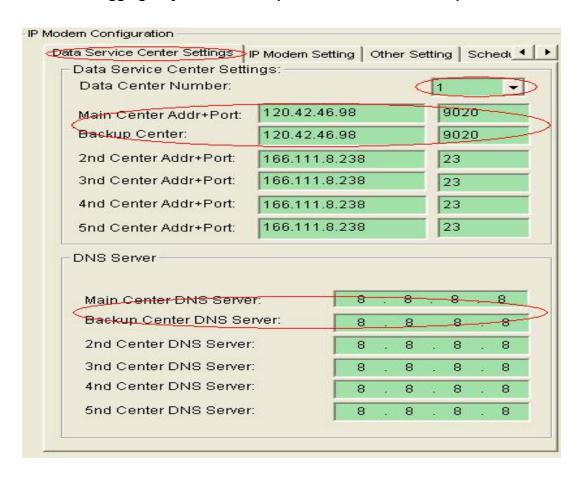


When the message box appear after loading the information successfully , the corresponding parameter settings on the IP MODEM

Step 3:

Set the set the number of centers of the central server, IP address and port number

Normal debugging only set the IP and port of the main and backup centers can communicate with



1)A number of central server settings: When the number of centers for the 1, the primary and backup centers . When the number of centers is greater than 1 backup

Center invalid, the center 2 to 5 according to the adjustment of the number of centers to take effect (such as: the number of centers is set to 3, the effective center

The main center, center and center 3, the number of centers different and so on).

2) The center IP address settings: set the center can access the public network IP address of the main center and backup center . (If there is no backup center

And the main center to set the same IP address)

3) Center port settings: in the main and backup centers, ports , set up external network access to a valid port Note : When running the center - side software, the PC is listening on the port can not be public direct access , you need connecting PC

Machine on the router to map the corresponding port to a single ip of PC.

*The main center add should be static or ddns. And the main center address is from adsl modem ,you can put in a port casul. And the main center address is from a router, you need set the corresponding port

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number(such as 9020) on the router ,and put the port in the configure tool.

Step 4: Settings to set the IP MODEM operating parameters of the ID number and SIM card

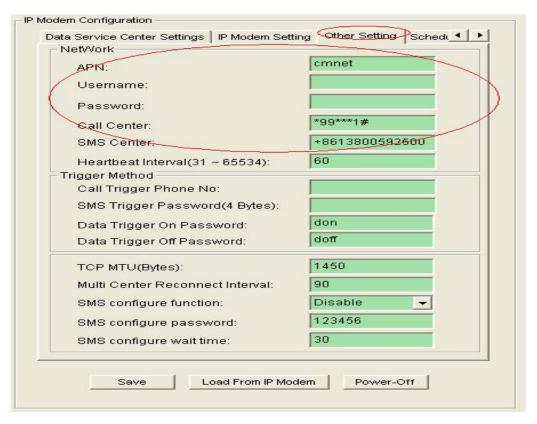
ata Service Center Settings Modern Setting	Other Setting Schedi_
WorkMode:	PROT ▼
Trigger Type(Default Auto):	AUTO ▼
Debug Level(0/1/2):	0 -
Databit, Parity, Stopbit:	8N1 -
Communication Baudrate:	9600 -
Auto Back To Main Server: (1/0-Yes/No)	1 -
Device ID(8 Bytes Hex-Decimal):	74736574
SIM Card No(11 Bytes):	13612345678
Bytes Interval(Default 20ms):	20
Custom Register String:	
Custom Heartbeat String:	
Connect Retry Times:	65535
Reconnect Time Interval(Seconds):	0
Transfer Meaning(0/1-Yes/No):	0 -

- (1) the settings of the device ID number: device ID is an ID number of an IP MODEM, it's the only one for the center can know (arbitrarily set eight: such as 10000001,10000002)
- *When there are many modems ,make sure the one is the only.
- (2) the settings of the device SIM card number : set directly when the IP MODEM SIM card number (eg : 13612345678).

You can use the modem serve as a server, and it can connect 4 clients. It serves as client, it can connects 5 centers at the same time. You can also run a demo on the pc to serve as a server. The demo can connect more than 100 device, and you can also develop the demo.

^{*:}when test, set debug level 2 to see detailed information. And normally you can set 0.





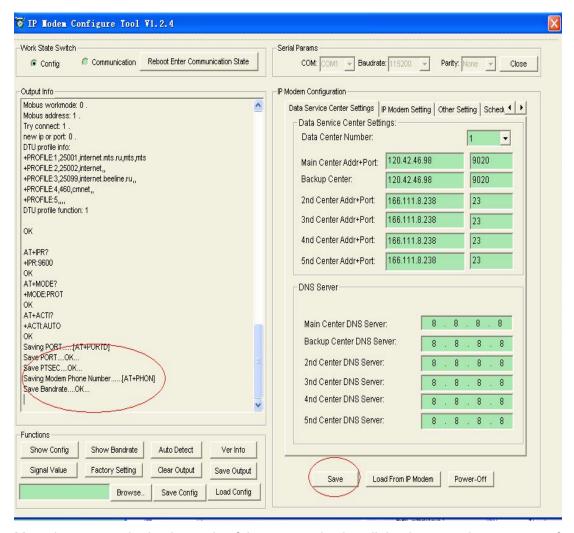
put in the APN, username, password, call center, sms center (you can call the operator to make sure) *heartbeat interval

Step 5: Above settings have been basically completed the easy set above settings has been basically completed the simple set, and other items, such as no special requirements for default other items, such as no special requirements for the default, then press the save button.

Information box on the right will be prompted to successfully set at the same time on the right information box will be prompted to set successfully, the following diagram as shown below.

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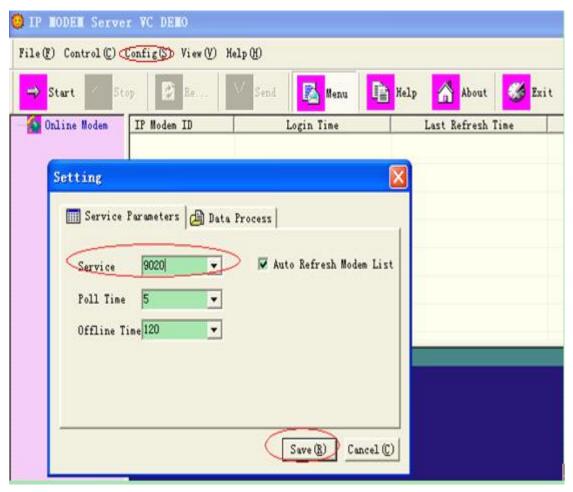
More than set up the basic needs of the communications link , the operations center software and IP MODEM can communicate .

Step6: open the software of vc-demo on the computer. Config----service, put in the port:9020-----save----start.

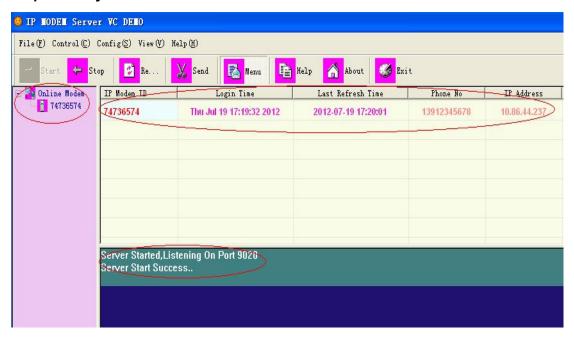
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Step 7:Then you can see the server start success.



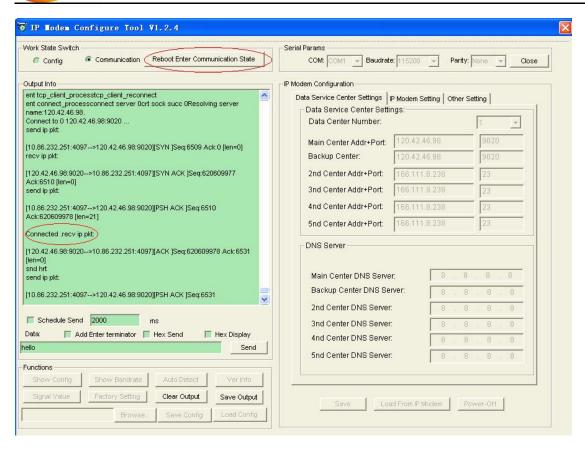
Step 8:Then press the botton reboot enter communication state, then you can see the "connected"

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Step 9: You can send data from the tool to the ip modem server vc demo:



Step 10: And you can see the data in the demo:

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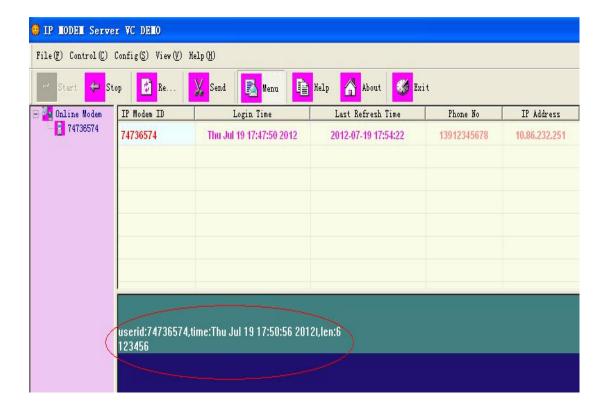
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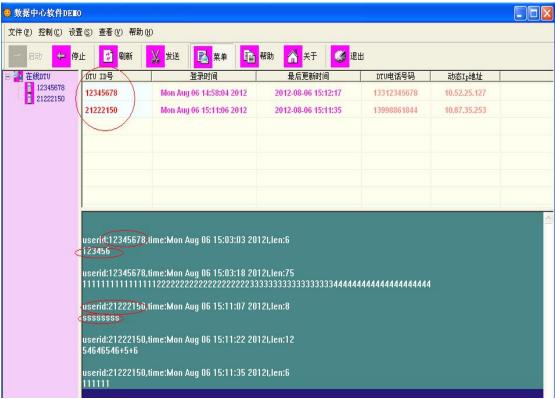
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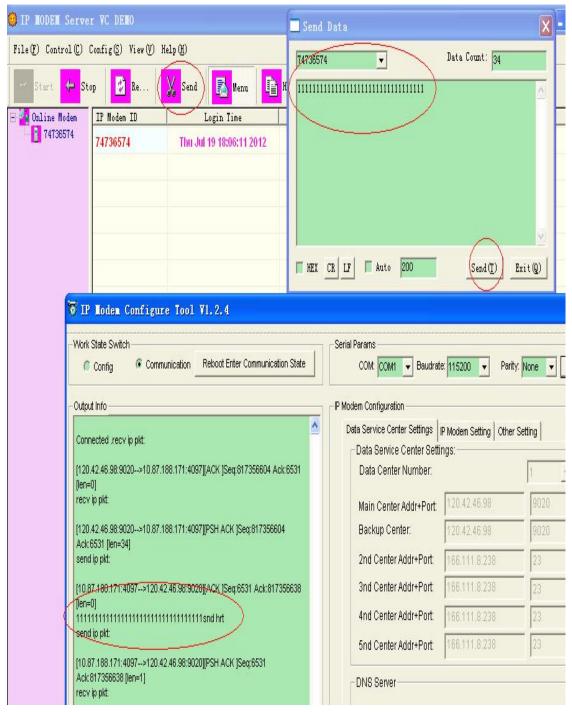


If you connect many IP modem to a demo.you can see that the data ia come after the corresponding id.



Step 11: You can also send data for the demo to the ip modem.





Then test is successful.

. Common FAQ

1.If our SIM card Owe postage, signal is very low or the call center number is wrong ,we can see the following output.

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>>> To Enter Communication State,Please Re-power DTU
[AT Command: AT+RESET] ...

OK
Resetting ...

System started!
Press 's' key continuously to enter configure program.
dtu enters protocol mode.

Now start at proc.Max AT Command RetryAt Proc Error!Max AT
Command RetryAt Proc Error!

2.If APN and call center is wrong, we can see the following output.

System started!
Press 's' key continuously to enter configure program.
dtu enters protocol mode.
Now start at proc.At Proc Success!
Now start at proc.At Proc Success!Resetting ...

3. If the center isn't correct,we can see below info.

Press 's' key continuously to enter configure program. dtu enters protocol mode.

Now start at proc.At Proc Success!Ppp dial succ, Got lp Addr: 10.88.167.135Resolving server name: 120.42.46.55.

Connect to 0 120 42 46 55:6767 ...

Connect error.connect error

4.And we can use telnet command to test whether the data link to the center is OK. If we can see the phenomenon below, it shows that it is OK.



If you can't solve the problem, or meet new troubles, please contact us as soon as possible!

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Annex 1

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Center IP setting method of dynamic domain name

Center IP setting method using dynamic domain name and the setup steps , the difference is directly filled as long as the IP Settings column Into the dynamic domain name and fill in a DNS resolution service provider address; at the same time be in the center -side run Dynamic DNS client side .

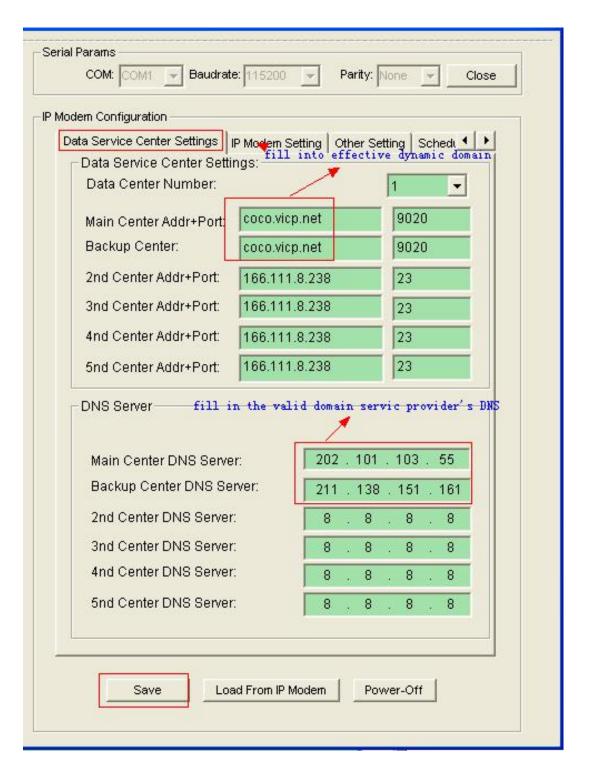
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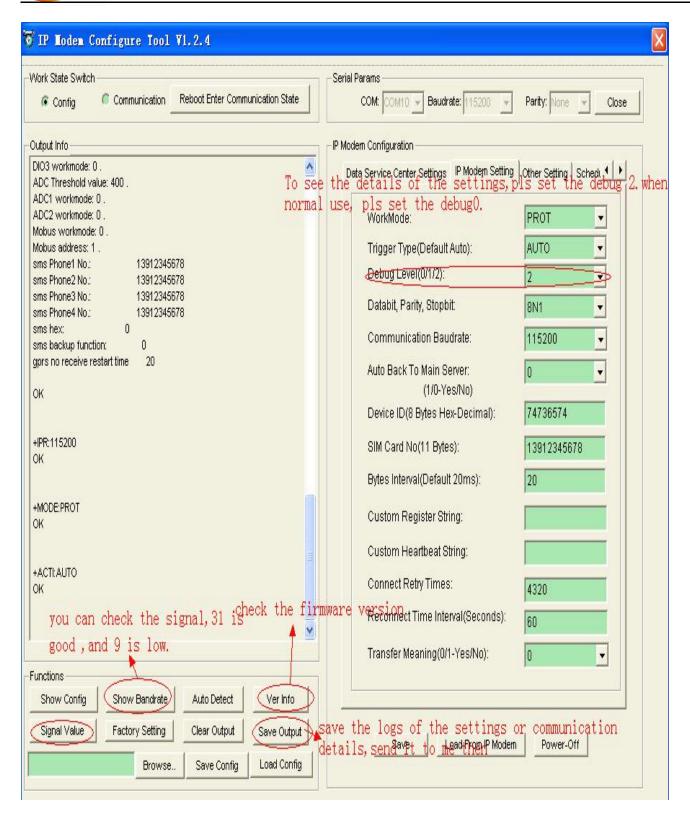


As shown below



If you have any problem with your settings or comunication, you can check the pic,pls waite a long time to get the full log,and send the log to me. I will analyse it for you.





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