

GSM Modem Pool 16 Ports 16 SIMs ETS-M-1616

USER'S MANUAL



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1st version 2015

Description:

GSM Modem Pool 16 Ports 16 Sims, Model no.: ETS-M-1616 (it has 16 ports, each ports has 1 SIM card slot, totally 16 ports 16 SIMs, USB type is a newly developed GSM/GPRS Modem pool to realize bulk SMS sending and receiving.

Specifications:

- 1.GSM Modem Pool 16 ports 1 SIMs slot;
- 2.GSM 900/1800/850/1900Mhz Quad band (Quectel M35 module employed);
- 3.IMEI Changeable through Hyper terminal of PC;
- 4.USB interface
- 5.AT Command

Main Features:

- 1, Can Support 16 channels simultaneously;
- 2, Can insert 16 SIM cards (each port 1 SIM cards)
- 3, Connect with the Computer through USB line for USB type.
- 4, Each channel with separate power switch.
- 5, Each channel can be demolished separately.
- 6, Comply with GSM Phase 2 standard.
- 7, USB Interface
- 8, Can send and receive SMS in bulk
- 9, Industrial Chassis, Elegant Appearance design.
- 10, support Windows XP, Windows7, Linux, Unix OS etc.

Basic Features

- 1, Asynchronous, transparent or non-transparent, to a maximum 14400 bits/s,
- 2, Baud rate: 115200 bits/s
- 3, Automatic baud rate: from 2400 to 19200 bits/s
- 4, GPRS compatible
- 5, SMA antenna interface
- 6, SIM card Outlet
- 7, Built-in Ac-adaptor: 12V 3A
- 8, USB ports support
- 9, AT command control (GSM 07.07 and 07.05)

Hardware Features:

Meet the ETSI GSM 2 + standards

Class 4 (2W @ 900 MHz) Class 5 (1W@1800 MHz)

Operating Temperature: -20 ° C - + 55 ° C

Storage temperature: -25 ° C - + 70 ° C

Device Size: standard GSM Modem Pool chassis

Weight: 3.5KG/unit

Application:

Large shopping malls, supermarkets

Professional market, large wholesalers

Large hotels, large-scale entertainment

Large agencies

Transport, logistics industry

Large enterprises, and institutions

Large hospitals, large bookstore

Newspaper, television and radio stations

Oil Company (other chain business company)

Government agencies or large township

Installation:

Step 1: Connect the device through USB Data cable.

Step 2: Insert SIM card into the SIM card slot, connect antenna, power on the device.

Setp 3: Install the Driver

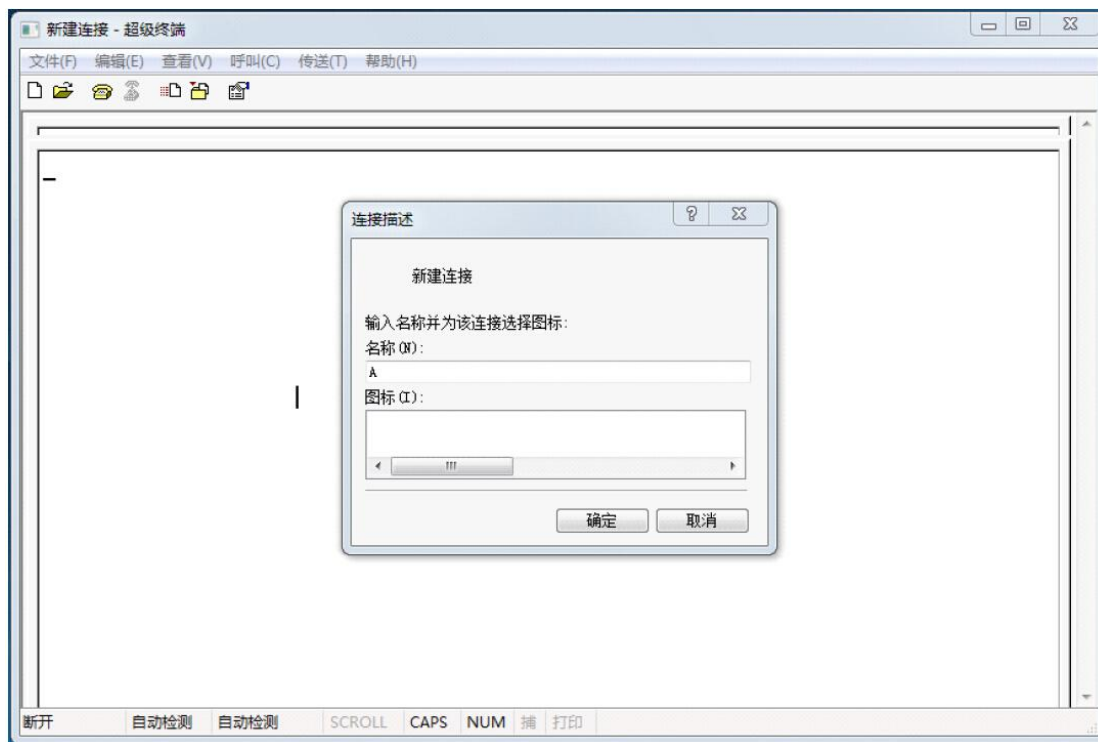
Setp 4: Install the SMS caster (Or other SMS software), open the software then it is ready to send SMS now.

Function Setting:

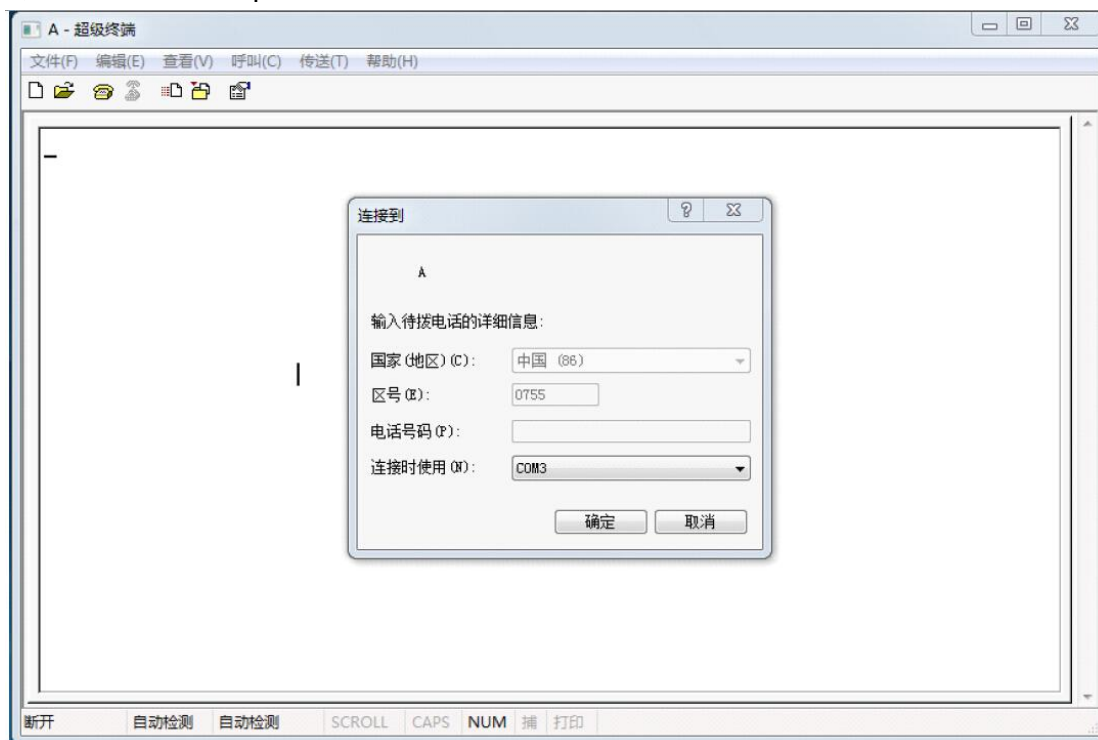
GSM Modem Pool 16 ports 16 SIMs ETS-1616 provides you to do the function setting through Hyper terminal.

Preparation:

1, Open the Hyper terminal of PC, input a name for a new connection.

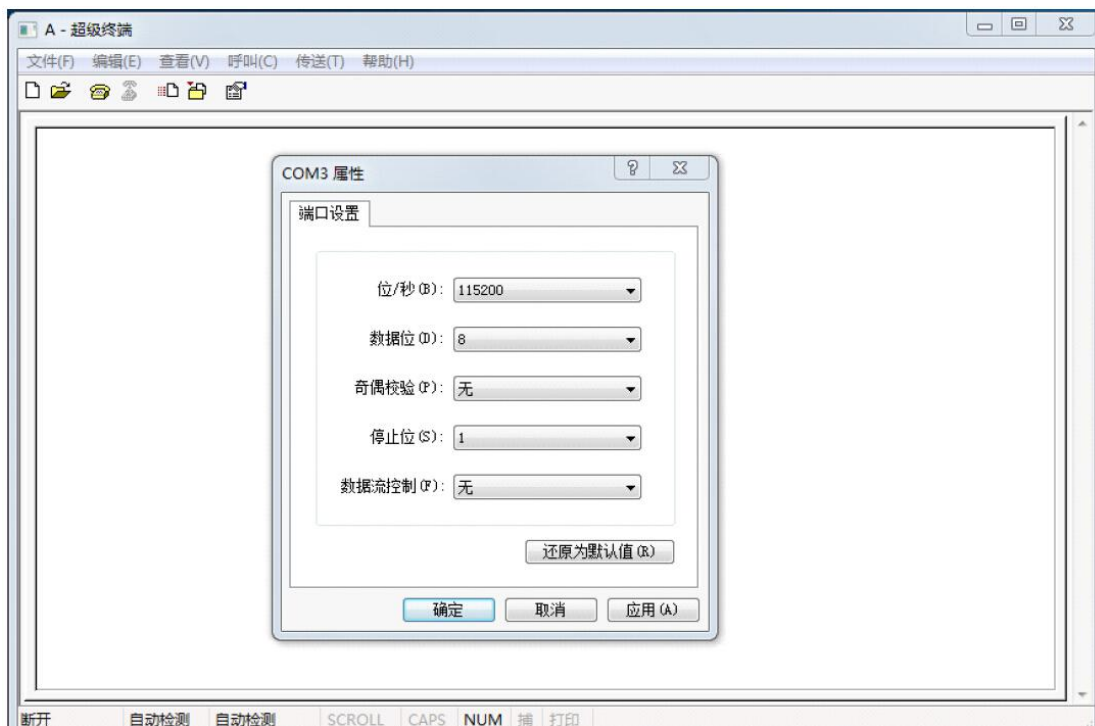


2, Select the COM port.

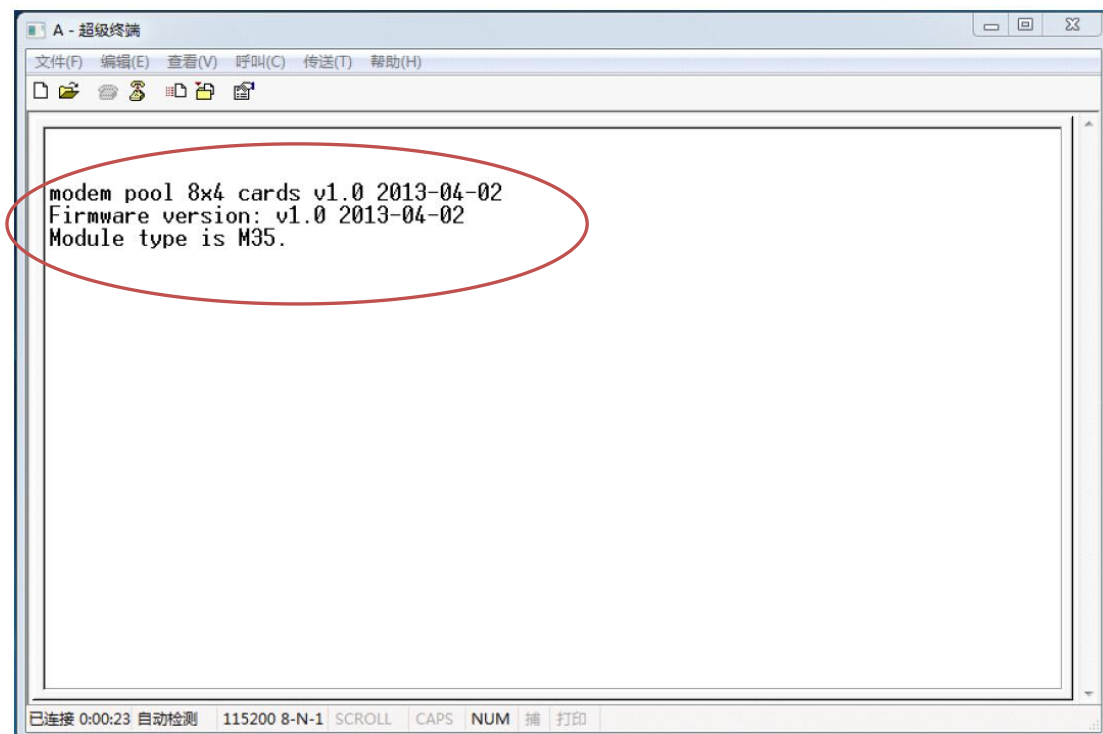


3, Select correct value as shown as the diagram below:

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4, Enter into normal mode:(switch on the port, it will display as below:)

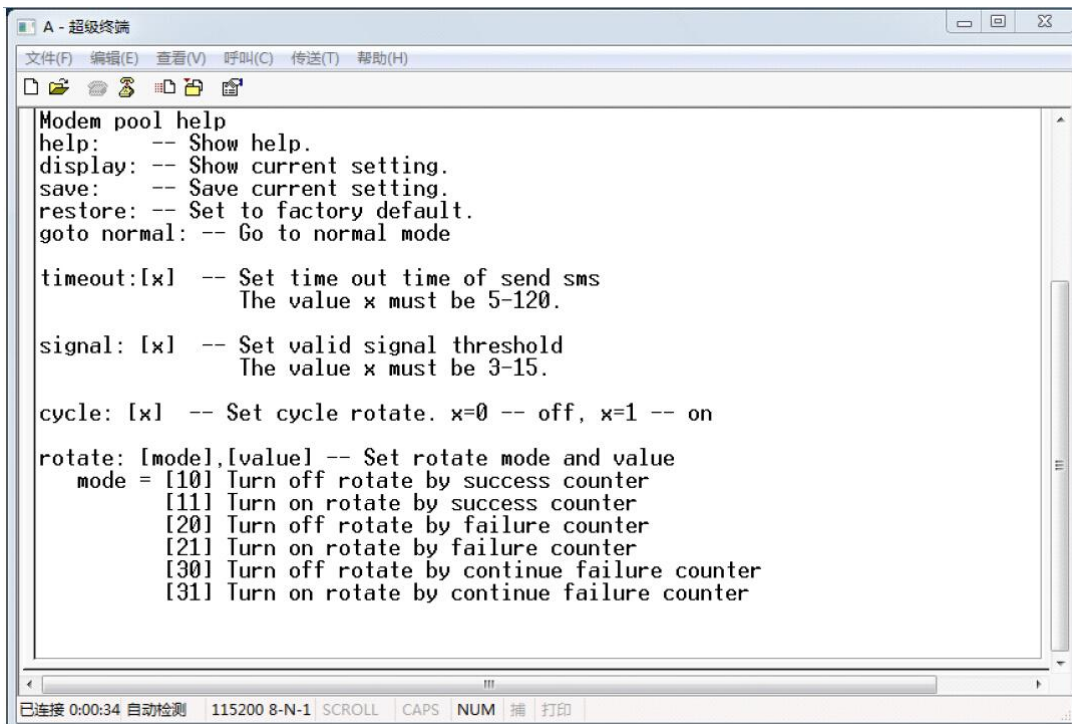


Now it is ready to do setup for SIM rotation setting:

SetuSetup Mode :

Input "setup:" enter into setup mode

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```
Modem pool help
help: -- Show help.
display: -- Show current setting.
save: -- Save current setting.
restore: -- Set to factory default.
goto normal: -- Go to normal mode

timeout:[x] -- Set time out time of send sms
             The value x must be 5-120.

signal: [x] -- Set valid signal threshold
          The value x must be 3-15.

cycle: [x] -- Set cycle rotate. x=0 -- off, x=1 -- on

rotate: [mode],[value] -- Set rotate mode and value
      mode = [10] Turn off rotate by success counter
              [11] Turn on rotate by success counter
              [20] Turn off rotate by failure counter
              [21] Turn on rotate by failure counter
              [30] Turn off rotate by continue failure counter
              [31] Turn on rotate by continue failure counter
```

Modem pool help list:

help: -- Show help.

display: -- Show current setting.

save: -- Save current setting.

restore: -- Set to factory default.

goto normal: -- Go to normal mode

timeout:[x] -- Set timeout time of send SMS (Default setting is 50)

The value x must be 5-120.

signal: [x] -- Set valid signal threshold(Default setting is 5)

The value x must be 3-15.

cycle: [x] -- Set cycle rotate. x=0 -- off, x=1 -- on (default setting is off)

rotate: [mode],[value] -- Set rotate mode and value

mode = [10] Turn off rotate by success counter

[11] Turn on rotate by success counter

[20] Turn off rotate by failure counter

[21] Turn on rotate by failure counter

[30] Turn off rotate by continue failure counter

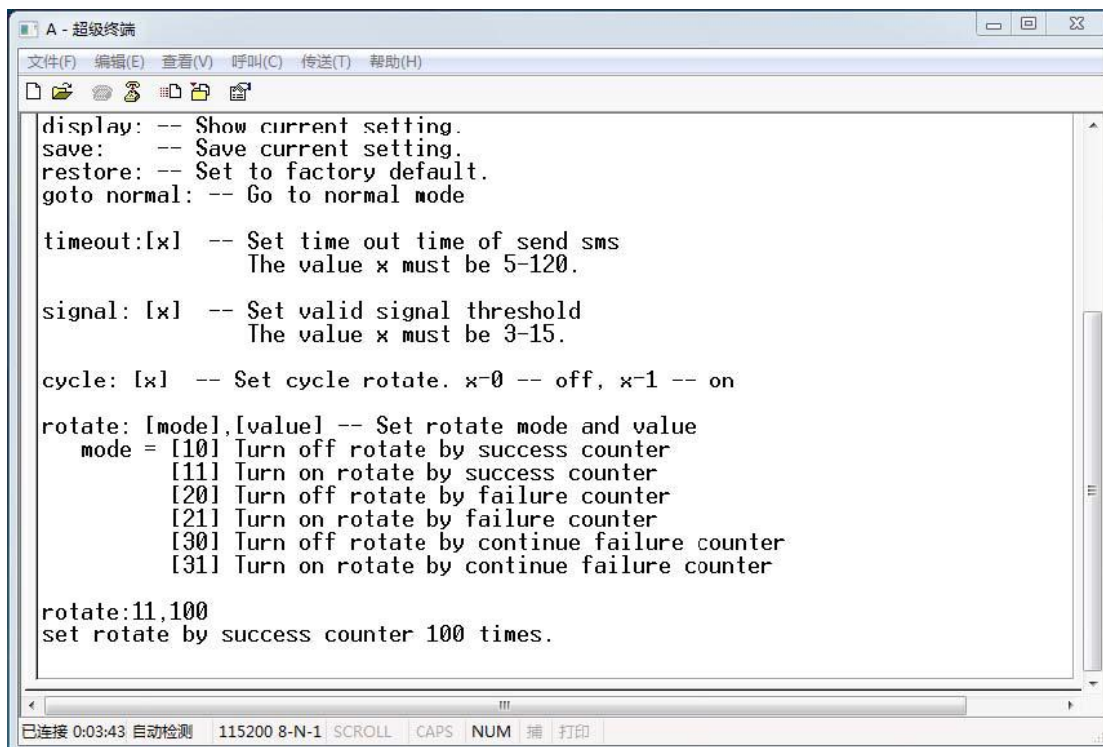
[31] Turn on rotate by continue failure counter

So if you want to set the port to rotate after sending 100 SMS successfully, then you can input the following:

rotate: 11,100

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Then you will see as below:



```
display: -- Show current setting.
save:    -- Save current setting.
restore: -- Set to factory default.
goto normal: -- Go to normal mode

timeout:[x] -- Set time out time of send sms
           The value x must be 5-120.

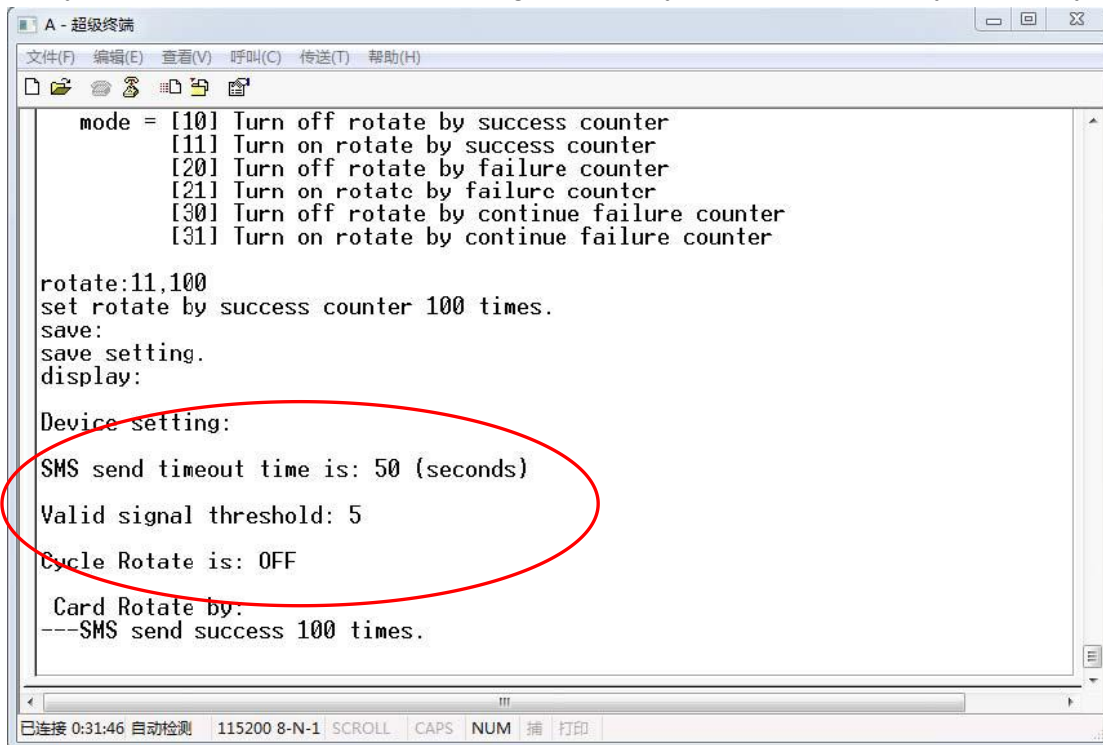
signal: [x] -- Set valid signal threshold
          The value x must be 3-15.

cycle: [x] -- Set cycle rotate. x=0 -- off, x=1 -- on

rotate: [mode],[value] -- Set rotate mode and value
      mode = [10] Turn off rotate by success counter
              [11] Turn on rotate by success counter
              [20] Turn off rotate by failure counter
              [21] Turn on rotate by failure counter
              [30] Turn off rotate by continue failure counter
              [31] Turn on rotate by continue failure counter

rotate:11,100
set rotate by success counter 100 times.
```

and you input "save:" to save the setting. And also you can input "display:" to view your setting.



```
mode = [10] Turn off rotate by success counter
        [11] Turn on rotate by success counter
        [20] Turn off rotate by failure counter
        [21] Turn on rotate by failure counter
        [30] Turn off rotate by continue failure counter
        [31] Turn on rotate by continue failure counter

rotate:11,100
set rotate by success counter 100 times.
save:
save setting.
display:

Device setting:
SMS send timeout time is: 50 (seconds)
Valid signal threshold: 5
Cycle Rotate is: OFF

Card Rotate by:
---SMS send success 100 times.
```

When Setting finishes, you can input "goto normal:" to enter normal mode

NormaNormal Mode

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```
A - 超级终端
文件(F) 编辑(E) 查看(V) 呼叫(C) 传送(T) 帮助(H)

mode = [10] Turn off rotate by success counter
       [11] Turn on rotate by success counter
       [20] Turn off rotate by failure counter
       [21] Turn on rotate by failure counter
       [30] Turn off rotate by continue failure counter
       [31] Turn on rotate by continue failure counter

rotate:11,100
set rotate by success counter 100 times.
display:

Device setting:

SMS send timeout time is: 50 (seconds)

Valid signal threshold: 5

Cycle Rotate is: OFF

Card Rotate by:
---SMS send success 100 times.
goto normal:
Go to normal mode.

已连接 0:06:24 自动检测 115200 8-N-1 SCROLL CAPS NUM 捕捉 打印
```

1, In normal mode, you can use AT Command to communicate with GSM module directly.
For example to view the module IMEI no.

AT+CGSN

It will show IMEI no. as 863070013010763.

For example to change IMEI :

AT+EGMR=1,7,"863070013010786" to change IMEI no. to 863070013010786

You can input AT+CGSN again to view IMEI no. which you have changed. See as below:

```
a - 超级终端
文件(F) 编辑(E) 查看(V) 呼叫(C) 传送(T) 帮助(H)

OK
+CME ERROR: 100
OK
OK
ate1
OK
at+gsn
863070013010763
OK
at+cgsn
863070013010763
OK
at+egmr=1,7,"863070013010786"
OK
at+cgsn
863070013010786
OK

已连接 0:06:18 自动检测 115200 8-N-1 SCROLL CAPS NUM 捕捉 打印
```

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2, After setting, return to normal mode, you can open the SMS caster or other SMS software to do SMS sending and receiving.

(Notice: In normal mode, must insert valid SIM card)

Update Mode:

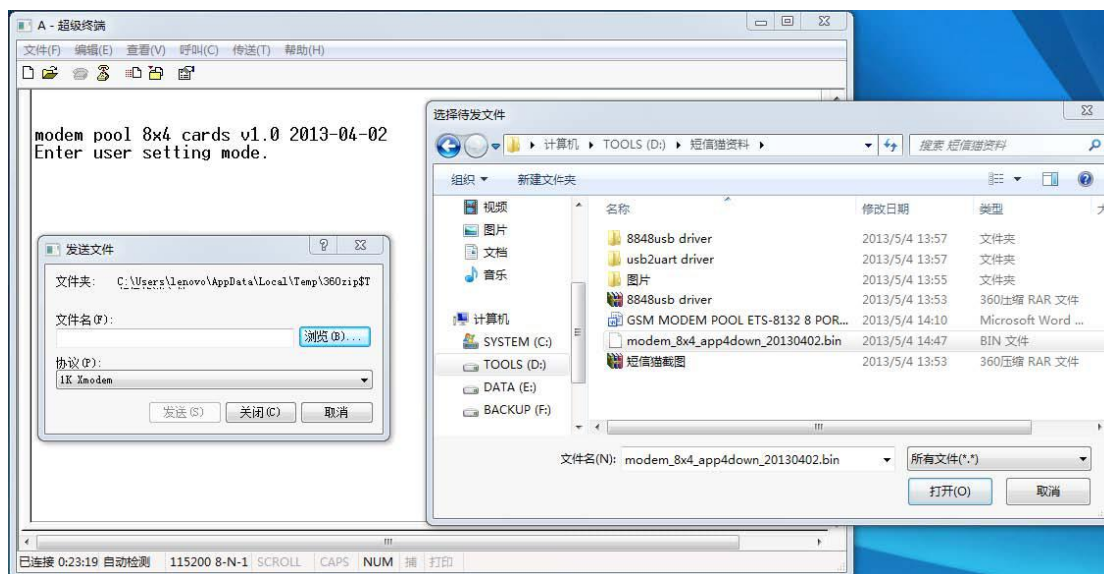
In Update mode, you can upgrade the firmware.

1, enter into update mode

Switch on the device, it will display “modem pool 16x4 cards V1.0” on the screen of hyper terminal, press “ENTER” key 3 times immediately to enter into Update Mode.

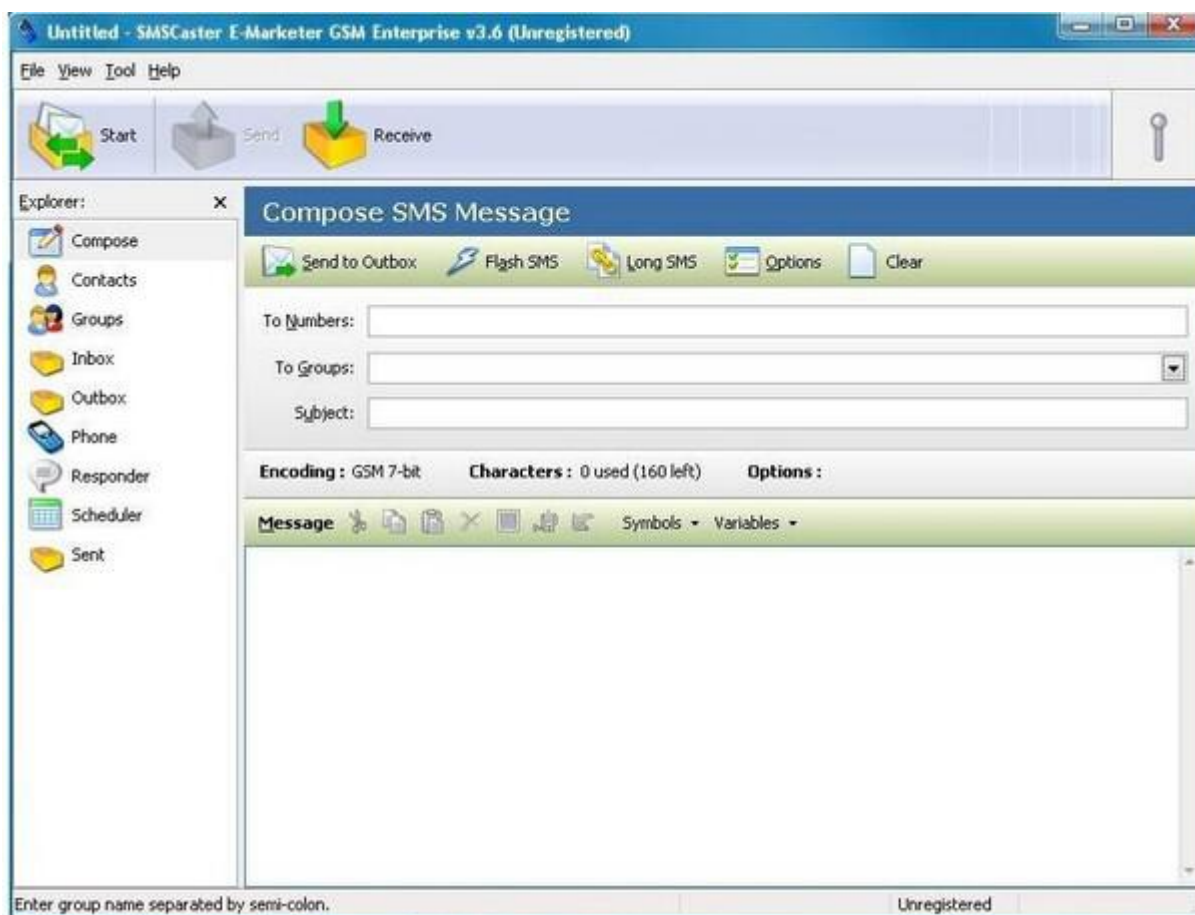
2, Upgrade firmware

Open the Menu \transfer \to send a file, choose the firmware file to finish the upgrade. See the diagram as below:



Send / Receive SMS:

After setting, you can do SMS sending through SMS software (eg. SMS caster) or any other SMS software.



Packing details:		
Item	Photo	Quantity
GSM Modem pool host		1pcq
Antenna (plastic short antenna) 2.5 dbi		16pcs
USB Data cable		1pc
Power cable		1pc
Weight	3.5KG	
Size (LxWxG)	49*21*19(cm)	