




Caimore Quick to Guide DTU Operation

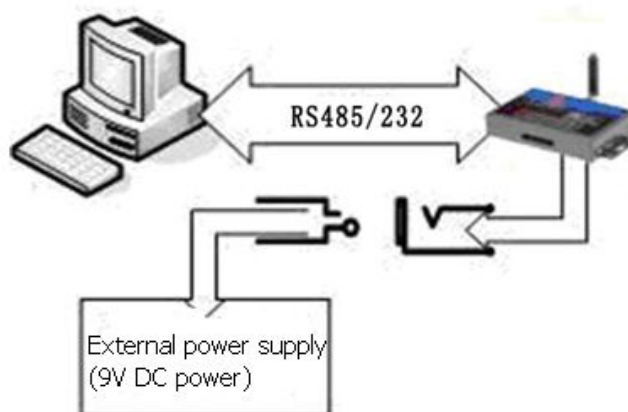
1. Unpacking

1. Please check complement of DTU and accessories



		
Power supply	RS232 Data cable	Antenna

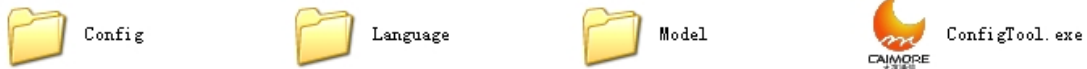
2. The connection cable with DTU and PC (RS232 or RS485)



3. Insert into SIM card and install antenna

2. Local serial port configuration

- 2.1 Please find and double click the configuration tool “ ConfigTool.exe”.

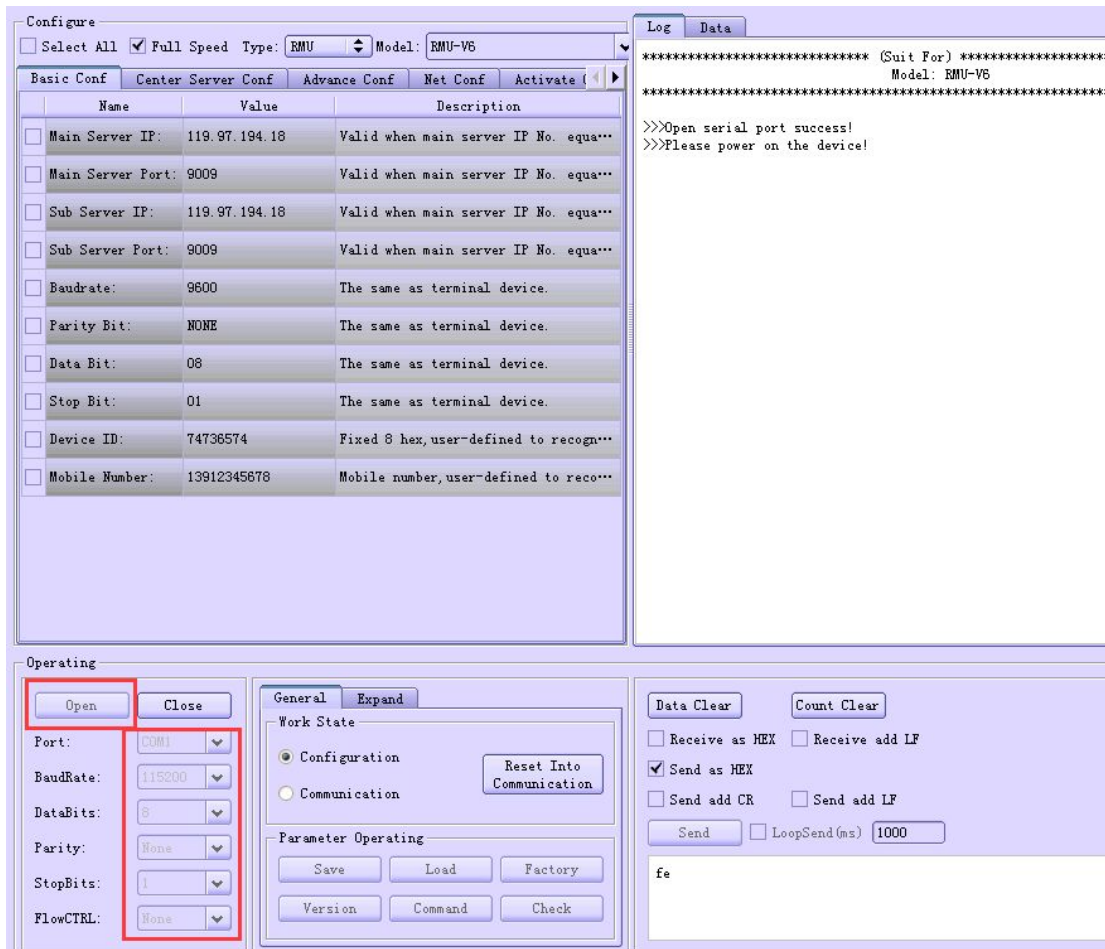


2.2 Please select relevance serial No. which is connected to PC , and click “Open” to open it. All the default attributes will be showed on the page. Such as baud rate, serial No. Digital bit, stop bit, and parity bit.

Note:

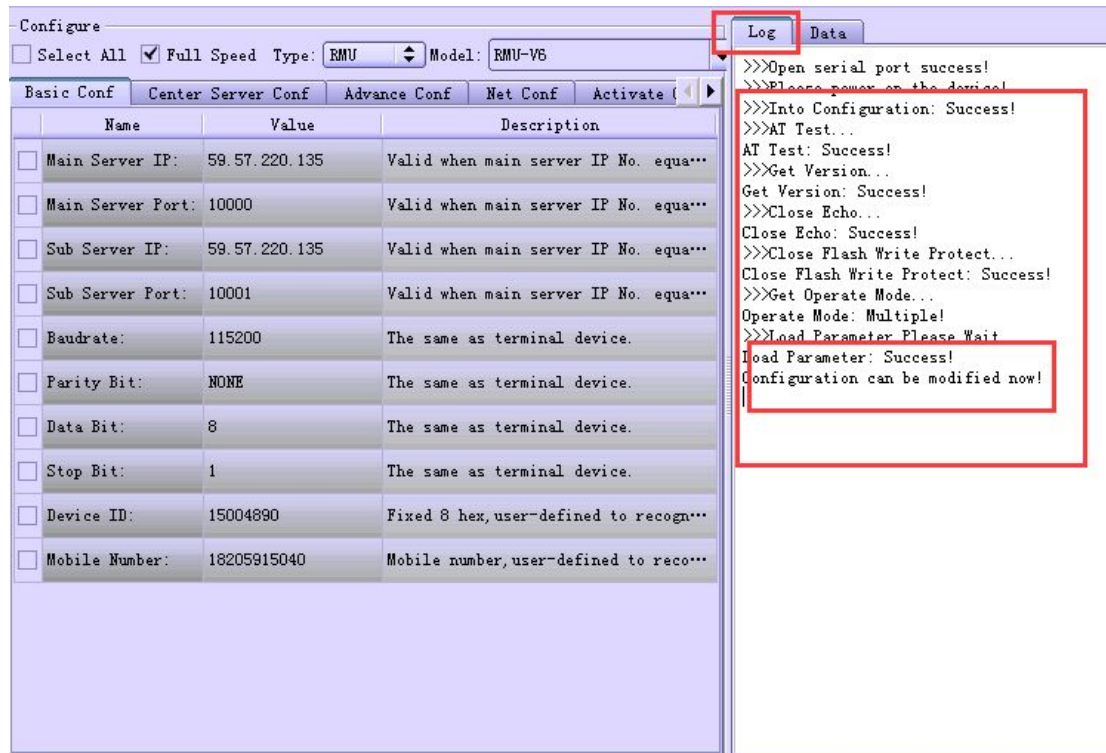
1. The default COM1 & COM2 refer to the port connect from RS232 serial prot to PC; If USD forwarder to RS232 be used, the relative COM number can be checked like this: right click “My Computer”-----> “device management”-----> “interface (COM & LPT)”.
2. Please not to change the following default attributes, otherwise, DTU maybe will not work in normal way..

Baud: 115200
 Parity: None
 Data Bit:8
 Stop Bit:1



2.3 Please pay attention to the details displayed on “Log” page. Once there is a info with “ Configuration can be modified now! “, you can configure the DTU’s
 Tel:+86 592 5901215 2 web:www.caimore.com/emain.asp

parameters.



The screenshot shows the configuration interface for the RMU-V6 device. The 'Log' window displays the following messages:

```

>>>Open serial port success!
>>>Please power on the device!
>>>Into Configuration: Success!
>>>AT Test...
AT Test: Success!
>>>Get Version...
Get Version: Success!
>>>Close Echo...
Close Echo: Success!
>>>Close Flash Write Protect...
Close Flash Write Protect: Success!
>>>Get Operate Mode...
Operate Mode: Multiple!
>>>Load Parameter: Please Wait
Load Parameter: Success!
Configuration can be modified now!
  
```

Name	Value	Description
<input type="checkbox"/> Main Server IP:	59.57.220.135	Valid when main server IP No. equa...
<input type="checkbox"/> Main Server Port:	10000	Valid when main server IP No. equa...
<input type="checkbox"/> Sub Server IP:	59.57.220.135	Valid when main server IP No. equa...
<input type="checkbox"/> Sub Server Port:	10001	Valid when main server IP No. equa...
<input type="checkbox"/> Baudrate:	115200	The same as terminal device.
<input type="checkbox"/> Parity Bit:	NONE	The same as terminal device.
<input type="checkbox"/> Data Bit:	8	The same as terminal device.
<input type="checkbox"/> Stop Bit:	1	The same as terminal device.
<input type="checkbox"/> Device ID:	15004690	Fixed 8 hex,user-defined to recogn...
<input type="checkbox"/> Mobile Number:	18205915040	Mobile number,user-defined to reco...

2.4 The correlate parameters of main server & server port can be set if needed.

2.5 Please click “save” after modifying the paramenters, and then “Save Parameter: Success!” will be displayed on the “ Log” page.

Configure

Select All Full Speed Type: **RMU** Model: **RMU-V6**

Basic Conf Center Server Conf Advance Conf Net Conf Activate ()

Name	Value	Description
<input checked="" type="checkbox"/> Main Server IP:	110.80.17.74	Valid when main server IP No. equa...
<input checked="" type="checkbox"/> Main Server Port:	28000	Valid when main server IP No. equa...
<input type="checkbox"/> Sub Server IP:	59.57.220.135	Valid when main server IP No. equa...
<input type="checkbox"/> Sub Server Port:	10001	Valid when main server IP No. equa...
<input type="checkbox"/> Baudrate:	115200	The same as terminal device.
<input type="checkbox"/> Parity Bit:	NONE	The same as terminal device.
<input type="checkbox"/> Data Bit:	8	The same as terminal device.
<input type="checkbox"/> Stop Bit:	1	The same as terminal device.
<input type="checkbox"/> Device ID:	15004890	Fixed 8 hex, user-defined to recogn...
<input type="checkbox"/> Mobile Number:	18205915040	Mobile number, user-defined to reco...

Log Data

```
>>>Open serial port success!
>>>Please power on the device!
>>>Into Configuration: Success!
>>>AT Test...
AT Test: Success!
>>>Get Version...
Get Version: Success!
>>>Close Echo...
Close Echo: Success!
>>>Close Flash Write Protect...
Close Flash Write Protect: Success!
>>>Get Operate Mode...
Operate Mode: Multiple!
>>>Load Parameter, Please Wait...
Load Parameter: Success!
Configuration can be modified now!
```

Operating

Open Close

Port: COM1

BaudRate: 115200

DataBits: 8

Parity: None

StopBits: 1

FlowCTRL: None

General Expand

Work State

Configuration Communication

Reset Into Communication

Parameter Operating

Save Load Factory

Version Command Check

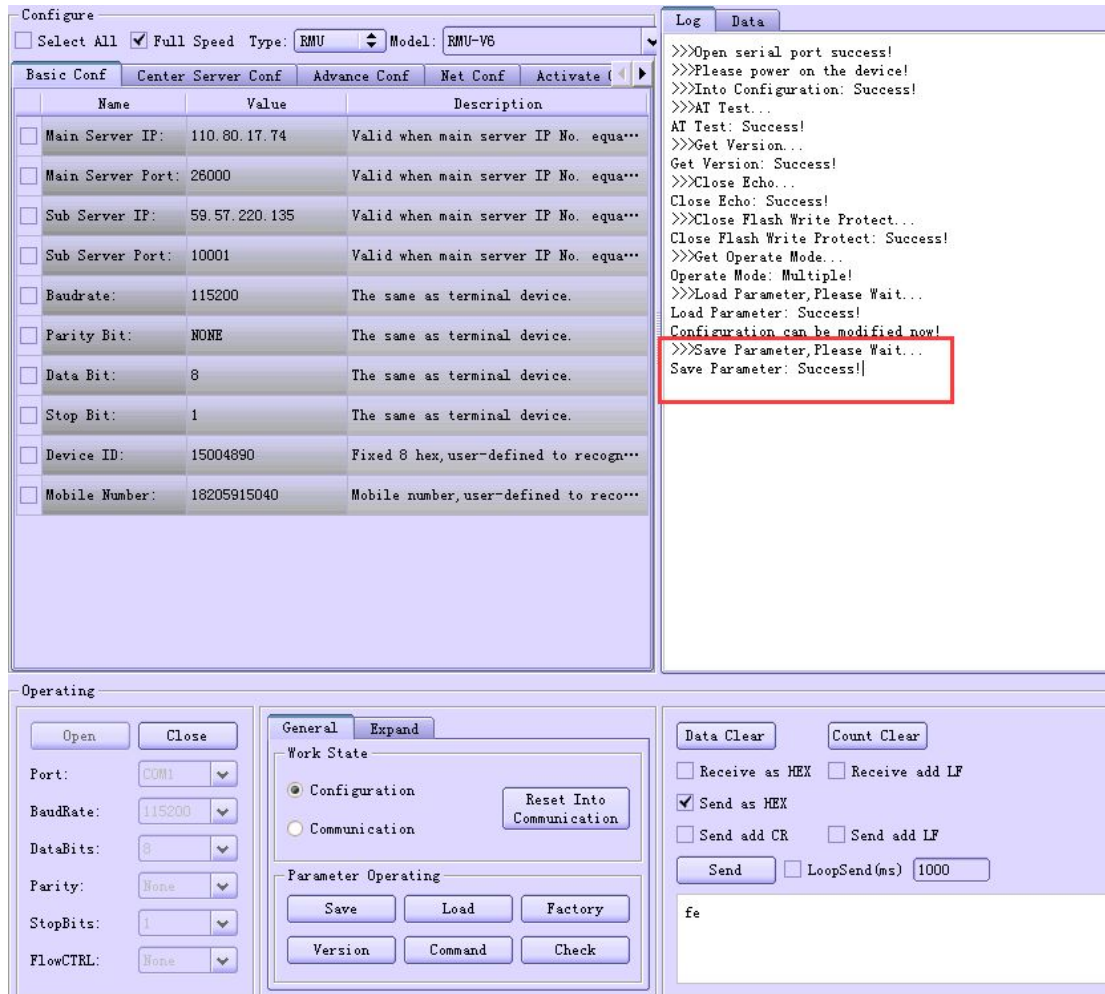
Data Clear Count Clear

Receive as HEX Receive add LF

Send as HEX Send add CR Send add LF

Send LoopSend(ms) 1000

fe



The screenshot displays the CAIMORE configuration software interface, divided into two main sections: 'Configure' and 'Operating'.

Configure Panel:

- Buttons: Select All, Full Speed, Type: **RMU**, Model: **RMU-V6**
- Tabs: Basic Conf, Center Server Conf, Advance Conf, Net Conf, Activate
- Table:

Name	Value	Description
<input type="checkbox"/> Main Server IP:	110.80.17.74	Valid when main server IP No. equa...
<input type="checkbox"/> Main Server Port:	26000	Valid when main server IP No. equa...
<input type="checkbox"/> Sub Server IP:	59.57.220.135	Valid when main server IP No. equa...
<input type="checkbox"/> Sub Server Port:	10001	Valid when main server IP No. equa...
<input type="checkbox"/> Baudrate:	115200	The same as terminal device.
<input type="checkbox"/> Parity Bit:	NONE	The same as terminal device.
<input type="checkbox"/> Data Bit:	8	The same as terminal device.
<input type="checkbox"/> Stop Bit:	1	The same as terminal device.
<input type="checkbox"/> Device ID:	15004890	Fixed 8 hex, user-defined to recogn...
<input type="checkbox"/> Mobile Number:	18205915040	Mobile number, user-defined to reco...

Log Panel:

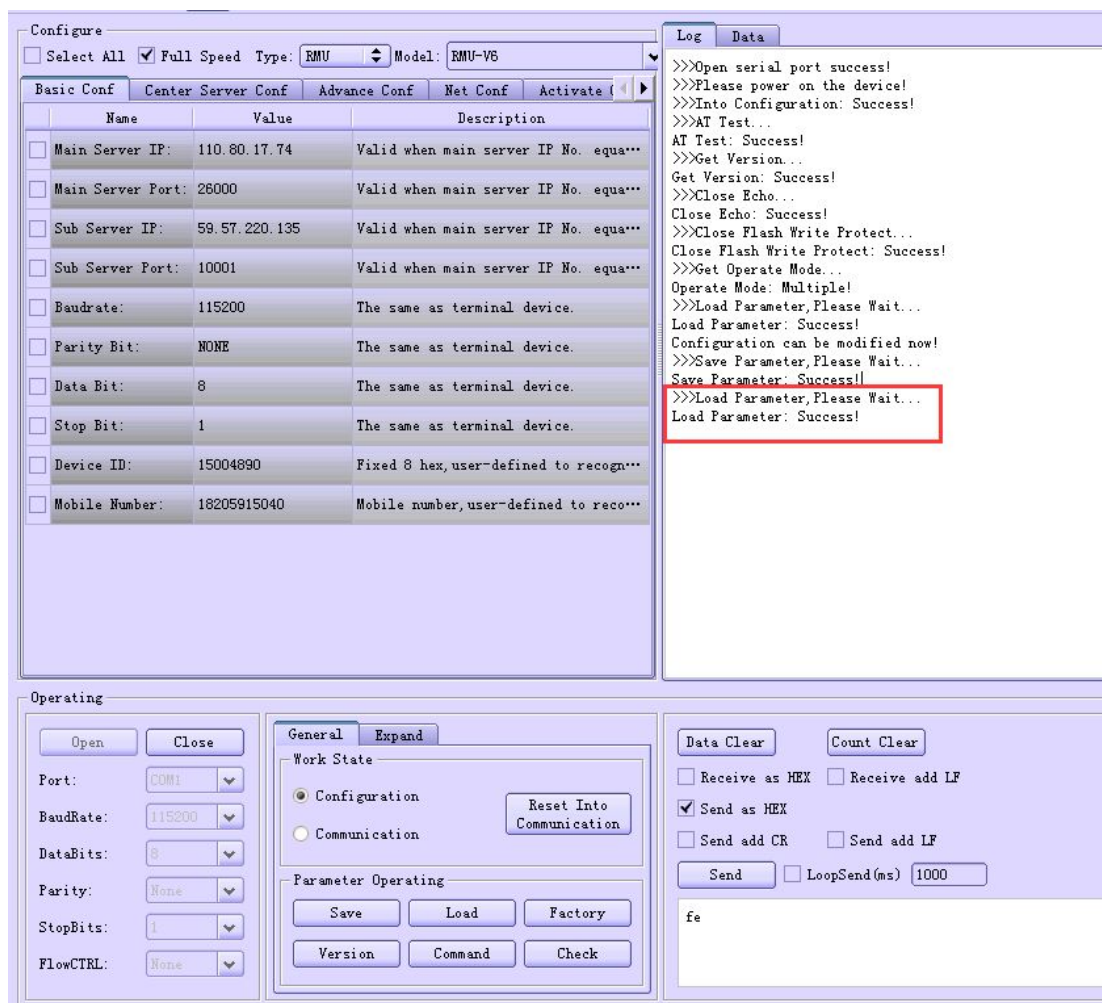
```

>>>Open serial port success!
>>>Please power on the device!
>>>Into Configuration: Success!
>>>AT Test...
AT Test: Success!
>>>Get Version...
Get Version: Success!
>>>Close Echo...
Close Echo: Success!
>>>Close Flash Write Protect...
Close Flash Write Protect: Success!
>>>Get Operate Mode...
Operate Mode: Multiple!
>>>Load Parameter, Please Wait...
Load Parameter: Success!
Configuration can be modified now!
>>>Save Parameter, Please Wait...
Save Parameter: Success!
  
```

Operating Panel:

- Buttons: Open, Close
- Port: COM1
- BaudRate: 115200
- DataBits: 8
- Parity: None
- StopBits: 1
- FlowCTRL: None
- Work State: Configuration, Communication
- Parameter Operating: Save, Load, Factory, Version, Command, Check
- Data Clear, Count Clear
- Receive as HEX, Receive add LF, Send as HEX, Send add CR, Send add LF
- Send, LoopSend(ms) 1000

2.6 Please try to read the parameters be set before to check if that is all right. If yes, "Load Parameter: Success!" will be displayed on the "Log" page.



The screenshot displays the CAIMORE software interface, divided into several sections:

- Configure Panel:**
 - Buttons: Select All, Full Speed, Type: **RMU**, Model: **RMU-V6**
 - Tabbed interface: **Basic Conf**, Center Server Conf, Advance Conf, Net Conf, Activate {
 - Table with columns: Name, Value, Description.
 - Main Server IP: 110.80.17.74 (Valid when main server IP No. equa...)
 - Main Server Port: 26000 (Valid when main server IP No. equa...)
 - Sub Server IP: 59.57.220.135 (Valid when main server IP No. equa...)
 - Sub Server Port: 10001 (Valid when main server IP No. equa...)
 - Baudrate: 115200 (The same as terminal device.)
 - Parity Bit: NONE (The same as terminal device.)
 - Data Bit: 8 (The same as terminal device.)
 - Stop Bit: 1 (The same as terminal device.)
 - Device ID: 15004890 (Fixed 8 hex, user-defined to recogn...)
 - Mobile Number: 18205915040 (Mobile number, user-defined to reco...)
- Log Panel:**
 - Buttons: Log, Data
 - Log output text:

```
>>>Open serial port success!
>>>Please power on the device!
>>>Into Configuration: Success!
>>>AT Test...
AT Test: Success!
>>>Get Version...
Get Version: Success!
>>>Close Echo...
Close Echo: Success!
>>>Close Flash Write Protect...
Close Flash Write Protect: Success!
>>>Get Operate Mode...
Operate Mode: Multiple!
>>>Load Parameter, Please Wait...
Load Parameter: Success!
Configuration can be modified now!
>>>Save Parameter, Please Wait...
Save Parameter: Success!
>>>Load Parameter, Please Wait...
Load Parameter: Success!
```
- Operating Panel:**
 - Buttons: Open, Close
 - Port: COM1
 - BaudRate: 115200
 - DataBits: 8
 - Parity: None
 - StopBits: 1
 - FlowCTRL: None
 - General/Expand tabs
 - Work State:
 - Configuration (Reset Into Communication)
 - Communication
 - Parameter Operating: Save, Load, Factory, Version, Command, Check
 - Data Clear, Count Clear
 - Receive as HEX, Receive add LF, Send as HEX, Send add CR, Send add LF, LoopSend(ms) 1000
 - Send button
 - Text area: fe

3. Make the device into communication , then check if it can send and receive SMS

3.1 How to put the device into communication

3.1.1 Modify parameters and save it . When the work status switch to “communication” . Then On the log page it can shows (Resetting...Please wait till the device is online) ; Click close and select the corresponding serial port like Baud rate , data bit , parity , stop bits ,flow control if the serial port value is different with the local ones . Open it after modify .



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Configure

Select All Full Speed Type: RMU Model: RMU-V6

Name	Value	Description
<input type="checkbox"/> Main Server IP:	110.80.17.74	Valid when main server IP No. equa...
<input type="checkbox"/> Main Server Port:	26000	Valid when main server IP No. equa...
<input type="checkbox"/> Sub Server IP:	59.57.220.135	Valid when main server IP No. equa...
<input type="checkbox"/> Sub Server Port:	10001	Valid when main server IP No. equa...
<input type="checkbox"/> Baudrate:	9600	The same as terminal device.
<input type="checkbox"/> Parity Bit:	NONE	The same as terminal device.
<input type="checkbox"/> Data Bit:	8	The same as terminal device.
<input type="checkbox"/> Stop Bit:	1	The same as terminal device.
<input type="checkbox"/> Device ID:	15004890	Fixed 8 hex, user-defined to recogn...
<input type="checkbox"/> Mobile Number:	18205915040	Mobile number, user-defined to reco...

Log Data

```
>>>Open serial port success!  
>>>Please power on the device!  
>>>Into Configuration: Success!  
>>>AT Test...  
AT Test: Success!  
>>>Get Version...  
Get Version: Success!  
>>>Close Echo...  
Close Echo: Success!  
>>>Close Flash Write Protect...  
Close Flash Write Protect: Success!  
>>>Get Operate Mode...  
Operate Mode: Multiple!  
>>>Load Parameter, Please Wait...  
Load Parameter: Success!  
Configuration can be modified now!  
>>>Save Parameter, Please Wait...  
Save Parameter: Success!  
>>>Load Parameter, Please Wait...  
Load Parameter: Success!  
>>>Save Parameter, Please Wait...  
Save Parameter: Success!
```

Operating

Open Close

Port: COM1

BaudRate: 115200

DataBits: 8

Parity: None

StopBits: 1

FlowCTRL: None

General Expand

Work State

Configuration Communication

Reset Into Communication

Parameter Operating

Save Load Factory

Version Command Check

Data Clear Count Clear

Receive as HEX Receive add LF

Send as HEX

Send add CR Send add LF

Send LoopSend(ms) 1000

fe



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Configure

Select All Full Speed Type: RMU Model: RMU-V6

Name	Value	Description
<input type="checkbox"/> Main Server IP:	110.80.17.74	Valid when main server IP No. equa...
<input type="checkbox"/> Main Server Port:	26000	Valid when main server IP No. equa...
<input type="checkbox"/> Sub Server IP:	59.57.220.135	Valid when main server IP No. equa...
<input type="checkbox"/> Sub Server Port:	10001	Valid when main server IP No. equa...
<input type="checkbox"/> Baudrate:	9600	The same as terminal device.
<input type="checkbox"/> Parity Bit:	NONE	The same as terminal device.
<input type="checkbox"/> Data Bit:	8	The same as terminal device.
<input type="checkbox"/> Stop Bit:	1	The same as terminal device.
<input type="checkbox"/> Device ID:	15004890	Fixed 8 hex, user-defined to recogn...
<input type="checkbox"/> Mobile Number:	18205915040	Mobile number, user-defined to reco...

Log Data

```
>>>Open serial port success!  
>>>Please power on the device!  
>>>Into Configuration: Success!  
>>>AT Test...  
AT Test: Success!  
>>>Get Version...  
Get Version: Success!  
>>>Close Echo...  
Close Echo: Success!  
>>>Close Flash Write Protect...  
Close Flash Write Protect: Success!  
>>>Get Operate Mode...  
Operate Mode: Multiple!  
>>>Load Parameter,Please Wait...  
Load Parameter: Success!  
Configuration can be modified now!  
>>>Save Parameter,Please Wait...  
Save Parameter: Success!  
>>>Load Parameter,Please Wait...  
Load Parameter: Success!  
>>>Save Parameter,Please Wait...  
Save Parameter: Success!  
>>>Resetting...Please wait till the device is online!
```

Operating

Open Close

Port: COM1

BaudRate: 115200

DataBit: 8

Parity: None

StopBit: 1

FlowCTRL: None

General Expand

Work State

Configuration

Communication

Reset Into Communication

Parameter Operating

Save Load Factory

Version Command Check

Data Clear Count Clear

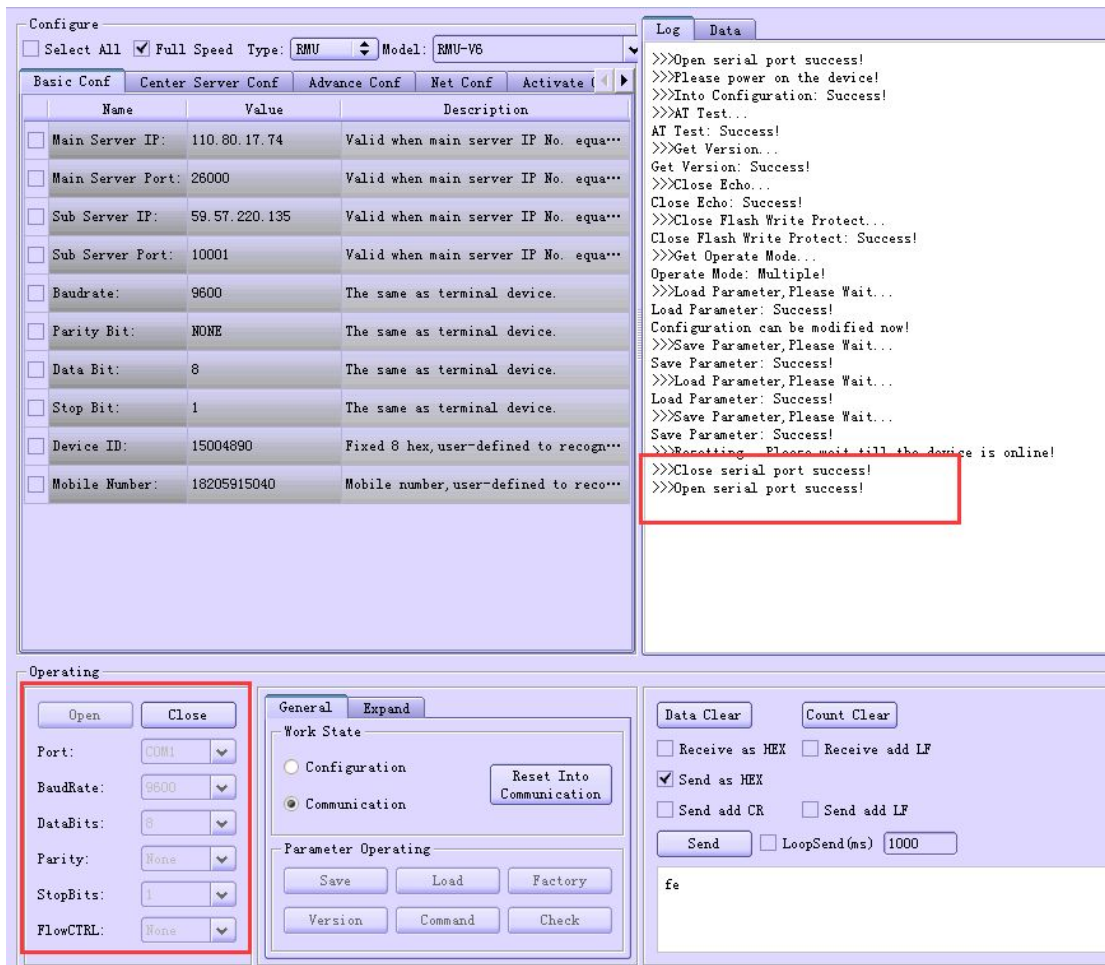
Receive as HEX Receive add LF

Send as HEX

Send add CR Send add LF

Send LoopSend(ms) 1000

fe



Configure

Select All Full Speed Type: RMU Model: RMU-V6

Name	Value	Description
<input type="checkbox"/> Main Server IP:	110.80.17.74	Valid when main server IP No. equa...
<input type="checkbox"/> Main Server Port:	26000	Valid when main server IP No. equa...
<input type="checkbox"/> Sub Server IP:	59.57.220.135	Valid when main server IP No. equa...
<input type="checkbox"/> Sub Server Port:	10001	Valid when main server IP No. equa...
<input type="checkbox"/> Baudrate:	9600	The same as terminal device.
<input type="checkbox"/> Parity Bit:	NONE	The same as terminal device.
<input type="checkbox"/> Data Bit:	8	The same as terminal device.
<input type="checkbox"/> Stop Bit:	1	The same as terminal device.
<input type="checkbox"/> Device ID:	15004890	Fixed 8 hex,user-defined to recogn...
<input type="checkbox"/> Mobile Number:	18205915040	Mobile number,user-defined to reco...

Log Data

```

>>>Open serial port success!
>>>Please power on the device!
>>>Into Configuration: Success!
>>>AT Test...
AT Test: Success!
>>>Get Version...
Get Version: Success!
>>>Close Echo...
Close Echo: Success!
>>>Close Flash Write Protect...
Close Flash Write Protect: Success!
>>>Get Operate Mode...
Operate Mode: Multiple!
>>>Load Parameter,Please Wait...
Load Parameter: Success!
Configuration can be modified now!
>>>Save Parameter,Please Wait...
Save Parameter: Success!
>>>Load Parameter,Please Wait...
Load Parameter: Success!
>>>Save Parameter,Please Wait...
Save Parameter: Success!
>>>Resetting. Please wait till the device is online!
>>>Close serial port success!
>>>Open serial port success!
  
```

Operating

Open Close

Port: COM1

BaudRate: 9600

DataBits: 8

Parity: None

StopBits: 1

FlowCTRL: None

General Expand

Work State

Configuration

Communication

Reset Into Communication

Parameter Operating

Save Load Factory

Version Command Check

Data Clear Count Clear

Receive as HEX Receive add LF

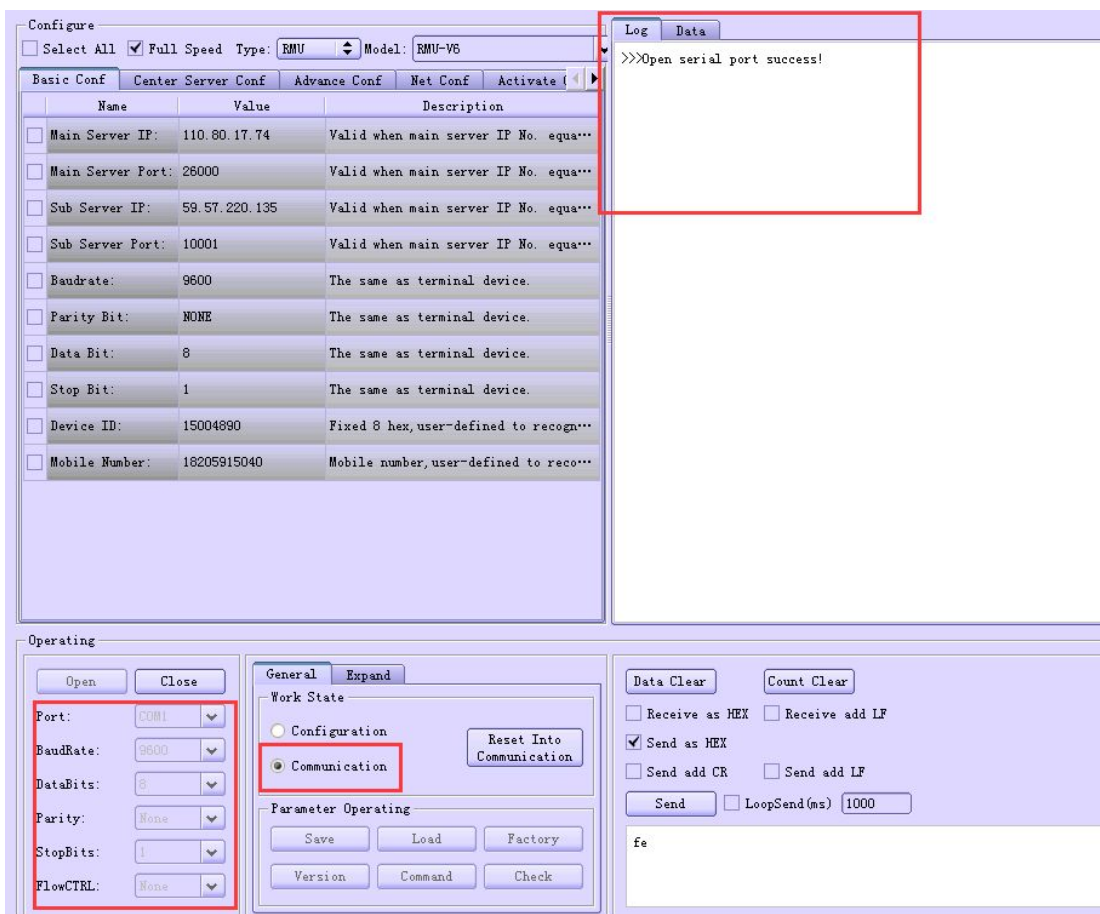
Send as HEX

Send add CR Send add LF

Send LoopSend(ms) 1000

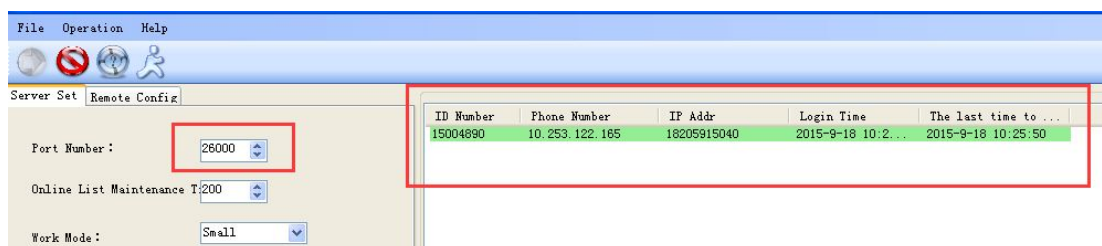
fe

3.1.2 Modify parameter and save it . Click close to make it into communication situation .Choose the corresponding serial port like Baud rate , data bit , parity , stop bits ,flow control , then choose “ok”.Click start to re-power it .



3.2 How to check if the device is online

When the device is into communication status for a while(about 30s),check the "online" light . If the "online" light is on then the device connect to sever . Or you can check in sever .



3.3 When device is online please check the link.

If configuration tool and sever can send SMS , both sending and receiving is ok ,
Link is ok .



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The screenshot shows the 'Caimore Data Center C# Demo' application. On the left, the 'Server Set' tab is active, displaying configuration options: Port Number (26000), Online List Maintenance (7:200), Work Mode (Small), Data Display Mode (16 Binary Di), and an unchecked 'Automatic Response' checkbox. Below this is the 'Send Data' section with a text input field containing 'Text 123456789' and a 'Send' button. On the right, a table lists server details, and a 'Log' window shows a single entry: '(2015-9-18 10:21:06):Started Succeed,Port Number:26000'.

ID Number	Phone Number	IP Addr	Login Time	The last time to ...

Log Received Data Send Data

(2015-9-18 10:21:06):Started Succeed,Port Number:26000

This screenshot shows the same software interface as above, but with an additional server entry in the table. The configuration and log windows remain the same. The table now contains one row with the following data:

ID Number	Phone Number	IP Addr	Login Time	The last time to ...
15004890	10.253.122.165	18205915040	2015-9-18 10:2...	2015-9-18 10:25:50

Log Received Data Send Data

(2015-9-18 10:21:06):Started Succeed,Port Number:26000
(2015-9-18 10:25:50):15004890offline



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Configure

Select All Full Speed Type: RMU Model: RMU-V6

Basic Conf Center Server Conf Advance Conf Net Conf Activate

Name	Value	Description
Main Server IP:	110.80.17.74	Valid when main server IP No. equa...
Main Server Port:	28000	Valid when main server IP No. equa...
Sub Server IP:	59.57.220.135	Valid when main server IP No. equa...
Sub Server Port:	10001	Valid when main server IP No. equa...
Baudrate:	9600	The same as terminal device.
Parity Bit:	NONE	The same as terminal device.
Data Bit:	8	The same as terminal device.
Stop Bit:	1	The same as terminal device.
Device ID:	15004890	Fixed 8 hex,user-defined to recogn...
Mobile Number:	18205915040	Mobile number,user-defined to reco...

Log Data

```
Tot bytes:09
Group 01:idx 0
22 00 00 01 00 01 2E 00 8B |".....
The end
ID:22
WriteFlash:uiSeg #800 uiOff 200
*
OK
OK
Resetting.. (01)
Resetting.. (02)
Resetting.. (03)
Resetting.. (04)
Resetting.. (05)
Resetting.. (06)
Resetting.. (07)
Resetting.. (08)
HEDTu enters TCP mode.
Now start at proc.
At Proc Success!
Ppp dial succ, Get Ip Addr :10.253.122.165
Ppp dial succ, Get Dns1 Addr :211.143.147.120
Ppp dial succ, Get Dns2 Addr :112.05.230.54
Resolving server name:110.80.17.74.
Connect to 110.80.17.74:28000 ...
Connected.]
```

Operating

Open Close

Port: COM1

BaudRate: 9600

DataBits: 8

Parity: None

StopBits: 1

FlowCTRL: None

General Expand

Work State

Configuration

Communication

Reset Into Communication

Parameter Operating

Save Load Factory

Version Command Check

Data Clear Count Clear

Receive as HEX Receive add LF

Send as HEX

Send add CR Send add LF

Send LoopSend(ms) 1000

123456789

File Operation Help

Server Set Remote Config

Port Number: 28000

Online List Maintenance T:200

Work Mode: Small

Data Display Mode: 16 Binary Di

Automatic Response

ID Number	Phone Number	IP Addr	Login Time	The last time to ...
15004890	10.253.122.165	18205915040	2015-9-18 10:2...	2015-9-18 10:25:50

Log Received Data Send Data

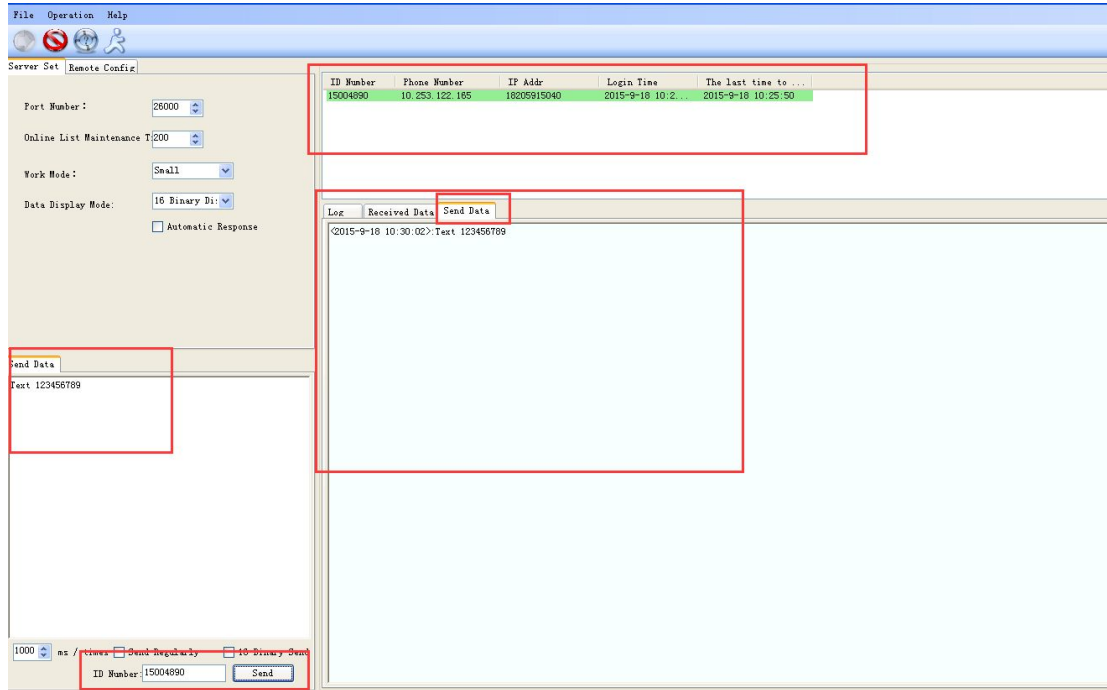
```
<2015-9-18 10:26:45>:Rec Data,ID:15004890,Len:9,Date:31 32 33 34 35 36 37 38 39
<2015-9-18 10:28:13>:Rec Data,ID:15004890,Len:2,Date:01 01
```

Send Data

Text 123456789

1000 ms / times Send Regularly 16 Binary Send

ID Number: Send



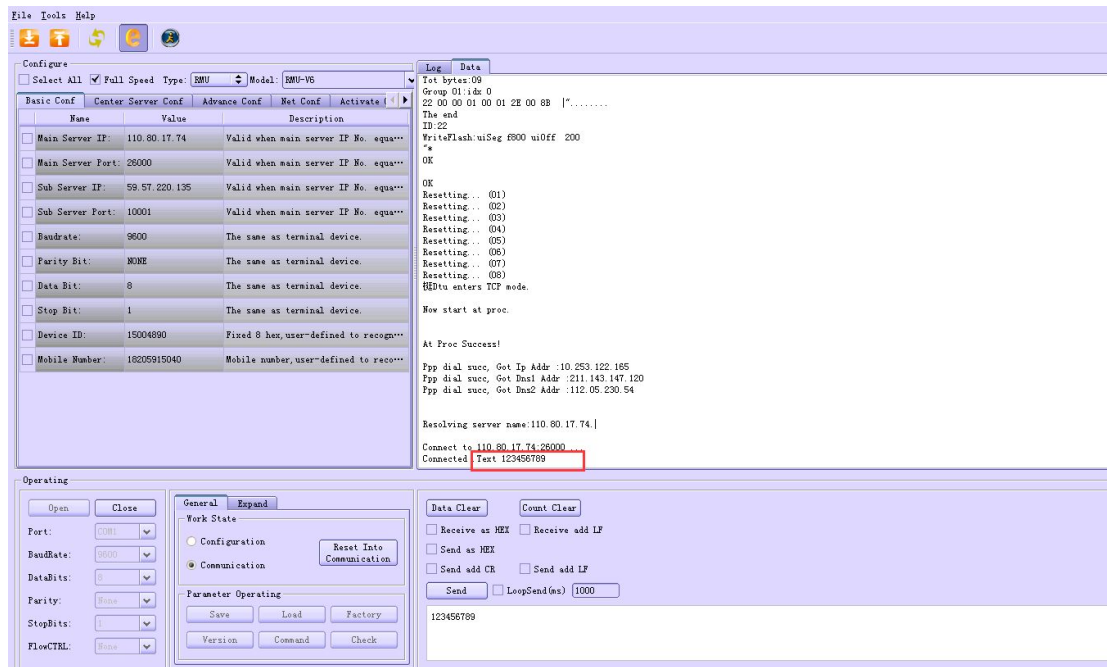
ID Number	Phone Number	IP Addr	Login Time	The last time to ...
15004890	10.253.122.165	16205915040	2015-9-18 10:2...	2015-9-18 10:25:30

```

Log Received Data Send Data
<2015-9-18 10:30:02>:Text 123456789
  
```

Send Data
Text 123456789

1000 ns / Send Regularly 10 Binary Send
ID Number: 15004890



File Tools Help

Configure

Select All Full Speed Type: SMU Model: SMU-V6

Name	Value	Description
<input type="checkbox"/> Main Server IP:	110.80.17.74	Valid when main server IP No. equa...
<input type="checkbox"/> Main Server Port:	26000	Valid when main server IP No. equa...
<input type="checkbox"/> Sub Server IP:	59.57.220.135	Valid when main server IP No. equa...
<input type="checkbox"/> Sub Server Port:	10001	Valid when main server IP No. equa...
<input type="checkbox"/> Baudrate:	9600	The same as terminal device.
<input type="checkbox"/> Parity Bit:	NONE	The same as terminal device.
<input type="checkbox"/> Data Bit:	8	The same as terminal device.
<input type="checkbox"/> Stop Bit:	1	The same as terminal device.
<input type="checkbox"/> Device ID:	15004890	Fixed 8 hex, user-defined to recogn...
<input type="checkbox"/> Mobile Number:	16205915040	Mobile number, user-defined to recogn...

Log Data

```

Tel bytes:09
Group 01:ide 0
22 00 00 01 00 01 2E 00 88 |*.....
The end
ID:22
WriteFlash:uiSeg #500 uiOFF 200
*
OK
Resetting... (01)
Resetting... (02)
Resetting... (03)
Resetting... (04)
Resetting... (05)
Resetting... (06)
Resetting... (07)
Resetting... (08)
Resetting... (09)
H8du enters TCP mode.
Now start at proc.
At Proc Success!
Ppp dial succ, Got Ip Addr :10.253.122.165
Ppp dial succ, Got Dns1 Addr :211.143.147.120
Ppp dial succ, Got Dns2 Addr :112.05.230.54
Resolving server name:110.80.17.74.
Connect to 110.80.17.74:26000
Connected Text 123456789
  
```

Operating

Open Close

Port: COM1 BaudRate: 9600 DataBits: Parity: None StopBits: FlowCTRL: None

General Expand

Work State

Configuration Communication

Parameter Operating

Save Load Factory

Version Command Check

Data Clear Count Clear

Receive as HEX Receive add LF

Send as HEX Send add CR Send add LF

Send LoopSend(s) 1000

123456789