

USR-G771-E User Manual

Document version: V1.0.5



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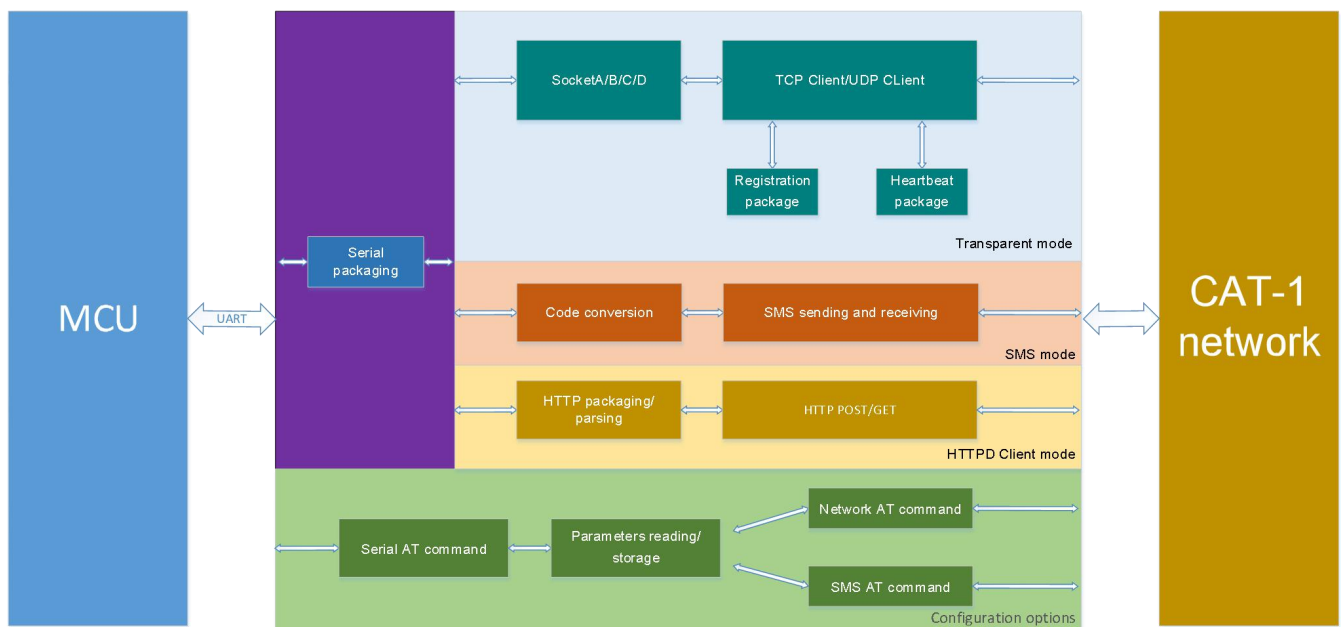
1. Introduction

1.1. Overview

USR-G771-E is a LTE CAT 1 communication modem, which supports LTE and GSM, covers the mainstream frequency bands of European operators. It has perfect software function, supports TCP/UDP transparent transmission, SMS transmission, HTTPD Client mode and AT command configuration. In addition, it is simple to configure, has high reliability and built-in hardware watchdog, supports FOTA upgrading.

USR-G771-E supplies a wide voltage range power through terminal and DC interface, RS232 and RS485 standard interfaces, meets the needs of different application scenarios.

1.2. Features



- Equipped with CAT-1 network, 10Mbps download rate, 5Mbps upload rate, meeting 80% of the data transmission application scenarios
- Low latency in milliseconds
- Multiple modes, supports LTE CAT 1 and GPRS
- Wide coverage, high stability based on existing 4G network
- Supports TCP/UDP, HTTPD and SMS transparent transmission
- Each socket supports buffering 20 packets of serial port data, each packet is up to 4K
- Supports parameter configuration via network, serial and SMS AT command
- Supports base station geolocation and NTP function
- Support 9~36V wide voltage supply
- Multiple indicator lights, convenient and accurate to check the device status
- Industrial grade, hardware watchdog, high reliability

2. Get Started

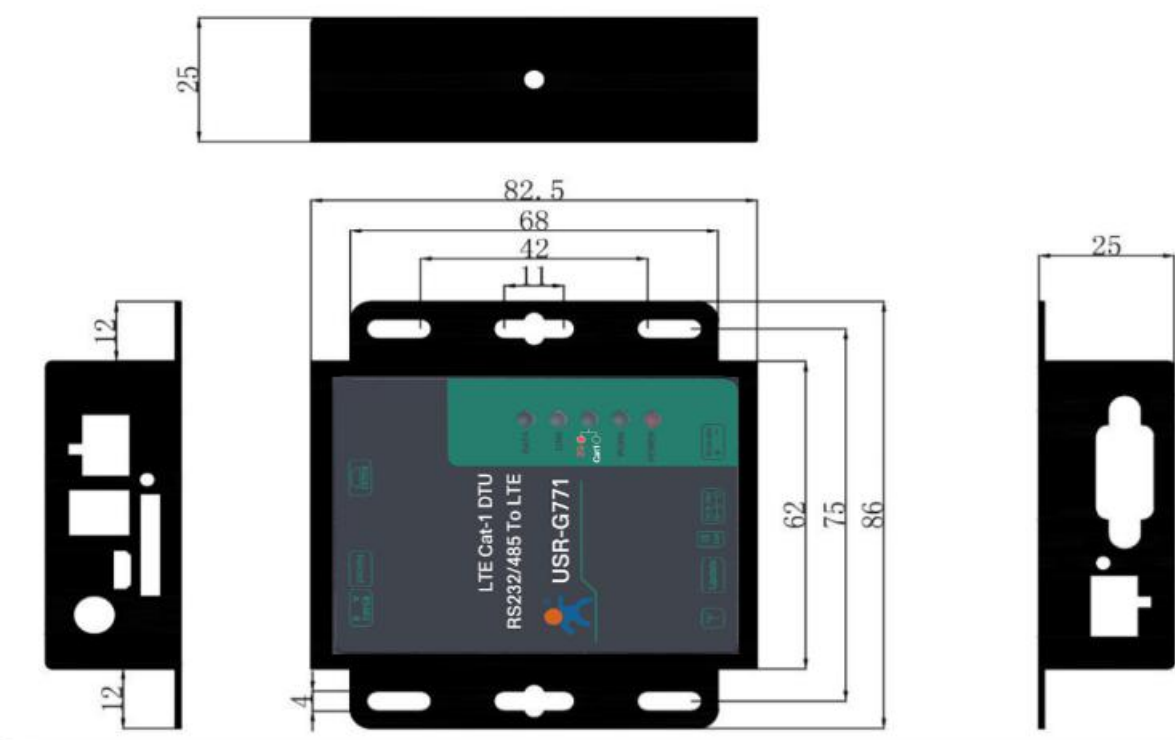
2.1. Specification

Parameters		Description
Basic Parameters	USR-G771-E	Supports B1/B3/B7/B8/B20
	Power	DC 9V~36V
	Operating current	Average: 21mA-50mA, maximum: 54mA (12V)
	Indicators	POWER: Power indicator, always on after normal power supply.
		WORK: Working status indicator, flashes every second.
		NET: Network status indicator, green means 4G, red means 2G.
		LINK: Socket A connection status indicator, always on after connecting.
		DATA: Data transmission indicator, on when there is data transmission.
	SIM/USIM	3V/1.8V SIM slot, 2FF
	USB interface	Slave, MicroUSB, USB 2.0 High speed
Environmental	UART interface	RS232 and RS485, baud rate 1200~230400 bps.
	Antenna interface	SMA female cellular antenna connector
Temperature	Dimensions(mm)	82.6 × 86 × 25
	Weight(g)	<110g
Humidity	Operating temperature	-30°C~ +75°C
	Storage temperature	-40°C~ +90°C
Transmission speed	Operating humidity	5%~95% (non-condensing)
	LTE FDD Rel.13	10MbpsDL/5Mbps UL
Bands	GPRS	85.6KbpsDL/85.6Kbps UL(multi-slot class 12)
	LTE FDD	B1/B3/B7/B8/B20
TX Power	GSM	900/1800MHz
	FDD:B1/3/7/8/20/28	23dBm±2dB
	GSM:900MHz	33dBm±2dB
Rx Sensitivity	GSM:1800MHz	30dBm±2dB
	GSM:900MHz	-109.5dBm
	GSM:1800MHz	-108dBm
	FDD:B1/3/20	-98dBm
	FDD:B7	-97.5dBm
Software	FDD:B8/B28	-98.5dBm
	Operating mode	TCP/UDP/HTTPD/SMS transparent transmission, CMD mode
	Configuration command	AT+command
	Network protocol	TCP/UDP/DNS/FTP/HTTP/IPV4/IPV6

	Socket number	4
	User configuration	Serial/Network/SMS AT command
Features	Socket distribution protocol	Support
	Heartbeat package	Support ICCID/IMEI/SN/User-defined/LBS
	Identity package	Support ICCID/IMEI/SN/User-defined/CLOUD
	FOTA self upgrade	Support
	Backup socket	Support
	Base station geolocation	Support
	FTP upgrade	Support
	NTP	Support

2.2. Hardware

2.2.1. Dimensions



2.2.2. Indicators

There are five indicators on USR-G771-E, PWR, WORK, NET, LINKA, DATA.

Indicator	Function	Status
POWER	Power indicator	Always on after normal power supply.
WORK	Working status indicator.	Flashes every second.
NET	Network status indicator	Green means 4G network, red means 2G network.
LINKA	Socket A connection status indicator	Always on after socket A is connected
DATA	Data transmission indicator	On when there is data transmission

2.2.3. Connecting Hardware

If you have purchased, there will be the following accessories:

			
USR-G771-E	Antenna	Power adapter	Female to female adaptor

Required additional equipment:



RS232 serial to USB cable



PC

1. Installing SIM card and antenna:
Press the yellow button and the SIM card slot will pop up. Then Install the antenna.
2. Serial Connecting:
RS232: Using the standard RS232 to USB cable, connect the RS232 male connector into the RS232 port on the G771-E. Connect the USB connector (other end of the cable) into the PC.
RS485: Connect pin A of the RS485 interface of the G771-E to pin A of the RS485 to USB adaptor, pin B of G771-E to pin B of the adaptor.
3. Power Supply:
Connect 9-36V DC power adapter to power G771-E. Then "POWER" indicator will always on and the "WORK" indicator will flash.

3. Utility Configuration

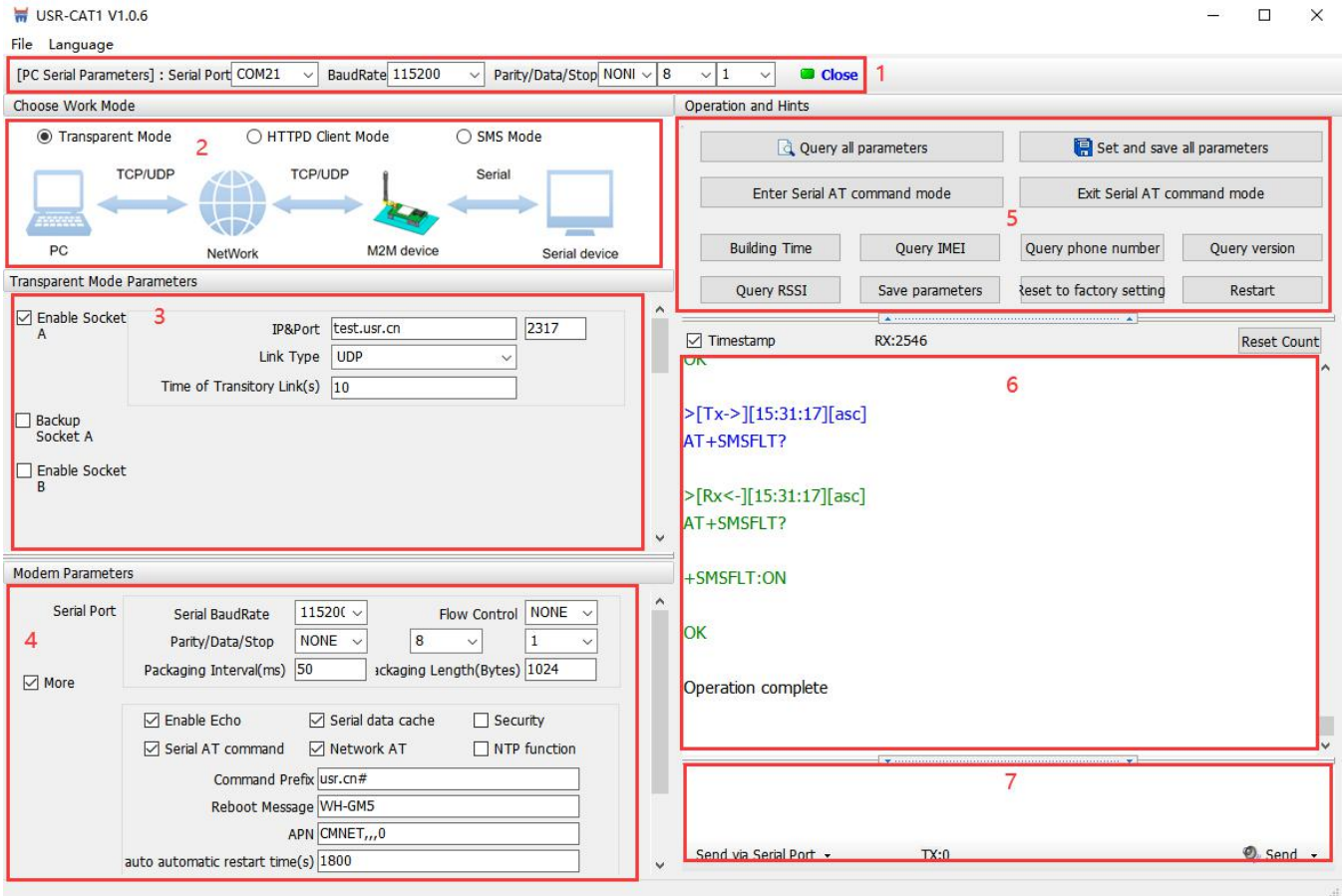
3.1. Download the Utility

Please download the utility in this link:

<https://www.pusr.com/products/RS232/RS485-serial-to-Cat-1-771.html>

3.2. Starting the Configuration Utility

USR-G771-E utility is shown as following:

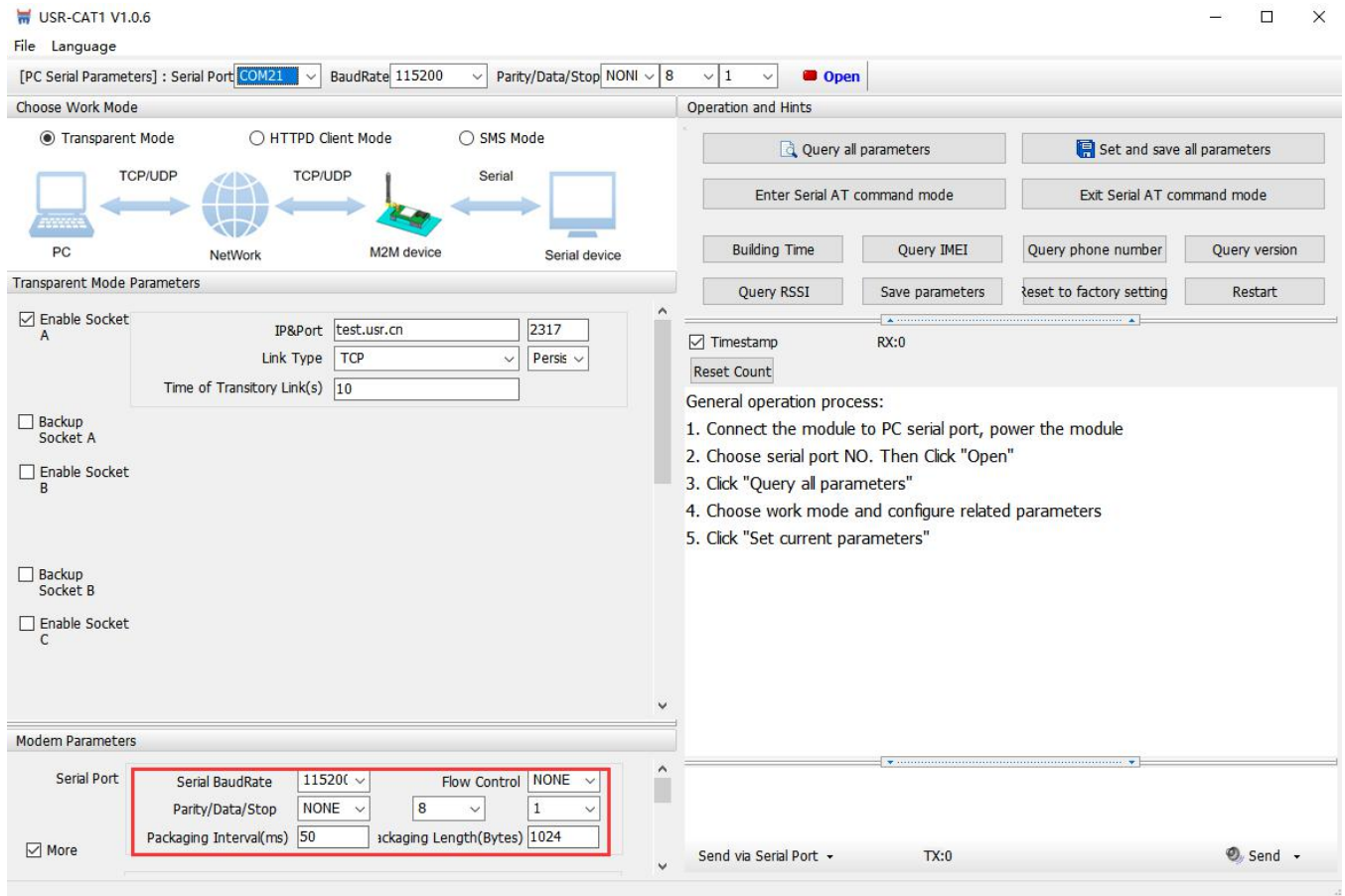


Description:

1. In PC serial parameter setting area, it is necessary to set the serial parameters consistent with the serial device, otherwise they cannot communicate with each other.
2. Working mode selection area, select the work mode of the modem.
3. In the parameter setting area of characteristic functions, set parameters related to modem's featured functions.
4. Modem parameter area, setup some basic global parameters.
5. Common command button, click to send the self-input command.
6. Data receiving and display area, displaying the data sent and received.
7. Data sending area, input the data and click Send.

4. Serial Port

4.1. Basic Parameters



Serial parameters of USR-G771-E must be consistent with the parameters of the serial device. Serial port parameters include basic parameters and framing parameters.

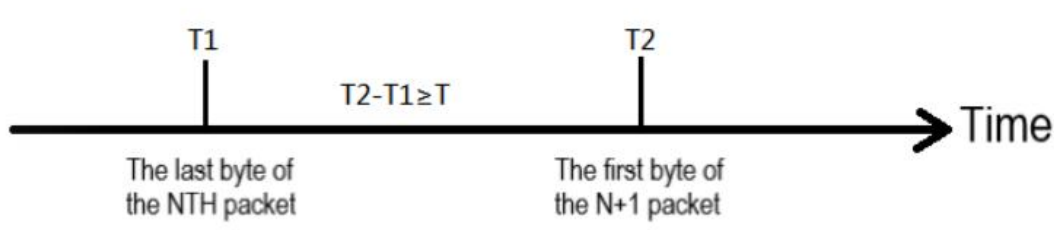
Item	Parameter
Baud rate	1200~230400bps
Data bit	8
Stop bit	1,2
Check bit	NONE EVEN ODD

4.2. Frame forming mechanism

4.2.1. Time Trigger

When G771-E receives data from the UART, it continuously checks the interval of two adjacent bytes. If the interval time is greater or equal to a certain "time threshold", then a frame is considered finished, otherwise the data is received until greater or equal to the packet length byte set. This frame is sent to the network as a TCP or UDP packet. The "time threshold" here is the time between packages. The range of settable is 10ms~500ms. Factory default: 50ms.

This parameter can be set by AT command, AT+UARTFT=<time>.

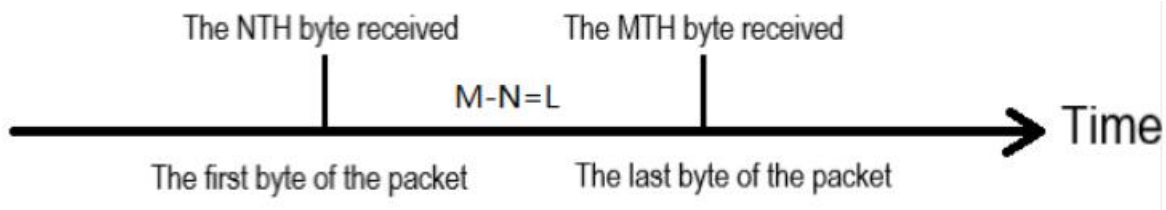


Note: T is the packing interval time.

4.2.2. Length trigger

When G771-E receives data from the UART, it constantly checks the number of bytes received. If the number of bytes received is equal to a certain "length threshold", a frame is considered to have ended, otherwise the packaging time is waiting for the end. This frame is sent to the network as a TCP or UDP packet. The "length threshold" here is the package length. The settable range is 5~4096. Factory defaults to 1024.

This parameter can be set by AT command, AT+UARTFL=<length>.

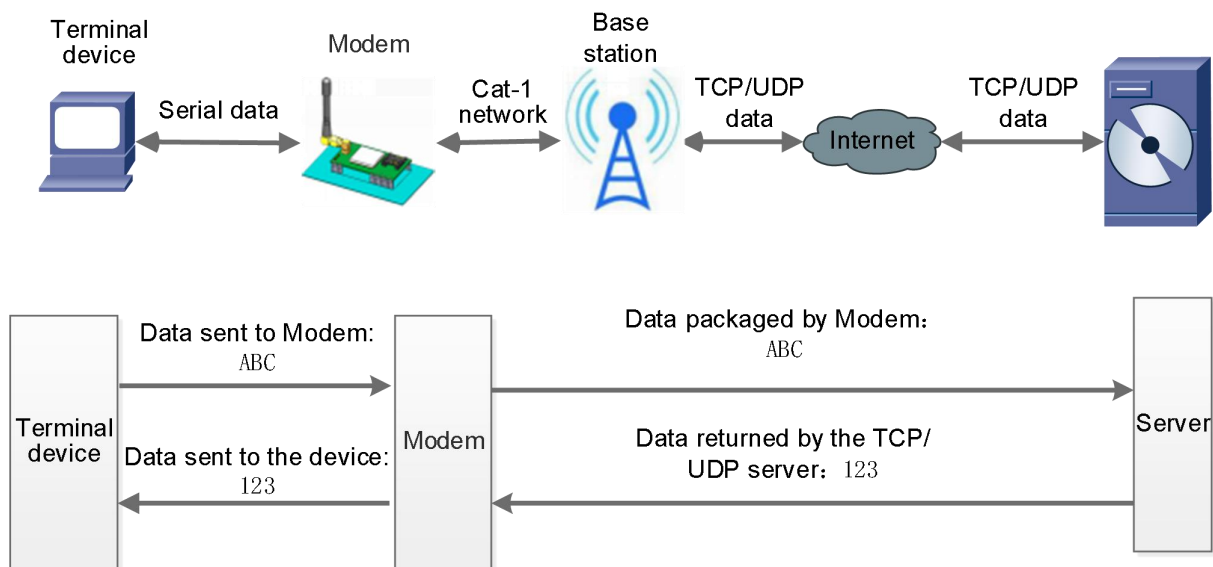


Note: L is the packaging length.

5. Selecting an Operating Mode

USR-G771-E has three operating modes: transparent mode, HTTPD Client mode and SMS mode.

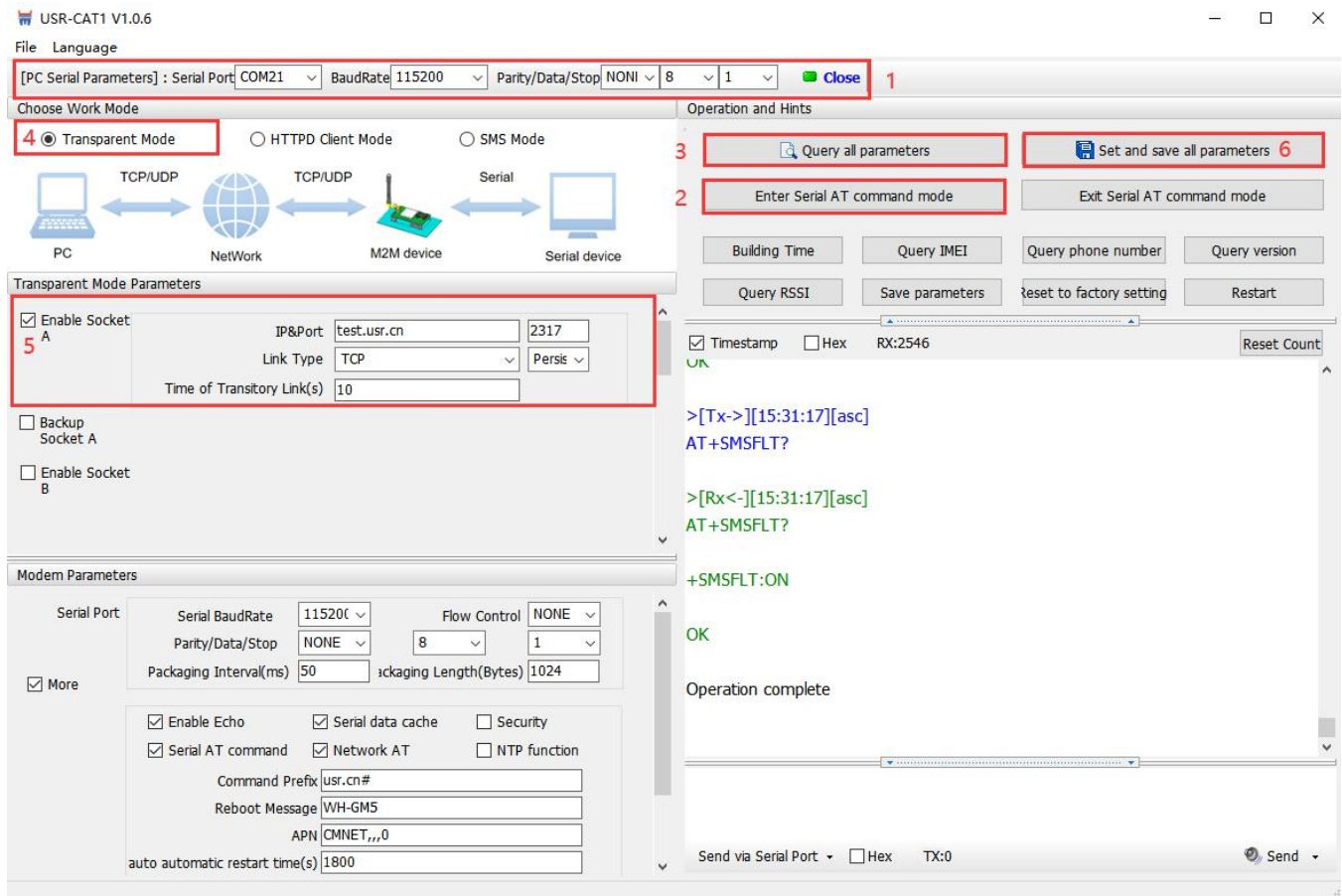
5.1. Transparent Mode



In this mode, users do not need to pay attention to the data conversion process, can realize the bidirectional data transparent transmission between serial devices and network servers.

G771-E supports 4 socket connections, Socket A, Socket B, socket C and socket D, which are independent with each other. Each socket supports TCP Client and UDP Client.

- Set parameters by the utility:



➤ Set by AT command:

	Command	Operation
1	+++a	Enter serial AT command mode
2	AT+WKMOD=NET	Set the work mode to Transparent mode
3	AT+SOCKAEN=ON	Enable Socket A
4	AT+SOCKASL=LONG	Set Socket A to persistent link
5	AT+SOCKA=TCP;test.usr.cn,2317	Set the remote IP and port of Socket A
6	AT+S	Save all parameters and restart

➤ Test

Connect the serial port of USR-G771-E to the computer via a RS232 serial to USB cable, send data from the utility, the test server will return the same data to serial port.

USR-CAT1 V1.0.6

File Language

[PC Serial Parameters] : Serial Port COM21 BaudRate 115200 Parity/Data/Stop NONE 8 1 Close

Choose Work Mode

☒ Transparent Mode
 ☐ HTTPD Client Mode
 ☐ SMS Mode



Transparent Mode Parameters

☒ Enable Socket A
 IP&Port: test.usr.cn 2317
 Link Type: TCP Persis
 Time of Transitory Link(s): 10

☐ Backup Socket A
☐ Enable Socket B
☐ Backup Socket B
☐ Enable Socket C

Modem Parameters

☒ Enable AT+IO
☒ Serial data cache ☐ Security
☒ Serial AT command ☒ Network AT ☐ NTP function

Command Prefix: usr.cn#
 Reboot Message: WH-GMS
 APN: CMNET,,,0
 auto automatic restart time(s): 1800

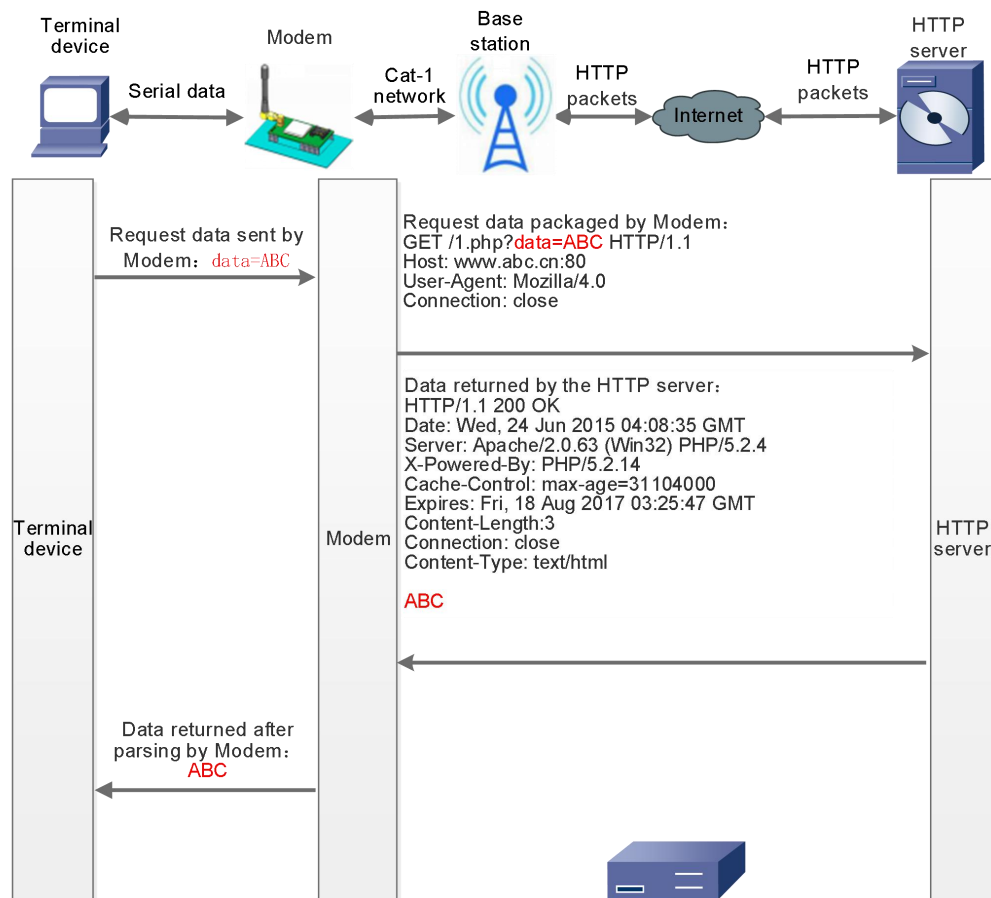
Operation and Hints

Query all parameters Set and save all parameters
 Enter Serial AT command mode Exit Serial AT command mode
 Building Time Query IMEI Query phone number Query version
 Query RSSI Save parameters Reset to factory setting Restart

☒ Timestamp RX:2562
 Reset Count
 [Tx->][18:28:40][asc]
 AT+ENTM
 >[Rx<-][18:28:48][asc]
 AT+ENTM
 OK
 Operation complete
 >[Tx->][18:28:52][asc] **Send**
 12345678
 >[Rx<-][18:28:53][asc] **Receive**
 12345678
 12345678

Send via Serial Port TX:8 Send

5.2. HTTPD Client Mode

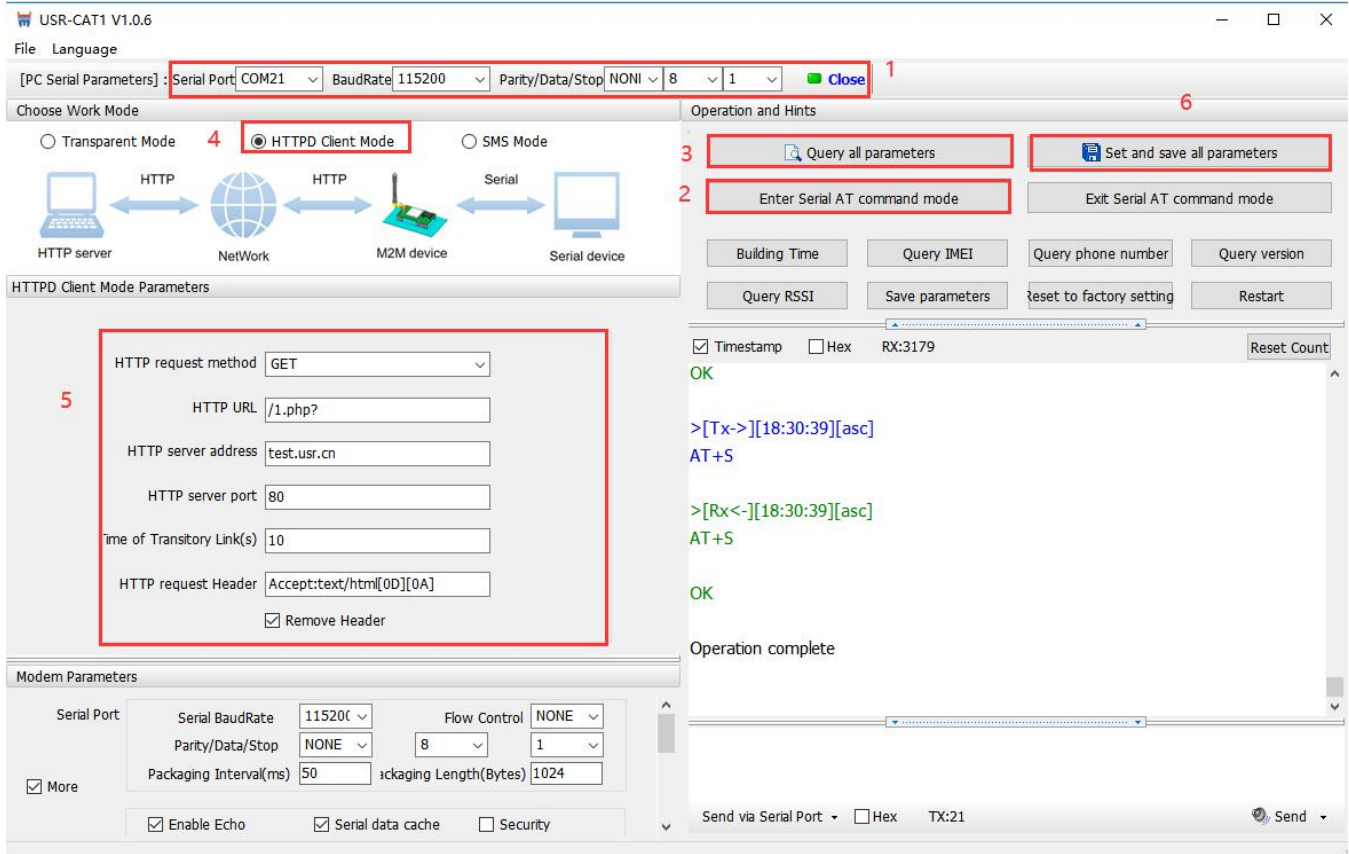


In this mode, user's terminal device can send request data to the specified HTTP server through this modem, then the modem receives data from HTTP server, parses and sends data to the serial device.

User does not need to pay attention to the data conversion process between the serial data and the network data packet, and can achieve the data request from the serial device to the HTTP server through simple parameter settings.

The modem will filter out the received HTTP protocol header data by default, only output user data to the serial port. Users can choose whether to filter by AT command.

- Set parameters by the utility:

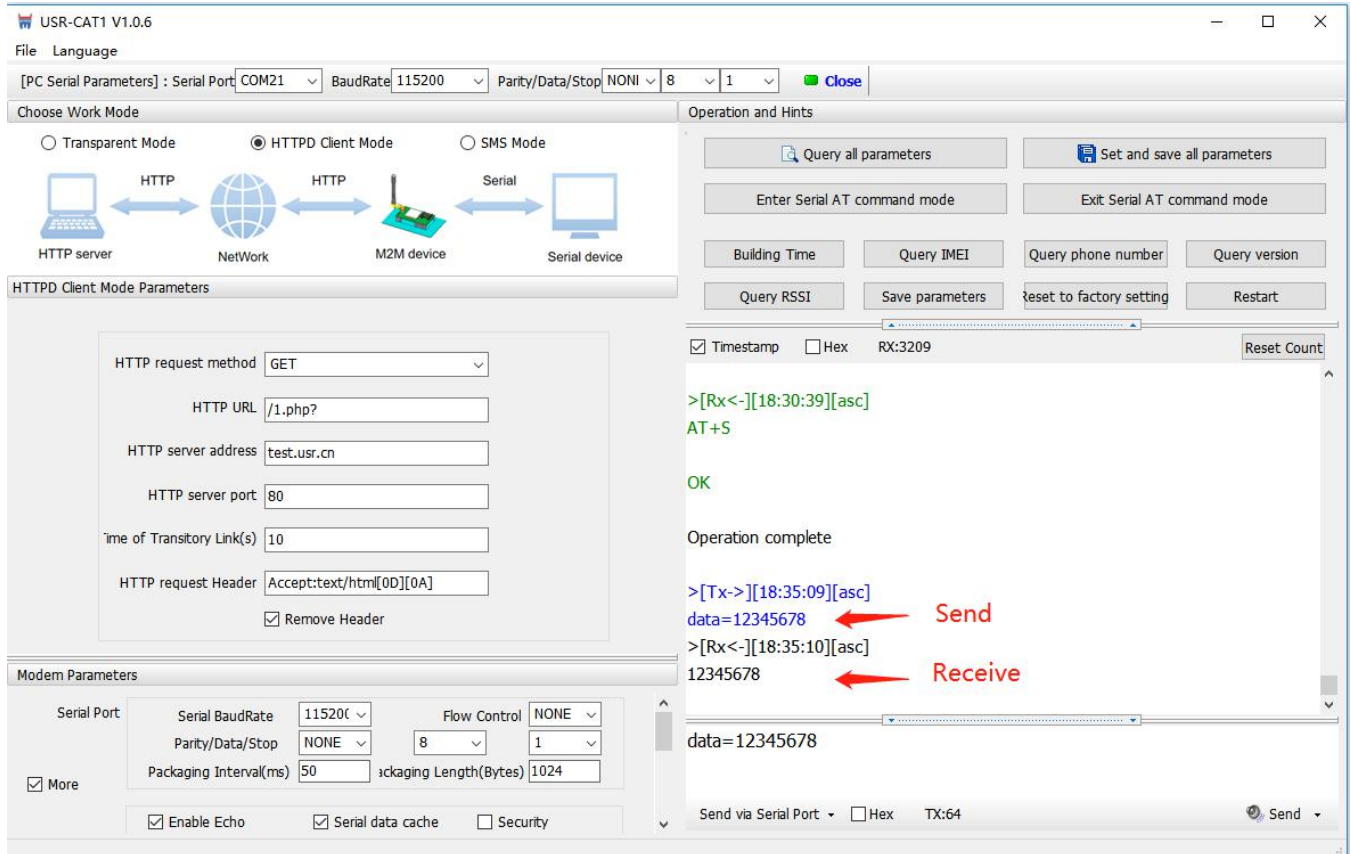


➤ Set by AT command:

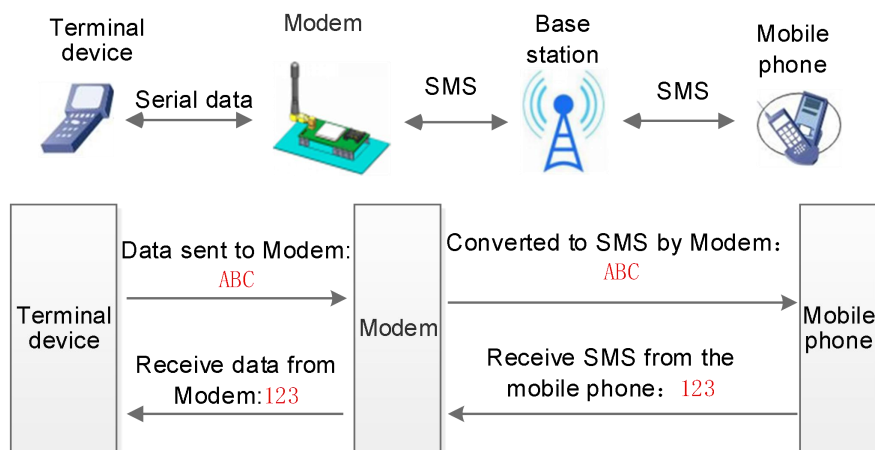
	Command	Operation
1	+++a	Enter serial AT command mode
2	AT+WKMOD=HTTPD	Set the work mode to HTTPD Client
3	AT+HTPTP=GET	Set the HTTP request type to GET
4	AT+HTPURL=/1.php?	Set the HTTP URL
5	AT+HTPSV=test.usr.cn,80	Set the HTTP server address and port
6	AT+HTPHD=Accept:text/html[0D][0A]	Set the HTTP request header
7	AT+HTPTO=10	Set the time of transitory link
8	AT+HTPPK=ON	Set whether to filter HTTP header
9	AT+S	Save parameters and restart the modem

➤ Test

After the NET light is on, send the data in the format of "data = ". After the data is sent successfully, server will return the data.



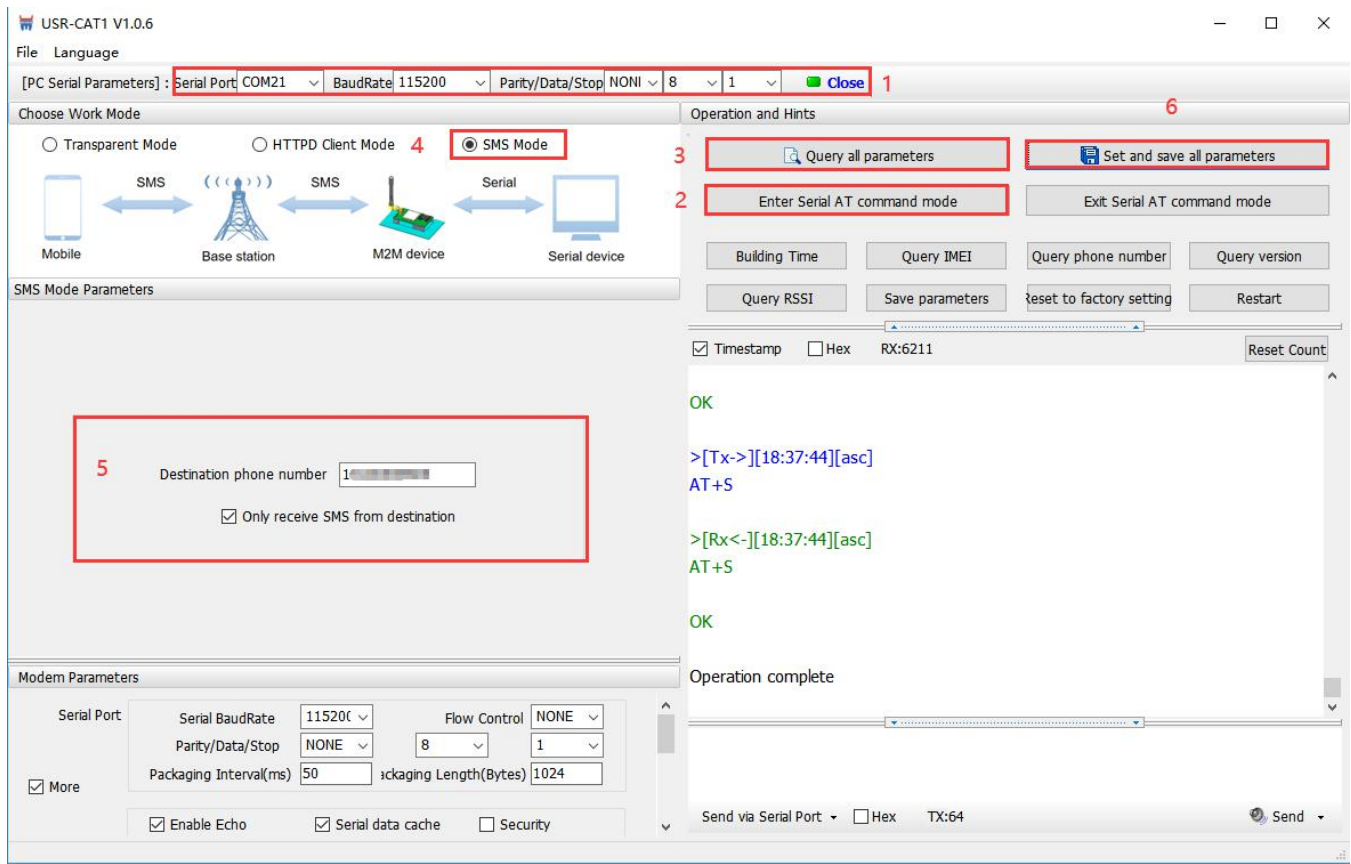
5.3. SMS Mode



In this mode, user's serial device can send SMS to the specified mobile phone and receive SMS from any mobile phone. User can decide whether to transmit the data of the specified mobile phone to the serial device through settings.

Users can send and receive SMS to check the serial device status remotely via G771-E.

➤ Set by the utility:



➤ Set by AT command:

	Command	Operation
1	+++a	Enter serial AT command mode
2	AT+WKMOD=SMS	Set the work mode to SMS
3	AT+DSTNUM=10086	Set the destination phone number
4	AT+SMSFLT=ON	Enable only receive SMS from source number
5	AT+VOLTEEN=ON	Enable VOLTE function
6	AT+S	Save the parameters and restart

Note:

1. You need to add the international number before the destination phone number.
2. When only receive SMS from source number is enabled, other phone numbers can still query or set parameters.

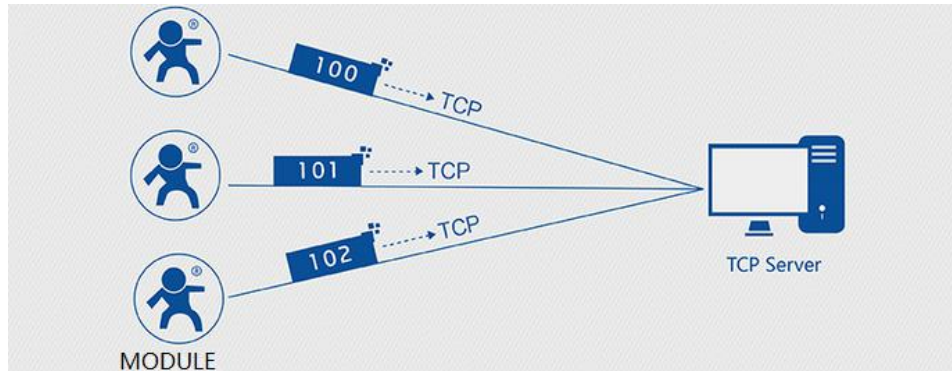
➤ Test

When the NET light is on, we can send and receive data in both directions via SMS with destination phone number.

The screenshot displays the USR-CAT1 V1.0.6 software interface. The top bar shows 'File' and 'Language' menus. Below, the 'PC Serial Parameters' section is configured with 'Serial Port: COM21', 'BaudRate: 115200', 'Parity/Data/Stop: NONE/8/1', and a 'Close' button. The 'Choose Work Mode' section has three options: 'Transparent Mode', 'HTTP Client Mode', and 'SMS Mode' (which is selected). A diagram illustrates the communication flow: Mobile ↔ Base station ↔ M2M device ↔ Serial device. The 'SMS Mode Parameters' section includes a 'Destination phone number' field and a checked option 'Only receive SMS from destination'. The 'Modem Parameters' section at the bottom shows fields for 'Command Prefix' (usr.cn#), 'Reboot Message' (VH-GM5), and 'APN' (CMNET,0). The 'Operation and Hints' panel on the right contains buttons for 'Query all parameters', 'Enter Serial AT command mode', 'Building Time', 'Query IMEI', 'Query RSSI', and 'Save parameters'. It also displays a log of AT commands and responses, including 'AT+S', '>[Rx->][09:35:39][asc]', 'AT+S', 'OK', 'Operation complete', '>[Tx->][09:46:29][asc]', '123456789', '>[Rx->][09:47:07][asc]', and 'www.usr.cn'. Two red arrows point from the '123456789' and 'www.usr.cn' lines in the log to a simulated text message conversation on the right. The conversation shows a message from '123456789' (received 'in ago') and a reply from 'www.usr.cn' (received 'Just now'). The bottom of the interface features a 'Send via Serial Port' section with 'Hex' and 'TX:21' options, and a text input field with a 'Text message' button and a send icon.

6. General Function

6.1. Identity Package



In **transparent mode**, user can set the device to send identity package to the server. Identity package is intended to allow the server to identify the data from which device or to use it as a password to obtain authorization for the server's functions.

Identity package can be sent when the modem establishes a connection with the server, or as the prefix of each data packet or both.

Identity package data can be ICCID code, IMEI code, SN, CLOUD or User-defined data.

ICCID: Unique SIM identification code, for applications based on SIM card identification.

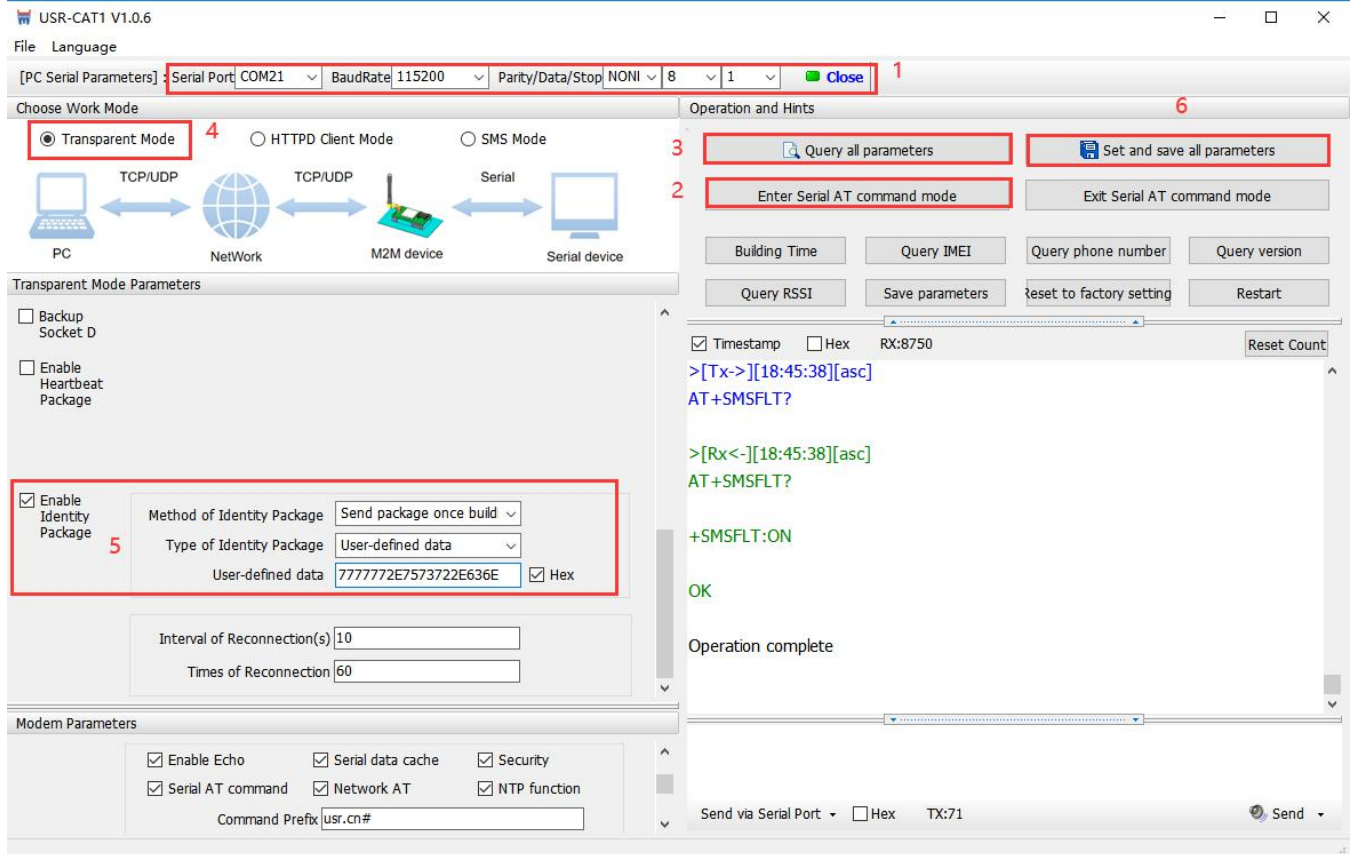
IMEI: Unique identification code of the Internet modem, which is mainly used in device identification, has nothing to do with SIM card.

SN: Serial number.

USER: User-defined data.

CLOUD: Set the device ID and password when connecting to USR Cloud, sent when building connection.

➤ Set by the utility:



➤ Set by AT command:

	Command	Operation
1	+++a	Enter AT command mode
2	AT+WKMOD=NET	Set the work mode to NET
3	AT+REGEN=ON	Enable identity package function
4	AT+REGTP=USER	Set the type to User-defined
5	AT+REGDT=7777772E7573722E636E	Set the User-defined data in HEX.
6	AT+REGSND=LINK	Send the package as the prefix of the data
7	AT+S	Save parameters and restart

6.2. Heartbeat Package

In **transparent mode**, user can send the heartbeat package from the module to the network side or serial port device .

Sending to the network is to ensure the normal connection of the module and let the server know the online status of the module. User can also set the serial heartbeat to a fixed query command instead of sending from server to save the traffic.

Heartbeat package can be ICCID code, IMEI code, SN, LBS or user-defined data.

ICCID: Unique SIM identification code, for applications based on SIM card identification.

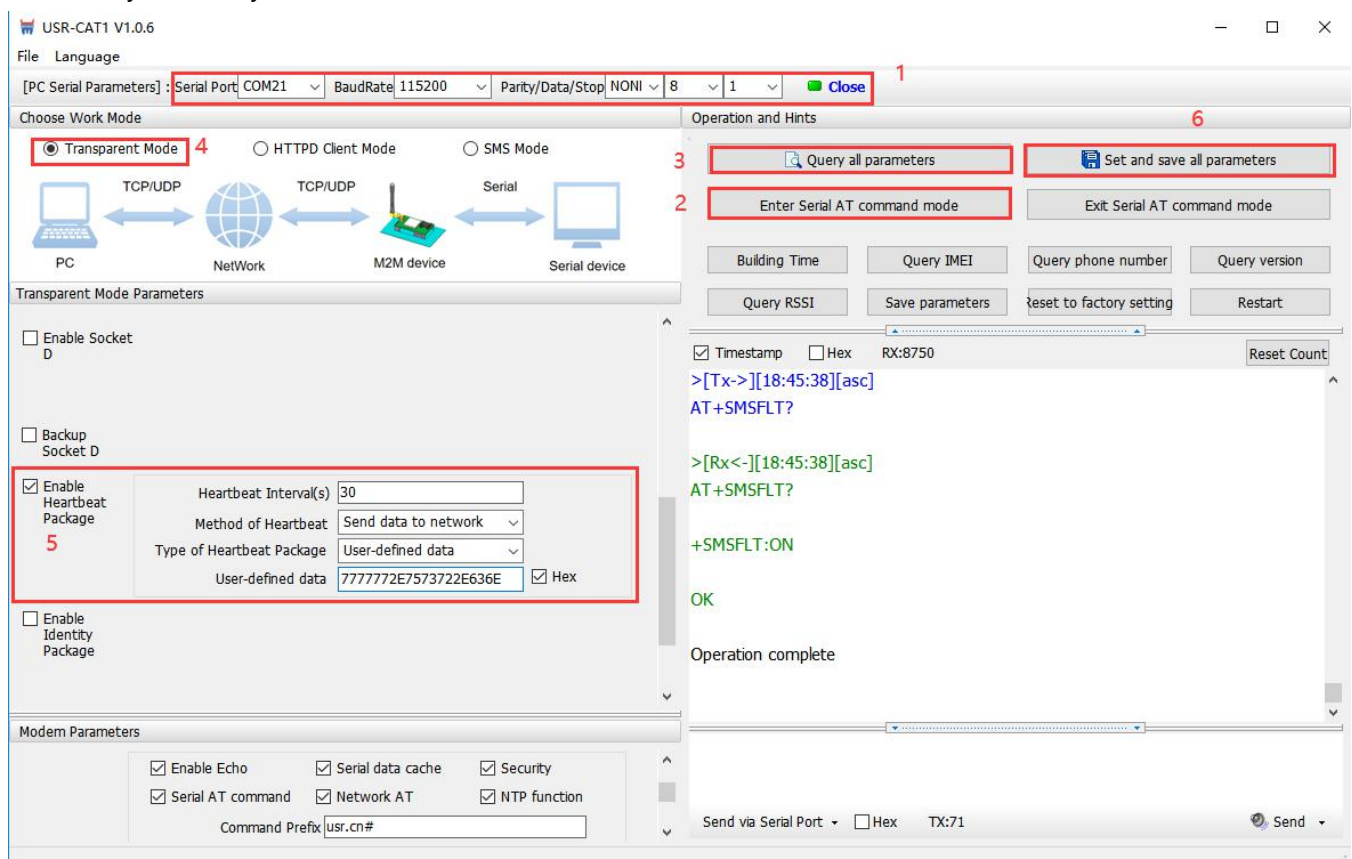
IMEI: Unique identification code of the Internet modem, which is mainly used in device identification, has nothing to do with SIM card.

SN: Serial number.

USER: User-defined data.

LBS: Current latitude, longitude of the device and time.

➤ Set by the utility:



➤ Set by AT command:

	Command	Operation
1	+++a	Enter AT command mode
2	AT+HEARTEN=ON	Enable heartbeat package function
3	AT+HEARTTP=NET	Send the heartbeat package to network side
4	AT+HEARTSORT=USER	Set the type to User-defined
5	AT+HEARTDT=777772E7573722E636E	Set the User-defined data in HEX.
6	AT+HEARTTM=30	Set the heartbeat interval

You also need to set the socket parameters. After setting all parameters, save and restart the modem.

Note:

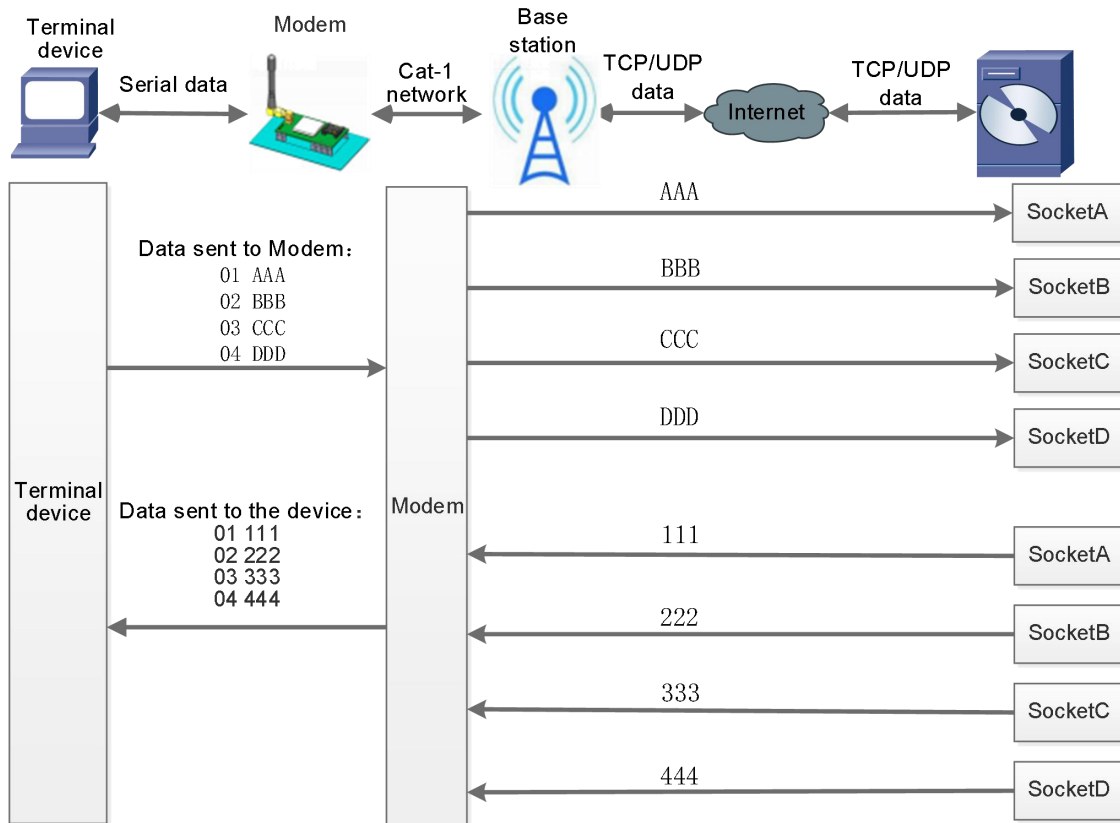
1, Network heartbeat package: In transparent mode, it will only be sent when there is no data sent to network within one heartbeat interval.

2, Serial heartbeat package: In transparent mode, it will always be sent to serial port according to the set interval.

6.3. Socket Distribution Protocol

USR-G771-E supports socket distribution protocol. When a device is connected to multiple sockets, can send different serial data to different servers via this protocol. Data returned from different server will also be sent to the serial port with the socket distribution protocol.

For detailed protocol, please refer to another document [Socket distribution protocol](#).



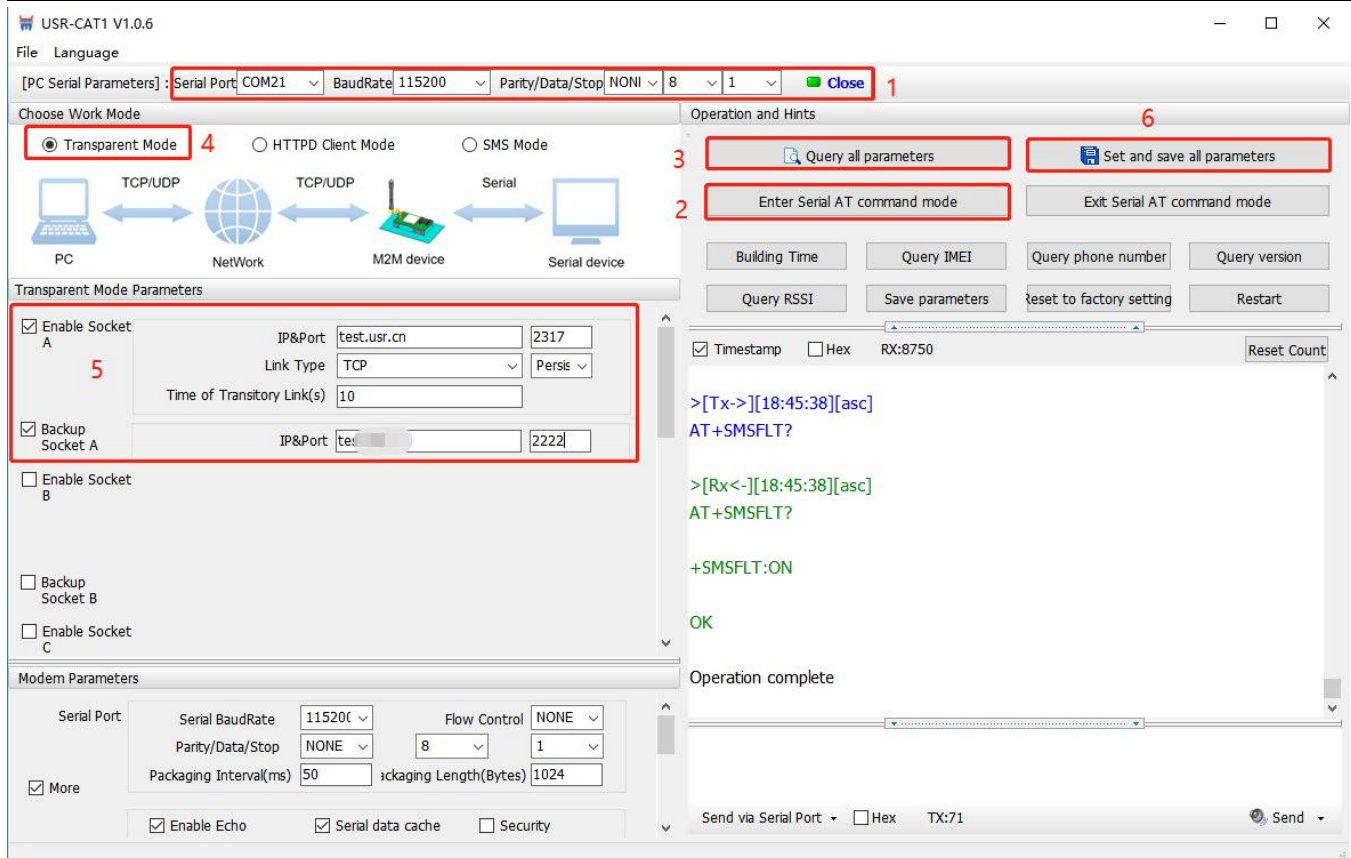
Socket distribution protocol data follows the packaging mechanism, the total length of the real data and socket distribution protocol must be less than the packaging length.

This function is valid in transparent mode, disabled by default, can be set via AT command: **AT+SDPEN**.

6.4. Backup Socket

In transparent mode, you can set one backup socket for each socket, the modem will try to connect to backup server when cannot connect to the main server. This function defaults to be unchecked.

- Set by the utility:



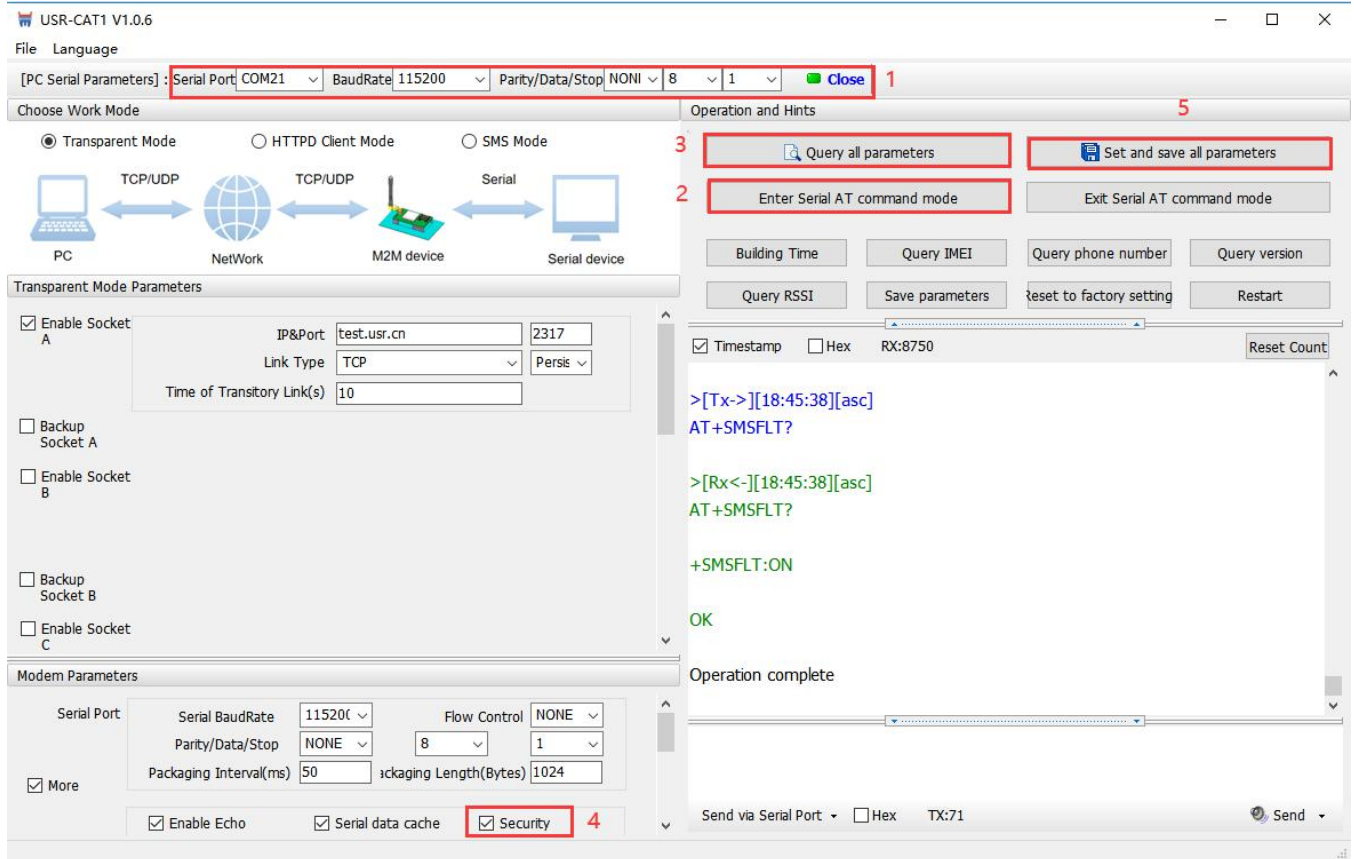
➤ Set by AT commands:

	Command	Operation
1	+++a	Enter serial AT command mode
2	AT+WKMOD=NET	Set the work mode to Transparent mode
3	AT+SOCKAEN=ON	Enable Socket A
5	AT+SOCKA=TCP,test.usr.cn,2317	Set the remote IP and port of Socket A
6	AT+SOCKABKEN=ON	Enable Socket backup function
7	AT+SOCKABK=TCP,test.usr.cn,2317	Set the backup server address and port
8	AT+S	Save all parameters and restart

6.5. Security

When enable Security function, after enter AT command mode, you need to input the correct password to login. After logging, you can also change the password by sending the login command again. The modem will automatically exit AT command mode if there is no login command within 30s.

➤ Set by the utility:



➤ Set by AT commands:

Enable:

	Command	Operation
1	+++a	Enter serial AT command mode
2	AT+SAFEATEN=ON	Enable security function
3	AT+S	Save all parameters and restart

Change the password:

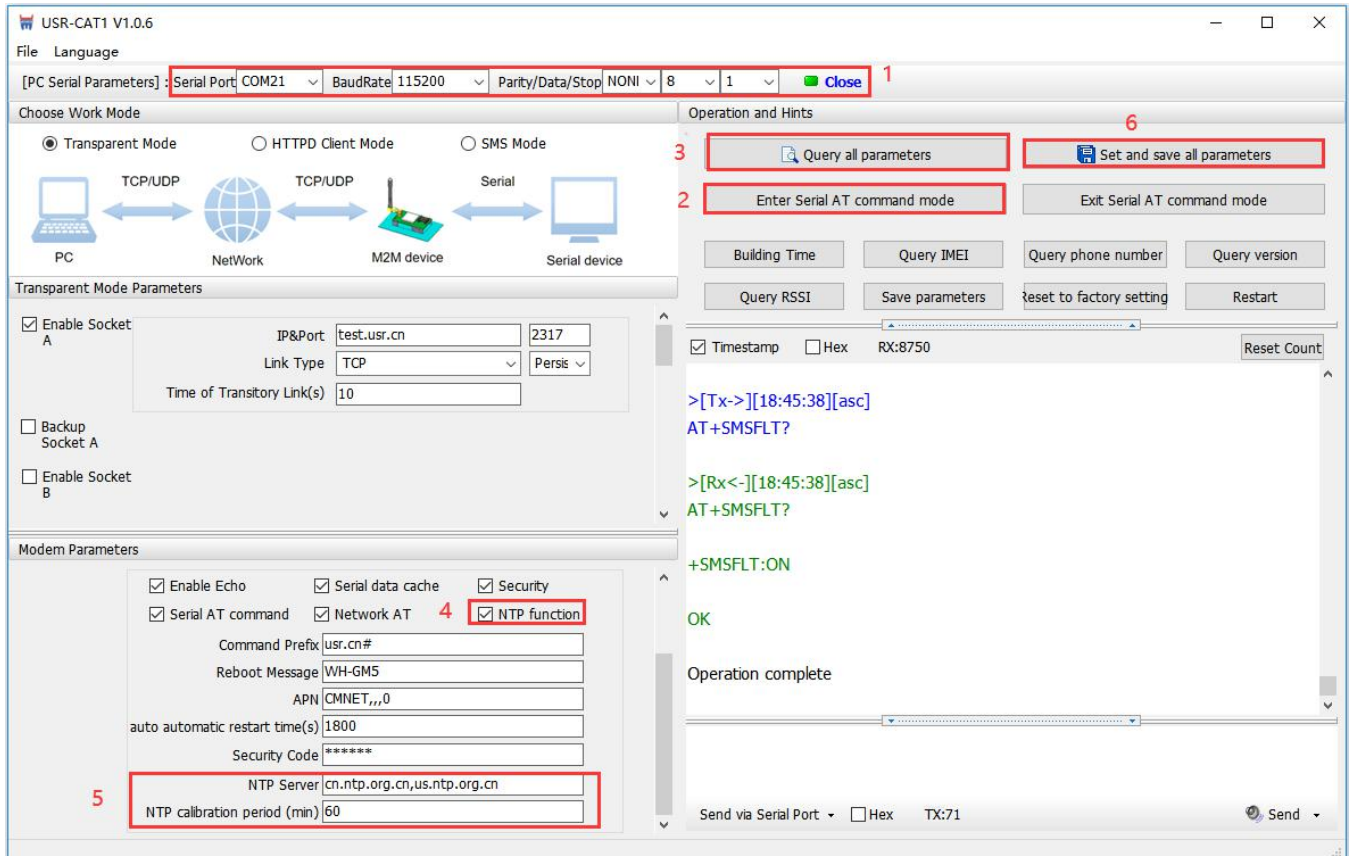
	Command	Operation
1	+++a	Enter serial AT command mode
2	AT+SIGNINAT=usr_cn	Login command
3	AT+VER	Query the firmware version
4	AT+SIGNINAT=usr_cn#	Change the password
5	AT+S	Save all parameters and restart

6.6. NTP

USR-G771-E supports connecting to the NTP server for time synchronization.

This function defaults to be disabled, support connecting to up to 4 NTP servers. User can send "AT+CCLK" or "AT+CCLK?" to query the current time.

➤ Set by the utility:



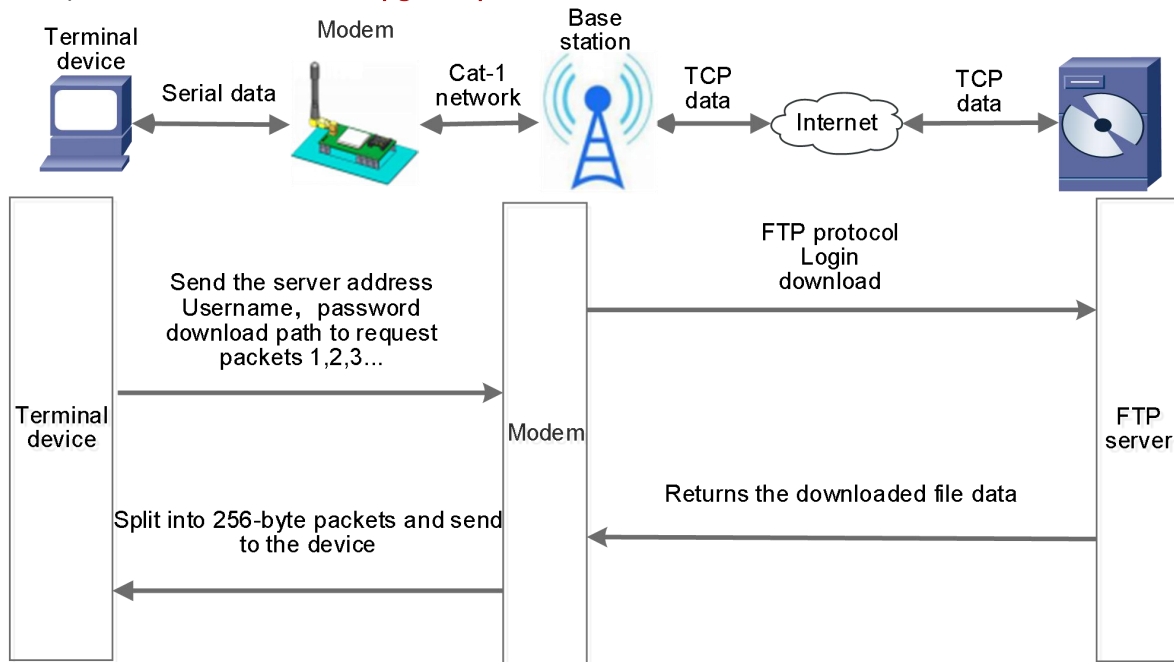
➤ Set by AT commands:

	Command	Operation
1	+++a	Enter serial AT command mode
2	AT+NTPEN=ON	Enable NET function
3	AT+NTPSVR=cn.ntp.org.cn,us.ntp.org.cn	Set the NTP server address
4	AT+NTPTM=60	Set the NTP calibration interval
5	AT+S	Save all parameters and restart

6.7. FTP Upgrade

G771-E supports FTP upgrade protocol, user's device can request files on FTP server by special protocol through serial port. The file of the server can be split into small packets with a maximum size of 256 bytes for transmission, which is convenient for customer device to upgrade or download large files remotely.

For details, please refer to **USR FTP Upgrade protocol**.



6.8. Base Station Geolocation

USR-G771-E supports base station geolocation function, and can obtain general location of the device through the operator's network. Base station positioning information can be obtained through serial AT command or SMS AT command.

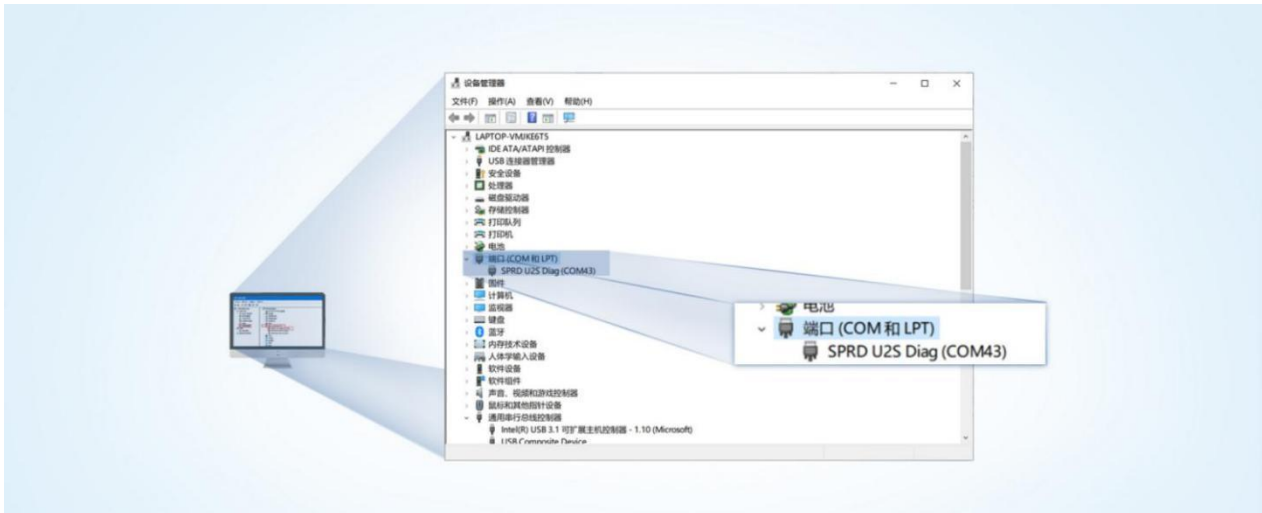
Command	Function	Default parameter
AT+LBS	Query station geolocation information	Empty

6.9. Firmware Upgrade

G771-E supports upgrading via FOTA or USB. For FOTA upgrading, please contact us for technical support. Please also provide the IMEI and the firmware version of the device after connecting the device to the network.

Here we introduce how to upgrade via USB port:

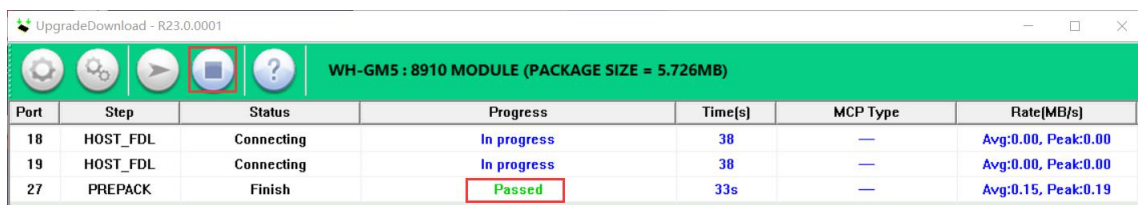
1. Hardware connection: Connect the USB port (only for upgrading) of G771-E to the computer.
2. Install the driver.
3. Press the "Reload" button and power on the device at the same time, release it and the device will be in downloading mode. Download port is showing like below:



4. Please contact the sales for upgrading tool. Find "UpgradeDownload.exe" under UPGRADEDOWNLOAD\Bin.
5. Download the firmware.



6. Upgrade successfully. You can directly change to another device to upgrade. After all the devices are upgraded, click "Stop", then close the tool.



Port	Step	Status	Progress	Time[s]	MCP Type	Rate[MB/s]
18	HOST_FDL	Connecting	In progress	38	—	Avg:0.00, Peak:0.00
19	HOST_FDL	Connecting	In progress	38	—	Avg:0.00, Peak:0.00
27	PREPACK	Finish	Passed	33s	—	Avg:0.15, Peak:0.19

6.10. Restore to Factory Default Settings

1. Hardware reset: After power on, press the "Reload" button in the device for 3~15S to restore the device to factory parameters.
2. Software reset: After enter AT command mode, send "AT+CLEAR" from the serial port to restore the device.

6.11. Timeout Restart

USR-G771-E supports timeout restart function, defaults to be enabled, 1800s. When there is no data in 30min, the device will restart automatically. You can change it via AT command: **AT+RSTIM**.

7. AT Commands

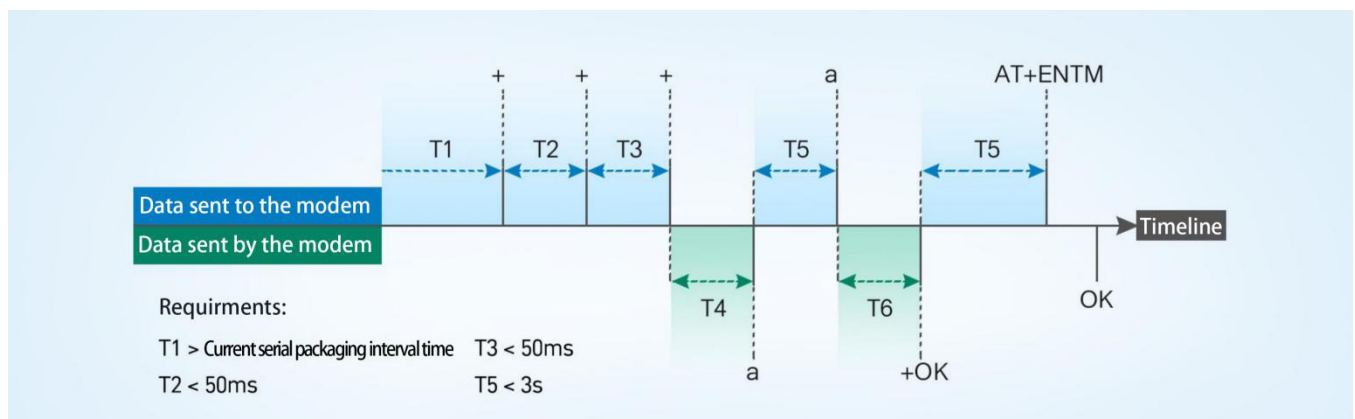
AT command is used for controlling modem, for USR devices in transparent mode normally, you must enter AT command mode at first, then you can send AT commands to configure or query the parameter settings. After setting all parameters, restart the modem to make the settings take effect. Every time the modem restart will work in work mode rather AT command mode.

Every AT command must add character carriage return <CR> and line feed <LF>. In Hex, <CR> is 0x0D <LF> is 0x0A.

For detailed AT command set, please check in this link:

<https://www.pusr.com/products/RS232/RS485-serial-to-Cat-1-771.html>

7.1. AT Command Settings



- Enter AT command mode:
 1. Send "+++" from the serial port, it will be a "a" returned.
 2. Do not send any data within a serial port packaging interval before sending "+++".
 3. After receiving "a", send another "a" within 3s.
 4. Receiving "+ok" means the device has changed to AT command mode.
 5. Then can send AT commands to the device.
- Exit AT command mode:
 1. Send "AT+ENTM" from the serial port.
 2. Receiving "+ok" means the device has exited AT command mode.

7.2. Serial AT Commands

When enable "Serial AT command" function, you can directly send "Command prefix+AT command" in transparent mode without changing to AT command mode. Command prefix defaults to "usr.cn#".

Example: query socket A status, there is a carriage return and line feed after the AT command.

```

>[Tx->][10:18:49][asc]
usr.cn#AT+SOCKA

>[Rx<-][10:18:49][asc]
usr.cn#
+SOCKA:TCP,test.usr.cn,2317

OK

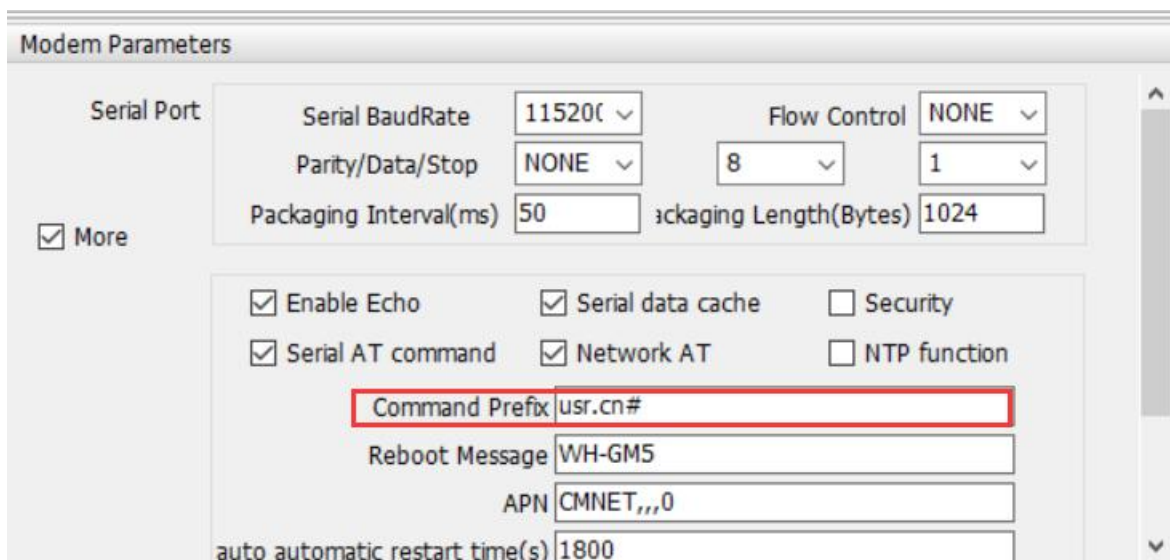
Operation complete

usr.cn#AT+SOCKA

Send via Serial Port TX:17 Send
  
```

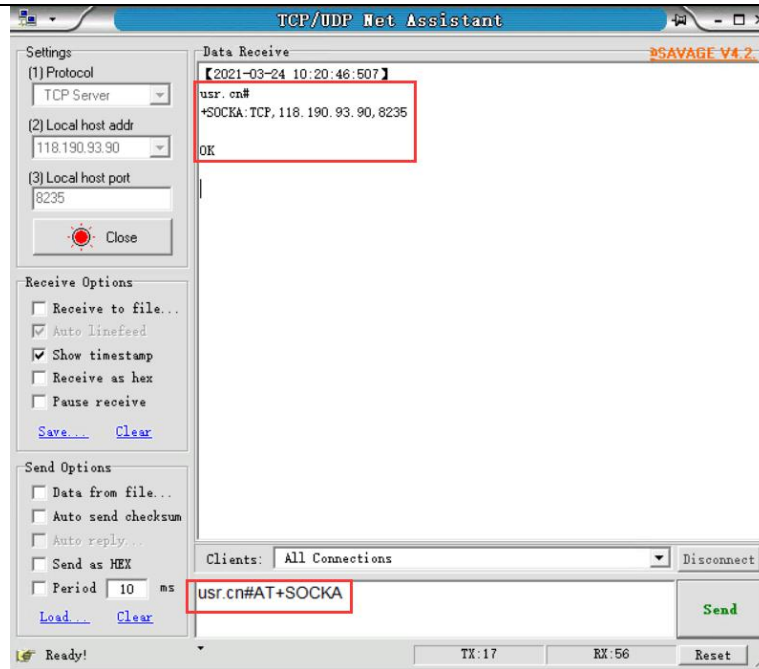
7.3. Network AT Commands

In transparent mode, you can also send "Command Prefix+AT command" from the network side to query or change the modem's parameter settings.



The image shows a "Modem Parameters" configuration window. It includes fields for Serial Port, Serial BaudRate (115200), Flow Control (NONE), Parity/Data/Stop (NONE, 8, 1), Packaging Interval (50), and Packaging Length (1024). There are checkboxes for "More", "Enable Echo", "Serial data cache", "Security", "Serial AT command", "Network AT", and "NTP function". The "Command Prefix" field is highlighted with a red box and contains the text "usr.cn#". Other fields include "Reboot Message" (WH-GM5), "APN" (CMNET,,,0), and "auto automatic restart time(s)" (1800).

Example: query socket A status, there is a carriage return and line feed after the AT command.



7.4. SMS AT Commands

If we know the phone number of the SIM card in G771-E, we can also query or modify the parameters of it by sending SMS AT command.

For example: query firmware version, there is a carriage return and line feed after the AT command.

