RD06/LORA Gateway 2G/4G/WIFI
Configuration Manual V2.4

1. USB RS232 Cable

please connect our LoRa Gateway to computer via our RS232 cable. The smaller USB port connects with the LoRa Gateway USB port , the bigger USB   port connects with the computer.

2. Driver Installation Step

1) PL-2303 driver is for RS232 configuration cable,

Please install   under windows10 or newer.
2) Connect the configuration cable to the computer.
3) Go to desktop, choose My Computer-> click right button -> choose Manager->

System Tools -> Device Manager -> Ports, you will find the port which configuration cable is using Prolific USB-to-Serial Comm Port (COM4)
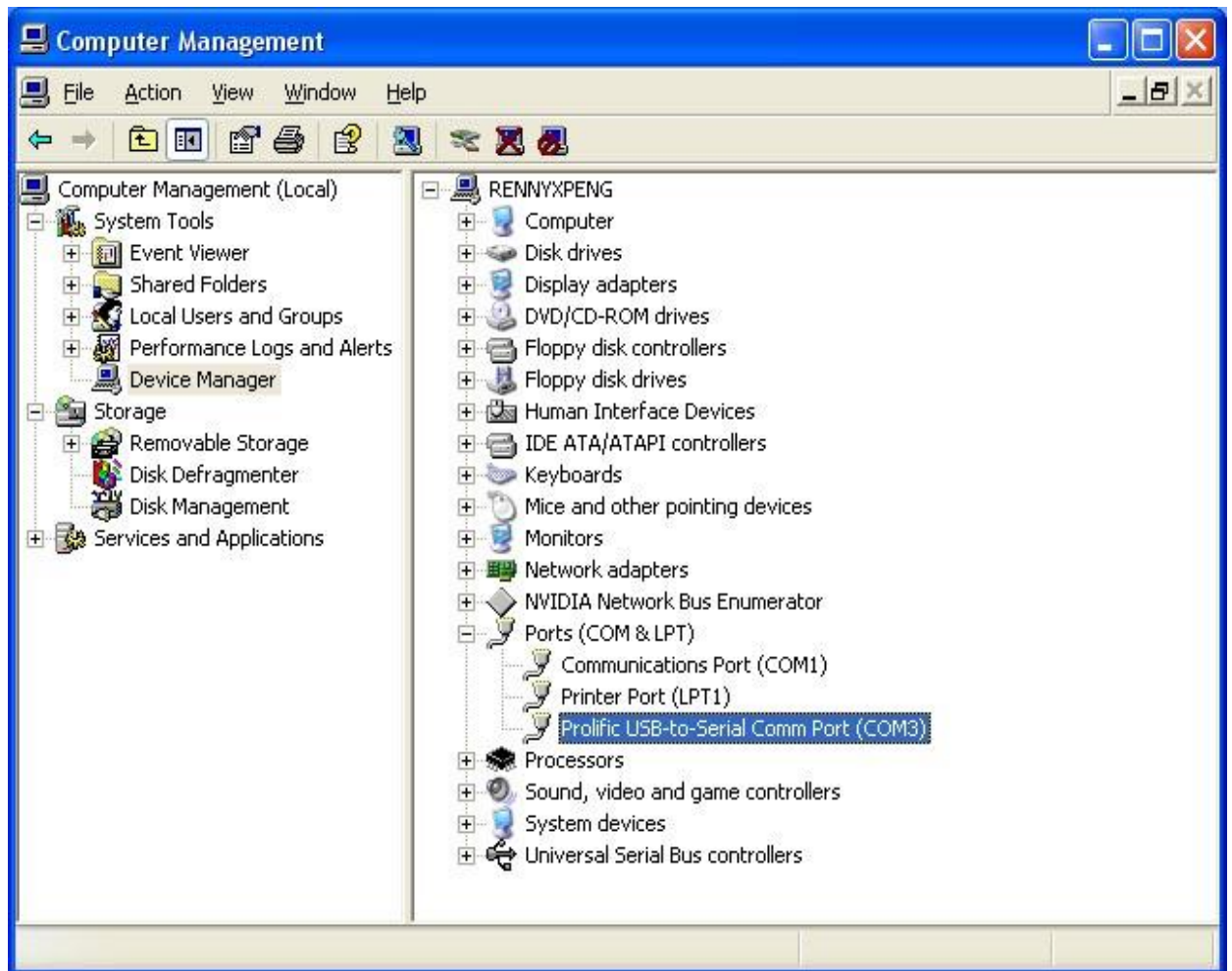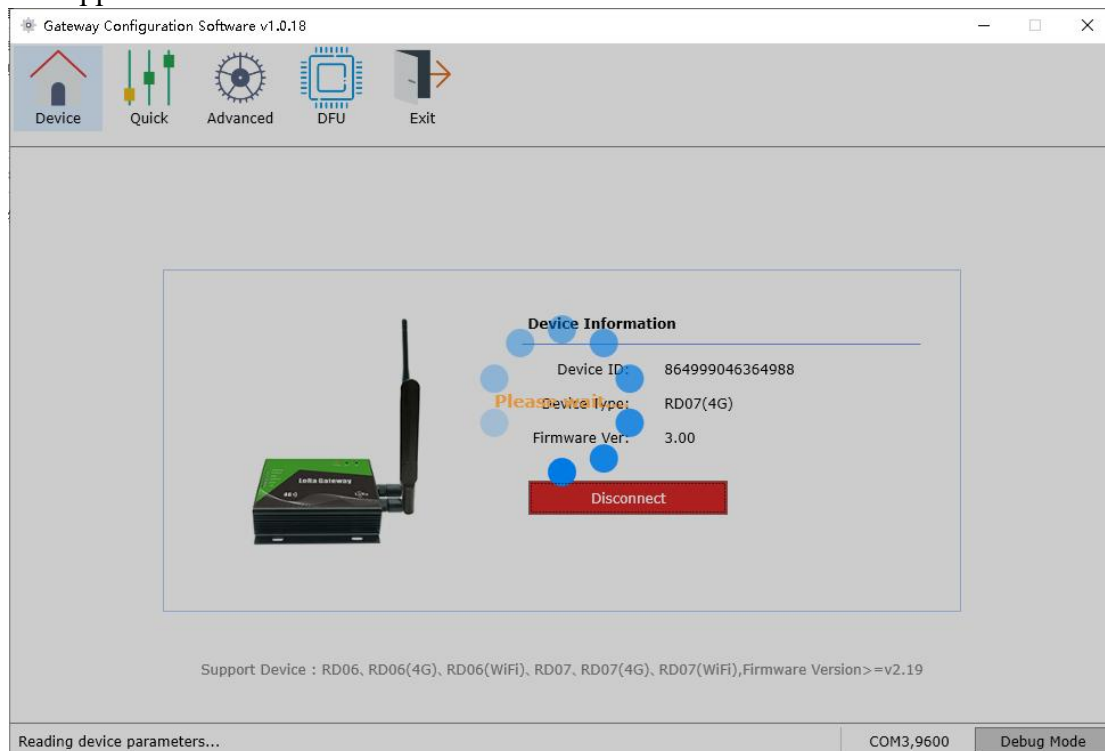

3. Configure Software

4) Connect LoRa Gateway with computer via the configuration cable.
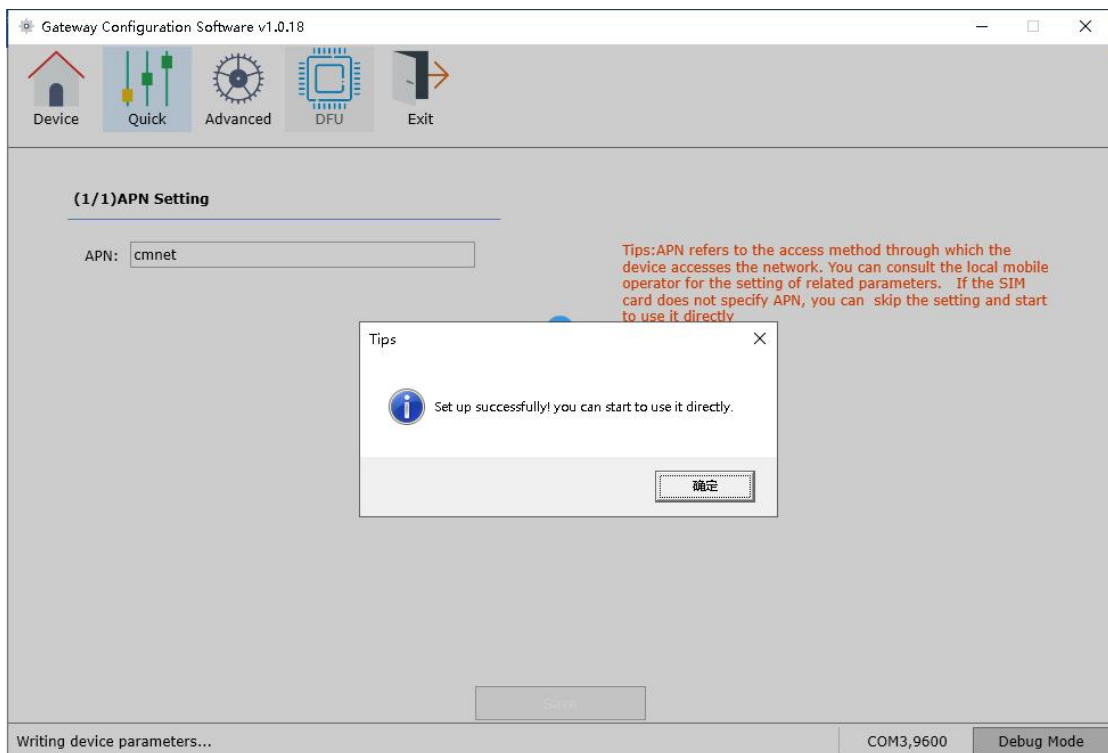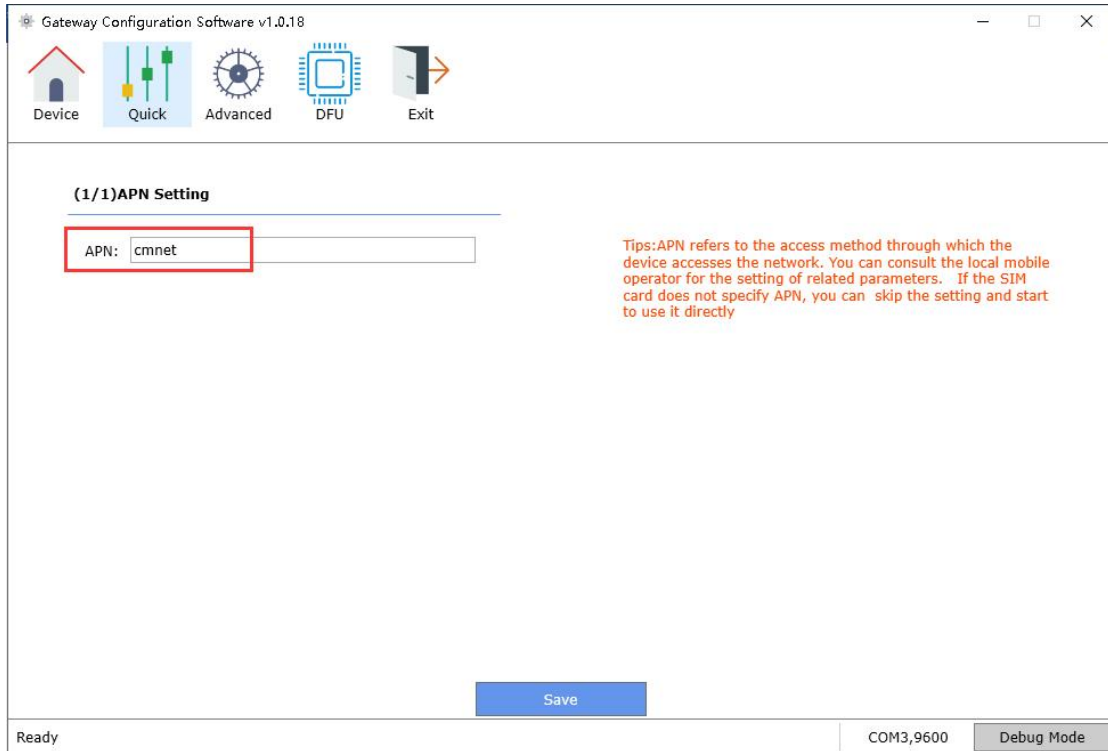
5) Run the configuration software TZConfig.exe
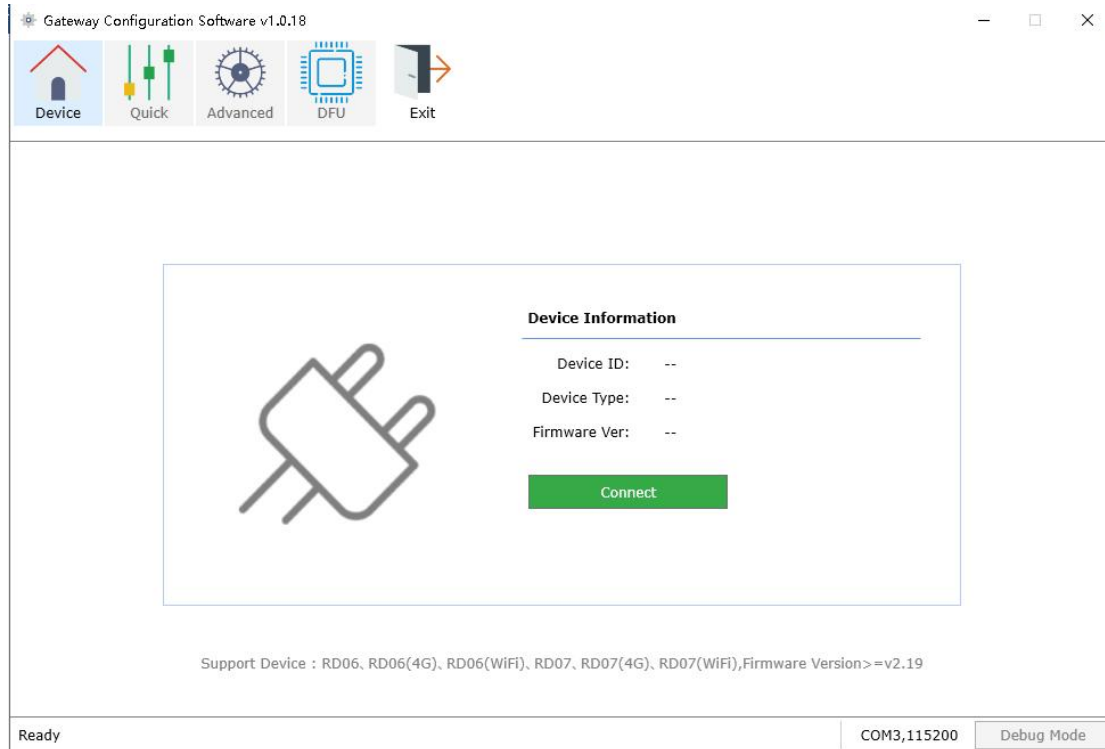
（3）connect

After the Gateway is powered on, click Connect, and the following picture interface will appear after the connection is successful.
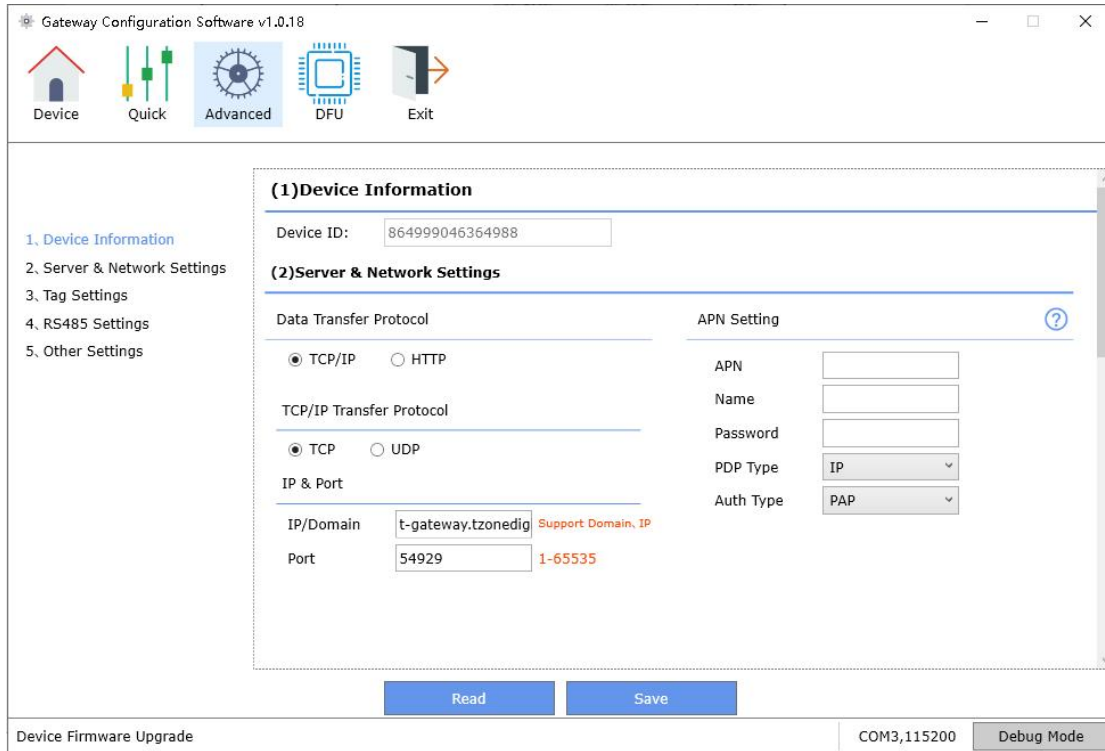

（4）Set Gateway **(For the 2G/4G Gateway version）：**

After the connection is successful, the configuration software will automatically jump to the shortcut setting interface, where you can set the APN of the SIM card. After setting the APN, click "Save", and it will prompt normal use.
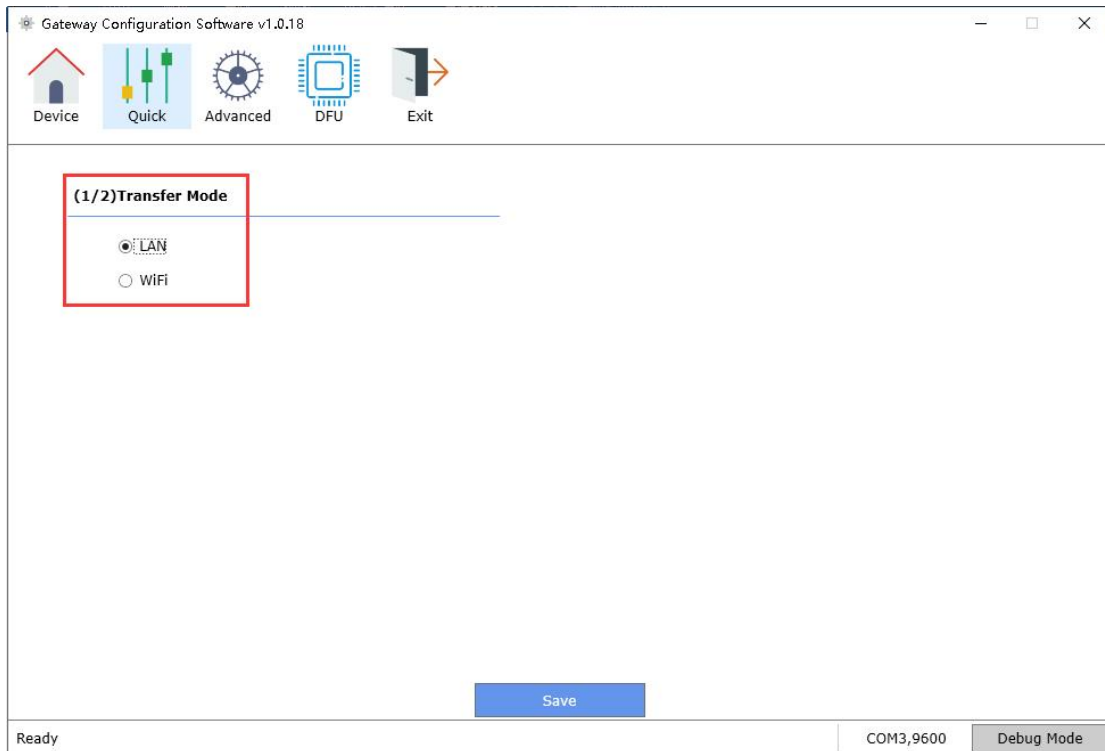
If To modify more parameters, please click Advanced Settings.

（5）Set Gateway **(For the WIFI version）**：

After the connection is successful, the configuration software will automatically jump to the shortcut setting interface, the default is Ethernet, if Ethernet transmission is required, you do not need to set, if WIFI transmission is required, please select WIFI and set the WIFI name and password, click Save after setting, it will prompt normal use.
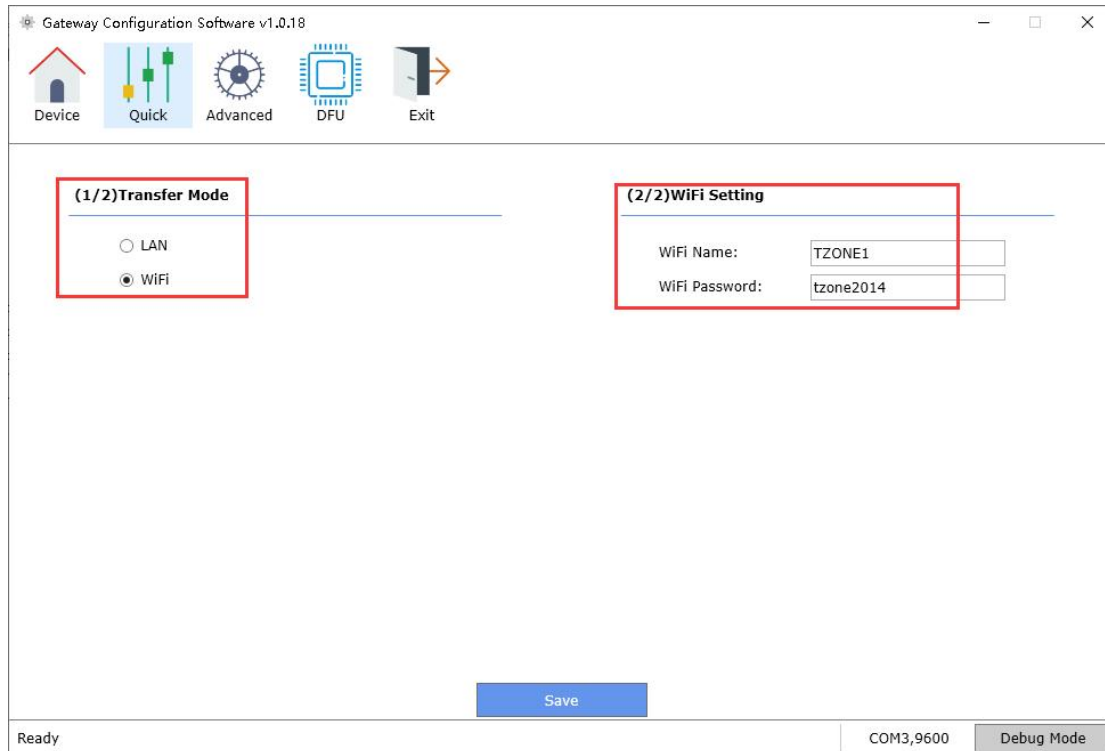
If To modify more parameters, please click Advanced Settings.
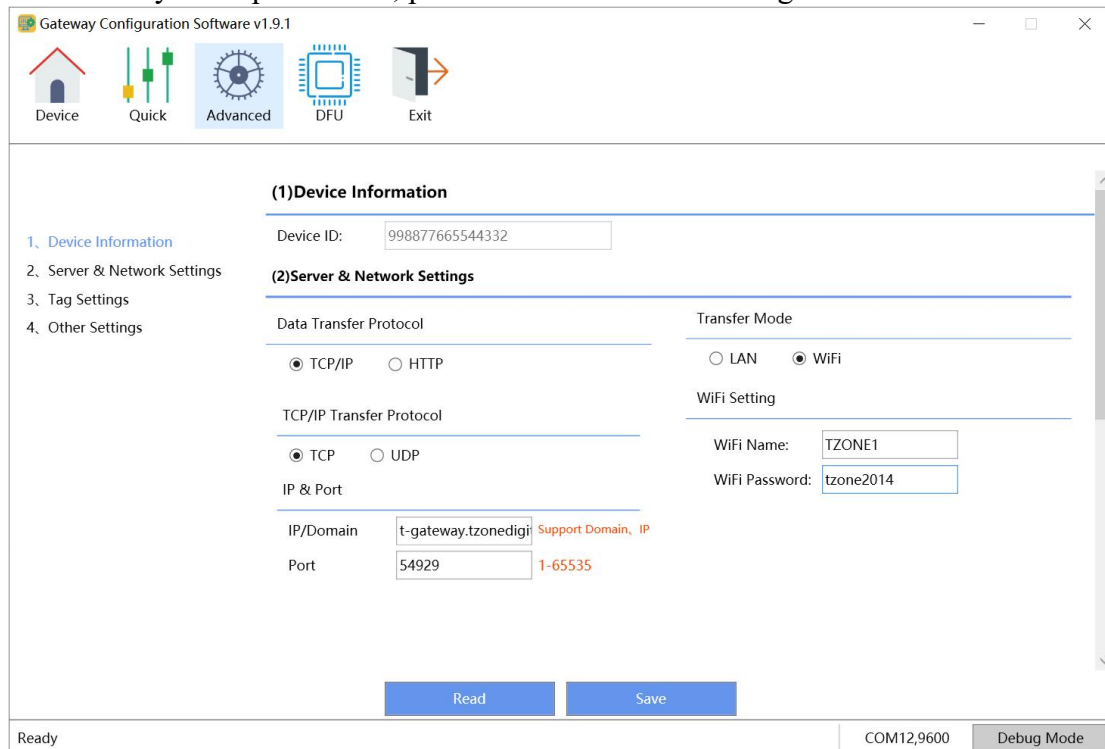
1. Configure the server and network

2G/4G Gateway version

（1）**Device Information**

Device ID：transmission is TCP/IP

（2）**Data Transfer protocol**

TCP/IP: Set data transmission is TCP/IP

HTTP: Set data transmission is HTTP

（3）**TCP/IP Transfer protocol**

TCP: TCP model
UDP: UDP model

（4）**Set server IP and port**

IP/domain: IP:xxx.xxx.xxx.xxx,(domain)www.xxx.com
Port: server port

（5）**Set APN**

APN:APN for GPRS function of GSM provider (max 27 characters)
User Name: Some GSM providers require GPRS/4G login with user name. If no name in need, please keep in blank (max 27 characters)
Password: Some GSM providers require GPRS/4G login with password. If no password in need, please keep in blank (max 27 characters).

（6）**Data interval**

Sending data interval: The GPRS data time interval[10,999]/s

WIFI Gateway version
（7）**Data Transfer protocol**

TCP/IP: Set GPRS transmission is TCP/IP

HTTP: Set GPRS transmission is HTTP

（8）**TCP/IP Transfer protocol**

TCP: TCP model
UDP: UDP model

（9）**Set server IP and port**

IP/domain: IP:xxx.xxx.xxx.xxx,(domain)www.xxx.com
Port: server port

（10）**Transfer mode**

LAN: Transmit data through the network port line
WIFI: Transmit data over WIFI

（11）**Set WIFI**

WIFI Name: Name of the WIFI to be connected (max 27 characters)

WIFI password : password of the WIFI to be connected (max 27 characters))

2.TAG Settings

Add: Add a Gateway
Type: TAG07/TAG07B/TAG08/TAG08B；
Channel: Select channel [1,100]
TAG ID:Gateway ID,8 characters
Delete: delete a/all Gateway
Note：
If a gateway adds a channel to a tag, the gateway will only receive the tag with the ad ded channel. Multiple channels can be added.

3.RS485 Setting（The WIFI Gateway version has no Settings）

Serial port setting
Baud rate[1200,9600,19200,38400,57600,115200]
  9600 （default）
Data bits 0-8bit（default）
  1-9bit；
Stop bit 0-0.5bit,
  1-1bit（default）
  2-1.5bit,
  3-2bit
Parity digit 0-null（default）
  1-Even parity,
  2-Odd parity

A. Work mode
Active transport: RS485 initiative to send data
Modbus: When the RS485 receives the request, and then send data

B. Address
Address: Set RS485 address of the LoRa Gateway

C. Other
Reader time:RS485 send once sensor data within this time period, no matter LoRa Gateway receive this sensor many times[0-3600]/s,only use in RS485 Report automatically mode
Tag offline time: LoRa sensor will think Gateway is offline if it do not receive this Sensor within this time period [0-86400]/s,only use in RS485 modbus mode
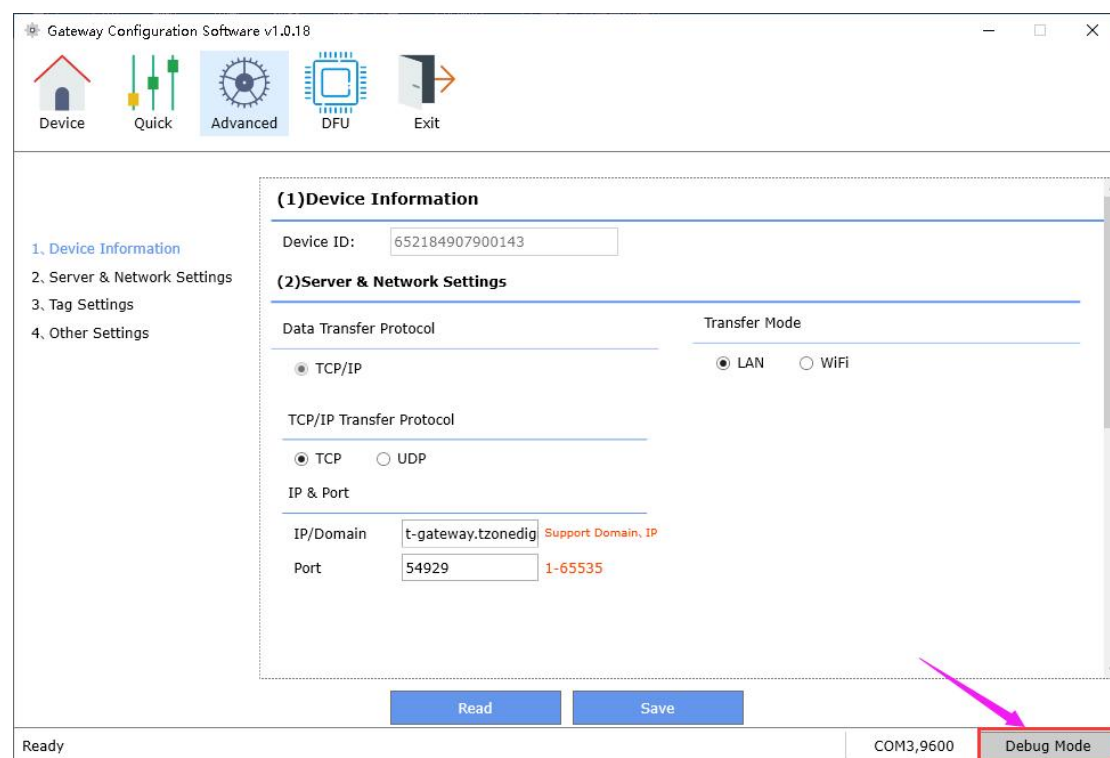
4. Other setting

Clear Flash：Clear history in the flash memory.

Factory Reset：It will set all parameters to factory default value.

Debug mode

In debugging mode, Gateway parameters can be configured and Gateway logs can be viewed by commands.

1) Click to enter debug mode:

2) In debug mode , the Gateway parameters are configured directly by commands.
Note: After writing the commands, please click "send". After sending (Please refer to the command list for more detailed).
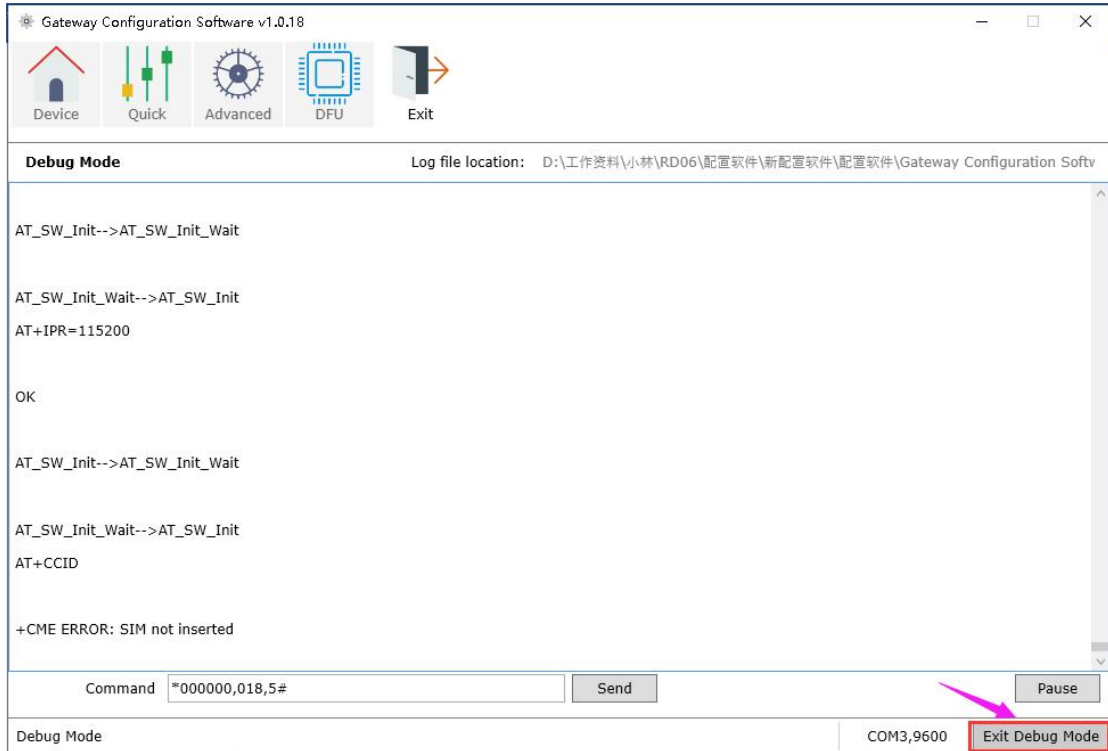
3) View the Gateway log in debug mode

After 1 minute, the Gateway will exit the configuration mode and enter the Gateway log mode. Machine data can be viewed, and log reports are stored in the log file.
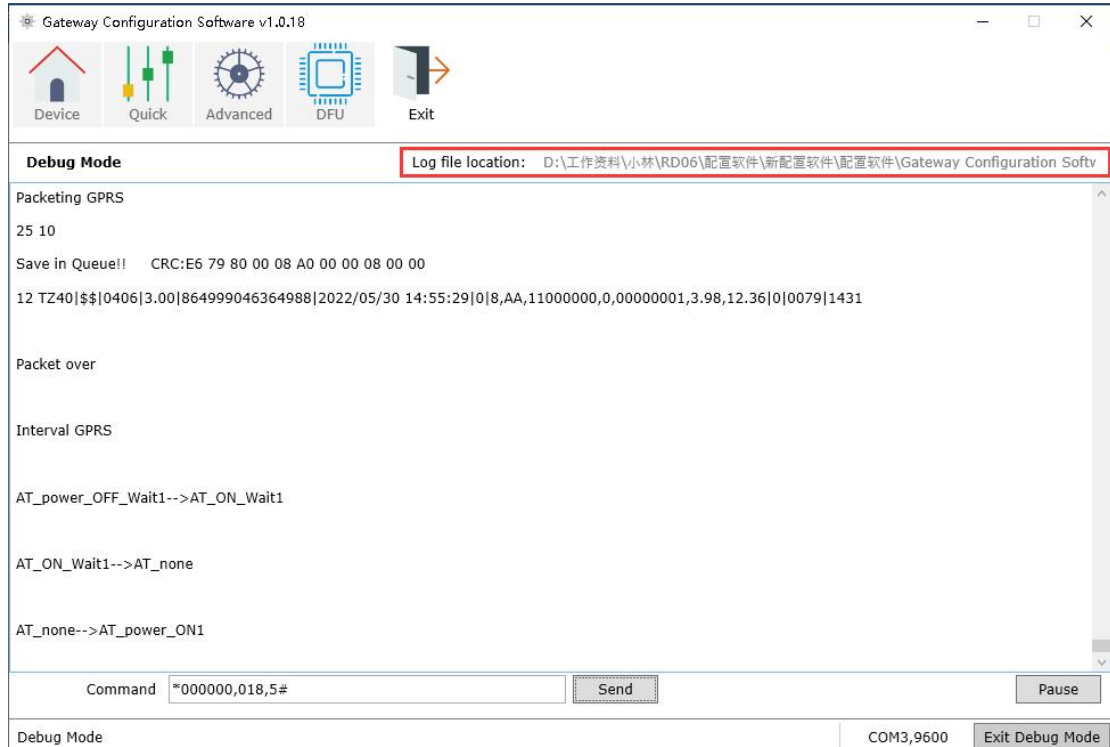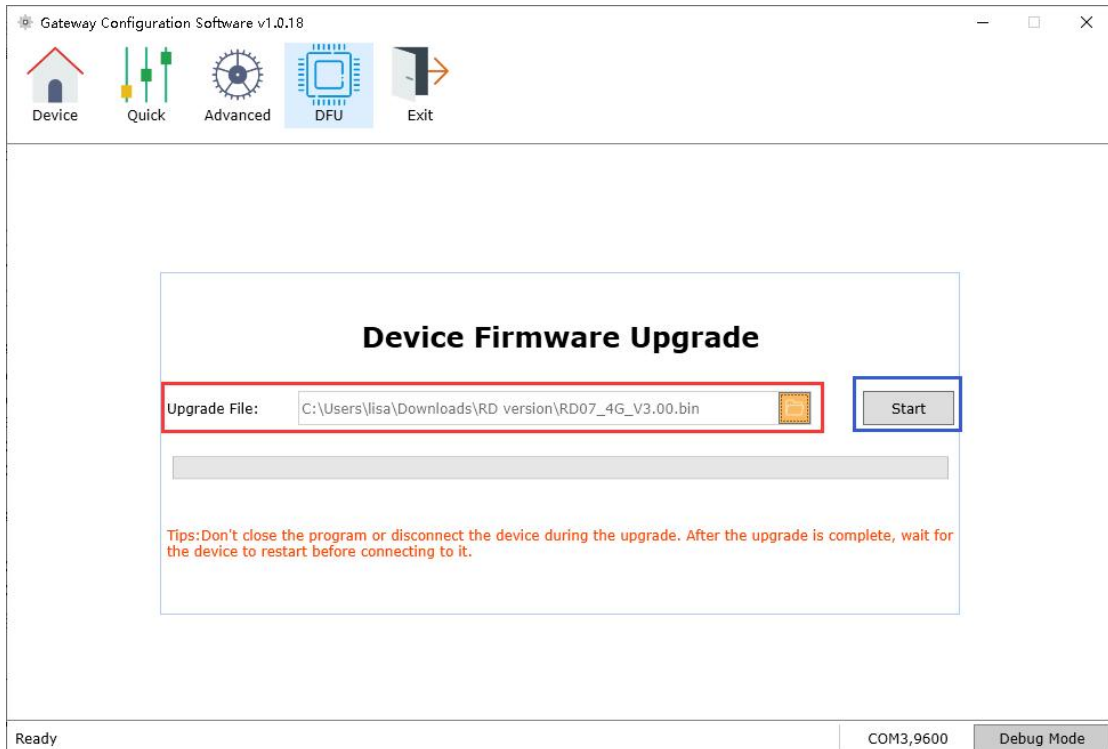

4) Click to exit debug mode

Click to exit debugging mode to return to the home page.

DFU

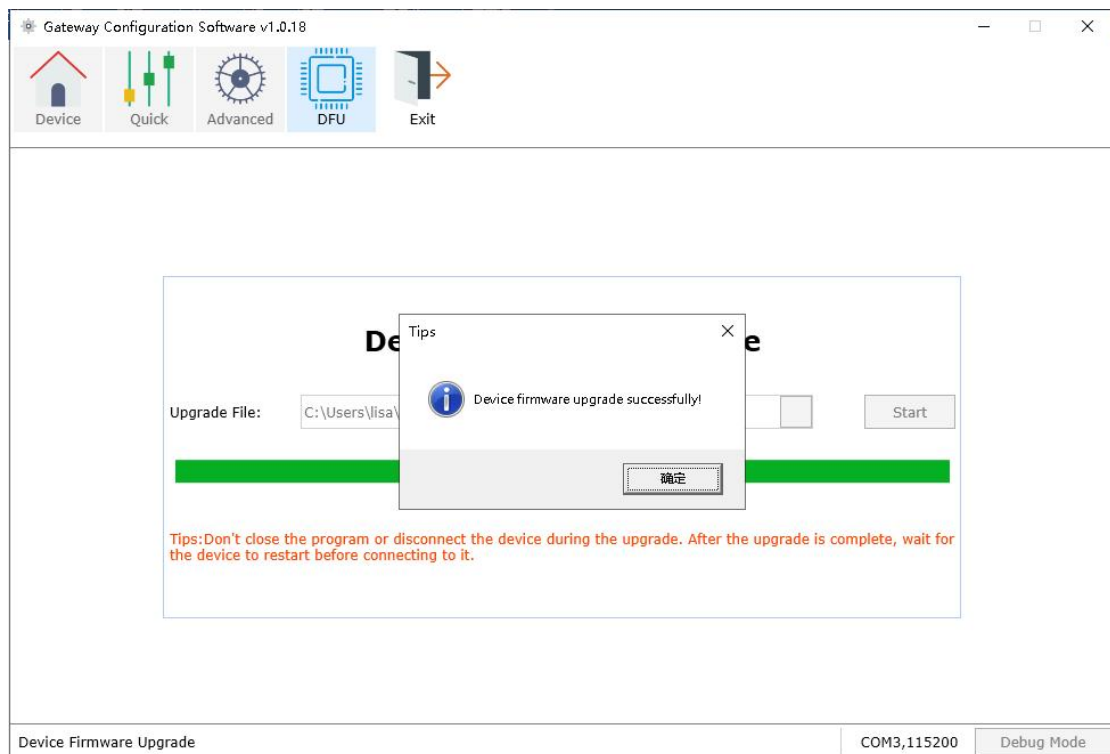can use the configuration software to upgrade the device firmware

1）Select the bin file and click "Start".

2) Firmware upgrade.

3) Device firmware upgrade successfully.

4) If the device cannot be connected or upgraded due to any abnormal operation during the upgrade, please contact us.