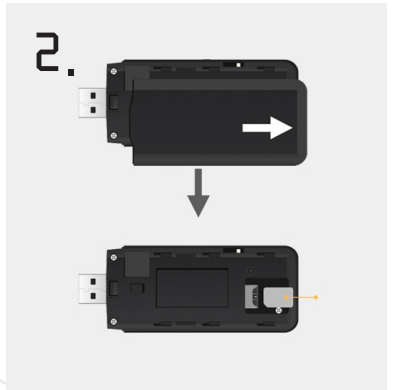
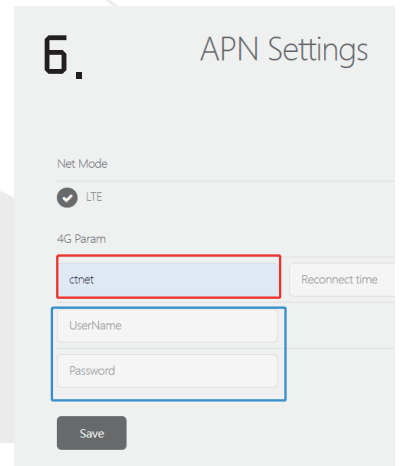
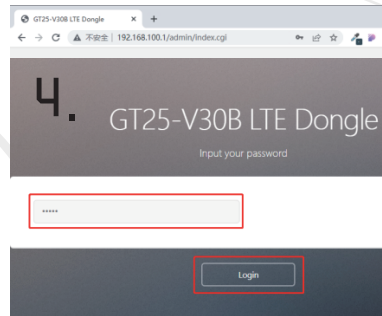
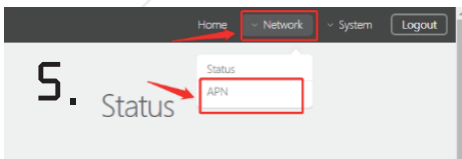


# 4G网络模块APN配置说明

1. 准备一张SIM卡 (提示:每月最好不少于500MB流量),并向电信运营商咨询此SIM流量卡的APN信息,有些运营商可能需要提供APN的用户名和密码;
2. 从坭 (Kwun) 里取出4G网络模块 (设备型号:GT25,芯片型号:EG25-G),打开4G网络模块的盖子,插入SIM卡 (从机器人上插拔4G网络模块可参见说明书);
3. 把4G网络模块插入windows系统的电脑中,等待1-2分钟,4G网络模块启动成功;
4. 打开电脑浏览器,在地址栏输入配置地址 (<http://192.168.100.1>),在登录页面输入登录密码:admin,点击Login;
5. 右上方导航栏,选择 Network -> APN,进入APN设置界面;



6. 在 APN设置界面,根据步骤1 运营商提供的信息,依次输入 APN、用户名、密码。若是没有用户名和密码,则不填写。最后点击Save;



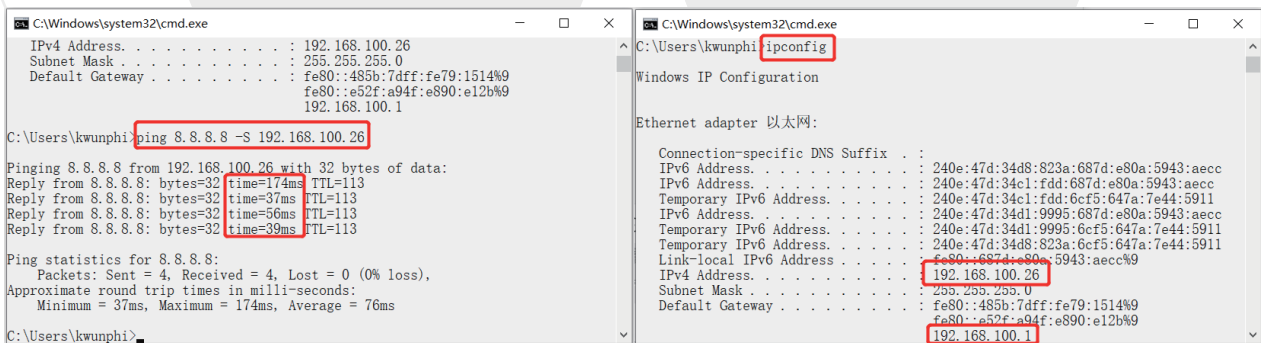
7. 4G网络模块配置成功以后,将4G网络模块从电脑上拔出,并插回坭 (Kwun) 即可;插拔4G网络模块的具体操作,可参考说明书。

8. 验证4G网络模块能否正常网络数据传输:

8-1. 确保周边网络信号良好;

8-2. 从电脑上拔出该4G网络模块,之后再插回电脑,等待3-6分钟,第一次配置APN后,需要等待的时间可能会比较久;

8-3. 确认4G网络模块IP;打开命令行提示符,输入ipconfig,找到IP为192.168.100.\*的网卡,即为4G网络模块IP。(每重新插入一次,这个4G网络模块名称和IP可能会发生变化。)



8-4. 检测网络状态方式;在命令行模式下,执行以下几个命令 (把192.168.100.\*替换为真实的4g网络模块IP地址):

```
ping -S 192.168.100.* 47.113.97.255
```

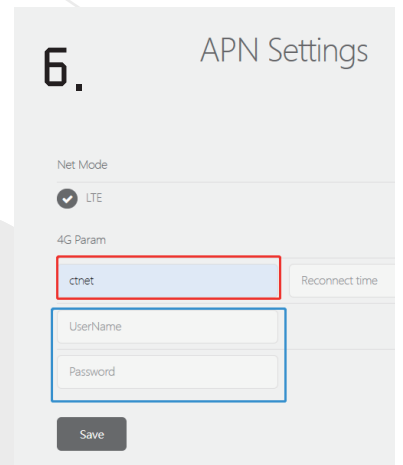
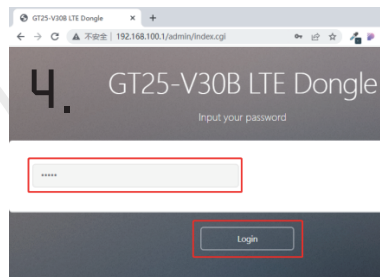
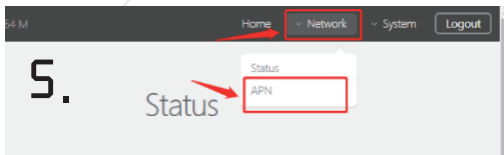
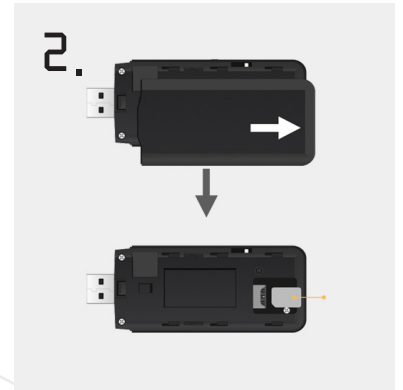
```
ping -S 192.168.100.* 8.8.8.8
```

```
ping -S 192.168.100.* 114.114.114
```

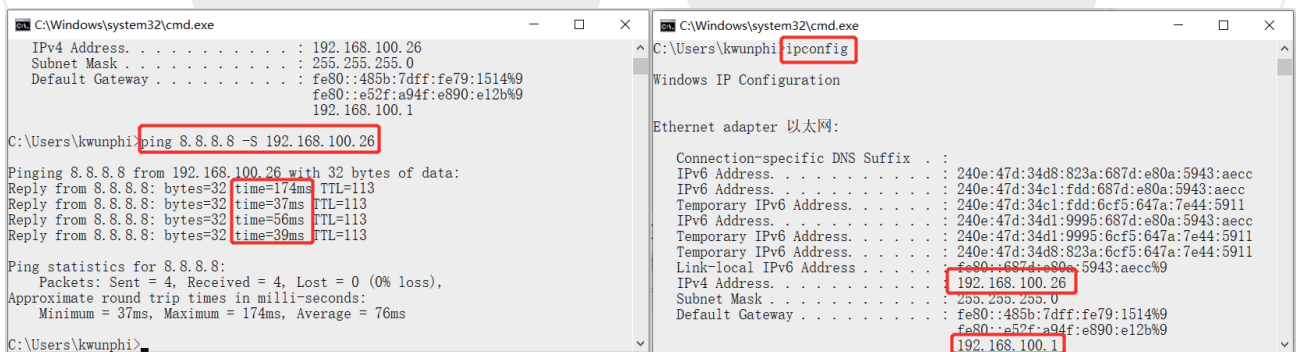
8-5. 如果相应的内容都带有响应时间,则表示4G网络模块APN配置成功,网络正常;否则表示配置失败,配置失败后,请按配置教程第1步到第6步重新操作一遍。

# LTE Modem APN Configuration Instructions

1. Prepare a SIM card with network traffic already activated, the SIM card package is at least 500MB per month, and consult the telecom operator for the APN information of the SIM card. Individual operators also need to provide the APN username and password.
2. Take out the LTE Modem (device model: GT25, chip model: EG25-G) from the robot, open the cover of the LTE Modem, insert the SIM card. How to plug and unplug the LTE Modem from the robot, you can see the manual.
3. Insert the LTE Modem into the computer with the Windows operating system, and wait for 1 to 2 minutes until the LTE Modem starts successfully.
4. Open the computer browser, enter the configuration address (<http://192.168.100.1>) in the address bar, enter the login password (default password: admin) in the login page, and click Login.
5. In the upper right navigation bar, select Network->APN to enter the APN setting page.



6. In the APN setting page, enter the APN, username and password according to the information provided by the telecom operator in step 1. If there is no username and password, do not fill in. Finally click Save.
7. After the LTE Modem is successfully configured, plug it back into the robot; for plugging and unplugging the LTE Modem, please refer to the manual.
8. Verify that the LTE Modem can transmit data normally on the network:
  - 8-1. First ensure that the surrounding telephone signals are good;
  - 8-2. Unplug the LTE Modem from the computer, then plug it back into the computer, and wait for 3-6 minutes. After configuring the APN for the first time, the waiting time may be longer;
  - 8-3. Confirm the LTE Modem IP; open the command line prompt, enter ipconfig, and find the network card whose IP is 192.168.100.\*, which is the LTE Modem IP. Each time it is reinserted, the LTE Modem name and IP may change;



- 8-4. Detect network status mode; in command line mode, execute the following commands (replace 192.168.100.\* with the real LTE Modem IP address):

```
ping -S 192.168.100.* 47.113.97.255
ping -S 192.168.100.* 8.8.8.8
ping -S 192.168.100.* 114.114.114
```
- 8-5. If the corresponding content has a response time, it means that the LTE Modem APN configuration is successful and the network is normal; otherwise, it means that the onfiguration fails. After the configuration fails, please follow steps 1 to 6 of the configuration tutorial to operate again.