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How to use the SIM72X0 Module in Linux



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Version History

Date	Version	Description of change	Author
2014-2-26	V0.1	New version	
2014-6-23	V0.2	1. Modify NEMA ——>NMEA 2. Modify GHOME——>GNOME	

Scope

This document describes how to use the module of SIMCom SIM72X0 modules in Linux OS. Examples are also given for reference. This document can be used for SIMCom SIM72X0 modules.

1 Introduction

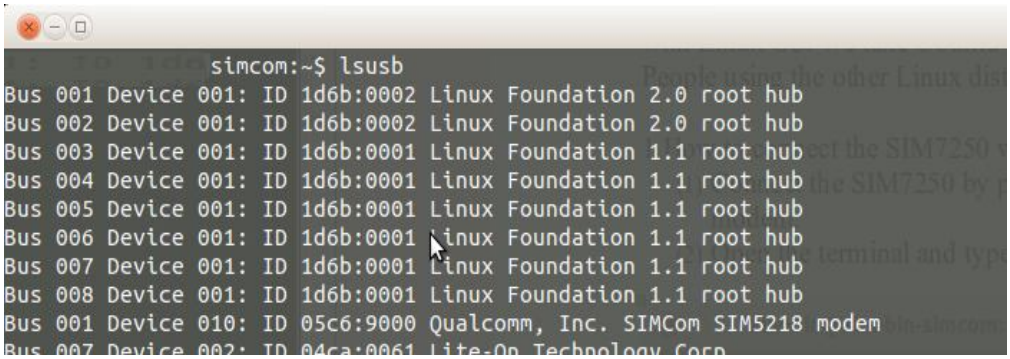
This document provides the guide to how to use the SIM72X0 module with PC host in Linux OS. We take Ubuntu as a example to present the guild. If use other Linux distribution also can refer to this document.

2 Connection

2.1 How to connect the SIM72X0 module with the Linux PC.

(1) .Connect the SIM72X0 by physical USB interface and power on the modem.

(2) .Open the terminal and type the shell command lsusb.



(3). Our Modem is recognized by Ubuntu by USB interface(vid=05c6,pid=9000)

(4) .Type the command “sudo rmmod usbserial”, some error messages may be prompted , ignore them.

(5) .Type the command “sudo modprobe usbserial vendor=0x05c6 product=0x9000”

(6) .List the ttyUSBx devices by “ls -l /dev/ttyUSB*”



If you find /dev/ttyUSB0~5, the device driver is OK!

3 Intercommunication

3.1 Intercommunicate with SIM72X0 with AT commands by minicom.

Now just demonstrate the minicom case.

(1). Install the package minicom in you Linux.

(2). The USB class ttyUSB2 is the AT-port in SIM72X0, so should

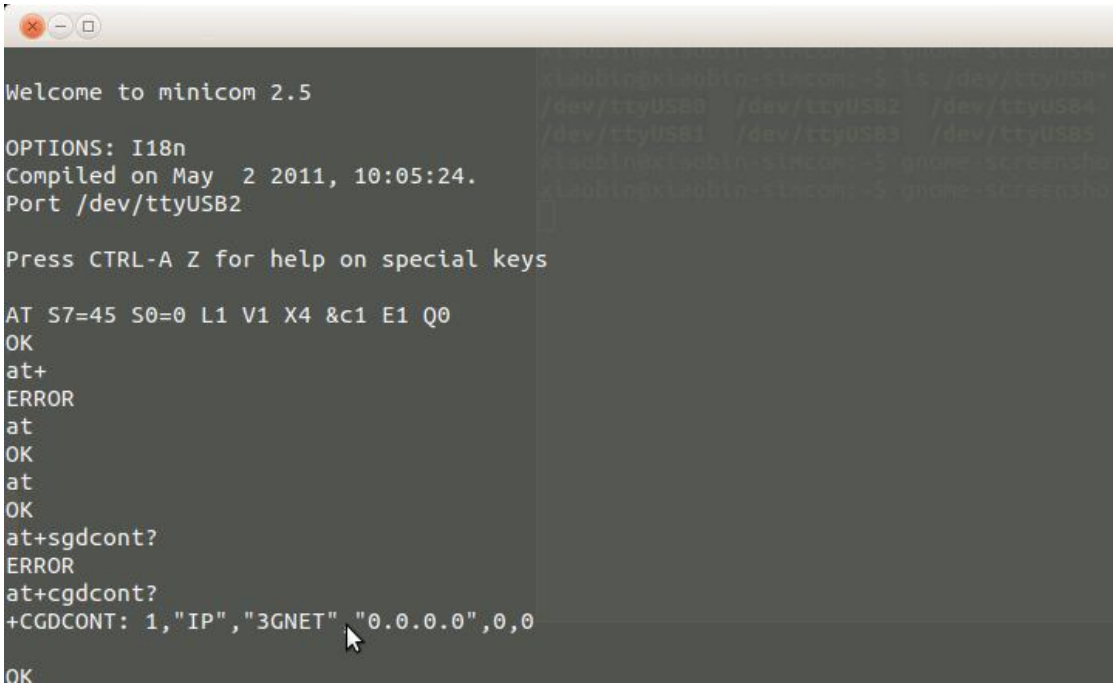
configure the minicom with /dev/ttyUSB2 port.

(3). Send AT commands in minicom.

Notes: As the slave USB device from the view of the Linux PC, SIM72X0 presents has 6 ports(in other words, USB classes) to the PC .

1) /dev/ttyUSB0-diag port for output developing messages
2) /dev/ttyUSB1- NMEA port for GPS NMEA data output
3) /dev/ttyUSB2-AT port for AT commands
4) /dev/ttyUSB3-Modem port for ppp-dial
5) /dev/ttyUSB4-Virtual Net card
6) /dev/ttyUSB5- Android Debug Bridge port

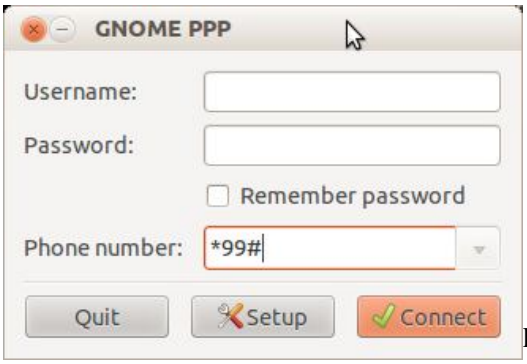
Figure as below following:



4 Example: PPP-dial use SIM72X0

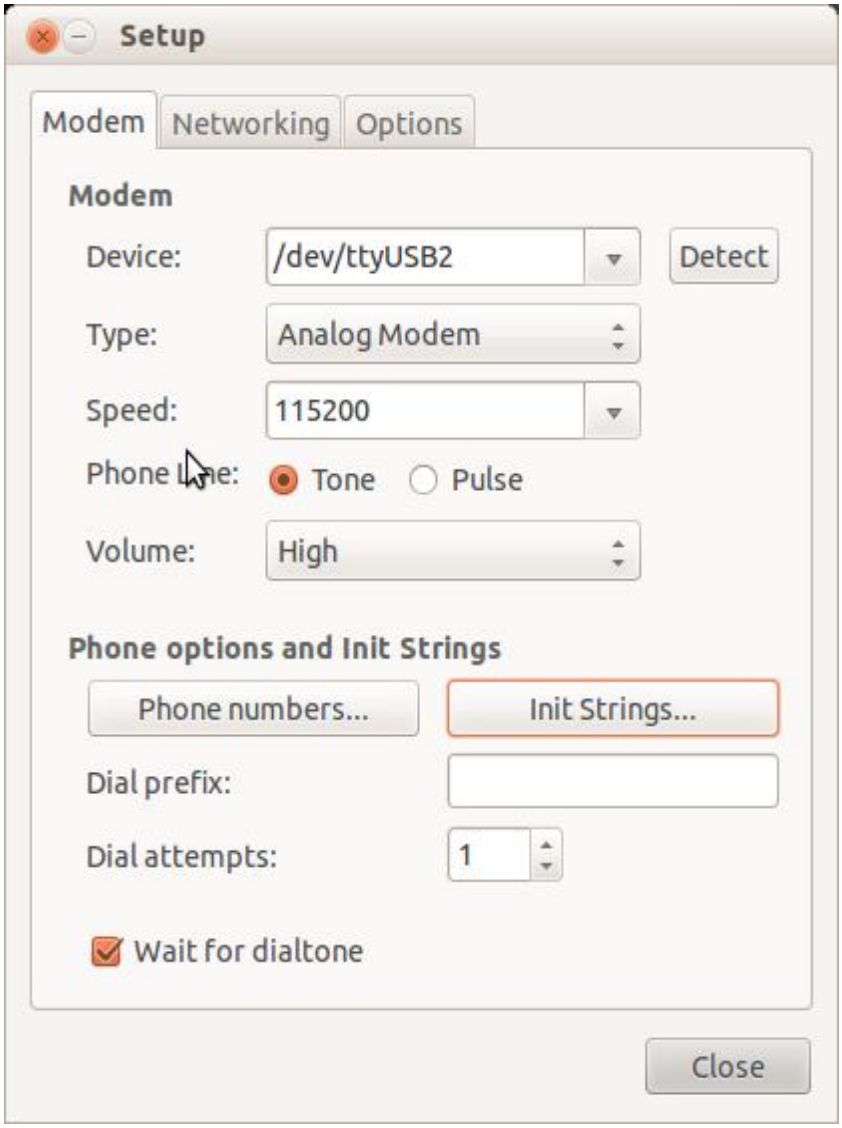
Here take the Gnome PPP as the example to show how to dial-up with SIM72X0.

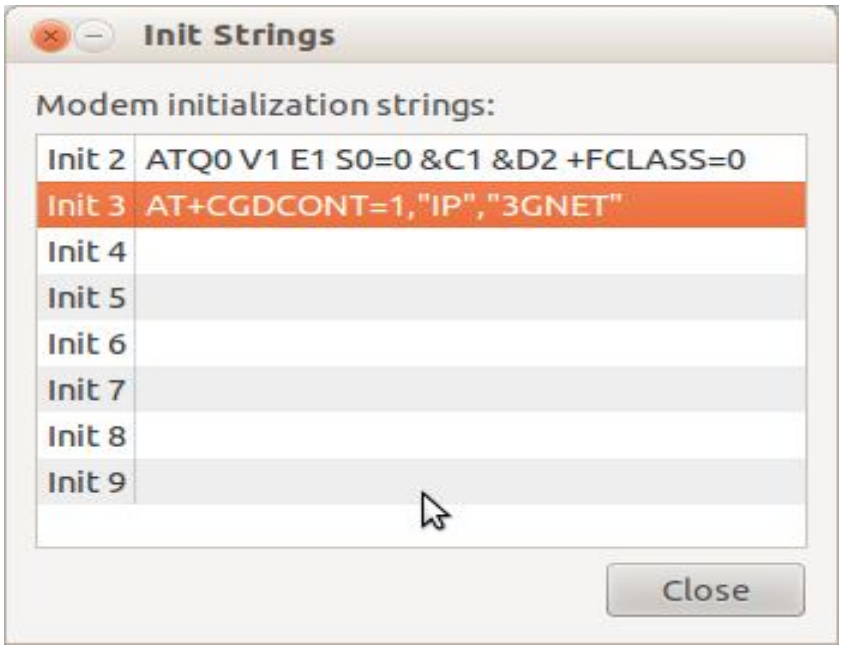
(1). Open GNOME PPP, type in Username/Password, Phone number is *99#(the dial-up number may be different , Please change according to your local mobile operator) Then Press Setup.



(2). Modify Device, select

/dev/ttyUSB3, press “Init Strings...”



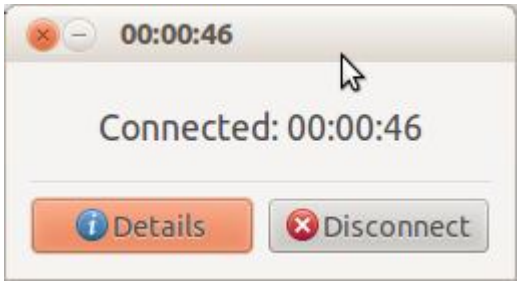


(3). Type

the command: AT+CGDCONT=1,”IP”,”3GNET” (APN provided by your operator for data connection) in Modem initialization string column then press Close.

(4). Then return GNOME PPP and select connect.

(5). Now ppp-dial is connected. Enjoy surfing on the internet.



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