BBB must be powered up from mains supply. PC supply not sufficient.

Copy files to PC from google/usb drive

1. **Beagle**
   Copy the following into ~/workbeagle/Beagle/src directory in PC
   NOTE: Do backup your beagle_main.cpp first before copying over.
   socket.cpp
   tty_port.cpp

2. **sierra usb port access**
   Copy ttyU.sh into ~/Desktop directory in PC

3. **AT commands for SMS and GPS**
   Copy AirPrime MC73XX-8805 AT Command Reference_V4 pdf.pdf
   to ~/Desktop directory in PC.

Now, Copy file into BBB
cd ~/Desktop
scp ttyU.sh debian@192.168.7.2:Desktop

Steps to run Sierra Wireless modem

You may create another terminal for Beaglebone using ssh. A third terminal is the PC Ubuntu terminal. In total there are 2 Beaglebone terminals and 1 PC terminal. With these terminals plus the Eclipse Application, we have a good system setup to work on any application.

Accessing Internet via Sierra Wireless
CAUTION!!
Need to insert the sim card. Before inserting or removing the sim card, the power supply adapter must be OFF and the usb connection from PC to Beaglebone must be disconnected.

Now, need to create a file called wvdial.conf in BBB
cd /etc
sudo nano wvdial.conf

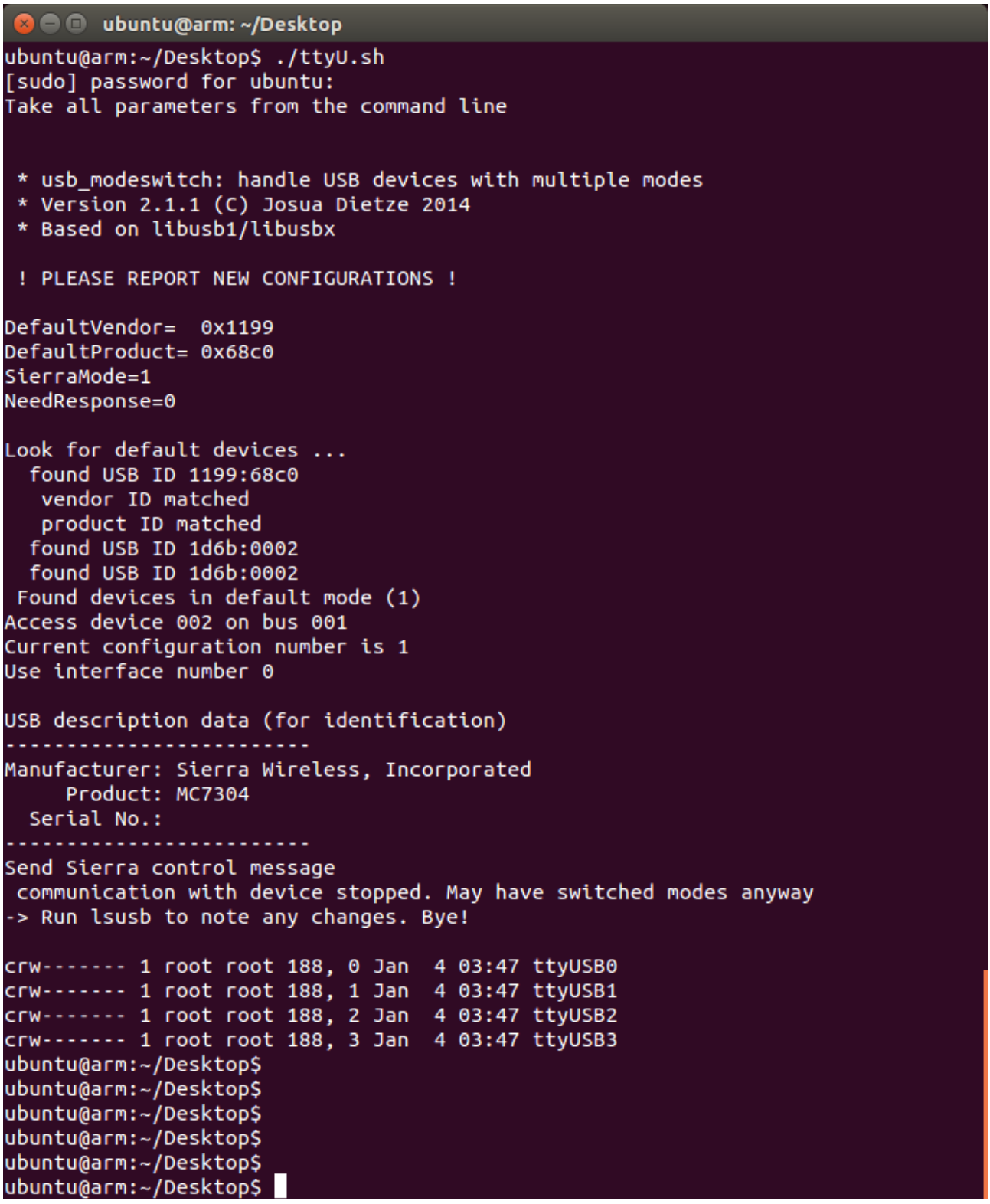
Copy the following text into this file and save (ctrl+x then y).

```
[Dialer Defaults]
Modem = /dev/ttyUSB2
Modem Type = Analog Modem
ISDN = 0
Baud = 1000000
Dial Attempts = 1
Username = user
Password = pass
Init3 = AT+CGDCONT=1,"IP","net"
Init4 = AT+CGMI
Init5 = AT+CPIN?
Phone = *99#
Stupid Mode = 1
```

Now, you have access to internet via the Sierra Wireless modem.

In Beagle Terminal sudo apt-get install usb-modeswitch if there is error in running ttyU.sh

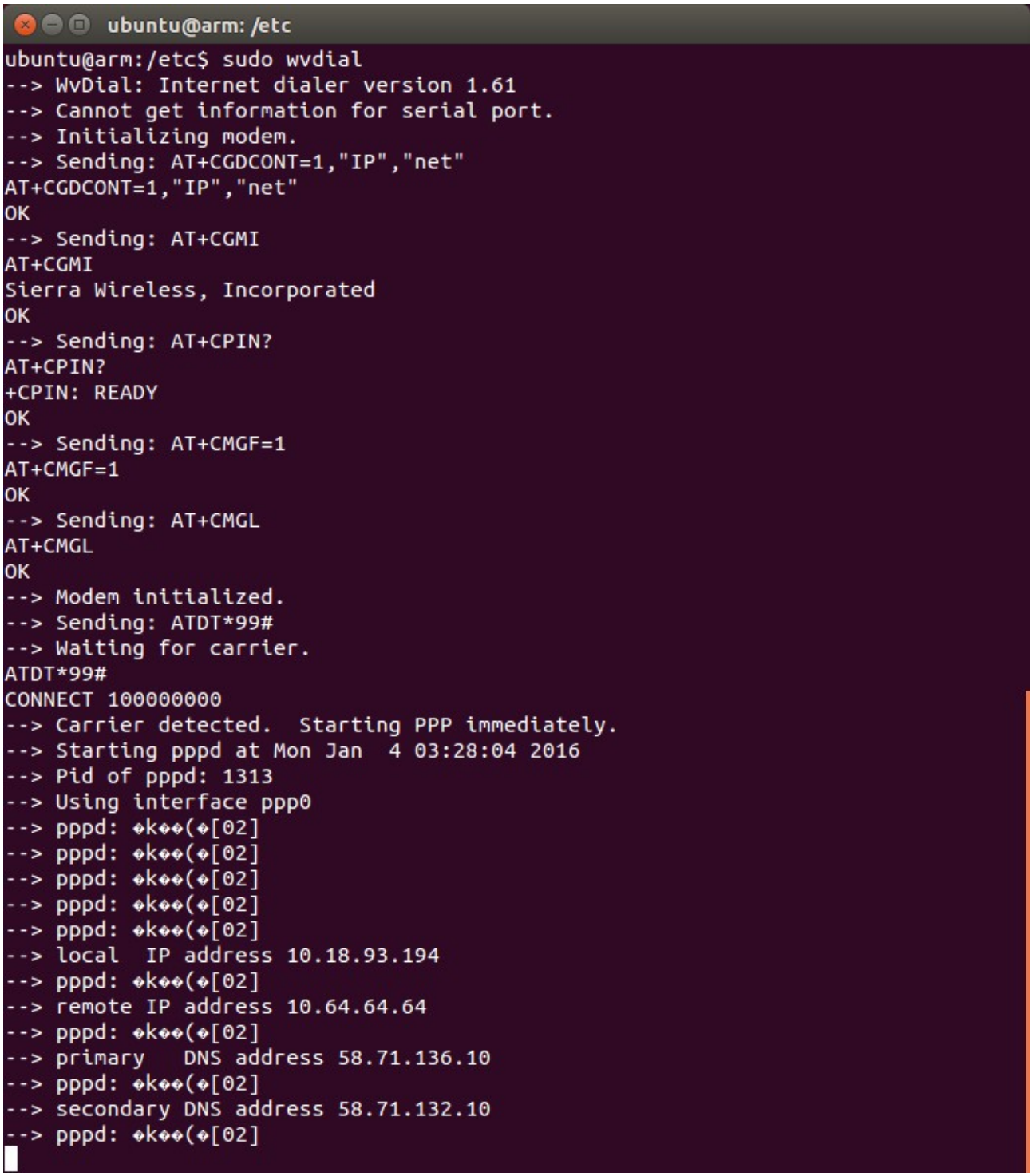
Establish tty USB for sierra wireless
cd ~/Desktop
./ttyU.sh



sudo wvdial
If this shows “command not found”, then need to install wvdial package.

sudo apt-get install wvdial

Here's the screenshot for BBB. NOTE: Must have SIM card inserted.

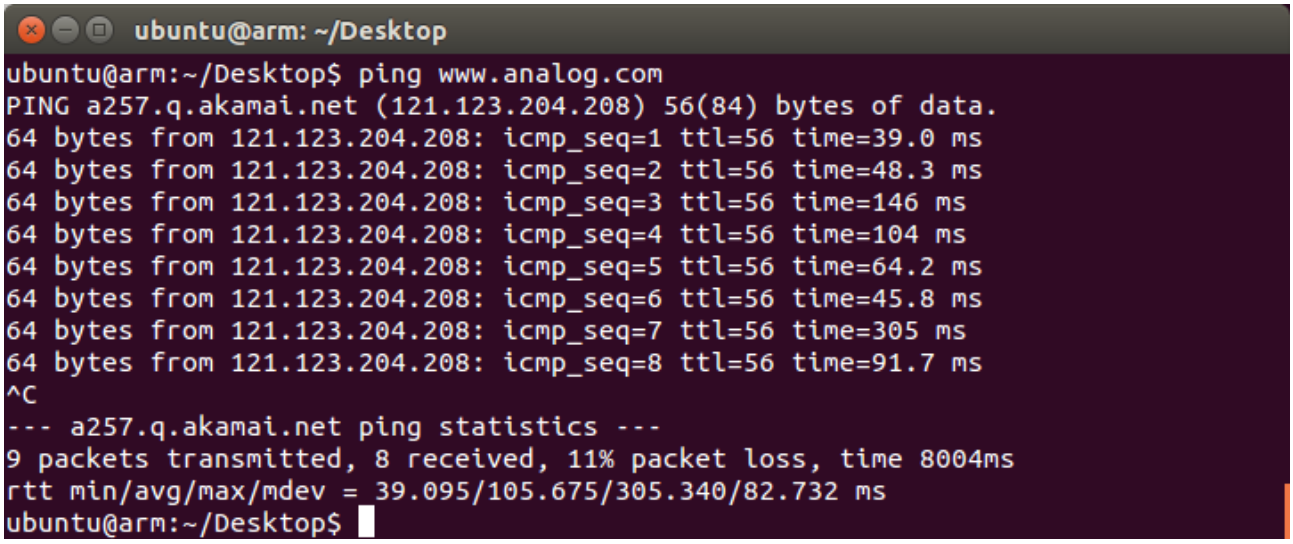


To exit, ctrl+c

Open another Beaglebone terminal
ssh debian**@192.168.7.2**

Try this:

ping www.analog.com



This shows internet access is working!!
Now, you will not be able to see the familiar Internet Browser (Internet Explorer, Firefox etc) because only the terminal can access the BBB.