

# TW-3G HSPA+ USB Modem Ubuntu Installation Guide

## Step 1:

Create a file named “**1c9e:98ff**” with contents below.

```
### TW-3G HSPA+ USB Modem
DefaultVendor= 0x1c9e
DefaultProduct= 0x98ff
TargetVendor= 0x1c9e
TargetProduct= 0x9801
MessageEndpoint= not set
MessageContent="55534243123456780000000080000606f5040252700000000000000000000"
NeedResponse=0
ResponseEndpoint= not set
Interface=0x00
```

## Step 2:

Open Terminal window and enter command below.

```
sudo modprobe usbserial vendor=0x1c9e product=0x9801
```

## Step 3:

Insert the TW-3G HSPA+ USB Modem and enter command “lsusb” in Terminal window. You should find the ID “**1c9e:98ff**”.

```
@home:~/Desktop$ lsusb
Bus 001 Device 001: ID 1d6b:0002 Linux Foundation 2.0 root hub
Bus 002 Device 001: ID 1d6b:0001 Linux Foundation 1.1 root hub
Bus 001 Device 004: ID 1c9e:98ff
@home:~/Desktop$
```

## Step 4:

Enter command below:

```
sudo usb_modeswitch -c 1c9e:98ff
```

Please be noted, the “**1c9e:98ff**” is the file name that you created on step 1. You must specify the path if the file is not located at the same folder.

Then you should get the following result:

```
@home:~/Desktop$ sudo usb_modeswitch -c 1c9e:98ff
```

```
Looking for target devices ...
  No devices in target mode or class found
Looking for default devices ...
  Found devices in default mode, class or configuration (1)
Accessing device 003 on bus 001 ...
Getting the current device configuration ...
```

OK, got current device configuration (1)  
Using endpoints 0x01 (out) and 0x81 (in)  
Inquiring device details; driver will be detached ...  
Looking for active driver ...  
OK, driver found ("usb-storage")  
OK, driver "usb-storage" detached

SCSI inquiry data (for identification)

-----  
Vendor String: USBModem  
Model String: Disk  
Revision String: 2.31  
-----

USB description data (for identification)

-----  
Manufacturer: USB Modem  
Product: USB Modem  
Serial No.: 1234567890ABCDEF  
-----

Setting up communication with interface 0  
Using endpoint 0x01 for message sending ...  
Trying to send message 1 to endpoint 0x01 ...  
OK, message successfully sent  
Resetting response endpoint 0x81  
Resetting message endpoint 0x01  
-> Run lsusb to note any changes. Bye.

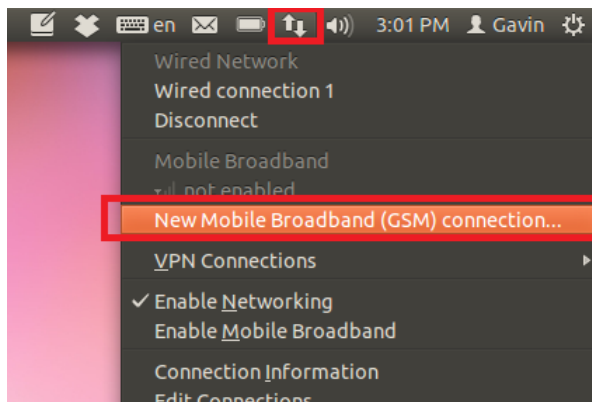
### Step 5:

Enter command “`ls -al /dev/ttyU*`”, you will see four devices as below.

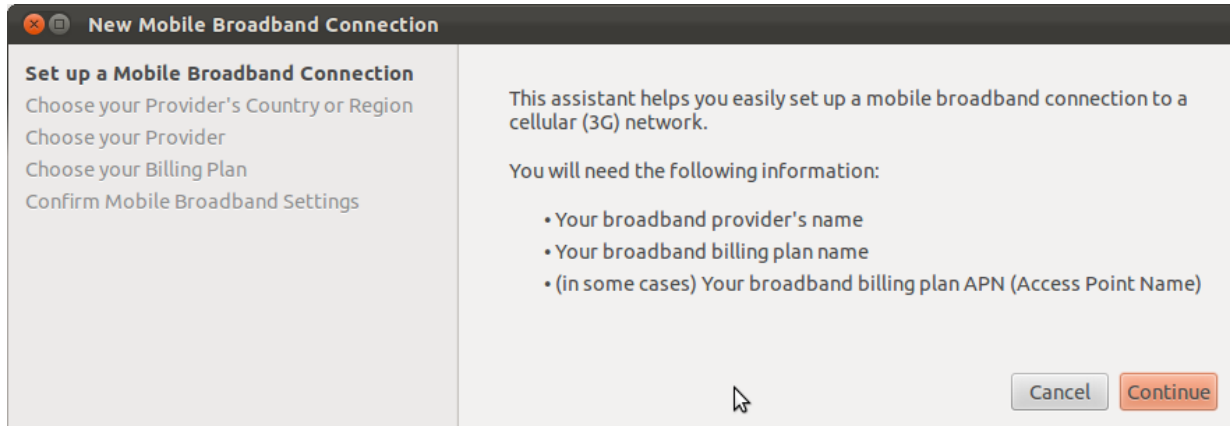
```
@home:~/Desktop$ ls -al /dev/ttyU*  
crw-rw---- 1 root dialout 188, 0 2011-11-24 14:23 /dev/ttyUSB0  
crw-rw---- 1 root dialout 188, 1 2011-11-24 14:23 /dev/ttyUSB1  
crw-rw---- 1 root dialout 188, 2 2011-11-24 14:23 /dev/ttyUSB2  
crw-rw---- 1 root dialout 188, 3 2011-11-24 14:23 /dev/ttyUSB3  
@home:~/Desktop$
```

### Step 6:

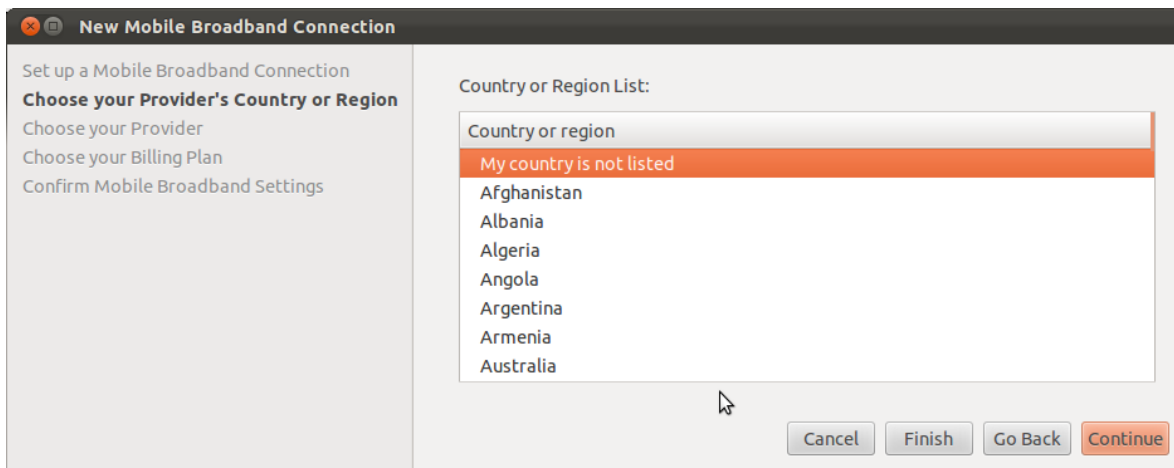
You will find a new mobile broadband connection. Click it to configure the network setting with TW-3G HSPA+ USB Modem.



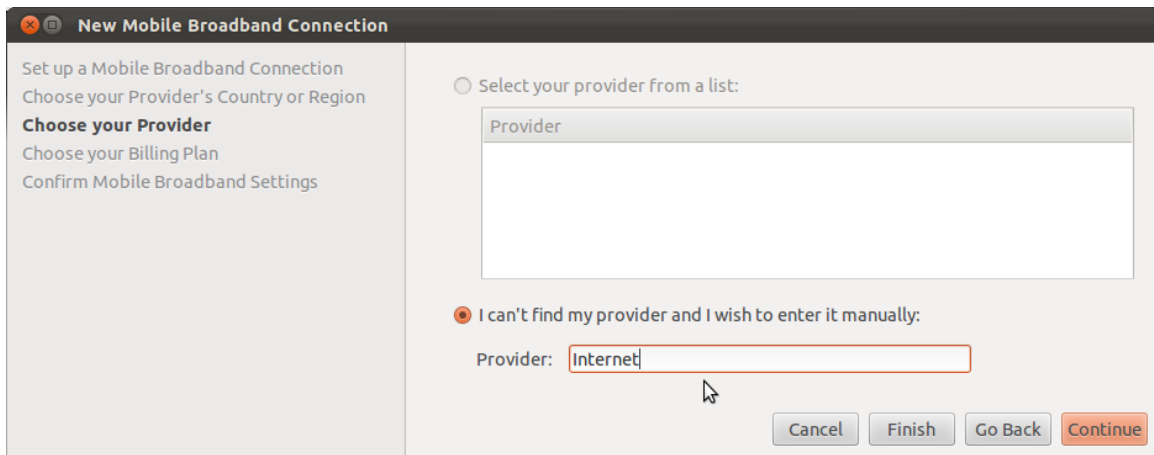
**Step 7:**  
Click **Continue**.



**Step 8:**  
Select the pre-defined service provider or setup manually. Click **Finish** to finish the setting if you can find your local service provider profile. Refer to Step 9, if click **Continue**.

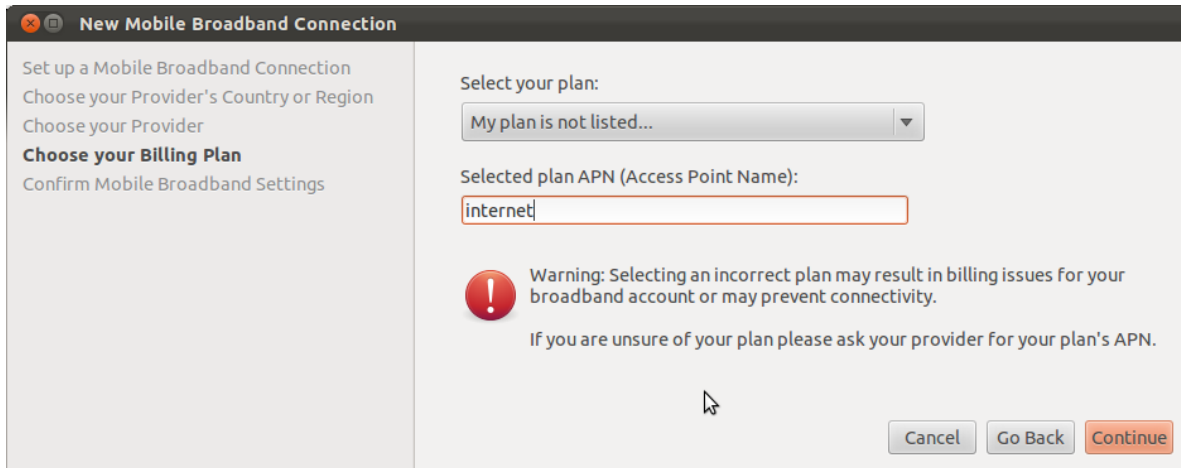


**Step 9:**  
Enter the name for your provider and click **Continue**.



**Step 10:**

Enter the APN name. Basically this name is given by your service provider. Click **Continue** for next step.



**Step 11:**

Click **Apply** to finish the setting. And the 3G connection will be established automatically.

