

DWM-157

3.75G HSUPA USB Adapter

**Руководство пользователя Linux
/Linux User Manual**

Руководство по установке D-Link DWM-157 для ОС Linux

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D-Link DWM-157 Linux guide

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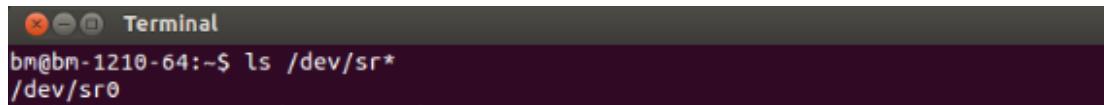
Руководство по установке D-Link DWM-157 для ОС Linux

Для установки DWM-157 в ОС Ubuntu проделайте следующие шаги.

1. Подключение

- Подключите 3G модем с установленной SIM-картой (на модеме должна быть выключена проверка PIN-кода) в USB порт компьютера. Проверьте наличие устройства командой:

```
ls /dev/sr*
```



```
Terminal  
bm@bm-1210-64:~$ ls /dev/sr*  
/dev/sr0
```

Если ответ такой, как на примере ниже, значит, программное обеспечение уже было установлено:

```
bm@bm-1210-64:~$ ls /dev/sr*  
ls: cannot access /dev/sr*: No such file or directory  
bm@bm-1210-64:~$
```

удалите его командой:

```
cd /home  
ls  
sudo ./uninstall.sh
```

- Монтаж.

Используйте команду:

```
sudo mount /dev/sr0 /mnt
```

```
bm@bm-1210-64:~$ sudo mount /dev/sr0 /mnt  
[sudo] password for bm:  
mount: block device /dev/sr0 is write-protected, mounting read-only
```

- Проверьте результат установки следующей командой:

```
cd /mnt  
ls  
bm@bm-1210-64:/home$ cd /mnt  
bm@bm-1210-64:/mnt$ ls  
autorun.inf           InstallPackageA  InstallPackageD  
D-Link Connection Manager.pkg  InstallPackageB  InstallPackage.exe  
DTLWC_D310A linux 1.0.5VEL_140102.tar.gz  InstallPackageC  StartModem.exe
```

Если ответ следующего вида: **xxx.gz** (вместо **xxx.deb**), то монтаж выполнен.

2. Установка

Установите программу, используя команды:

```
sudo cp xxx.gz /home
```

```
cd /home
```

```
ls
```

```
sudo tar -xf xxx.gz
```

```
ls
```

```
sudo ./install.sh
```

```
bm@bm-1210-64:/mnt$ cd /home
bm@bm-1210-64:/home$ ls
bm DTLWC_D310A_linux_1.0.5VEL_140102.tar.gz
bm@bm-1210-64:/home$ sudo tar -xf DTLWC_D310A_linux_1.0.5VEL_140102.tar.gz
bm@bm-1210-64:/home$ ls
bm DTLWC_D310A_linux_1.0.5VEL_140102.tar.gz install.sh linux uninstall.sh

bm@bm-1210-64:/home$ sudo ./install.sh
Version=1.0.5VEL
Date=2014-01-02
Vendor=D-Link
Model=D310A
Description:
this is connection manger, you can use it to dial to internet.
continue to install(yes/no)?[yes]
get device info...
Mass Storage Vendor=0x2001
Mass Storage Product=0xa707
Vendor=0x2001
Product=0x7d02
check os support...
Linux release version:Ubuntu 12.10 \n \l

[OK]
check driver support...load usbserial driver...
[OK]
install usb serial driver...[OK]
udev rules file...[OK]
ppp config...[OK]
APN and dial script...[OK]
main app...[OK]
disable modem-manager service...[OK]
disable modem-manager service...[OK]
Installation Done!!
-----
Version=1.0.5VEL
Date=2014-01-02
Vendor=D-Link
Model=D310A
Description:
this is connection manger, you can use it to dial to internet.
-----
os need reboot now(yes/no)?[yes]no
```

Установка закончена, когда система выдаст сообщение: **Installation Done!!**

Внимание! Извлеките модем после установки и вставьте снова.

Если на модеме отключена блокировка и выключена проверка PIN-кода, устройство подключится к сети автоматически. Если связь установлена, следующие шаги можно пропустить.

3. Подключение к сети Интернет

3.1. Отключите проверку PIN-кода на SIM-карте, если она включена.

Проверьте состояние COM-портов командой:

```
ls /dev/tty*
```

```

os need reboot now(yes/no)?[yes]no
bm@bm-1210-64:/home$ ls /dev/tty*
/dev/tty   /dev/tty24  /dev/tty40  /dev/tty57      /dev/ttyS14  /dev/ttyS30
/dev/tty0  /dev/tty25  /dev/tty41  /dev/tty58      /dev/ttyS15  /dev/ttyS31
/dev/tty1  /dev/tty26  /dev/tty42  /dev/tty59      /dev/ttyS16  /dev/ttyS4
/dev/tty10 /dev/tty27  /dev/tty43  /dev/tty6       /dev/ttyS17  /dev/ttyS5
/dev/tty11 /dev/tty28  /dev/tty44  /dev/tty60      /dev/ttyS18  /dev/ttyS6
/dev/tty12 /dev/tty29  /dev/tty45  /dev/tty61      /dev/ttyS19  /dev/ttyS7
/dev/tty13 /dev/tty3   /dev/tty46  /dev/tty62      /dev/ttyS2   /dev/ttyS8
/dev/tty14 /dev/tty30  /dev/tty47  /dev/tty63      /dev/ttyS20  /dev/ttyS9
/dev/tty15 /dev/tty31  /dev/tty48  /dev/tty7       /dev/ttyS21  /dev/ttyUSB0
/dev/tty16 /dev/tty32  /dev/tty49  /dev/tty8       /dev/ttyS22  /dev/ttyUSB1
/dev/tty17 /dev/tty33  /dev/tty5   /dev/tty9       /dev/ttyS23  /dev/ttyUSB2
/dev/tty18 /dev/tty34  /dev/tty50  /dev/ttyprintk  /dev/ttyS24  /dev/ttyUSB3
/dev/tty19 /dev/tty35  /dev/tty51  /dev/tty50      /dev/ttyS25  /dev/ttyUSB4
/dev/tty2  /dev/tty36  /dev/tty52  /dev/tty51      /dev/ttyS26
/dev/tty20 /dev/tty37  /dev/tty53  /dev/tty50      /dev/ttyS27
/dev/tty21 /dev/tty38  /dev/tty54  /dev/tty51      /dev/ttyS28
/dev/tty22 /dev/tty39  /dev/tty55  /dev/tty52      /dev/ttyS29
/dev/tty23 /dev/tty4   /dev/tty56  /dev/tty53      /dev/ttyS3
bm@bm-1210-64:/home$ █

```

Если ответ такой же, как на примере выше, то подключение установлено.

3.2. Подключение к сети Интернет.

Если модем не заблокирован, подключение произойдёт автоматически.

3.3. Проверка интернет соединения.

a) Используйте команду:

ping www.dlink.ru 【Можно задать URL либо IP.】

```

bm@bm-1210-64:/home$ ping www.baidu.com
PING www.a.shifen.com (61.135.169.105) 56(84) bytes of data.
64 bytes from 61.135.169.105: icmp_req=1 ttl=54 time=159 ms
64 bytes from 61.135.169.105: icmp_req=2 ttl=54 time=114 ms
64 bytes from 61.135.169.105: icmp_req=3 ttl=54 time=84.5 ms

```

б) Проверьте подключение к сети Интернет браузером.

4. Поддерживаемые версии

Поддерживается Ubuntu 0910-1310.

5. Индикация модема

Состояние индикатора	Состояние модема
Постоянно горит красным	Нет SIM-карты / Ошибка
Постоянно горит зелёным	Регистрация в сети (не подключен)
Мигает зелёным	Подключен к сети

6. Как сменить APN

6.1. Откройте список APN командой:

Sudo gedit /etc/3g_modem_connection/apn.dat

```

-----
os need reboot now(yes/no)?[yes]no
bm@bm-1210-64:/home$ sudo gedit /etc/3g_modem_connection/apn.dat

```

File Edit View Search Tools Documents Help

Open Save Undo Redo Cut Copy Paste Find Replace

apn.dat x

```
Account,MCCMNC,DialNum,UserName,PSW,APN,AuthType,Proxy
CH Orange CH GPRS,22803,,,internet,0,
UK Orange UK GPRS,23433,,,orangeinternet,0,
Telenor Net,21601,*99#,,,net,0,
Peoples Hong Kong GPRS,45412,"*99*1,1#",,,peoples.net,0,
Plus,26001,*99#,,,internet,0,
Porta Ecuador GPRS,74001,,,internet.porta.com.ec,1,
Rogers AT&T Canada GPRS,30272,*99***1#,wapuser1,wap,internet.com,0,
SFR Entreprise France UMTS GPRS,20810,,,internet,0,
SFR France UMTS GPRS,20810,,,websfr,0,
SFR International France GSM,20810,0033141452929,,,Analog,0,
SFR France GSM,20810,6161,,,Digital,0,
Simobil Corporate Slovenia GPRS,29340,,,vpn.simobil.si,0,
Simobil Slovenia GPRS,29340,,simobil,internet,internet.simobil.si,0,
SmartTone-Vodafone HongKong GPRS UMTS,45406,"*99*1,1#",,,internet,0,
Sonera Finland GPRS,24491,*99#,,,pointernet,0,
Sonofon Denmark GPRS,23802,*99#,sonofon,,internet,0,
Sunday Hong Kong GPRS,45416,*99***1#,,,internet,0,
Sunrise Switzerland GPRS,22802,*99***1#,,,internet,0,
Swisscom Switzerland GPRS,22801,*99***1#,,,gprs.swisscom.ch,0,
Swisscom VPN Switzerland GPRS,22801,*99***1#,,,corporate.swisscom.ch,0,
Tango Luxembourg UMTS GPRS,27077,,tango,tango,internet,0,
TDC Mobil Denmark UMTS GPRS,23801,,,internet,0,
Tele.Ring Austria GPRS,23207,"*99*1,1#",web@telering.at,web,WEB,0,
Tele2 Sweden GPRS,24007,*99#,gprs,internet,isplnk1.swip.net,0,
Telemig Celular Brazil GPRS,72423,,celular,celular,gprs.telemigcelular.com.br,0,
Telenor Mobil Norway GPRS,24201,"*99*1,1#",s100,1111,internet,0,
Telia Finland GPRS,24403,*99***1#,,,internet,0,
Telia Sweden GPRS,24001,*99#,,,online.telia.se,0,
Vodafone TR,28602,*99#,vodafone,vodafone,internet,0,
Telstra Australia GPRS,50501,*99***1#,,,telstra.internet,0,
Tigo Colombia GPRS,732102,,,web.colombiamovil.com.co,1,
3 Australia UMTS GPRS,50506,,,3netaccess,0,
3 Austria UMTS GPRS,23210,,,drei.at,0,
3 Hong Kong Datacard,45403,,,ipc.three.com.hk,0,
```

6.2. Найдите APN оператора velcom.

File Edit View Search Tools Documents Help

Open Save Undo Redo Cut Copy Paste Find Replace

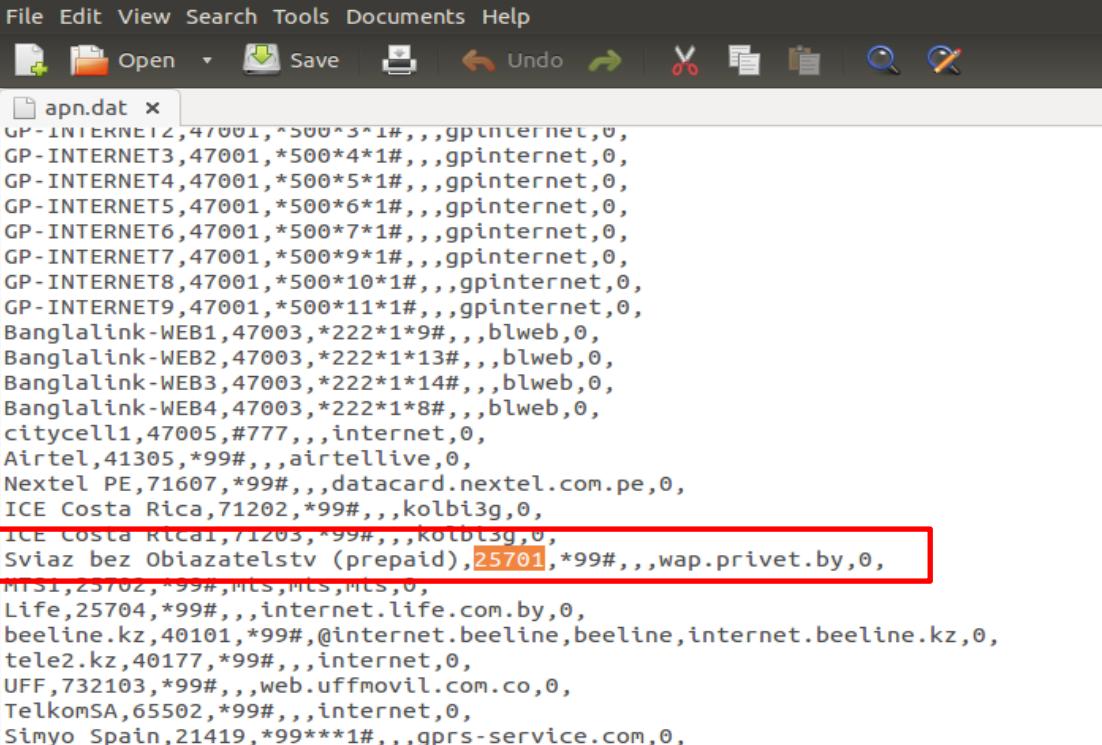
apn.dat x

```
i-Mobile,52003,,true,true,true,internet,0,
i-Mobile,52015,*99#,,,internet,0,
TOT,52015,*99#,,,internet,0,
DTAC,52018,*99#,,,www.dtac.co.th,0,
AIS,52001,*99***1#,,,internet,0,
Mobifone,45201,*99#,mms,mms,m-wap,0,
Vinaphone,45202,*99#,mms,mms,m3-world,0,
EVNtelecom,45208,*99#,,,e-internet,0,
True-H,52000,*99#,true,true,internet,0,
CAT 3G,52002,*99#,,,catinternet,0,
WEB 2.5,25701,*99#,,,vml.velcom.by,0,
Cyfrowy Polsat,26012,*99#,,,internet.cp,0,
Claro Argentina1,722320,*99#,clarogprs,clarogprs999,igprs.claro.com.ar,0,
Claro Argentina2,722330,*99#,clarogprs,clarogprs999,igprs.claro.com.ar,0,
Personal Internet Movil1,722340,*99#,gprs,adgj,gprs.personal.com,0,
Personal Internet Movil2,722341,*99#,gprs,adgj,gprs.personal.com,0,
```

6.3. Строку WEB 2.5,25701,*99#,,,vmi.velcom.by,0,

```
... , ... , ... , ... , ... , ... , ... , ... ,  
CAT 3G_52002 *99#,,,catinternet,0,  
WEB 2.5,25701,*99#,,,vmi.velcom.by,0,  
Cyfrowy Polsat,26012,*99#,,,internet.cp,0,
```

замените на строку: Sviaz bez Obiazatelstv,25701,*99#,,,wap.privet.by,0,



```
File Edit View Search Tools Documents Help  
Open Save Undo Redo Cut Copy Paste Find Replace  
apn.dat x  
GP-INTERNET1,47001,*500*3*1#,,,gpinternet,0,  
GP-INTERNET3,47001,*500*4*1#,,,gpinternet,0,  
GP-INTERNET4,47001,*500*5*1#,,,gpinternet,0,  
GP-INTERNET5,47001,*500*6*1#,,,gpinternet,0,  
GP-INTERNET6,47001,*500*7*1#,,,gpinternet,0,  
GP-INTERNET7,47001,*500*9*1#,,,gpinternet,0,  
GP-INTERNET8,47001,*500*10*1#,,,gpinternet,0,  
GP-INTERNET9,47001,*500*11*1#,,,gpinternet,0,  
Banglalink-WEB1,47003,*222*1*9#,,,blweb,0,  
Banglalink-WEB2,47003,*222*1*13#,,,blweb,0,  
Banglalink-WEB3,47003,*222*1*14#,,,blweb,0,  
Banglalink-WEB4,47003,*222*1*8#,,,blweb,0,  
citycell1,47005,#777,,internet,0,  
Airtel,41305,*99#,,,airtellive,0,  
Nextel PE,71607,*99#,,,datacard.nextel.com.pe,0,  
ICE Costa Rica,71202,*99#,,,kolbi3g,0,  
ICE Costa Rica,71203,*99#,,,kolbi3g,0,  
Sviaz bez Obiazatelstv (prepaid),25701,*99#,,,wap.privet.by,0,  
MTS1,25702,*99#,MTS,MTS,0,  
Life,25704,*99#,,,internet.life.com.by,0,  
beeline.kz,40101,*99#,@internet.beeline,beeline,internet.beeline.kz,0,  
tele2.kz,40177,*99#,,,internet,0,  
UFF,732103,*99#,,,web.uffmovil.com.co,0,  
TelkomSA,65502,*99#,,,internet,0,  
Simyo Spain,21419,*99***1#,,,gprs-service.com,0,
```

6.4. Сохраните изменения.

Для этого нажмите кнопку  или закройте окно и согласитесь сохранить изменения в открывшемся сообщении.

6.5. Извлеките модем и вставьте снова, модем подключится к сети автоматически с новым APN.

D-Link DWM-157 Linux guide

The installation steps of DWM-157 in Ubuntu system are as follows.

1. Plug the dongle

1.1 Plug the dongle with SIM card (disable the PIN code first) into the USB port of your computer. Check the device with command:

```
ls /dev/sr*
```



```
Terminal
bm@bm-1210-64:~$ ls /dev/sr*
/dev/sr0
```

If the system returns as follows, it means the software has been installed before.

```
bm@bm-1210-64:~$ ls /dev/sr*
ls: cannot access /dev/sr*: No such file or directory
bm@bm-1210-64:~$
```

Uninstall it with command:

```
cd /home
ls
sudo ./uninstall.sh
```

1.2. Mount.

Use command:

```
sudo mount /dev/sr0 /mnt
```

```
bm@bm-1210-64:~$ sudo mount /dev/sr0 /mnt
[sudo] password for bm:
mount: block device /dev/sr0 is write-protected, mounting read-only
```

1.3. Check the result of mount, using command:

```
cd /mnt
```

```
ls
```

```
bm@bm-1210-64:/home$ cd /mnt
bm@bm-1210-64:/mnt$ ls
autorun.inf           InstallPackageA  InstallPackageD
D-Link Connection Manager.pkg  InstallPackageB  InstallPackage.exe
DTLWC_D310A_linux_1.0.5VEL_140102.tar.gz  InstallPackageC  StartModem.exe
```

If the system returns as above (**xxx.gz** instead of **xxx.deb**), then succeed.

2. Installation

Install the software with command:

```
sudo cp xxx.gz /home
```

```
cd /home
```

```
ls
```

```
sudo tar -xf xxx.gz
```

```
ls
```

```
sudo ./install.sh
```

```
bm@bm-1210-64:/mnt$ cd /home
bm@bm-1210-64:/home$ ls
bm DTLWC_D310A_linux_1.0.5VEL_140102.tar.gz
bm@bm-1210-64:/home$ sudo tar -xf DTLWC_D310A_linux_1.0.5VEL_140102.tar.gz
bm@bm-1210-64:/home$ ls
bm DTLWC_D310A_linux_1.0.5VEL_140102.tar.gz install.sh linux uninstall.sh

bm@bm-1210-64:/home$ sudo ./install.sh
Version=1.0.5VEL
Date=2014-01-02
Vendor=D-Link
Model=D310A
Description:
this is connection manger, you can use it to dial to internet.
continue to install(yes/no)?[yes]
get device info...
Mass Storage Vendor=0x2001
Mass Storage Product=0xa707
Vendor=0x2001
Product=0x7d02
check os support...
Linux release version:Ubuntu 12.10 \n \l

[OK]
check driver support...load usbserial driver...
[OK]
install usb serial driver...[OK]
udev rules file...[OK]
ppp config...[OK]
APN and dial script...[OK]
main app...[OK]
disable modem-manager service...[OK]
disable modem-manager service...[OK]
Installation Done!!
-----
Version=1.0.5VEL
Date=2014-01-02
Vendor=D-Link
Model=D310A
Description:
this is connection manger, you can use it to dial to internet.
-----
os need reboot now(yes/no)?[yes]no
```

The installations are finished when system prompts “Installation Done!!”.

Notice! Unplug the dongle after the installation immediately.

When both the device lock and PIN code are disabled, plug the dongle and it will connect to the internet automatically. The following steps are ignorable.

3. Connect to the Internet

3.1. Disable PIN of SIM card, If the SIM card already enabled the PIN, please disable it on the other OS first.

Then check the COM ports with command:

```
ls /dev/tty*
```

```
-----  
os need reboot now(yes/no)?[yes]no  
bm@bm-1210-64:/home$ ls /dev/tty*  
/dev/tty  /dev/tty24  /dev/tty40  /dev/tty57      /dev/ttyS14  /dev/ttyS30  
/dev/tty0  /dev/tty25  /dev/tty41  /dev/tty58      /dev/ttyS15  /dev/ttyS31  
/dev/tty1  /dev/tty26  /dev/tty42  /dev/tty59      /dev/ttyS16  /dev/ttyS4  
/dev/tty10 /dev/tty27  /dev/tty43  /dev/tty6      /dev/ttyS17  /dev/ttyS5  
/dev/tty11 /dev/tty28  /dev/tty44  /dev/tty60      /dev/ttyS18  /dev/ttyS6  
/dev/tty12 /dev/tty29  /dev/tty45  /dev/tty61      /dev/ttyS19  /dev/ttyS7  
/dev/tty13 /dev/tty3  /dev/tty46  /dev/tty62      /dev/ttyS2  /dev/ttyS8  
/dev/tty14 /dev/tty30  /dev/tty47  /dev/tty63      /dev/ttyS20  /dev/ttyS9  
/dev/tty15 /dev/tty31  /dev/tty48  /dev/tty7      /dev/ttyS21  /dev/ttyUSB0  
/dev/tty16 /dev/tty32  /dev/tty49  /dev/tty8      /dev/ttyS22  /dev/ttyUSB1  
/dev/tty17 /dev/tty33  /dev/tty5  /dev/tty9      /dev/ttyS23  /dev/ttyUSB2  
/dev/tty18 /dev/tty34  /dev/tty50  /dev/ttyprintk  /dev/ttyS24  /dev/ttyUSB3  
/dev/tty19 /dev/tty35  /dev/tty51  /dev/tty50      /dev/ttyS25  /dev/ttyUSB4  
/dev/tty2  /dev/tty36  /dev/tty52  /dev/tty51      /dev/ttyS26  
/dev/tty20 /dev/tty37  /dev/tty53  /dev/tty510     /dev/ttyS27  
/dev/tty21 /dev/tty38  /dev/tty54  /dev/tty511     /dev/ttyS28  
/dev/tty22 /dev/tty39  /dev/tty55  /dev/tty512     /dev/ttyS29  
/dev/tty23 /dev/tty4  /dev/tty56  /dev/tty513     /dev/ttyS3  
bm@bm-1210-64:/home$
```

If the COM ports appear as above, the switch succeeds.

3.2. Connect to the internet.

The software will connect to the internet automatically after the device is unlocked.

3.3. Check the internet connection

a) Using command:

```
ping www.dlink.ru 【Both URL and IP address are OK.】
```

```
bm@bm-1210-64:/home$ ping www.baidu.com  
PING www.a.shifen.com (61.135.169.105) 56(84) bytes of data.  
64 bytes from 61.135.169.105: icmp_req=1 ttl=54 time=159 ms  
64 bytes from 61.135.169.105: icmp_req=2 ttl=54 time=114 ms  
64 bytes from 61.135.169.105: icmp_req=3 ttl=54 time=84.5 ms
```

b) Surfing the internet with the browsers, such as Firefox.

4. Support versions

Support Ubuntu 0910-1310.

5. LED Defined

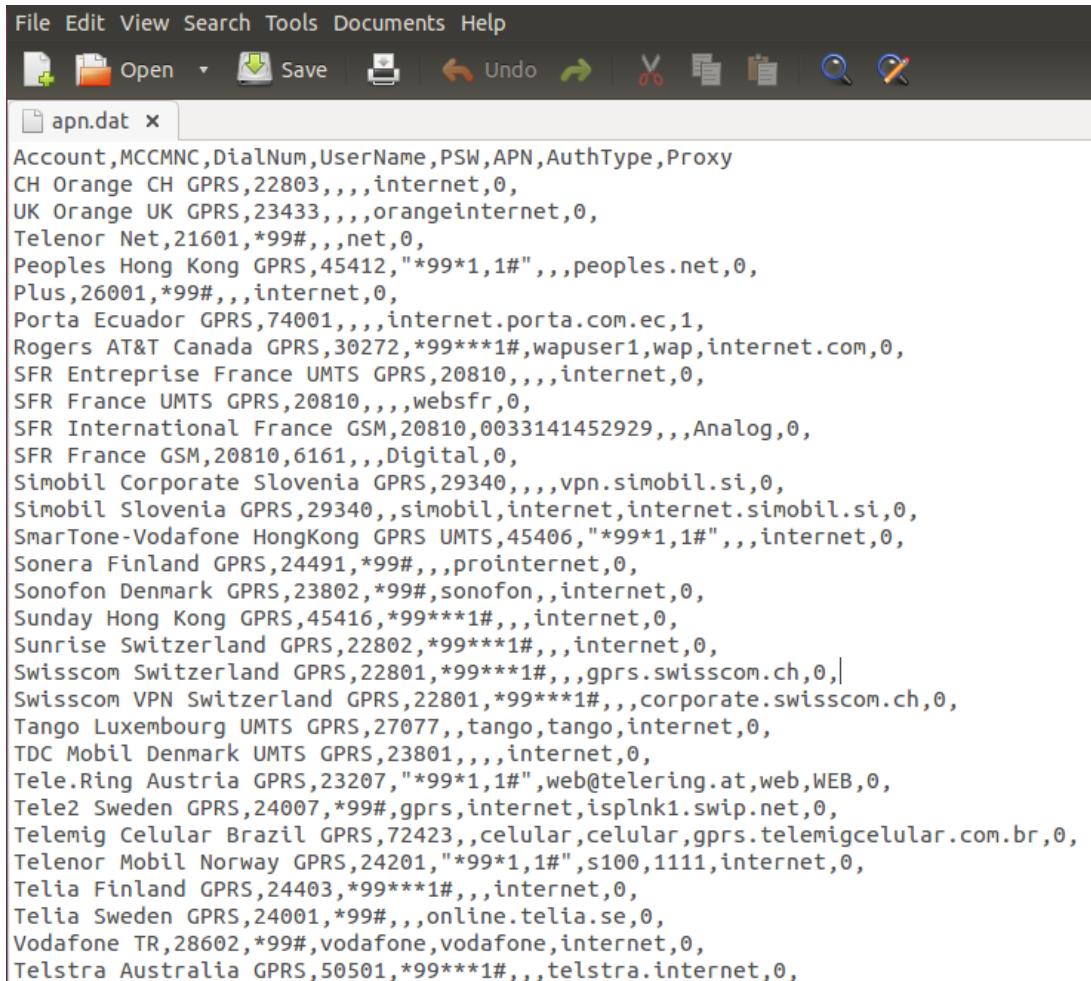
LED Indications	Data Card Working Status
Red Solid On	No SIM card/ Error
Green solid	Registration in network (not connected)
Green blinking (Flash once every 0.5 seconds per flash)	Connected to network

6. Switch APN

6.1. Open the APN list

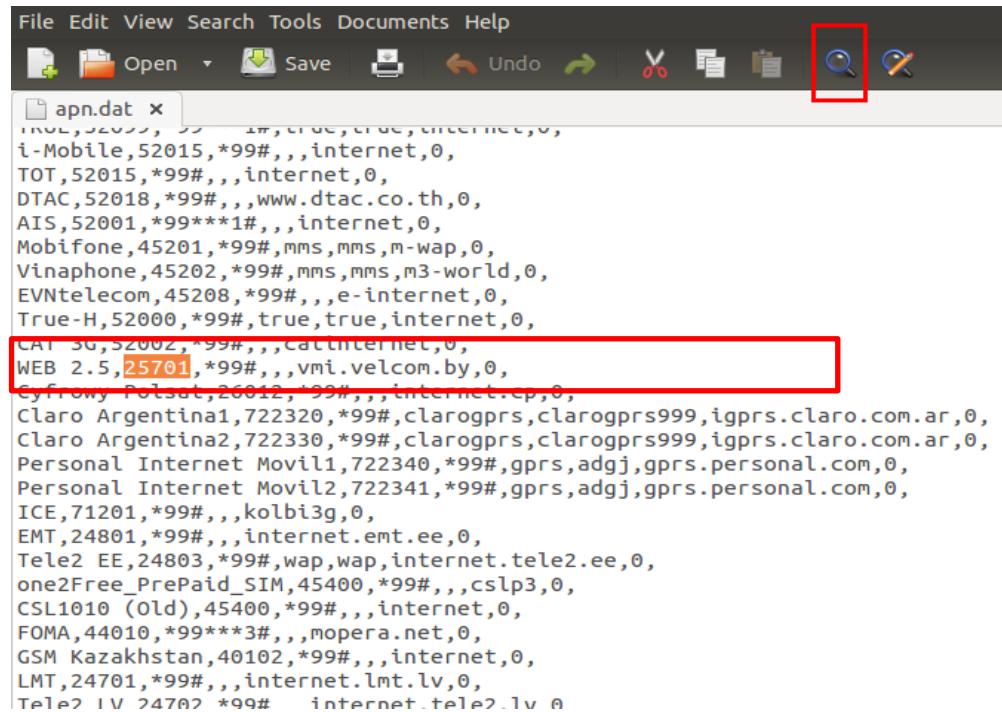
```
sudo gedit /etc/3g_modem_connection/apn.dat
```

```
os need reboot now(yes/no)?[yes]no  
bm@bm-1210-64:/home$ sudo gedit /etc/3g_modem_connection/apn.dat
```



```
File Edit View Search Tools Documents Help  
Open Save Undo Redo Cut Copy Paste Find Replace  
apn.dat x  
Account,MCCMNC,DialNum,UserName,PSW,APN,AuthType,Proxy  
CH Orange CH GPRS,22803,,,internet,0,  
UK Orange UK GPRS,23433,,,orangeinternet,0,  
Telenor Net,21601,*99#,,,net,0,  
Peoples Hong Kong GPRS,45412,"*99*1,1#",,,peoples.net,0,  
Plus,26001,*99#,,,internet,0,  
Porta Ecuador GPRS,74001,,,internet.porta.com.ec,1,  
Rogers AT&T Canada GPRS,30272,*99***1#,wapuser1,wap,internet.com,0,  
SFR Entreprise France UMTS GPRS,20810,,,internet,0,  
SFR France UMTS GPRS,20810,,,websfr,0,  
SFR International France GSM,20810,0033141452929,,,Analog,0,  
SFR France GSM,20810,6161,,,Digital,0,  
Simobil Corporate Slovenia GPRS,29340,,,vpn.simobil.si,0,  
Simobil Slovenia GPRS,29340,,simobil,internet,internet.simobil.si,0,  
Smartone-Vodafone HongKong GPRS UMTS 45406,"*99*1,1#",,,internet,0,  
Sonera Finland GPRS,24491,*99#,,,priointernet,0,  
Sonofon Denmark GPRS,23802,*99#,sonofon,,internet,0,  
Sunday Hong Kong GPRS,45416,*99***1#,,,internet,0,  
Sunrise Switzerland GPRS,22802,*99***1#,,,internet,0,  
Swisscom Switzerland GPRS,22801,*99***1#,,,gprs.swisscom.ch,0,|  
Swisscom VPN Switzerland GPRS,22801,*99***1#,,,corporate.swisscom.ch,0,  
Tango Luxembourg UMTS GPRS,27077,,tango,tango,internet,0,  
TDC Mobil Denmark UMTS GPRS,23801,,,internet,0,  
Tele.Ring Austria GPRS,23207,"*99*1,1#",web@telering.at,web,WEB,0,  
Tele2 Sweden GPRS,24007,*99#,gprs,internet,isplnk1.swip.net,0,  
Telemig Celular Brazil GPRS,72423,,celular,celular,gprs.telemigcelular.com.br,0,  
Telenor Mobil Norway GPRS,24201,"*99*1,1#",s100,1111,internet,0,  
Telia Finland GPRS,24403,*99***1#,,,internet,0,  
Telia Sweden GPRS,24001,*99#,,,online.telia.se,0,  
Vodafone TR,28602,*99#,vodafone,vodafone,internet,0,  
Telstra Australia GPRS,50501,*99***1#,,,telstra.internet,0,
```

6.2. Find APN of velcom.

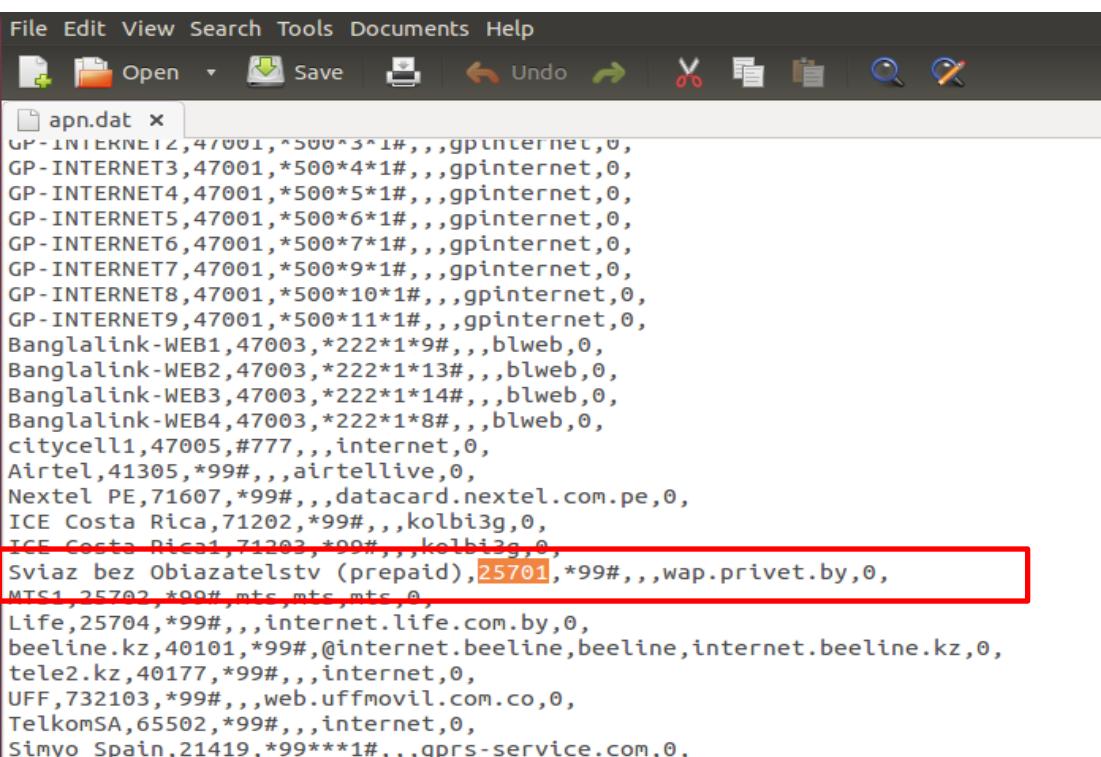


```
File Edit View Search Tools Documents Help  
Open Save Undo Redo Cut Copy Paste Find Replace  
apn.dat x  
VELCOM,52005,,true,true,internet,0,  
i-Mobile,52015,*99#,,,internet,0,  
TOT,52015,*99#,,,internet,0,  
DTAC,52018,*99#,,,www.dtac.co.th,0,  
AIS,52001,*99***1#,,,internet,0,  
Mobifone,45201,*99#,mms,mms,m-wap,0,  
Vinaphone,45202,*99#,mms,mms,m3-world,0,  
EVNtelecom,45208,*99#,,,e-internet,0,  
True-H,52000,*99#,true,true,internet,0,  
CAT 3G,52002,*99#,,,CatInternet,0,  
WEB 2.5,25701,*99#,,,vni.velcom.by,0,  
Syfrowy Polsat,26012,*99#,,,internet.dp,0,  
Claro Argentina1,722320,*99#,clarogprs,clarogprs999,igprs.claro.com.ar,0,  
Claro Argentina2,722330,*99#,clarogprs,clarogprs999,igprs.claro.com.ar,0,  
Personal Internet Movil1,722340,*99#,gprs,adgj,gprs.personal.com,0,  
Personal Internet Movil2,722341,*99#,gprs,adgj,gprs.personal.com,0,  
ICE,71201,*99#,,,kolbi3g,0,  
EMT,24801,*99#,,,internet.emt.ee,0,  
Tele2 EE,24803,*99#,wap,wap,internet.tele2.ee,0,  
one2Free_Prepaid_SIM,45400,*99#,,,cslp3,0,  
CSL1010 (Old),45400,*99#,,,internet,0,  
FOMA,44010,*99***3#,,,mopera.net,0,  
GSM Kazakhstan,40102,*99#,,,internet,0,  
LMT,24701,*99#,,,internet.lmt.lv,0,  
Tele2 LV 24702 *99# internet.tele2.lv 0
```

6.3. You should change line WEB 2.5,25701,*99#,,vmi.velcom.by,0,

```
CAT 3G,52002,*99#,,catinternet,0,  
WEB 2.5,25701,*99#,,vmi.velcom.by,0,  
Cyfrowy Polsat,26012,*99#,,internet.cp,0,
```

for "Sviaz bez Obiasatelstv,25701,*99#,,wap.privet.by,0,"



```
File Edit View Search Tools Documents Help  
Open Save Undo Redo Cut Copy Find Replace  
apn.dat x  
GP-INTERNET1,47001,*500*3*1#,,gpinternet,0,  
GP-INTERNET3,47001,*500*4*1#,,gpinternet,0,  
GP-INTERNET4,47001,*500*5*1#,,gpinternet,0,  
GP-INTERNET5,47001,*500*6*1#,,gpinternet,0,  
GP-INTERNET6,47001,*500*7*1#,,gpinternet,0,  
GP-INTERNET7,47001,*500*9*1#,,gpinternet,0,  
GP-INTERNET8,47001,*500*10*1#,,gpinternet,0,  
GP-INTERNET9,47001,*500*11*1#,,gpinternet,0,  
Banglalink-WEB1,47003,*222*1*9#,,blweb,0,  
Banglalink-WEB2,47003,*222*1*13#,,blweb,0,  
Banglalink-WEB3,47003,*222*1*14#,,blweb,0,  
Banglalink-WEB4,47003,*222*1*8#,,blweb,0,  
citycell1,47005,#777,,internet,0,  
Airtel,41305,*99#,,airtellive,0,  
Nextel PE,71607,*99#,,datacard.nextel.com.pe,0,  
ICE Costa Rica,71202,*99#,,kolbi3g,0,  
ICE Costa Rica1,71203,*99#,,kolbi3g,0  
Sviaz bez Obiazatelstv (prepaid),25701,*99#,,wap.privet.by,0,  
MTS1,25702,*99#,mtc,mtc,mtc,0,  
Life,25704,*99#,,internet.life.com.by,0,  
beeline.kz,40101,*99#@internet.beeline,beeline,internet.beeline.kz,0,  
tele2.kz,40177,*99#,,internet,0,  
UFF,732103,*99#,,web.uffmovil.com.co,0,  
TelkomSA,65502,*99#,,internet,0,  
Simyo Spain,21419,*99***1#,,gprs-service.com,0,
```

6.4. Save Changes

Save this changes. Push the "Save" button  Save, or close the application and accept the changes.

6.5. Unplug and Plug the dongle and it will connect to the Internet automatically with the new APN.