

## X.USB Linux Driver Installation

In this document, it will guide you install linux driver step by step in Fedora 8. However, the linux kernel is various. If it occurs error when install, please surf on the internet according to the message got from linux.

Platform : Fedora 8

Please follow the steps to install X.USB Linux Driver:

1. Please input root account and password to login.

```
Fedora release 8 (Werewolf)
Kernel 2.6.23.1-42.fc8 on an i686

localhost login: root
Password: _
```

2. Check whether the following rpm has been installed. If not, please install the rpm via CD or network update.

- kernel-devel-2.6.23.1-42.fc8.i686.rpm (Please note that if the kernel version is i586, please install kernel-devel-2.6.23.1-42.fc8.i586.rpm. Or it might cause unexpected situation)
- kernel-headers-2.6.23.1-42.fc8.i386.rpm
- glibc-headers-2.7-2.i386.rpm
- glibc-devel-2.7-2.i386.rpm
- gcc-4.1.2-33.i386.rpm

3. Copy srcOtusLinux\_3\_2\_0\_29.tgz to /opt, and execute the following instruction to decompress the file

Instruction: tar vxzf /opt/srcOtusLinux\_3\_2\_0\_29.tgz

4. Change directory to /opt/srcOtusLinux\_3\_2\_0\_29/OAL/Otus/Linux

Instruction: cd /var/opt /srcOtusLinux\_3\_2\_0\_29/OAL/Otus/Linux

5. Compile and install the driver

Instruction: make;make install

6. Please install X.USB to PC, and Linux will detect X.USB automatically. You can check whether the model has been loaded successfully by the following command. If it shows arusb\_lnx, the X.USB driver has been loaded successfully.

Instruction: lsmod,

```
[root@host Linux]# lsmod
Module                Size  Used by
arusb_lnx             446088  0
sit                   12069   0
tunnel4               6857    1 sit
loop                  16581   0
dm_mirror              21697   0
dm_multipath          18249   0
dm_mod                 46465   2 dm_mirror,dm_multipath
ipv6                   245989  13 sit
```

7. If linux does not load the driver automatically, please input the following instruction and check again using step 6

Instruction: modprobe -v arusb\_lnx

8. While executing the following instruction, it will show the network card device recognized by linux. If it lists ath0, it means X.USB has been recognized by linux.

Instruction: ifconfig -a

```
ath0      Link encap:Ethernet  HWaddr 00:00:00:00:00:00
          BROADCAST MULTICAST  MTU:1500  Metric:1
          RX packets:0 errors:0 dropped:0 overruns:0 frame:0
          TX packets:0 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:0 (0.0 b)  TX bytes:0 (0.0 b)
```

9. Execute the following command to active X.USB

Instruction: ifconfig eth0 up,

10. By executing the command, X.USB will survey the wireless access point in the environment. There is more instruction in the document AR9001U\_User\_Guide\_1\_1.pdf.

Instruction: iwlist ath0 scan.

```
[root@localhost ~]# iwlist ath0 scan
ath0      Scan completed :
          Cell 01 - Address: 00:18:E7:11:43:FC
            ESSID:"Coolnet-antivirus"
            Mode:Master
            Frequency:2.422 GHz (Channel 3)
            Quality=74/100  Signal level=37/154  Noise level=0/154
            Encryption key:on
            Bit Rates:1 Mb/s; 2 Mb/s; 5.5 Mb/s; 11 Mb/s; 6 Mb/s
                    12 Mb/s; 24 Mb/s; 36 Mb/s; 9 Mb/s; 18 Mb/s
                    48 Mb/s; 54 Mb/s
            Extra:bcn_int=100
            Extra:rsn_ie=30140100000fac040100000fac040100000fac020100
```