

AX300无线网卡驱动安装教程

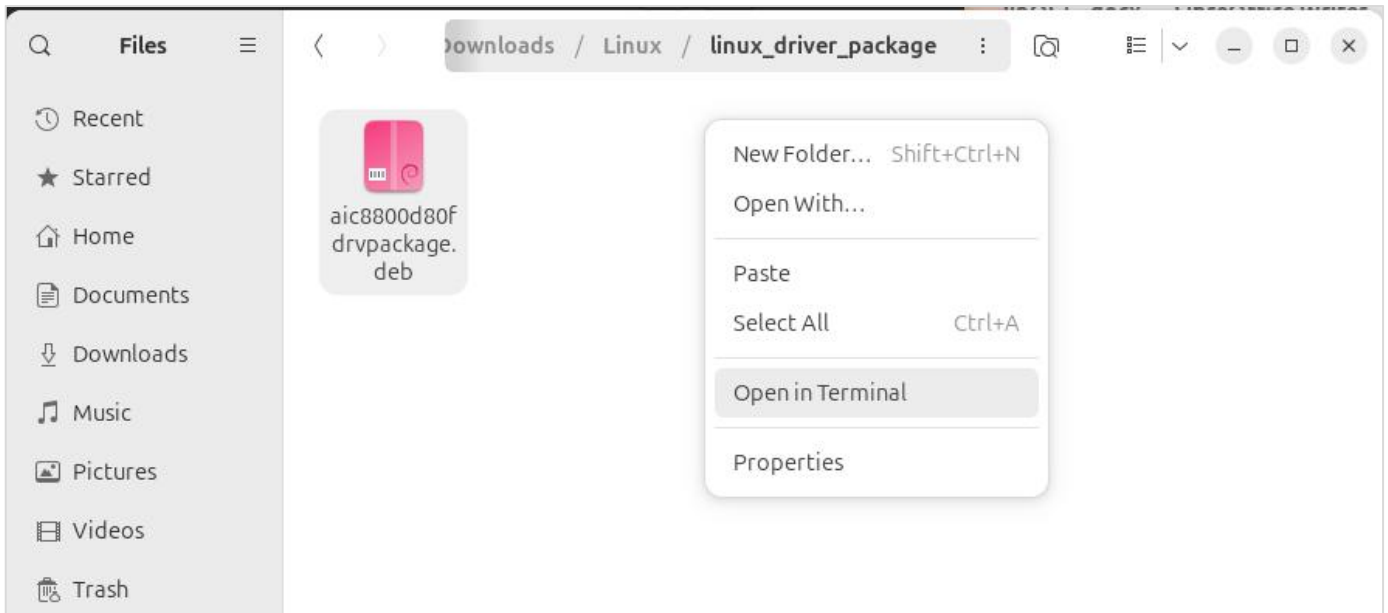
一、适用系统

Ubuntu、Debian、UOS、麒麟KylinOS。

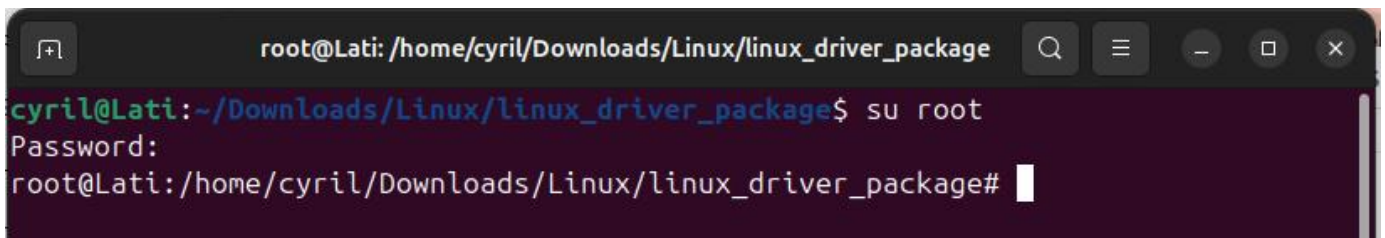
二、安装驱动程序

1、不要把网卡连接在电脑上。

将下载的驱动程序解压后打开linux_driver_package文件夹，鼠标右击空白的地方，选择“Open in Terminal”。



2、输入su root命令，再输入root用户密码，切换到root用户。



3、如果不是虚拟机，请跳过这一步。

如果是虚拟机，需要先输入modprobe cfg80211命令，再往下安装驱动。

4、安装 build-essential 包。

输入apt-get update命令，更新系统配置。

```
root@Lati: /home/cyril/Downloads/Linux/linux_driver_package
root@Lati:/home/cyril/Downloads/Linux/linux_driver_package# apt-get update
Hit:1 http://archive.ubuntu.com/ubuntu noble InRelease
Get:2 http://security.ubuntu.com/ubuntu noble-security InRelease [126 kB]
Get:3 http://archive.ubuntu.com/ubuntu noble-updates InRelease [126 kB]
Get:4 http://security.ubuntu.com/ubuntu noble-security/main amd64 Components [7,152 B]
Get:5 http://archive.ubuntu.com/ubuntu noble-backports InRelease [126 kB]
Get:6 http://security.ubuntu.com/ubuntu noble-security/restricted amd64 Components [212 B]
```

输入`apt-get install build-essential`命令，安装`build-essential`包。

```
root@Lati: /home/cyril/Downloads/Linux/linux_driver_package
root@Lati:/home/cyril/Downloads/Linux/linux_driver_package# apt-get install build-essential
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
build-essential is already the newest version (12.10ubuntu1).
The following packages were automatically installed and are no longer required:
 fonts-tuffy gir1.2-ayatanaappindicator3-0.1 gir1.2-goocanvas-2.0 grim
 libarchive-zip-perl libcarp-always-perl libcgi-fast-perl libcgi-pm-perl
 libclass-accessor-perl libclass-data-inheritable-perl libcommon-sense-perl
```

```
root@Lati: /home/cyril/Downloads/Linux/linux_driver_package
libkimageannotator0 libmd4c0 libmime-charset-perl libnet-dbus-glib-perl
libnet-oauth-perl libnumber-bytes-human-perl libpango-perl
libpath-class-perl libpcre2-16-0 libproc-processtable-perl
libproc-simple-perl libqt5core5t64 libqt5dbus5t64 libqt5gui5t64
libqt5network5t64 libqt5printsupport5t64 libqt5qml5 libqt5qmlmodels5
libqt5quick5 libqt5svg5 libqt5waylandclient5 libqt5waylandcompositor5
libqt5widgets5t64 libqt5x11extras5 libqt5xml5t64 libreadonly-perl libsombok3
libsort-naturally-perl libtypes-serialiser-perl libunicode-linebreak-perl
libwww-mechanize-perl libx11-protocol-other-perl libxcb-xinerama0
libxcb-xinput0 libxml-simple-perl qt5-gtk-platformtheme qttranslations5-l10n
qtwayland5
Use 'apt autoremove' to remove them.
0 upgraded, 0 newly installed, 0 to remove and 231 not upgraded.
1 not fully installed or removed.
After this operation, 0 B of additional disk space will be used.
Do you want to continue? [Y/n] Y
```

4、输入`dpkg -i aic8800fdrvpackage.deb`命令，开始自行安装驱动。


```
root@Lati: /home/cyril/Downloads/Linux/linux_driver_package
root@Lati:/home/cyril/Downloads/Linux/linux_driver_package# dpkg -i aic8800fdrvpackage.deb
Selecting previously unselected package aic8800fdrvpackage.
(Reading database ... 175341 files and directories currently installed.)
Preparing to unpack aic8800fdrvpackage.deb ...
Install aic8800 wifi driver!!!!
Unpacking aic8800fdrvpackage (1.0.6) ...
Setting up aic8800fdrvpackage (1.0.6) ...
udev done
device not exist
cp fw done
x86_64
make -C /lib/modules/6.8.0-41-generic/build M=/AIC8800/drivers/aic8800 ARCH=x86_64 CROSS_COMPILE= modules
make[1]: Entering directory '/usr/src/linux-headers-6.8.0-41-generic'
```

```
root@Lati: /home/cyril/Downloads/Linux/linux_driver_package
make[1]: Leaving directory '/usr/src/linux-headers-6.8.0-41-generic'
mkdir -p /lib/modules/6.8.0-41-generic/kernel/drivers/net/wireless/aic8800
install -p -m 644 aic_load_fw/aic_load_fw.ko /lib/modules/6.8.0-41-generic/kernel/drivers/net/wireless/aic8800/
install -p -m 644 aic8800_fdrv/aic8800_fdrv.ko /lib/modules/6.8.0-41-generic/kernel/drivers/net/wireless/aic8800/
/sbin/depmod -a 6.8.0-41-generic
insmod done
gcc -c wifi_test.c -o wifi_test.o
gcc wifi_test.o -o wifi_test
gcc -c bt_test.c -o bt_test.o
gcc bt_test.o -lpthread -o bt_test
sudo cp wifi_test /sbin
sudo cp bt_test /sbin
Install aic8800 wifi driver successful!!!!
root@Lati:/home/cyril/Downloads/Linux/linux_driver_package#
```

三、使用网卡

- 1、把网卡连接到PC上。

输入lsmod | grep aic命令，查看驱动是否运行起来。

```
root@Lati: /home/cyril/Downloads/Linux/aic8800_linux_drvier/drivers/aic8800
root@Lati:/home/cyril/Downloads/Linux/aic8800_linux_drvier/drivers/aic8800# lsmod | grep aic
aic8800_fdrv          593920  0
aic_load_fw          77824   1 aic8800_fdrv
cfg80211             1323008  4 iwlmvm,iwlwifi,mac80211,aic8800_fdrv
root@Lati:/home/cyril/Downloads/Linux/aic8800_linux_drvier/drivers/aic8800#
```

2、可以使用ifconfig 确认网卡是否加载成功。如果有对应的网卡设备，说明加载成功，可以在wifi连接界面连接路由器。

```
root@Lati: /home/cyril/Downloads/Linux/aic8800_linux_drvier/drivers/aic8800
root@Lati:/home/cyril/Downloads/Linux/aic8800_linux_drvier/drivers/aic8800# ifconfig
eno2: flags=4099<UP,BROADCAST,MULTICAST> mtu 1500
    ether 74:78:27:7c:ad:56 txqueuelen 1000 (Ethernet)
    RX packets 0 bytes 0 (0.0 B)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 0 bytes 0 (0.0 B)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
    device interrupt 16 memory 0xcc300000-cc320000

lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
    inet 127.0.0.1 netmask 255.0.0.0
    inet6 ::1 prefixlen 128 scopeid 0x10<host>
    loop txqueuelen 1000 (Local Loopback)
    RX packets 10417 bytes 826250 (826.2 KB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 10417 bytes 826250 (826.2 KB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

wlo1: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 192.168.2.148 netmask 255.255.255.0 broadcast 192.168.2.255
    inet6 fe80::d283:ab7e:83ba:1e06 prefixlen 64 scopeid 0x20<link>
    ether 50:2f:9b:e1:ba:e0 txqueuelen 1000 (Ethernet)
    RX packets 127706 bytes 105351953 (105.3 MB)
    RX errors 0 dropped 178 overruns 0 frame 0
    TX packets 164982 bytes 22096107 (22.0 MB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

wlx8820a69c1234: flags=4099<UP,BROADCAST,MULTICAST> mtu 1500
    ether 88:20:a6:9c:12:34 txqueuelen 1000 (Ethernet)
    RX packets 0 bytes 0 (0.0 B)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 0 bytes 0 (0.0 B)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

root@Lati:/home/cyril/Downloads/Linux/aic8800_linux_drvier/drivers/aic8800#
```

四、卸载驱动程序

如果不需要再使用网卡，可以将这台电脑上安装的网卡驱动程序卸载掉，具体操作步骤如下：

输入dpkg -r aic8800fdrvpackage命令，卸载网卡驱动程序。


```
root@Lati:/home/cyril/Downloads/Linux/linux_driver_package# dpkg -r aic8800fdrvpackage
(Reading database ... 175483 files and directories currently installed.)
Removing aic8800fdrvpackage (1.0.6) ...
Uninstall aic8800 wifi driver!!!!
/bin/sh: 1: test: -lt: unexpected operator
rm -rf *.o *.ko *.o.* *.mod.* modules.* Module.* .a* .o* *.o.* *.mod .tmp* .cache.mk
/bin/sh: 1: test: -lt: unexpected operator
rm -rfv /lib/modules/6.8.0-41-generic/kernel/drivers/net/wireless/aic8800/aic8800_fdrv.ko
removed '/lib/modules/6.8.0-41-generic/kernel/drivers/net/wireless/aic8800/aic8800_fdrv.ko'
/sbin/depmod -a 6.8.0-41-generic
rm -rf *.o *.ko *.o.* *.mod.* modules.* Module.* .a* .o* *.o.* *.mod .tmp* .cache.mk
rm -rfv /lib/modules/6.8.0-41-generic/kernel/drivers/net/wireless/aic8800/aic_load_fw.ko
removed '/lib/modules/6.8.0-41-generic/kernel/drivers/net/wireless/aic8800/aic_load_fw.ko'
/sbin/depmod -a 6.8.0-41-generic
rm *.o wifi_test bt_test
rm: cannot remove '*.o': No such file or directory
rm: cannot remove 'wifi_test': No such file or directory
rm: cannot remove 'bt_test': No such file or directory
make: *** [Makefile:19: clean] Error 1
Uninstall aic8800 wifi driver successful!!!!
root@Lati:/home/cyril/Downloads/Linux/linux_driver_package#
```