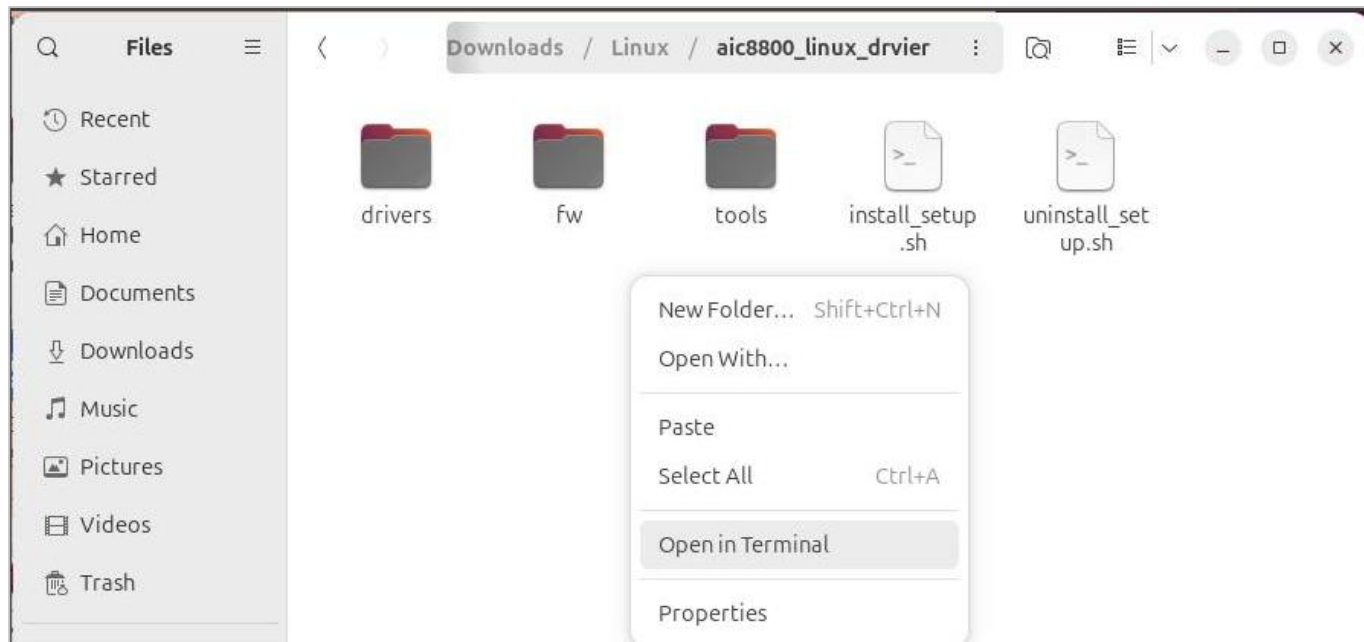


## 一、安装驱动程序

- 1、切记不要把网卡连接在电脑上。
- 2、将下载的驱动解压后打开 `aic8800_linux_driver` 文件夹，鼠标右击空白的地方，选择“Open in Terminal”，如下图



- 3、输入 `su root` 命令，切换到root用户，此时需要输入root用户对应的密码。

```
ugreen@Leg7000:~/Downloads/WirelessAdapter/Linux/aic8800_linux_driver$ su root
Password:
root@Leg7000:/home/ugreen/Downloads/WirelessAdapter/Linux/aic8800_linux_driver#
```

- 4、输入 `sh install_setup.sh` 命令，如下图。

```
root@Leg7000:/home/ugreen/Downloads/WirelessAdapter/Linux/aic8800_linux_driver# sh install_setup.sh
#####
AIC Wi-Fi driver Setup Files script
2023.03.09 v1.1.0
#####
Authentication requested [root] for setup:
install_setup.sh: 12: [: unexpected operator
#####
The Setup Script is completed !
#####
root@Leg7000:/home/ugreen/Downloads/WirelessAdapter/Linux/aic8800_linux_driver#
```

- 5、输入 `cd drivers/aic8800` 命令，切换目录。

```
root@Leg7000:/home/ugreen/Downloads/WirelessAdapter/Linux/aic8800_linux_driver# cd drivers/aic8800/
root@Leg7000:/home/ugreen/Downloads/WirelessAdapter/Linux/aic8800_linux_driver/drivers/aic8800#
```

- 6、输入 `make` 命令，编译生成网卡的驱动文件。

```

root@Leg7000:/home/ugreen/Downloads/WirelessAdapter/Linux/aic8800_linux_drvier/drivers/aic8800# make
make -C /lib/modules/6.14.0-22-generic/build M=/home/ugreen/Downloads/WirelessAdapter/Linux/aic8800_linux_drvier/drivers/aic8800 ARCH=x86_64 CROSS_COMPILE= modules
make[1]: Entering directory '/usr/src/linux-headers-6.14.0-22-generic'
make[2]: Entering directory '/home/ugreen/Downloads/WirelessAdapter/Linux/aic8800_linux_drvier/drivers/aic8800'
warning: the compiler differs from the one used to build the kernel
The kernel was built by: x86_64-linux-gnu-gcc-14 (Ubuntu 14.2.0-19ubuntu2) 14.2.0
You are using: gcc-14 (Ubuntu 14.2.0-19ubuntu2) 14.2.0
CC [M] aic_load_fw/aic_bluetooth_main.o
CC [M] aic8800_fdrv/rwnx_wakelock.o
CC [M] aic_load_fw/aicbluetooth.o
CC [M] aic8800_fdrv/rwnx_msg_tx.o

LD [M] aic8800_fdrv/aic8800_fdrv.o
MODPOST Module.symvers
CC [M] aic_load_fw/aic_load_fw.mod.o
CC [M] .module-common.o
CC [M] aic8800_fdrv/aic8800_fdrv.mod.o
LD [M] aic_load_fw/aic_load_fw.ko
LD [M] aic8800_fdrv/aic8800_fdrv.ko
BTF [M] aic_load_fw/aic_load_fw.ko
Skipping BTF generation for aic_load_fw/aic_load_fw.ko due to unavailability of vmlinux
BTF [M] aic8800_fdrv/aic8800_fdrv.ko
Skipping BTF generation for aic8800_fdrv/aic8800_fdrv.ko due to unavailability of vmlinux
make[2]: Leaving directory '/home/ugreen/Downloads/WirelessAdapter/Linux/aic8800_linux_drvier/drivers/aic8800'
make[1]: Leaving directory '/usr/src/linux-headers-6.14.0-22-generic'
root@Leg7000:/home/ugreen/Downloads/WirelessAdapter/Linux/aic8800_linux_drvier/drivers/aic8800#

```

7、输入 `ls aic_load_fw/aic_load_fw.ko` 命令，检查是否生成 `aic_load_fw.ko` 驱动文件，如下图

```

root@Leg7000:/home/ugreen/Downloads/WirelessAdapter/Linux/aic8800_linux_drvier/drivers/aic8800# ls aic_load_fw/aic_load_fw.ko
aic_load_fw/aic_load_fw.ko
root@Leg7000:/home/ugreen/Downloads/WirelessAdapter/Linux/aic8800_linux_drvier/drivers/aic8800#

```

输入 `ls aic8800_fdrv/aic8800_fdrv.ko` 命令，检查是否生成 `aic8800_fdrv.ko` 驱动文件。

```

root@Leg7000:/home/ugreen/Downloads/WirelessAdapter/Linux/aic8800_linux_drvier/drivers/aic8800# ls aic8800_fdrv/aic8800_fdrv.ko
aic8800_fdrv/aic8800_fdrv.ko
root@Leg7000:/home/ugreen/Downloads/WirelessAdapter/Linux/aic8800_linux_drvier/drivers/aic8800#

```

8、输入 `make install` 命令，安装网卡驱动程序。

```

root@Leg7000:/home/ugreen/Downloads/WirelessAdapter/Linux/aic8800_linux_drvier/drivers/aic8800# make install
mkdir -p /lib/modules/6.14.0-22-generic/kernel/drivers/net/wireless/aic8800
install -p -m 644 aic_load_fw/aic_load_fw.ko /lib/modules/6.14.0-22-generic/kernel/drivers/net/wireless/aic8800/
install -p -m 644 aic8800_fdrv/aic8800_fdrv.ko /lib/modules/6.14.0-22-generic/kernel/drivers/net/wireless/aic8800/
/sbin/depmod -a 6.14.0-22-generic
root@Leg7000:/home/ugreen/Downloads/WirelessAdapter/Linux/aic8800_linux_drvier/drivers/aic8800#

```

9、输入 `modprobe cfg80211` 命令，将内核中的WiFi模块运行起来。

```

root@Leg7000:/home/ugreen/Downloads/WirelessAdapter/Linux/aic8800_linux_drvier/drivers/aic8800# modprobe cfg80211
root@Leg7000:/home/ugreen/Downloads/WirelessAdapter/Linux/aic8800_linux_drvier/drivers/aic8800#

```

输入 `modprobe aic_load_fw` 命令，将网卡驱动运行起来。

```

root@Leg7000:/home/ugreen/Downloads/WirelessAdapter/Linux/aic8800_linux_drvier/drivers/aic8800# modprobe aic_load_fw
root@Leg7000:/home/ugreen/Downloads/WirelessAdapter/Linux/aic8800_linux_drvier/drivers/aic8800#

```

输入 `modprobe aic8800_fdrv` 命令，将网卡驱动运行起来。

```

root@Leg7000:/home/ugreen/Downloads/WirelessAdapter/Linux/aic8800_linux_drvier/drivers/aic8800# modprobe aic8800_fdrv
root@Leg7000:/home/ugreen/Downloads/WirelessAdapter/Linux/aic8800_linux_drvier/drivers/aic8800#

```

10、输入 `lsmod | grep aic` 命令，查看驱动是否运行起来。

```

root@Leg7000:/home/ugreen/Downloads/WirelessAdapter/Linux/aic8800_linux_drvier/drivers/aic8800# lsmod | grep aic
aic8800_fdrv          720896  0
aic_load_fw          98304  1 aic8800_fdrv
cfg80211             1437696  3 rtw88_core,mac80211,aic8800_fdrv
root@Leg7000:/home/ugreen/Downloads/WirelessAdapter/Linux/aic8800_linux_drvier/drivers/aic8800#

```

## 二、使用网卡

1、把网卡连接到电脑上，输入命令ifconfig 查看网卡是否被Linux系统识别到。以w开头的名称代表无线网卡，如下图。也可以将网卡拔掉后输入ifconfig命令，再插上后输入ifconfig命令，通过对比锁定无线网卡。

```
root@Leg7000:/home/ugreen/Downloads/WirelessAdapter/Linux/aic8800_linux_drvier/drivers/aic8800# ifconfig
enp8s0: flags=4099<UP,BROADCAST,MULTICAST> mtu 1500
    ether e8:6a:64:71:cd:da 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

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 80315990 bytes 4016178597 (4.0 GB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 80315990 bytes 4016178597 (4.0 GB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

wlp7s0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 192.168.10.26 netmask 255.255.255.0 broadcast 192.168.10.255
    inet6 fe80::761c:f899:1c1c:a60c prefixlen 64 scopeid 0x20<link>
    ether 28:3a:4d:3b:25:41 txqueuelen 1000 (Ethernet)
    RX packets 139318 bytes 150393060 (150.3 MB)
    RX errors 0 dropped 2412 overruns 0 frame 0
    TX packets 105051 bytes 16732112 (16.7 MB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

wlx986ee827e715: flags=4099<UP,BROADCAST,MULTICAST> mtu 1500
    ether 98:6e:e8:27:e7:15 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@Leg7000:/home/ugreen/Downloads/WirelessAdapter/Linux/aic8800_linux_drvier/drivers/aic8800#
```

如果正常识别到网卡，可以搜索并连接WiFi网络后使用。

图形化界面，可以在设置中WiFi位置找到网卡，搜索并连接WiFi网络后使用。

## 三、卸载驱动

如果不需要再在这台电脑上使用网卡，可以按照如下步骤将驱动程序卸载掉。

1、切换到aic8800\_linux\_driver/drivers/aic8800目录下，输入 make uninstall 命令。

```
root@Leg7000:/home/ugreen/Downloads/WirelessAdapter/Linux/aic8800_linux_drvier/drivers/aic8800# make uninstall
rm -rfv /lib/modules/6.14.0-22-generic/kernel/drivers/net/wireless/aic8800/aic_load_fw.ko
removed '/lib/modules/6.14.0-22-generic/kernel/drivers/net/wireless/aic8800/aic_load_fw.ko'
rm -rfv /lib/modules/6.14.0-22-generic/kernel/drivers/net/wireless/aic8800/aic8800_fdrv.ko
removed '/lib/modules/6.14.0-22-generic/kernel/drivers/net/wireless/aic8800/aic8800_fdrv.ko'
/sbin/depmod -a 6.14.0-22-generic
root@Leg7000:/home/ugreen/Downloads/WirelessAdapter/Linux/aic8800_linux_drvier/drivers/aic8800#
```

2、再切换到aic8800\_linux\_driver目录下，输入 sh uninstall\_setup.sh 命令

```
root@Leg7000:/home/ugreen/Downloads/WirelessAdapter/Linux/aic8800_linux_drvier# sh uninstall_setup.sh
Clean aic8800 wifi driver setup files!
Authentication requested [root] for clean:
uninstall_setup.sh: 7: [: unexpected operator
The Uninstall Setup Script is completed!
root@Leg7000:/home/ugreen/Downloads/WirelessAdapter/Linux/aic8800_linux_drvier#
```