

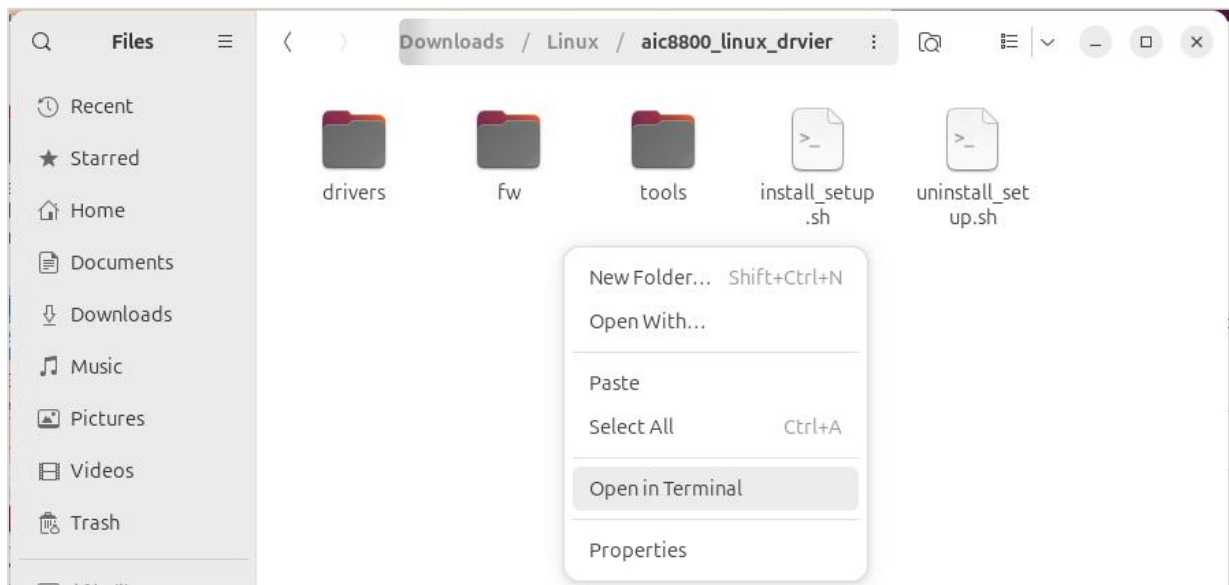
AX300 无线网卡驱动安装教程

一、安装驱动程序

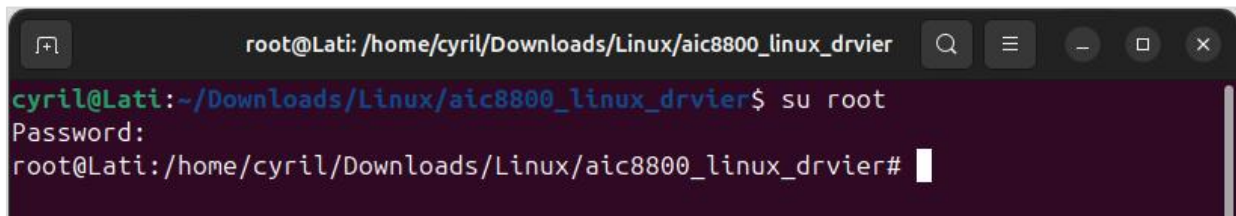
1、准备工作

不要把网卡连接在电脑上。

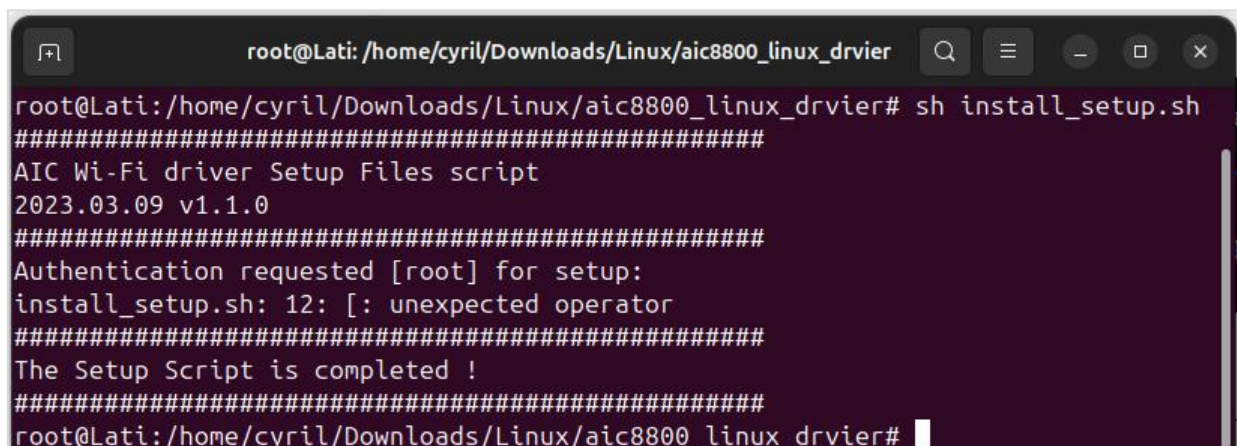
将下载的驱动解压后打开 aic8800_linux_driver 文件夹，鼠标右击空白的地方，选择 “Open in Terminal” 。



输入 `su root` 命令，再输入 root 用户的登录密码，切换到 root 用户。



输入 `sh install_setup.sh` 命令，如下：



2、编译驱动

输入 `cd drivers/aic8800/` 命令，切换到 `drivers/aic8800` 目录下。

```
root@Lati: /home/cyiril/Downloads/Linux/aic8800_linux_drvier/drivers/aic...
root@Lati:/home/cyiril/Downloads/Linux/aic8800_linux_drvier# cd drivers/aic8800/
root@Lati:/home/cyiril/Downloads/Linux/aic8800_linux_drvier/drivers/aic8800#
```

输入 `make` 命令，开始编译驱动，等待自行编译完成。

```
root@Lati: /home/cyiril/Downloads/Linux/aic8800_linux_drvier/drivers/aic8800
root@Lati:/home/cyiril/Downloads/Linux/aic8800_linux_drvier/drivers/aic8800# make
make -C /lib/modules/6.8.0-41-generic/build M=/home/cyiril/Downloads/Linux/aic8800_linux_drvier/drivers/aic8800 ARCH=x86_64 CROSS_COMPILE= modules
make[1]: warning: jobserver unavailable: using -j1. Add '+' to parent make rule.
make[1]: Entering directory '/usr/src/linux-headers-6.8.0-41-generic'
warning: the compiler differs from the one used to build the kernel
The kernel was built by: x86_64-linux-gnu-gcc-13 (Ubuntu 13.2.0-23ubuntu4) 13.2.0
You are using: gcc-13 (Ubuntu 13.2.0-23ubuntu4) 13.2.0
make[4]: warning: -j8 forced in makefile: resetting jobserver mode.
CC [M] /home/cyiril/Downloads/Linux/aic8800_linux_drvier/drivers/aic8800/aic_load_fw/aic_bluetooth_main.o
```

输入 `ls aic_load_fw/aic_load_fw.ko` 命令

输入 `ls aic8800_fdrv/aic8800_fdrv.ko` 命令

检查是否有生成 `aic_load_fw.ko` 以及 `aic8800_fdrv.ko`。

```
root@Lati: /home/cyiril/Downloads/Linux/aic8800_linux_drvier/drivers/aic8800
root@Lati:/home/cyiril/Downloads/Linux/aic8800_linux_drvier/drivers/aic8800# ls aic_load_fw/aic_load_fw.ko
aic_load_fw/aic_load_fw.ko
root@Lati:/home/cyiril/Downloads/Linux/aic8800_linux_drvier/drivers/aic8800# ls aic8800_fdrv/aic8800_fdrv.ko
aic8800_fdrv/aic8800_fdrv.ko
root@Lati:/home/cyiril/Downloads/Linux/aic8800_linux_drvier/drivers/aic8800#
```

3、加载驱动

输入 `make install` 命令，加载驱动。

```
root@Lati: /home/cyiril/Downloads/Linux/aic8800_linux_drvier/drivers/aic8800
root@Lati:/home/cyiril/Downloads/Linux/aic8800_linux_drvier/drivers/aic8800# make install
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
root@Lati:/home/cyiril/Downloads/Linux/aic8800_linux_drvier/drivers/aic8800#
```

如果不是虚拟机，请跳过下面这一步。

如果是虚拟机，需要先输入 `modprobe cfg80211` 命令，再输入 `make install` 命令来加载驱动。

二、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、输入 `ifconfig` 命令 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，如下图，此时可以前往 WiFi 连接界面连接 WiFi 网络使用。

```
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#
```

三、卸载驱动

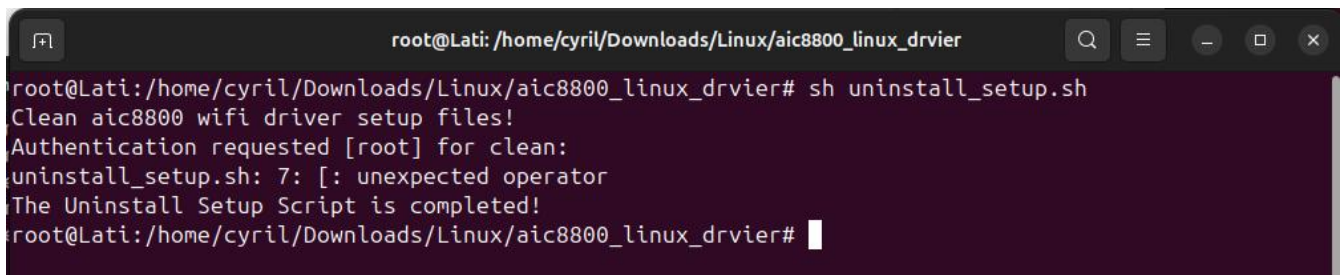
如果不需要再在这台电脑上使用网卡，可以按照如下步骤将驱动程序卸载掉。

- 1、打开 aic8800 文件夹，空白处右击打开终端，输入 `make uninstall` 命令。



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

- 2、打开 aic8800_linux_driver 文件夹，空白处右击打开终端，输入 `sh uninstall_setup.sh` 命令。



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