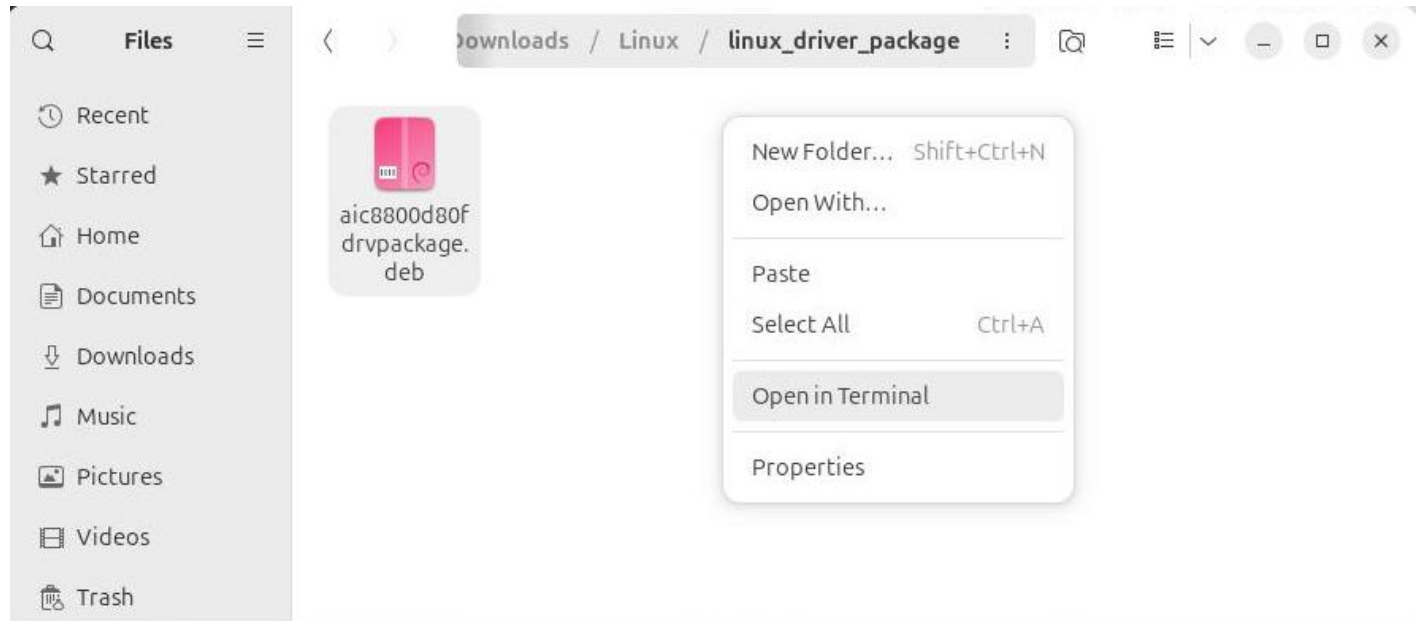# 一、适用系统

Ubuntu、Debain、UOS、麒麟Kylin。

二、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 linux_driver_package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。

4、将电脑连网，确认电脑能正常访问互联网。输入apt-get update 命令，更新系统。

输入 apt install build-essential 命令，安装build-essential系统软件包。

```
root@Leg7000:/home/ugreen/Downloads/WirelessAdapter/Linux/1inux_driver_package# apt install build-essential
build-essential is already the newest version (12.12ubuntu1).
The following package was automatically installed and is no longer required:
  grub-pc-bin
Use 'apt autoremove' to remove it.

Summary:
  Upgrading: 0, Installing: 0, Removing: 0, Not Upgrading: 1
root@Leg7000:/home/ugreen/Downloads/WirelessAdapter/Linux/1inux_driver_package#
```

5、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/1inux_driver_package# modprobe cfg80211
root@Leg7000:/home/ugreen/Downloads/WirelessAdapter/Linux/1inux_driver_package#
```

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

```
root@Leg7000:/home/ugreen/Downloads/WirelessAdapter/Linux/1inux_driver_package# dpkg -i aic8800fdrvpackage.deb
Selecting previously unselected package aic8800fdrvpackage.
(Reading database ... 207884 files and directories currently installed.)
Preparing to unpack aic8800fdrvpackage.deb ...
Install aic8800 wifi driver!!!!!
Unpacking aic8800fdrvpackage (1.0.9) ...
Setting up aic8800fdrvpackage (1.0.9) ...
udev done
device not exist
cp fw done
make -C /lib/modules/6.14.0-22-generic/build M=/AIC8800/drivers/aic8800 ARCH=x86_64 CROSS_COMPILE= modules
make[1]: Entering directory '/usr/src/1inux-headers-6.14.0-22-generic'
make[2]: Entering directory '/AIC8800/drivers/aic8800'
warning: the compiler differs from the one used to build the kernel
  The kernel was built by: x86_64-1inux-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
  CC [M]  aic_load_fw/aicwf_usb.o
  CC [M]  aic8800_fdrv/rwnx_msg_rx.o
  CC [M]  aic_load_fw/aic_txrxif.o
  CC [M]  aic8800_fdrv/rwnx_utils.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 '/AIC8800/drivers/aic8800'
make[1]: Leaving directory '/usr/src/1inux-headers-6.14.0-22-generic'
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
insmod: ERROR: could not insert module /AIC8800/drivers/aic8800/aic_load_fw/aic_load_fw.ko: File exists
insmode aic_load_fw failed, install aic8800 wifi driver failed
dpkg: error processing package aic8800fdrvpackage (--install):
 installed aic8800fdrvpackage package post-installation script subprocess returned error exit status 1
Errors were encountered while processing:
 aic8800fdrvpackage
root@Leg7000:/home/ugreen/Downloads/WirelessAdapter/Linux/1inux_driver_package#
```

三、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/1inux_driver_package# 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 859334866  bytes 42967387821 (42.9 GB)
        RX errors 0  dropped 0  overruns 0  frame 0
        TX packets 859334866  bytes 42967387821 (42.9 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 365038  bytes 260989758 (260.9 MB)
        RX errors 0  dropped 38175  overruns 0  frame 0
        TX packets 232821  bytes 31576553 (31.5 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/1inux_driver_package#
```

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。

四、卸载驱动程序

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linux_driver_package目录下，输入 dpkg -r aic8800fdrvpackage 命令。

```
root@Leg7000:/home/ugreen/Downloads/WirelessAdapter/Linux/1inux_driver_package# dpkg -r aic8800fdrvpackage
(Reading database ... 208044 files and directories currently installed.)
Removing aic8800fdrvpackage (1.0.9) ...
Uninstall aic8800 wifi driver!!!!!
/bin/sh: 1: test: -1t: unexpected operator
rm -rf *.o *.ko *.o.* *.mod.* modules.* Module.* .a* .o* .*.o.* *.mod .tmp* .cache.mk .modules.order.cmd .Module.symvers
.cmd
/bin/sh: 1: test: -1t: unexpected operator
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
rm -rf *.o *.ko *.o.* *.mod.* modules.* Module.* .a* .o* .*.o.* *.mod .tmp* .cache.mk .modules.order.cmd .Module.symvers
.cmd
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'
/sbin/depmod -a 6.14.0-22-generic
Uninstall aic8800 wifi driver successful!!!!!
root@Leg7000:/home/ugreen/Downloads/WirelessAdapter/Linux/1inux_driver_package#
```