**AIW(EWM) FAQ**

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| **Category** | AIW | **Date** | 2022/09/08 |
| **Keyword** | AIW-163, EWM-W179M201E, driver, Ubuntu 22.04, kernel 5.15 | | |

* **Question:**

How to install AIW-163, EWM-W179M201E driver on Ubuntu 22.04 with kernel 5.15?

* **Instructions :**

1. Download the driver package via below link.

[RTL8852BE\_WiFi\_linux\_v1.15.10.0.5-0(71904).7z](https://advantecho365-my.sharepoint.com/:u:/g/personal/tim_huang_advantech_com/EROlJBjN6T9Eg9z08QwiF4QB5iBY3ePFy4ssD5poRwHpFA?e=1L6RkK)

1. Unzip the .7z file with below command.

**# 7z x RTL8852BE\_WiFi\_linux\_v1.15.10.0.5-0(71904).7z**

1. Access to “WiFi” folder, then decompress .tar.gz file with below command.

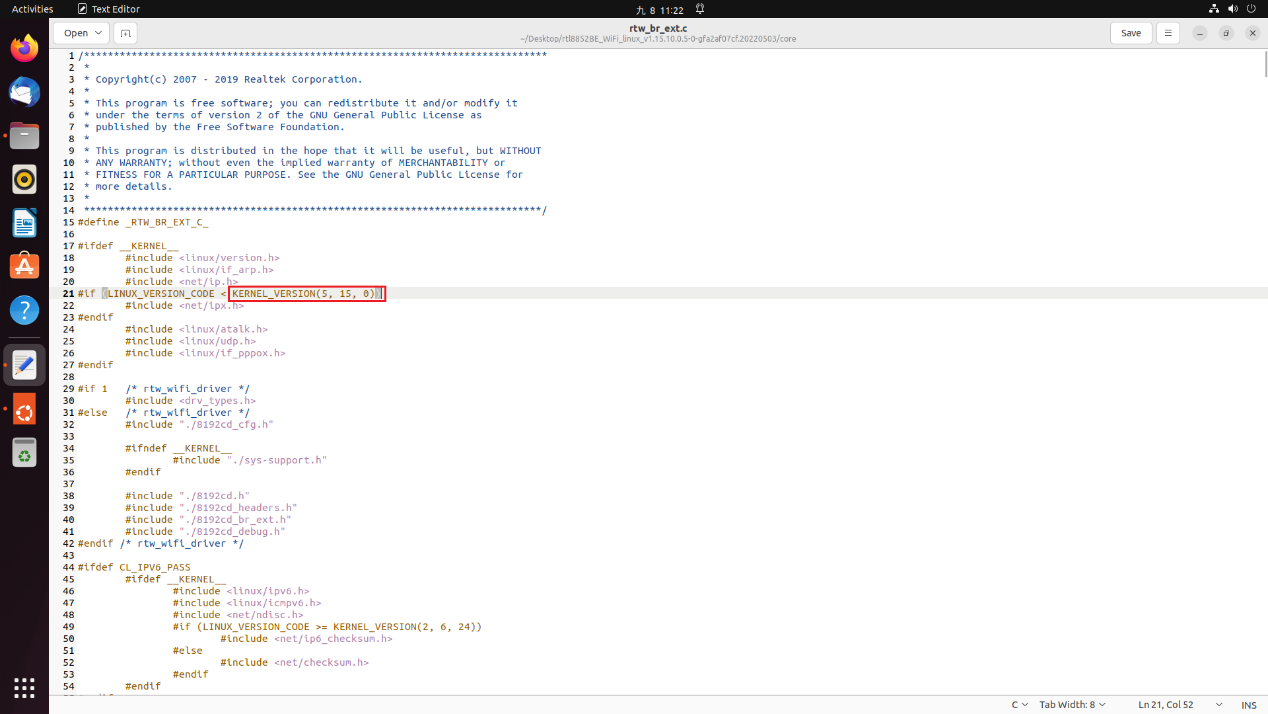
**# tar zxvf RTL8852BE\_WiFi\_linux\_v1.15.10.0.5-0-gfa2af07cf.20220503.tar.gz**

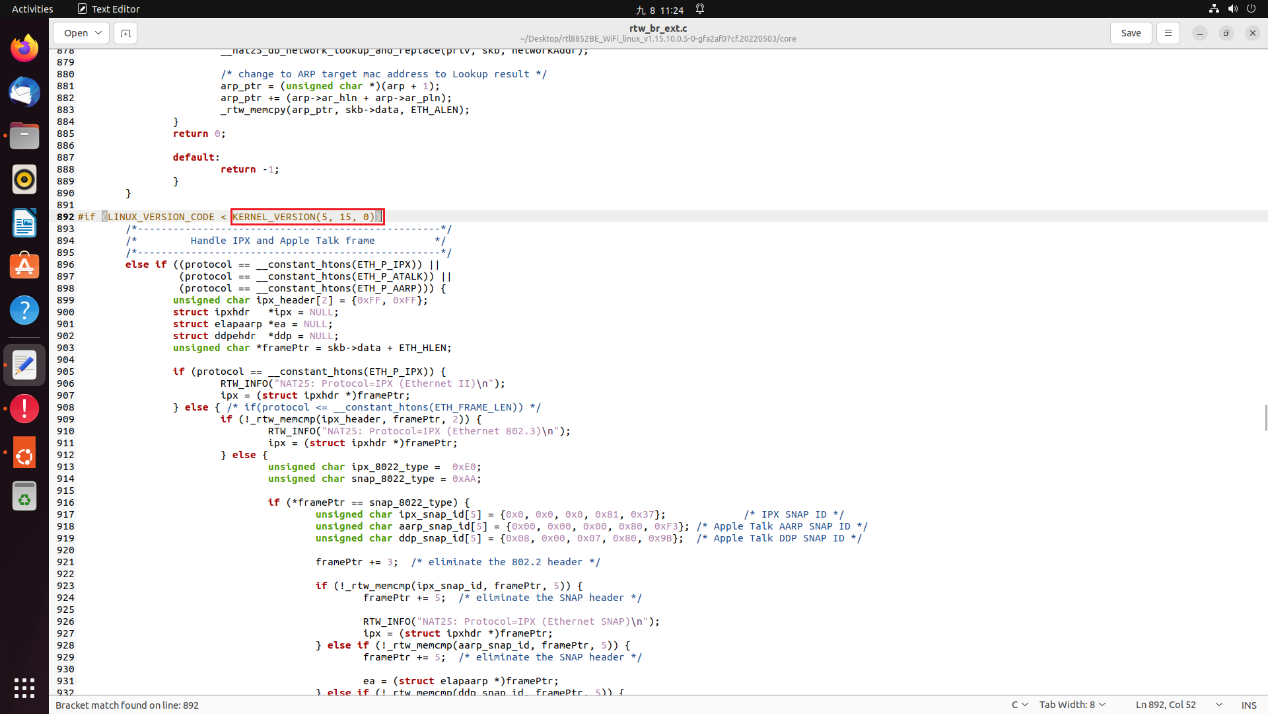
1. Access to “RTL8852BE\_WiFi\_linux\_v1.15.10.0.5-0-gfa2af07cf.20220503” folder.
2. Access to “driver” folder, then decompress .tar.gz file with below command.

**# tar zxvf rtl8852BE\_WiFi\_linux\_v1.15.10.0.5-0-gfa2af07cf.20220503.tar.gz**

1. Access to “rtl8852BE\_WiFi\_linux\_v1.15.10.0.5-0-gfa2af07cf.20220503” folder.
2. Access to “core” folder and try to edit “rtw\_br\_ext.c”.

**Modify KERNEL\_VERSION(5, 17, 0) to KERNEL\_VERSIONS(5, 15, 0) as below screenshots. There’re two places required to be modified.**





1. Leave “core” folder and go back to previous folder.

**# cd ..**

1. Input command “make” to compile driver package to generate ko files.

**# make**

\*If "make" error, try to use below command to fix:

**# apt install make**

**# apt install build-essential**

If still can’t make it work, try to copy the whole “rtl8852BE\_WiFi\_linux\_v1.15.10.0.5-0-gfa2af07cf.20220503” folder to the other path, ex. desktop of PC then try to compile again.

After compiling successfully, there’re a few files generated, including “8852be.ko”.

1. Try to insert driver with below command.

**# insmod 8852be.ko**

\*If error -2 issue(could not insert module XXX: Unknown symbol in module) happens while trying to insert driver, trying to use below command to fix:

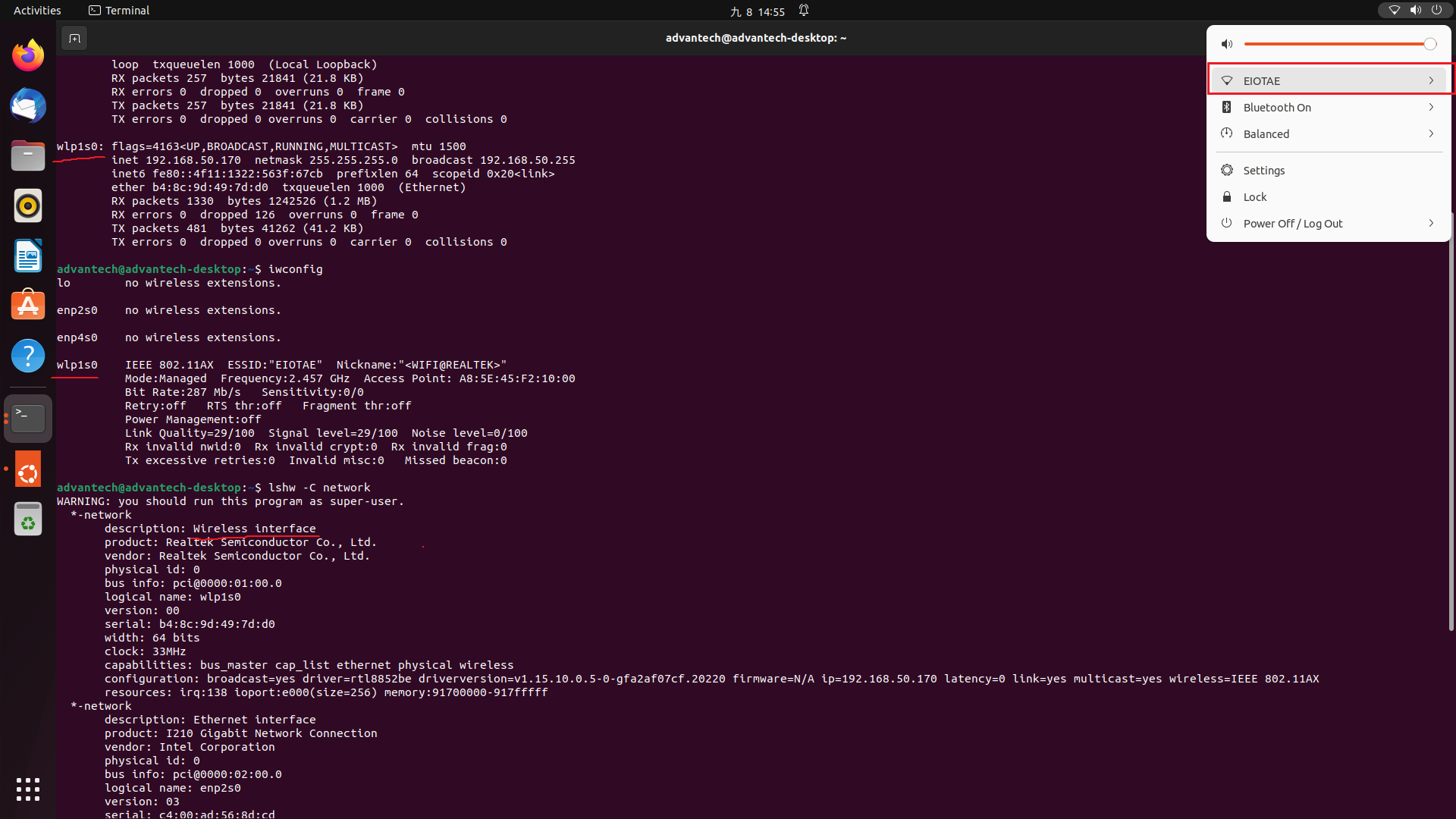
**# modprobe cfg80211**

**# insmod 8852be.ko**

Then driver should be able to be inserted successfully.

1. Finally, input below command to install the driver so that the driver will be loaded automatically in the future.

**# make install**

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\*Test environment:

