**AIW(EWM) FAQ**

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| **Category** | AIW | **Date** | 2022/09/23 |
| **Keyword** | AIW-163, driver, Ubuntu 20.04, kernel 5.4 |

* **Question:**

How to install AIW-163 driver on Ubuntu?

* **Instructions :**
1. Download the driver package via below link.

[RTL8852BE\_WiFi\_linux\_v1.15.6.0.2-0-gac110bf5.20211029(55435).7z](https://advantecho365-my.sharepoint.com/%3Au%3A/g/personal/tim_huang_advantech_com/EYT7Q1NLAnJCtGB2ROndgbwBygQ6TA_fB8bxlWb6mfdF0Q?e=ROomyY)

1. Unzip “RTL8852BE\_WiFi\_linux\_v1.15.6.0.2-0-gac110bf5.20211029(55435).7z” using command

**# 7z x RTL8852BE\_WiFi\_linux\_v1.15.6.0.2-0-gac110bf5.20211029(55435).7z**

1. Access to “WiFi” folder.
2. Decompress “RTL8852BE\_WiFi\_linux\_v1.15.6.0.2-0-gac110bf5.20211029.tar.gz” using command

**# tar zxvf RTL8852BE\_WiFi\_linux\_v1.15.6.0.2-0-gac110bf5.20211029.tar.gz**

1. Access to “RTL8852BE\_WiFi\_linux\_v1.15.6.0.2-0-gac110bf5.20211029” folder.
2. Access to “driver” folder.
3. Decompress “rtl8852BE\_WiFi\_linux\_v1.15.6.0.2-0-gac110bf5.20211029.tar.gz”.

using command

**# tar zxvf rtl8852BE\_WiFi\_linux\_v1.15.6.0.2-0-gac110bf5.20211029.tar.gz**

1. Access to “rtl8852BE\_WiFi\_linux\_v1.15.6.0.2-0-gac110bf5.20211029” folder.
2. Input command “make” to compile driver package to generate ko files.

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

**# sudo apt install make**

**# sudo apt install build-essential**

If still can’t make it work, try to copy the whole “rtl8852BE\_WiFi\_linux\_v1.15.6.0.2-0-gac110bf5.20211029” folder to the other path, ex. desktop of PC then try to compile again.

After that, 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** again

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

**# make install**

\*Test environment:

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