**AIW(EWM) FAQ**

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| **Category** | AIW | **Date** | 2023/11/14 |
| **Keyword** | EWM-W173H01E, Linux, Ubuntu 22.04, kernel 5.15, Broadcom AP6275P, BT | | |

* **Question:**

How to setup and install EWM-W173H01E Bluetooth on Ubuntu 22.04 with kernel 5.15?

* **Instructions :**

1. Download driver & firmware package via below link.

[ap6275p\_rs3710\_e03.tar.bz2](https://advantecho365-my.sharepoint.com/:u:/g/personal/tim_huang_advantech_com/EaFGszzL74ZBmyO6fphexB0BY55kF6QZmke8BdV6GfDhgQ?e=wTALa9)

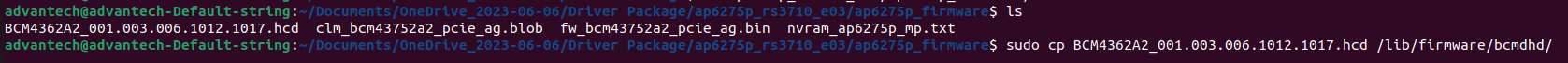
1. Create a new folder named “bcmdhd” under /lib/firmware/.

$ sudo mkdir bcmdhd

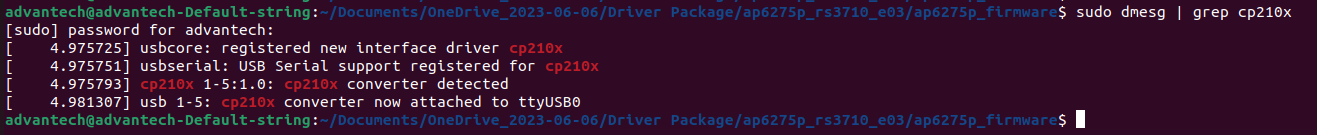
1. Copy Bluetooth FW to /lib/firmware/bcmdhd/.

Bluetooth FW file can be found in folder “ap6275p\_firmware”.

$ sudo cp BCM4362A2\_001.003.006.1012.1017.hcd /lib/firmware/bcmdhd/



1. Input sudo dmesg | grep cp210x to check if cp210x driver is loaded automatically and ttyUSB0 appears.



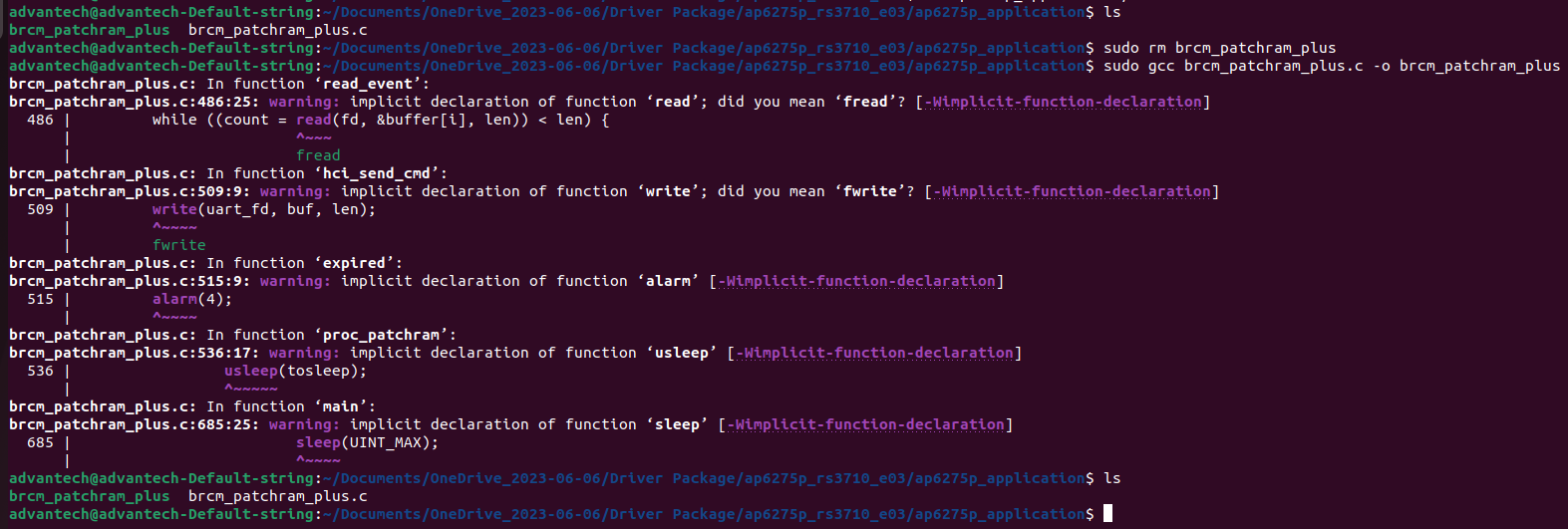
1. Move to path /Driver Package/ap6275p\_rs3710\_e03/ap6275p\_application/.

Remove the “brcm\_patchram\_plus”.

$ sudo rm brcm\_patchram\_plus

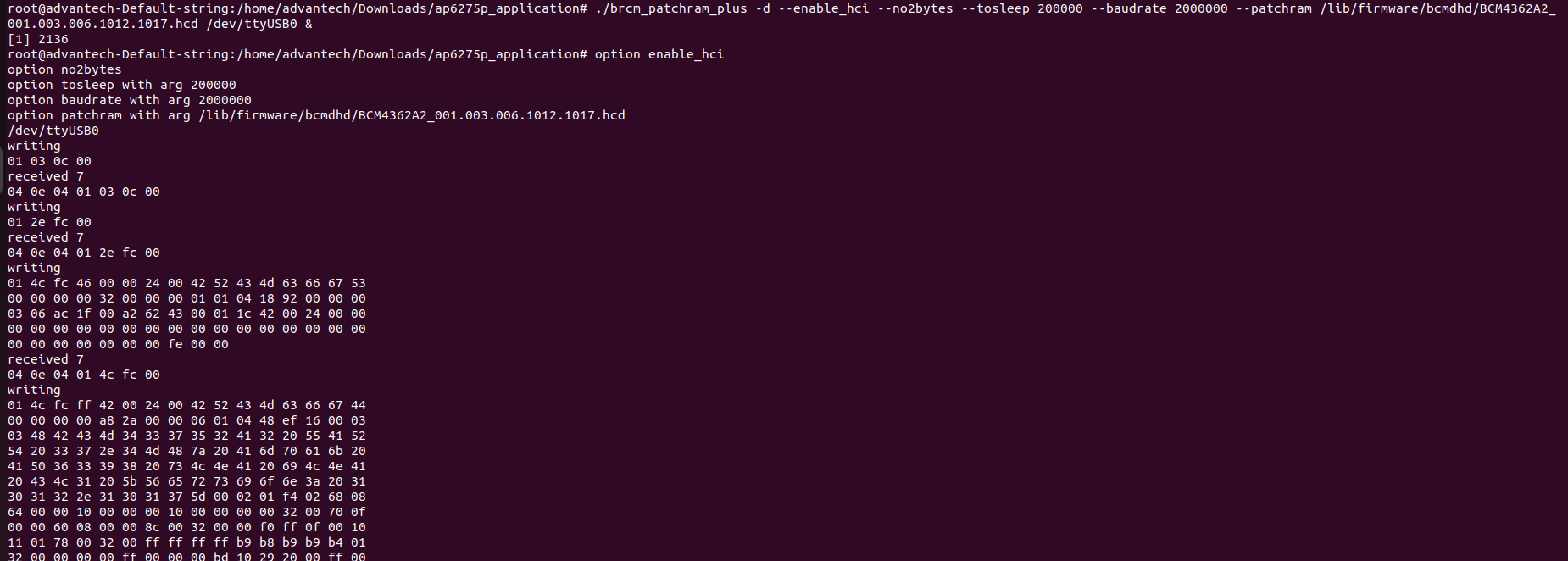
1. Then build “brcm\_patchram\_plus.c” with gcc.

$ sudo gcc brcm\_patchram\_plus.c -o brcm\_patchram\_plus



1. Input following command to enable HCI interface with brcm\_patchram\_plus which build in last step. **(Please change to root user.)**

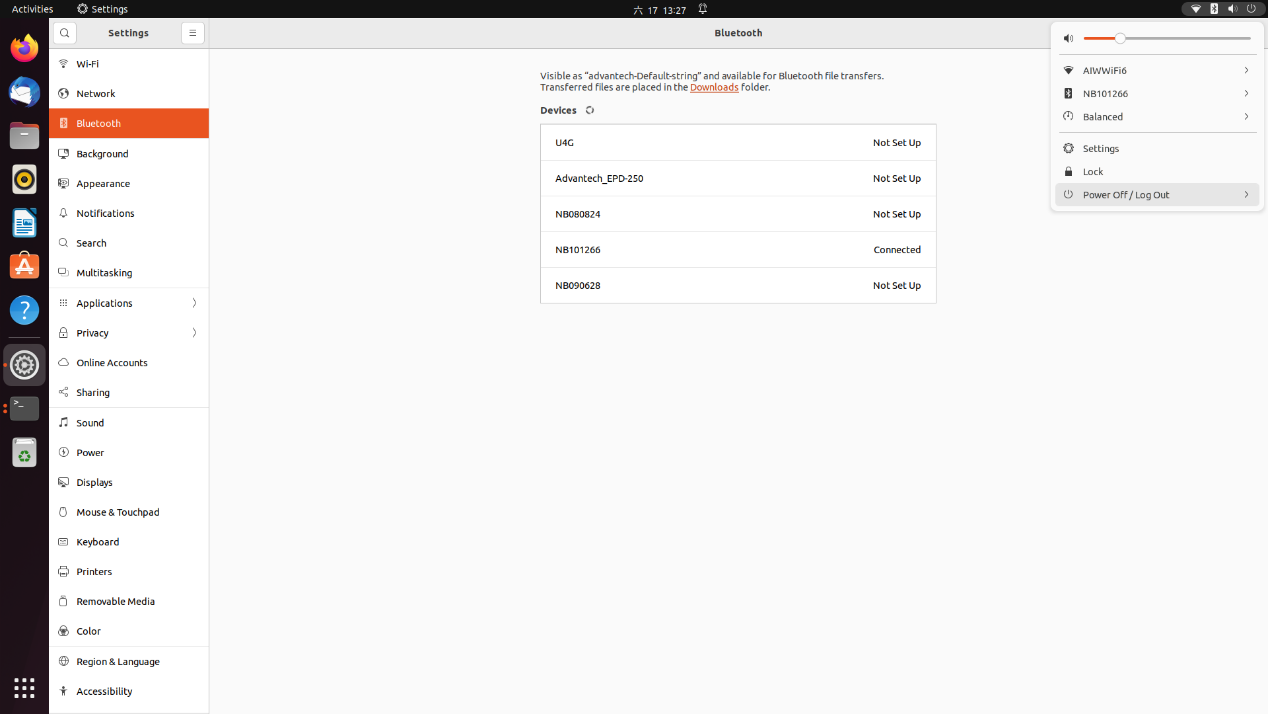
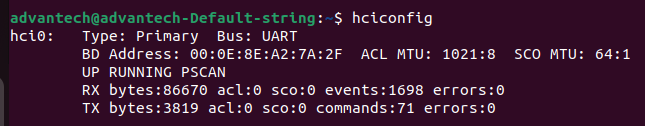
# ./brcm\_patchram\_plus -d --enable\_hci --no2bytes --tosleep 200000 --baudrate 115200 --patchram /lib/firmware/bcmdhd/BCM4362A2\_001.003.006.1012.1017.hcd /dev/ttyUSB0 &





1. Check if BT interface appears or not.

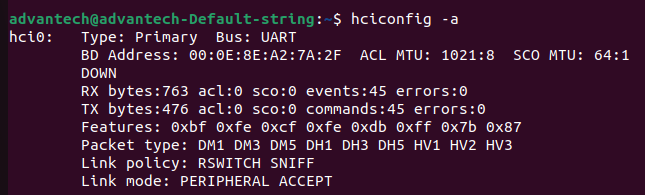
If yes, please jump to conclusion part.



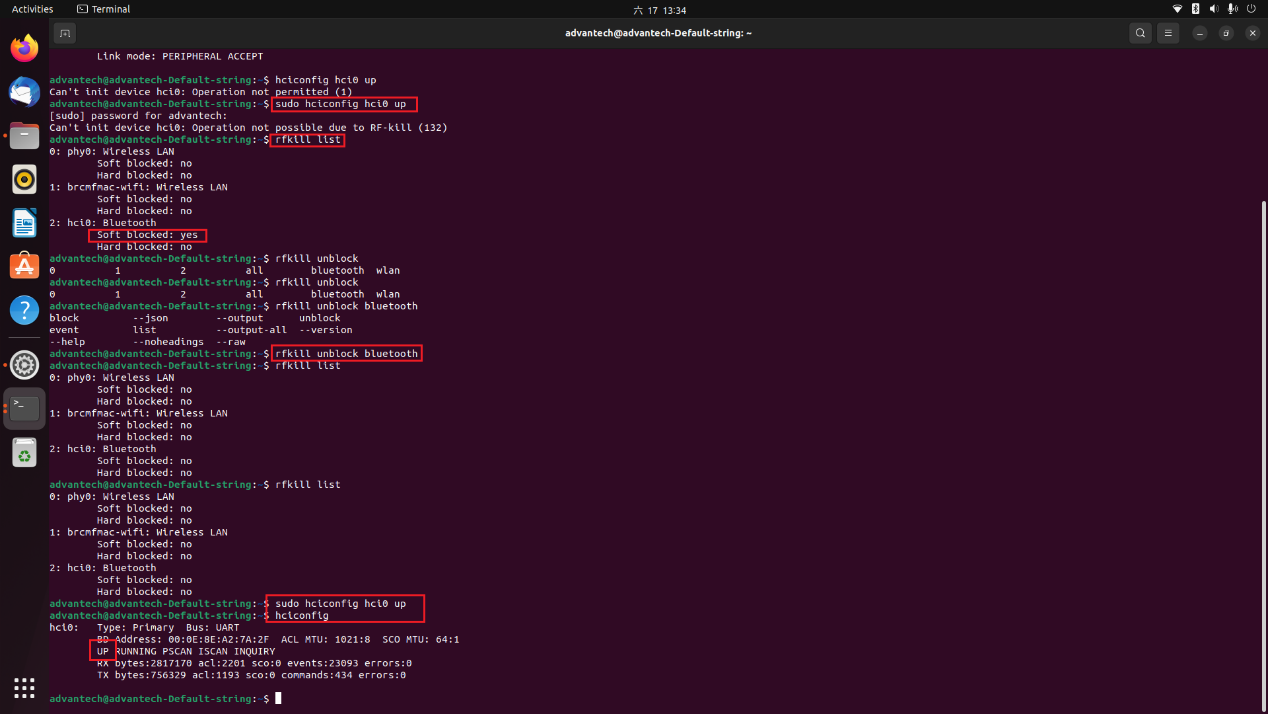
1. If not, please check the BT interface status with “hciconfig -a”

If it’s down, please try to make BT interface status up.

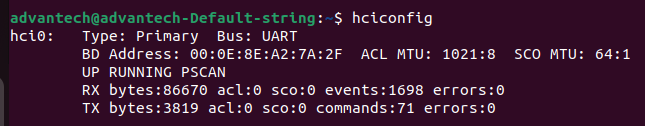
$ sudo hciconfig hci0 up

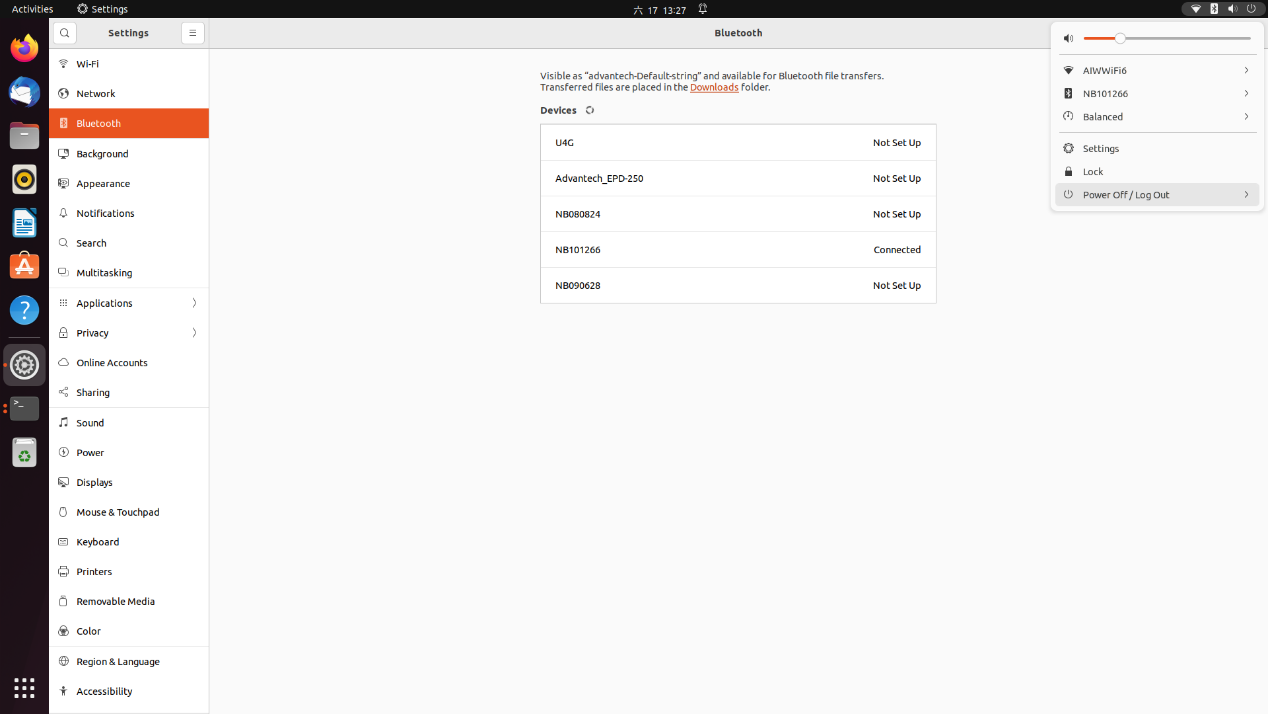


1. However, if it can’t be activated, please refer to following screenshot to fix.



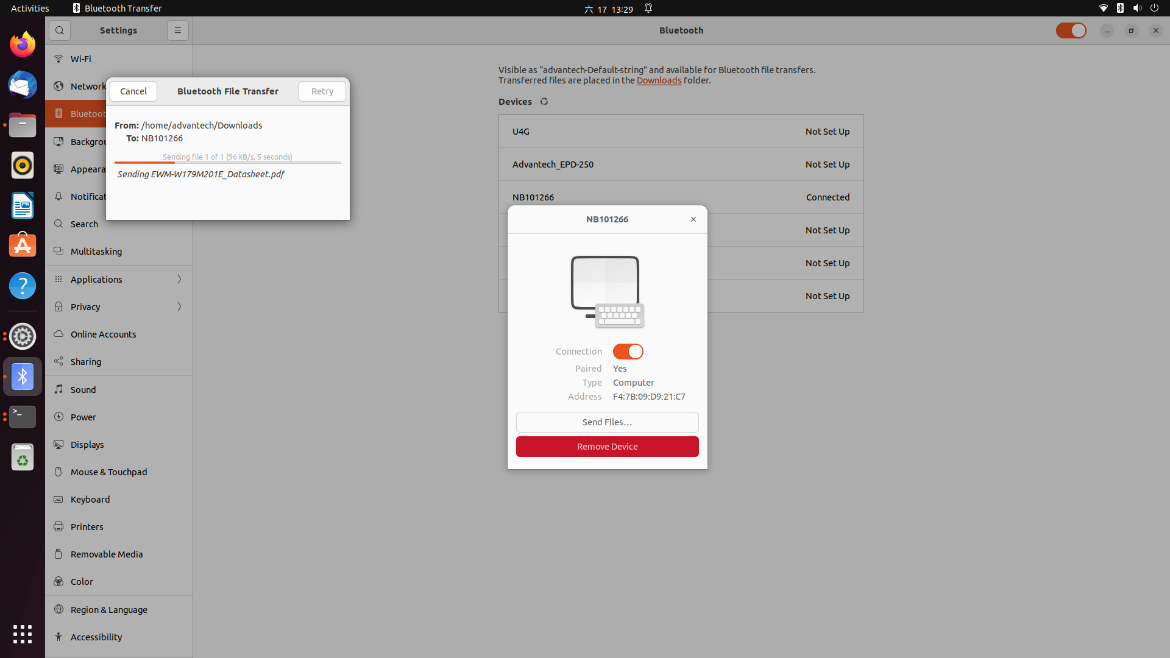
* **Conclusion :**



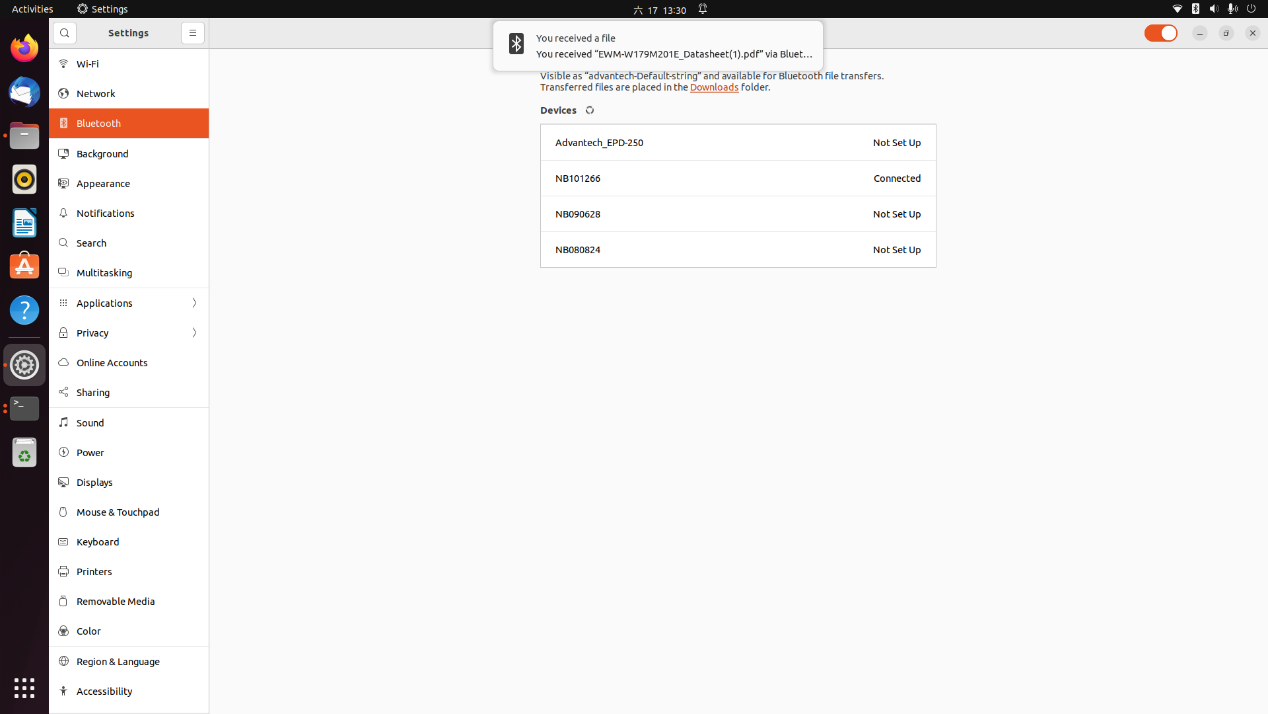


After connect to other BT devices, try to send & receive files to verify BT function works.

Send :



Receive :



Test with Linux Ubuntu 22.04.1 with kernel 5.15. (ARK-1250L)

