

## How to install WU600 with Ubuntu 18.04

1. Login your Ubuntu 18.04, and enter your working directory. For example:

```
root@ubuntu:/home/binn/project#
```

2. Copy the file of driver, whose name is "rtl8821CU\_1804.tar.gz", into your working directory. And unzip this file with command of "tar -xzf rtl8821CU\_1804.tar.gz". For example:

```
root@ubuntu:/home/binn/project# ls
rtl8821CU_1804.tar.gz
root@ubuntu:/home/binn/project# tar -xzf rtl8821CU_1804.tar.gz
```

3. Then, you may find a new folder "rtl8821CU" created. For example:

```
root@ubuntu:/home/binn/project# ls
rtl8821CU  rtl8821CU_1804.tar.gz
```

4. Then enter the directory of "rtl8821CU", and "sudo make" with root authority.

```
root@ubuntu:/home/binn/project# ls
rtl8821CU  rtl8821CU_1804.tar.gz
root@ubuntu:/home/binn/project# cd rtl8821CU
root@ubuntu:/home/binn/project/rtl8821CU# sudo make
```

5. When complete, you may get the info as following.

```
LD [M] /home/binn/project/rtl8821CU/8821cu.o
Building modules, stage 2.
MODPOST 1 modules
CC      /home/binn/project/rtl8821CU/8821cu.mod.o
LD [M] /home/binn/project/rtl8821CU/8821cu.ko
make[1]: Leaving directory '/usr/src/linux-headers-5.0.0-37-generic'
root@ubuntu:/home/binn/project/rtl8821CU#
```

6. Then, "sudo make install" the driver as following.

```
root@ubuntu:/home/binn/project/rtl8821CU#
root@ubuntu:/home/binn/project/rtl8821CU# sudo make install
mkdir -p /lib/modules/5.0.0-37-generic/kernel/drivers/net/wireless/realtek/rtl8821cu/
install -p -m 644 8821cu.ko /lib/modules/5.0.0-37-generic/kernel/drivers/net/wireless/realtek/rtl8821cu/
/sbin/depmod -a 5.0.0-37-generic
root@ubuntu:/home/binn/project/rtl8821CU#
```

7. Driver installation done!
8. However, we have to go on to configure the **usb\_modeswitch**. Otherwise, WU600 will work as a DISK but not a wi-fi adapter.
9. Edit the file of "/lib/udev/rules.d/40-usb\_modeswitch.rules". Add an entry "ATTR{idVendor}=="0bda", ATTR{idProduct}=="1a2b", RUN+="usb\_modeswitch '%k'" into this file as following screenshot.

```

# Part of usb-modeswitch-data, version 20170806
#
# Works with usb_modeswitch versions >= 2.4.0. Slash before %k parameter
# is for compatibility only. Versions >= 2.5.0 don't need it.
#
ACTION!="add|change", GOTO="modeswitch_rules_end"

# Adds a symlink "gsmmodem[n]" to the lowest ttyUSB port with interrupt
# transfer; checked against a list of known modems, or else no action
KERNEL=="ttyUSB*", ATTRS{bNumConfigurations}=="*", PROGRAM="usb_modeswitch --symlink-name %
p %s{idVendor} %s{idProduct} %E{PRODUCT}", SYMLINK+="c"

SUBSYSTEM!="usb", ACTION!="add", GOTO="modeswitch_rules_end"

# Generic entry for most Huawei devices, excluding Android phones
ATTRS{idVendor}=="12d1", ATTRS{manufacturer}!="Android", ATTR{bInterfaceNumber}=="00", ATTR
{bInterfaceClass}=="08", RUN+="usb_modeswitch '/%k'"

# Realtek RTL8821CU
ATTR{idVendor}=="0bda", ATTR{idProduct}=="1a2b", RUN+="usb_modeswitch '/%k'"

# HP LaserJet Professional P1102
ATTR{idVendor}=="03f0", ATTR{idProduct}=="002a", RUN+="usb_modeswitch '/%k'"

# HP LaserJet Professional P1102w
ATTR{idVendor}=="03f0", ATTR{idProduct}=="032a", RUN+="usb_modeswitch '/%k'"

```

10. Enter the directory "/usr/share/usb\_modeswitch/".

```

root@ubuntu:/home#
root@ubuntu:/home# cd /usr/share/usb_modeswitch/
root@ubuntu:/usr/share/usb_modeswitch# ls
configPack.tar.gz
root@ubuntu:/usr/share/usb_modeswitch#

```

11. Unpack the file "configPack.tar.gz" with command "tar-xzvf configPack.tar.gz". And then, delete "configPack.tar.gz".

```

root@ubuntu:/usr/share/usb_modeswitch# rm configPack.tar.gz
root@ubuntu:/usr/share/usb_modeswitch# ls 0bda:1a2b

```

12. Create a new file of "0bda:1a2b". Yes, the file name is "0bda:1a2b". Input the following item into this file.

```

root@ubuntu:/usr/share/usb_modeswitch
File Edit View Search Terminal Help
# Realtek RTL8821CU
TargetVender=0x0bda
TragetProduct=0xc820
StandardEject=1

```

13. Copy "0bda:1a2b" into "/etc/usb\_modeswitch.d/"

```

root@ubuntu:/usr/share/usb_modeswitch#
root@ubuntu:/usr/share/usb_modeswitch#
root@ubuntu:/usr/share/usb_modeswitch# cp 0bda:1a2b /etc/usb_modeswitch.d

```

14. Re-pack all the files including "0bda:1a2b" into "configPack.tar.gz".

```
root@ubuntu:/usr/share/usb_modeswitch#  
root@ubuntu:/usr/share/usb_modeswitch#  
root@ubuntu:/usr/share/usb_modeswitch#  
root@ubuntu:/usr/share/usb_modeswitch# tar -czvf configPack.tar.gz ./*
```

15. Delete all the files except configPack.tar.gz.

```
root@ubuntu:/home#  
root@ubuntu:/home# cd /usr/share/usb_modeswitch/  
root@ubuntu:/usr/share/usb_modeswitch# ls  
configPack.tar.gz  
root@ubuntu:/usr/share/usb_modeswitch#
```

16. Reboot your linux.
17. All done!

#### Total Command Summary:

##### (1) Driver installation

```
tar -xzvf rtl8821CU_1804.tar.gz  
cd rtl8821CU  
sudo make  
sudo make install
```

##### (2) Configure USB\_Switch

```
tar -xzvf configPack.tar.gz  
vim 0bda:1a2b  
cp 0bda:1a2b /etc/usb_modeswitch.d/  
tar -czvf configPack.tar.gz ./*
```