**How to enable WiFi/Bluetooth with EWM-W179**

**Prerequisite**

* EPC-R7200 with Ubuntu 18.04.5 (kernel v4.9.201) or RSB-3720 with Linux kernel v5.4.70 on it
* Stop system background daemons by following commands with root user permission

#systemctl stop systemd-networkd

#systemctl stop NetworkManager

#rmmod rtk\_btusb

* Copy WiFi driver (8852be.ko) and Bluetooth driver (including rtk\_btusb.ko, rtl8852bu\_fw and rtl8852bu\_config) to one USB stick and plugged into one USB port of platform.

**Test WiFi**

1. **Bring up WiFi driver** :

* Bring up WiFi driver with 8852be.ko if mount USB stick underlying “/media/ubuntu/USB\_Disk”

# cp /media/ubuntu/USB\_Disk/8852be.ko /tmp/

# sudo modprobe cfg80211

# insmod /tmp/8852be.ko

*Note: you will see the interface wlan0 by “ifconfig –a” comman*

# rfkill unblock wifi

# ifconfig wlan0 up

1. **Test with WiFi AP**

* Set WiFi client configuration with /etc/wpa\_supplicant.conf

(as follows as AP “TEST” with pre-shared key “123456789” as

example for your reference)

# cat /etc/wpa\_supplicant.conf

ctrl\_interface=/var/run/wpa\_supplicant

ctrl\_interface\_group=0

update\_config=1

network={

ssid="TEST"

psk="123456789"

}

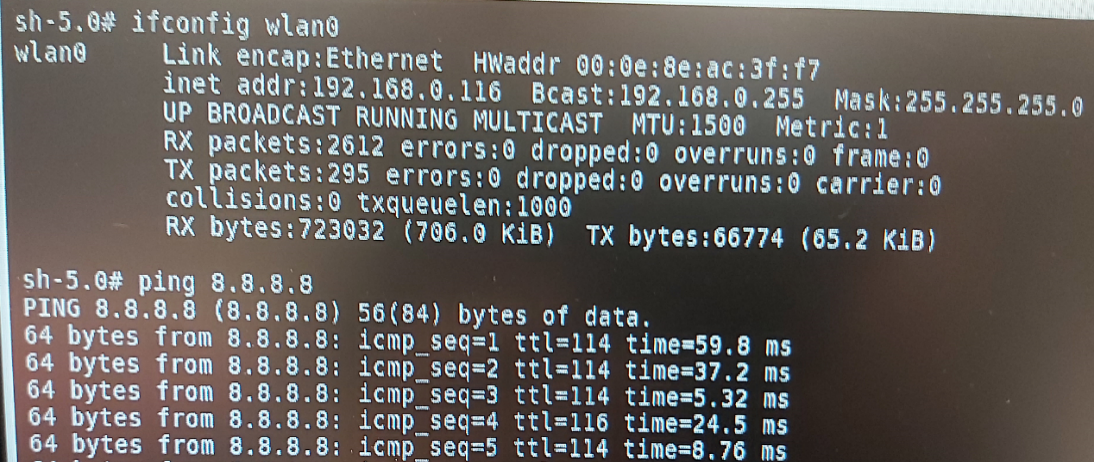
# wpa\_supplicant -i wlan0 -c /etc/wpa\_supplicant.conf -B

# udhcpc -i wlan0 (for RSB-3720)

Or, #dhclient wlan0 (for EPC-R7200)

* If AP is configured with internet connection, user can use ping to check the internet availability as follows.
  + Check network connection after obtained IP address

# ping 8.8.8.8

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**Test Bluetooth**

* Bring up Bluetooth driver with follows if have mount USB stick underlying /media/ubuntu/USB\_Disk

# cp /media/ubuntu/USB\_Disk/rtk\_btusb.ko /tmp/

# cp /media/ubuntu/USB\_Disk/rtl8852bu\* /lib/firmware/

# insmod /tmp/rtk\_btusb.ko

*Note: you will see the interface hci0 by “hciconfig –a” command*

* Using Bluetooth with following commands

# hciconfig hci0 up

# bluetoothctl

[bluetooth]# scan on

[bluetooth]# scan off

If there are any Bluetooth devices nearby you will see some devices listed by “devices” command as follows.

[bluetooth]# devices

*[ Notes ] EPC-R7200 has some compatibility issue on Bluetooth that cannot connect*

*with some Bluetooth gadget*.