**How to enable WiFi/Bluetooth with EWM-W15UR**

**Prerequisite**

* MIO-5391 with Ubuntu 22.04 (Linux 6.2.0-37) or MIO-5272 with Ubuntu 22.04 (Linux 5.17.15) on it
* Install WiFi driver with rtl88x2CU\_WiFi\_linux\_v5.14.0-50-gce1b24864.20220218\_COEX20210504-2323\_sparklan\_v4.tar.gz with following commands.
1. tar -xzvf rtl88x2CU\_WiFi\_linux\_v5.14.0-50-gce1b24864.20220218\_COEX20210504-2323\_sparklan\_v4.tar.gz
2. cd rtl88x2CU\_WiFi\_linux\_v5.14.0-50-gce1b24864.20220218\_COEX20210504-2323
3. sudo make
4. sudo make install
5. sudo modprobe –r rtw88\_8822cu
6. sudo modprobe 88x2cu
* Install Bluetooth driver with Linux\_BT\_USB\_v3.10\_20200414\_8822CU\_BTCOEX\_20200103-1717.tar.gz

with following commands.

1. tar –xzvf Linux\_BT\_USB\_v3.10\_20200414\_8822CU\_BTCOEX\_20200103-1717.tar.gz
2. cd Linux\_BT\_USB\_v3.10\_20200414\_8822CU\_BTCOEX\_20200103-1717

sudo make

 After driver get installed by above instructions, you should reboot system before do any following tests.

**Test**

1. **Test by GUI**
	1. **Wi-Fi**
* Select the option Wi-Fi



* Select the SSID of AP



* Input your password of AP



* Open the terminal to check interface and network connection
	+ Check interface and you will see the interface as “wlx00XXXXXXXXXX”

# iwconfig

* + Check network connection after obtained IP address

# ping –c 3 8.8.8.8



**1.2 Bluetooth**

* Select the option Bluetooth



* You will see the result in scanning as below list



1. **Test by command line**
	1. **Wi-Fi**
* Stop some services

# sudo nmcli radio wifi off

# sudo systemctl stop wpa\_supplicant.service

# sudo systemctl mask wpa\_supplicant.service

* Create configuration

# echo ‘ctrl\_interface=/run/wpa\_supplicant’ > /tmp/wpa.conf

# echo ‘update\_config=1` >> /tmp/wpa.conf

# wpa\_passphrase "XX" YY >> /tmp/wpa.conf

Note: XX: SSID, YY: Password

* Enable WiFi and check interface

# sudo rfkill unblock wifi

# sudo iwconfig

Note: Wi-Fi interface’s information will be shown by iwconfig.

* Running wpa\_supplicant

# sudo wpa\_supplicant -d -B -i wlx00XXXXXXXXXX -c /tmp/wpa.conf

Note: wlx00XXXXXXXXXX is Wi-Fi interface name which can be known by iwconfig.

* Get IP address by DHCP and check network connection

# sudo dhclient wlx00XXXXXXXXXX

# ping -c 3 8.8.8.8

* 1. **Bluetooth**
* Enable Bluetooth

# sudo rfkill unblock bluetooth

* Check interface of bluetooth

 # hciconfig -a

Note: you will see the interface like hciX

* Turn on/off scan

# sudo bluetoothctl scan on