WLAN/BT USB Dongle
CL-8852BU

USER'S GUIDE

VERSION 1.0

TABLE OF CONTENTS

Thank you for your purchase of the WLAN and Bluetooth dual mode combo Adapter. Featuring wireless technology, this wireless networking solution has been designed for both large and small businesses, and it is scalable so that you can easily add more users and new network features depending on your business scale.

FEATURES

- Compatible IEEE 802.11a/b/g/n/ac/ax Specifications
- 2T2R 802.11ax(2.4GHz) WiFi speed up to max 573.5Mbps
- 2T2R 802.11ax(5GHz) WiFi speed up to max 1201MGbps
- Complies with USB Specification 3.0
- Supports IEEE 802.11i with WPA, WPA2 and WPA3-SAE R2
- Supports feature for WMM wireless QoS
- Wi-Fi and BT coexist support
- Easy operation and setting up.

SYSTEM REQUIREMENTS

- Ubuntu OS – Kernel 3.13 ~5.17
- USB port
- WLAN /BT Device Driver

BEFORE YOU START

Box Contents

- WLAN and BT Combo USB Adapter
- User's Guide
- Linux Driver

CONNECTING YOUR WLAN AND BT COMBO ADAPTER TO PC

- Install Wi-Fi driver
- Install BT driver

Wireless LAN network defined by IEEE 802.11ax/ac/a/b/g standard committee
It is designed for **Infrastructure wireless LAN.**

To use the WLAN 11ax USB Client Adapter with a computing device, the WLAN and Bluetooth Combo Adapter must be equipped with a proper Interface. All drivers and supporting software for the WLAN Adapter must be installed and configured first.

Any computer on a network is identified by a unique network address. There are two methods to assign a network address to a computer on a TCP/IP network :

- Static IP addressing.
- Dynamic IP addressing (DHCP Client).

In network with static IP addressing, the network administrator manually assigns an IP address to each computer. Once a static IP address is assigned, a computer uses the same IP address every time it reboots and logs on to the network. You may manually change the IP address in the “System Settings →Network → Options → IPv4/v6 settings” after WiFi is connected. Network using static IP address is easy to set up and do not require additional network management software.

In network with dynamic IP addressing, a DHCP server in the network dynamically assigns IP addresses to all clients every time they log on to the network. Network using dynamic IP address requires setting up and running a DHCP Server.

1. Login Ubuntu laptop
2. Press “Ctrl + Alt + t” to open terminal window

A. Install WiFi Driver

```
$ cp rtl8852BU_WiFi_linux_v1.15.11-15.tar.gz ~/Downloads
$ cd ~/Downloads
$ tar xvfz rtl8852BU_WiFi_linux_v1.15.11-15.tar.gz
$ cd rtl8852BU_WiFi_linux_v1.15.11-15
$ make
$ sudo make install
```

B. Install Bluetooth Driver

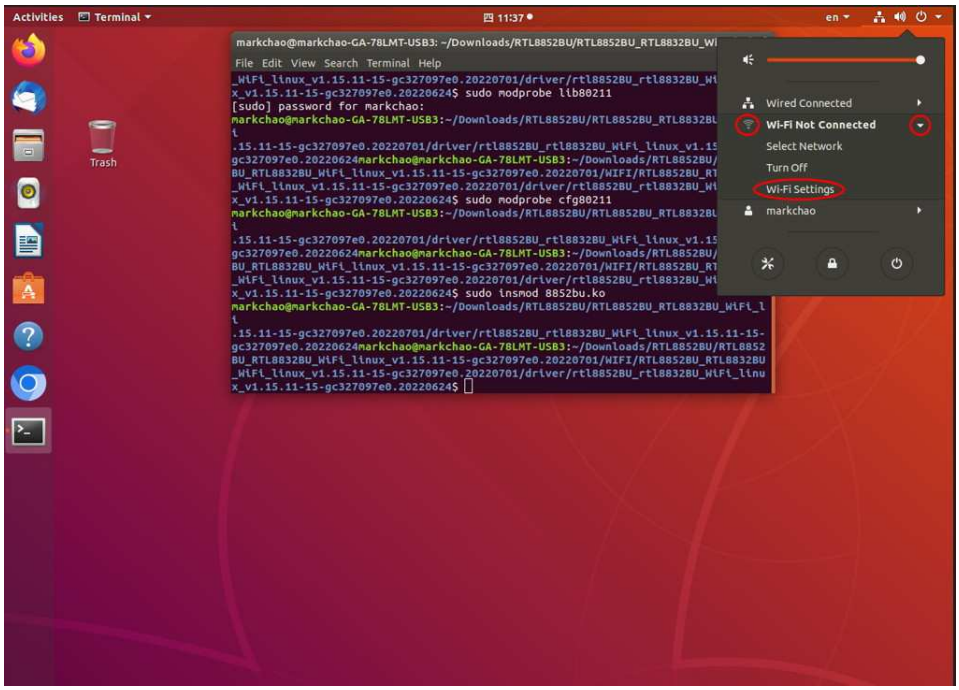
```
$ cp 20220519_LINUX_BT_DRIVER_RTL8852B_COEX_v0606.tgz
~/Downloads
$ cd ~/Downloads
$ tar xvf 20220519_LINUX_BT_DRIVER_RTL8852B_COEX_v0606.tgz
$ cd 20220519_LINUX_BT_DRIVER_RTL8852B_COEX_v0606
$ sudo make install INTERFACE=usb
```

5 WIRELESS NETWORK CONFIGURATION

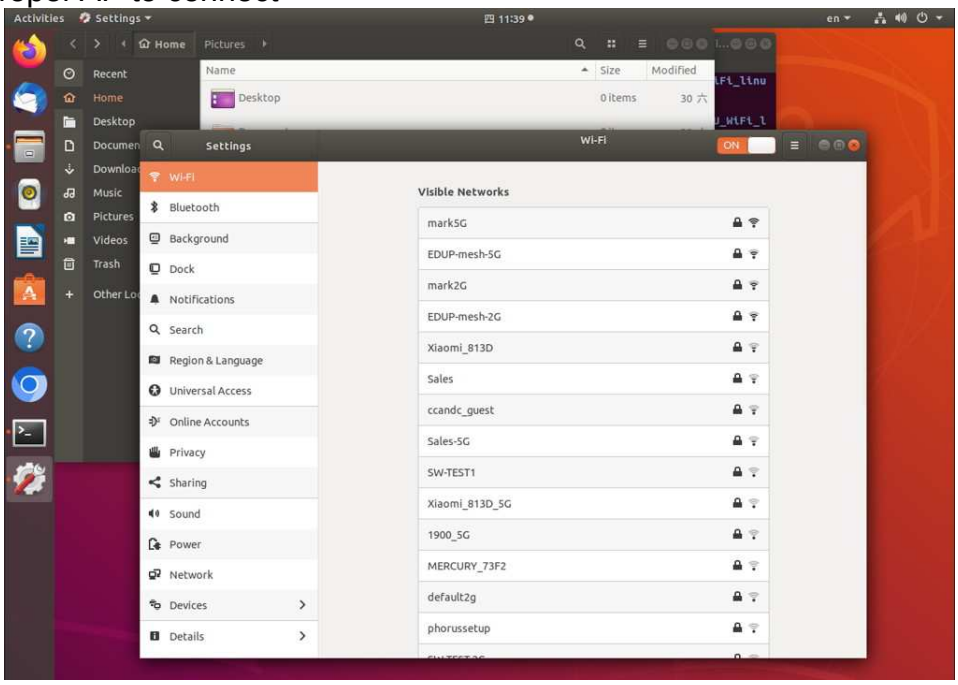
WLAN 11ax USB Client Adapter uses Ubuntu OS network manager software. All functions are from Ubuntu. When you insert the WLAN Adapter into your laptop or desktop, an icon should appear automatically.

WiFi Setup

To get WiFi available Access Point

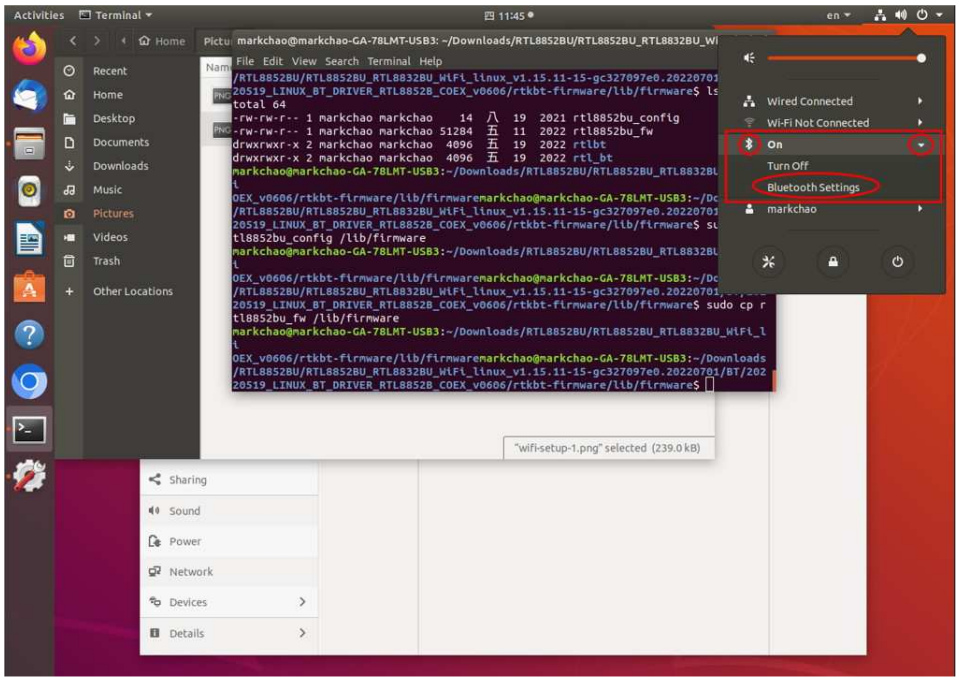


Find proper AP to connect

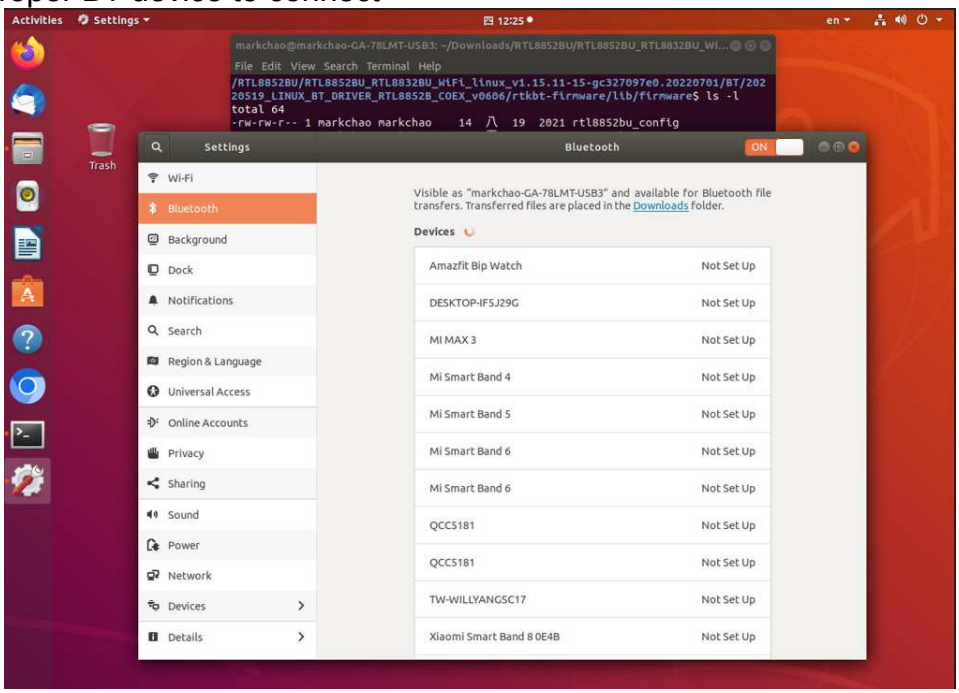


BT Setup

To get BT available device



Find proper BT device to connect



The channel identifiers, channel center frequencies, and regulatory domains of each 22-MHz-wide channel are shown in following Table.

Channel Identifier	Frequency (MHZ)	Japan	ETSI	North America	Israel	Mexico
1	2412	●	●	●		
2	2417	●	●	●		
3	2422	●	●	●	●	
4	2427	●	●	●	●	
5	2432	●	●	●	●	
6	2437	●	●	●	●	
7	2442	●	●	●	●	
8	2447	●	●	●	●	
9	2452	●	●	●	●	
10	2457	●	●	●		●
11	2462	●	●	●		●
12	2467	●	●			
13	2472	●	●			
14	2484	●				

5GHz Bands descriptions as below

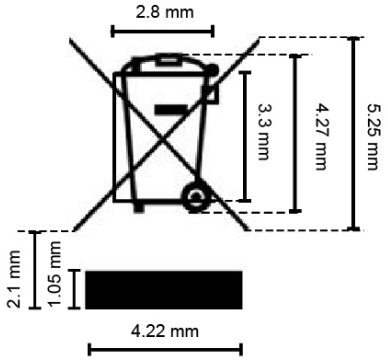
Freq.	**Bands**	**Frequency**
5 GHz	UNII1	5.15 -5.25 GHz
	UNII2	5.25 -5.35 GHz
	Midband	5.47 -5.725 GHz
	UNII3	5.725 -5.850 GHz

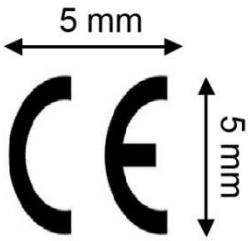
- This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
  (1) this device may not cause harmful interference, and
  (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
—Reorient or relocate the receiving antenna.
—Increase the separation between the equipment and receiver.
—Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
—Consult the dealer or an experienced radio/TV technician for help.

- Any changes or modifications not expressly approved by the party responsible for compliance could

void the authority to operate equipment.





This device complies with Industry Canada's licence-exempt RSSs. Operation is subject to the following two conditions: (1) This device may not cause interference; and (2) This device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radioexempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil nedoit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillageradioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.

Cet appareil et son antenne (s) ne doivent pas être situés ou fonctionner en conjonction avec

une autre antenne ou émetteur.

(i)the device for operation in the band 5150–5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems;
(ii) for devices with detachable antenna(s), the maximum antenna gain permitted for devices in the bands 5250-5350 MHz and 5470-5725 MHz shall be such that the equipment still complies with the e.i.r.p. limit;
(iii) for devices with detachable antenna(s), the maximum antenna gain permitted for devices in the band 5725-5850 MHz shall be such that the equipment still complies with the e.i.r.p. limits specified for point-to-point and non-point-to-point operation as appropriate; and
(iv) the worst-case tilt angle(s) necessary to remain compliant with the e.i.r.p. elevation mask requirement set forth in Section 6.2.2(3) shall be clearly indicated.

(i) l'appareil pour fonctionner dans la bande 5150-5250 MHz est réservé à une utilisation en intérieur afin de réduire les risques d'interférences nuisibles à la co-canal systèmes mobiles par satellite;
(ii) pour les appareils avec antenne (s) détachable, le gain d'antenne maximal autorisé pour les appareils dans les bandes 5250-5350 MHz et 5470-5725 MHz doit être telle que l'équipement satisfait encore la pire limite;
(iii) pour les appareils avec antenne (s) détachable, le gain d'antenne maximal autorisé pour les appareils dans la bande 5725-5850 MHz doit être telle que l'équipement satisfait encore la pire limites spécifiées pour le point-à-point et non point-à-point, le cas échéant; opération et
(iv) l'angle d'inclinaison du pire (s) nécessaire pour rester conforme à la pire exigence de masque d'élévation énoncées dans la section 6.2.2 (3) doit être clairement indiqué.

This equipment complies with IC RSS-102 radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Cet équipement est conforme aux limites d'exposition aux rayonnements IC RSS-102 établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec une distance minimale de 20 cm entre le radiateur et votre corps.

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual.

FCC RF Radiation Exposure Statement:
This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment.
This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.