PRIZM

1. PLUG PRIZM TO YOUR SPEAKERS

Choose one of the 3 ways to connect Prizm to your speakers :

	Optical / TOSLink
	3.5mm Stereo
	Bluetooth

If you want to connect Prizm through bluetooth,
please move to the next step.

Optical out   Power   3.5mm Stereo

2. POWER UP

Plug-in Prizm to the power supply with the power cable.
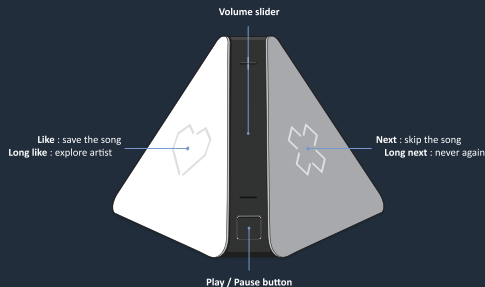
	Micro USB

3. LAUNCH THE APP

Download the Prizm application on your smartphone to proceed with the setup of the device.

The application is available through the Apple Store (iOS) and the Google Play Store (Android).

Once installed, follow the on-screen instructions.

For more informations, please visit : meetprizm.com/setup

Volume slider

Like : save the song
Long like : explore artist

Next : skip the song
Long next : never again

Play / Pause button

Prizm Wifi features explanation and technical specification

I)   Setup the Prizm

When the user first power the Prizm, he will have to configure his home Wi-Fi. Please find below the setup process:

1. Prizm creates a Wi-Fi access point with the Wi-Fi dongle
2. Then, the user starts our Prizm phone application (Android & iOS)
3. The application lets the user connect its phone to the Prizm Wi-Fi access point
4. Then, our application asks to the CM8723BU Wi-Fi module (through Wi-Fi dongle AP) to scan nearby Wi-Fi network. At the end of this scan, Prizm sends back the results to the phone application
5. The user will be able to choose his home network from this network scanned list. He will also give the Wi-Fi psk if his Wi-Fi is password protected
6. These credential data are sent back to Prizm (through Wi-Fi dongle AP) and the CM8723BU Wi-Fi module will try to connect to the user home Wi-Fi
7. Two possibilities here:
   a. The connection is successful: the Wi-Fi dongle AP is deleted and the Wi-Fi dongle starts to work as explained in the next section. The CM8723BU Wi-Fi module is connected to the user's home Wi-Fi and starts to work as explained in the next section
   b. The connection is unsuccessful: the user gets the result on its phone and both of the Wi-Fi module stays in the setup state. Then the user can go back to step 5 to correct the password or choose another Wi-Fi network.

II)   Standard and usual use of Prizm

Here we assume the user already complete the setup step. Please find below more explanation on how the WIfi dongle and the CM8723BU Wifi module are working.

1) CM8723BU Wifi module

That's the main Wifi module. This Wifi module is connected to the user's home Wifi. This means that Prizm accesses our cloud servers, streams music, updates its firmware etc. through this Wifi module.

Features based on this Wifi module:

- All communication between user's phone and Prizm
- Access to our cloud servers
- Music streaming from our music streaming services partner's servers
- To sum-up, all communication to Internet are going through this Wifi module

2) The Wifi dongle

Prizm plays the perfect music based on people in the room. That's why we need to detect people in the room. Currently, we detect people in the room if we can detect his/her phone by Wifi. In other word, Prizm is scanning/sniffing the Wifi network and it will try to identify known user with the scanning result.

The CM8723BU Wifi module is not able to scan/sniff the Wifi when it's doing all the features described above. That's why we needed to add the Wifi dongle.

III)   Wifi dongle technical specification

Chipset	RALINK RT5370
Standard	IEEE 802.11g,IEEE 802.11b,CSMA/CA with ACK.used with IEEE 802.11n(draft 2.0) wireless technology
Interface	USB 2.0
Frequency	2.4~2.4835GHz
Wireless Speed	11n: the highest data rate can reach to 150Mbps 11g: 6/9/12/18/24/36/48/54Mbps(Dynamic) 11b: 1/2/5.5/11Mbps(Dynamic)
Working channel	1~11
Data Modulation	11b: CCK,DQPSK,DBPSK 11g: OFDM 11n: OFDM with PSK,BPSK,16-QAM,64-QAM
RF power	23dBm(Maximum)
Antenna gain	0dBi internal smart antenna
Encryption	64/128/152 digit WEP encryption,WPA/WPA-PSK,WPA2/WPA2-PSK Encryption
LED indicator	Link/Activity
Working environment	Working temperature: 0°C to 40°C Storage temperature: -40°C to 70°C Working Humidity: 10% to 90%RH Storage Humidity: 5% to 90%RH
Operation system	Windows 2000/XP/Vista/WIN 7/LINUX etc.
Range	Indoors: 50-100m (Theoretical Value) Outdoors: 100-200m (Theoretical Value)

IV) CC&C CM8723BU technical specification

CM-8723BU

Description

CM-8723BU is a WLAN 11n and Bluetooth combo module, provides a single USB interface to host, which fully supports the features and functional compliance of IEEE 802.11b/g/n standards, Bluetooth v2.1, v3.0 and v4.0 standards. It supports up to 150Mbps WLAN network connections and Bluetooth protocol stack (LM, LL and LE), Bluetooth baseband and modem.

It is designed to provide excellent performance with low power consumption and enhance the advantages of robust system and cost-effective.

CM-8723BU provides a complete solution for a high throughput performance integrated wireless LAN and Bluetooth module, and is targeted at competitive superior performance, better power management applications.

FEATURES

- Operate at ISM frequency bands (2.4GHz)
- IEEE standards support: IEEE 802.11b/ g/ n/ d/ e/ h/ i
- Fully qualified Bluetooth 2.1 + EDR specification including both 2Mbps and 3Mbps modulation mode
- Fully qualified Bluetooth 3.0
- Fully qualified Bluetooth 4.0 Dual mode
- Full speed Bluetooth operation with Piconet and Scatternet support
- Enterprise level security which can apply WPA/WPA2 certification for WiFi
- WiFi 1T1R, allow data rate supporting up to 150Mbps
- Support sophisticated WiFi/BT coexistence mechanism to enhance collection performance
- Support antenna diversity for WiFi and BT antenna selection
- Support Bluetooth adaptive power management mechanism
- Fully-featured software utility for easy configuration and management
- RoHS compliance
- Low Halogen compliance

FCC Caution:

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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 complies with FCC radiation exposure guidelines .This equipment should be installed and operated with minimum distance 20cm between the radiator& your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.