

# User Manual

802.11a/b/g/n/ac 433Mbps WLAN + Bluetooth v4.2 USB Dongle

Model: FRX-LW088-21

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### **safety precautions:**

1. Do not arbitrarily change the transmission frequency and increase the transmission power (including installing an RF power amplifier).
- (2) Harmful interference with all lawful radio communications is prohibited. Once interference is found, it should be stopped immediately, and measures can be taken to eliminate the interference before continuing to use.
3. Must be resistant to radiation interference from various radio or industrial/scientific/medical applications.
4. Not to be used near airplanes or airports.
5. Low power radio wave radiation motor management measures Article 12: Low-power radio frequency motor certified by the form, without permission, the company, trade name or user shall not change the frequency, increase the power or change the design characteristics and functions.
6. Low power radio wave radiation motor management measures Article 14: The use of low power radio frequency motor shall not affect flight safety and interfere with legitimate communications, when interference is found, it should be immediately discontinued, and improved to no interference can continue to use.
- (7) Lawful communication refers to the radio communication low-power radio frequency motor operating in accordance with the provisions of the Telecommunications Act, which is subject to interference from lawful communication or industrial, scientific and medical radio wave radiation motor equipment.
8. The operation of nearby radar systems should be avoided, and the high-gain directional antenna can only be applied to fixed point-to-point systems.

**Warning:**

1. Keep this product and accessories out of reach of children.
2. Do not splash water or other liquids onto the product, otherwise it may cause damage.
3. Do not place the product near the heat source or direct sunlight to avoid deformation or failure.
4. Keep away from flammable or open flames.
5. Do not repair this product by yourself.

product appearance:

**Product characteristics and parameters:**

1. Compatible with IEEE 802.11b standard, providing wireless data rate of 11Mbps. It is compatible with IEEE 802.11g standard and provides a wireless data rate of 54Mbps. It is compatible with IEEE 802.11a standard and provides a wireless data rate of 54Mbps. It is compatible with IEEE 802.11n standard and provides wireless data rate of 150Mbps. It is compatible with IEEE 802.11ac standard and provides a wireless data rate of 433Mbps.
2. Support 20MHz,40MHz, 80MHz bandwidth in 5GHz band, 20MHz,40MHz bandwidth in 2.4GHz band.
3. It operates in the bands of 2.4 00-2.4835 GHz and 5.150-5.350 GHz, 5.725-5.850 GHz.
4. Support Bluetooth 2.1/3.0/4.0/4.2
5. Provide simple legacy and 20MHz/40MHz/80MHz coexistence mechanism to ensure future and network compatibility.
6. User-friendly configuration and diagnostic tools.

7. Driver support :Linux/Android/Windows.
8. High-speed USB 2.0 interface for WLAN and USB 1.1.
9. Transmission power does not exceed 1000mW.
10. Voltage 5V.

#### environment:

Operating Temperature:	-20°C to+45°C
Relative Humidity:	5-90%non-condensing)

#### storage

storage Temperature:	-25°C to+85°C (no-operating)
Relative Humidity:	5-90%non-condensing)

#### Thanks:

**You are welcome to give us feedback on your use of products in the process of any comments and suggestions, we will be enthusiastic to serve you.**

## Warning

This device was tested for typical body-worn operations. To comply with RF exposure requirements, a minimum separation distance of 0cm must be maintained between the user's body and the handset, including the antenna.

This product can be used across EU member states.

BT frequency range: 2402-2480MHz, Maximum E.I.R.P:7.00dBm

BLE frequency range: 2402-2480MHz, Maximum E.I.R.P:6.50dBm

2.4GWi-Fi frequency range: 2412-2472MHz, Maximum E.I.R.P: 12.37dBm

5.2GWi-Fi frequency range: 5180-5240MHz, Maximum E.I.R.P: 12.92dBm

5.8GWi-Fi frequency range: 5745-5825MHz, Maximum E.I.R.P: 12.94dBm

RED 2014/53/EU

Declaration Of Conformity

This product can be used across EU member states .

Hereby, **Shenzhen Feng Ruixiang Intelligent Technology Co., Ltd.** declares that this **802.11a/b/g/n/ac 433Mbps WLAN + Bluetooth v4.2 USB Dongle** is in compliance with the essential requirements and other relevant provisions of directive 2014/53/EU.

## FCC Statement

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.

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

NOTE: 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.

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.