

Shenzhen Chainway Information Technology Co., Ltd

RFID Reader User Manual

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1. Appearance



2. Connection

R1 HF/UHF card sender could be connected with PC by USB cable.

3. Operation

R1 is an HF/UHF card sender device. Its working principle is to write data information into the tag by application. After opening the windows C# application, connect and write data to the specified area of tag.

4. Function

4.1 UHF Read&Write

The write data function is used to write the data content of a single tag, and write to different storage areas and different address lengths. If the tag does not have a password, it can directly fill in the data content, and leave the access password blank; If the password is set, please enter the correct password to write.

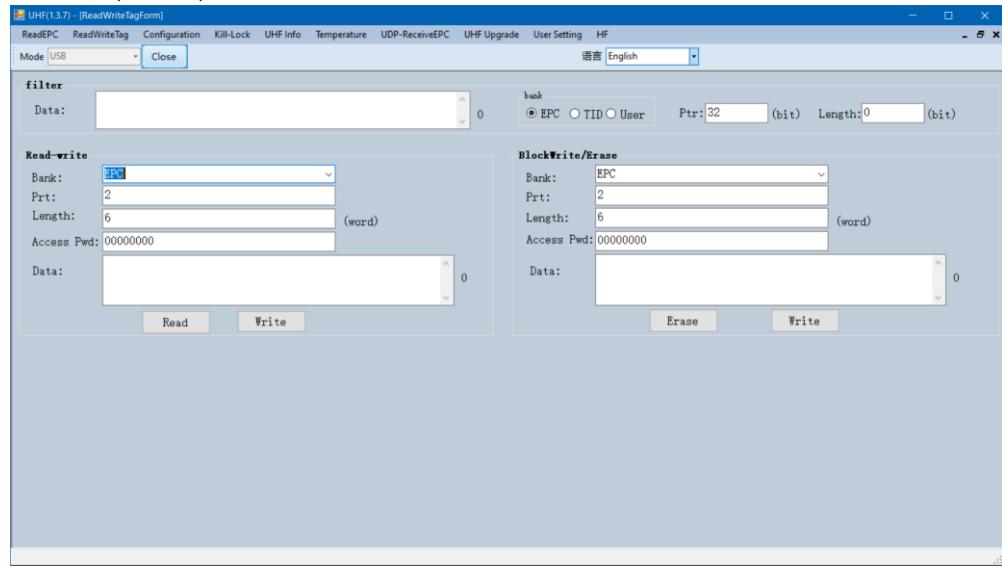
The read data function is used to read the data content of a single tag, and read different storage areas and different address lengths. If no password is set for the tag, you can directly fill in the data content, and leave the access password blank; If the password is set, please enter the correct password to read.

Description of the filter option:

The filter function is used to filter out tags other than the required content and only keep the tags of the required content during the tag identification process. It should be noted here that filter function is implemented through the air protocol, and other tag information will not be received by the UHF module, so the reading performance of the tag will not be affected after filtering.

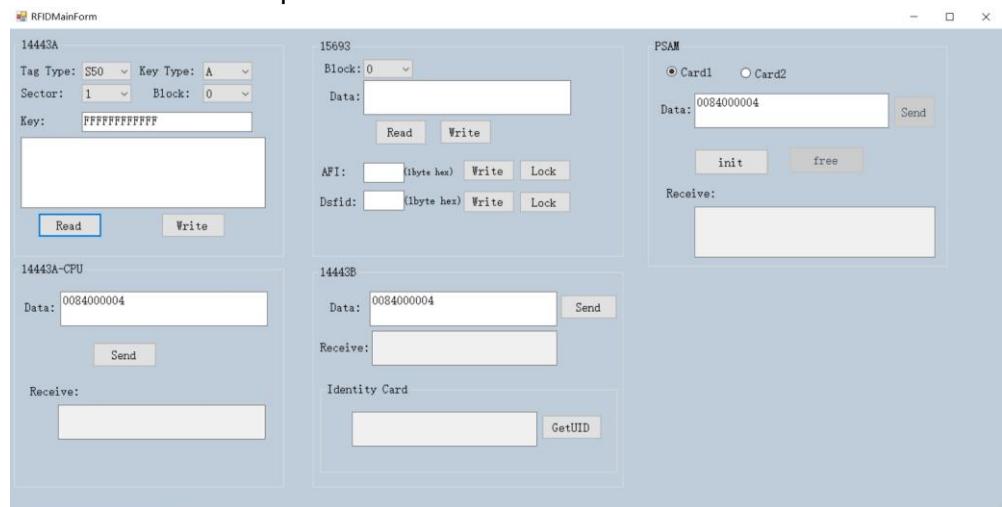
The address bit and length are used to set the filtering details. The EPC address starts from 32 (bit) by default, and the TID address starts from 0 (bit)

by default. The length needs to correspond to the data content. Since the tag adopts hexadecimal, every 4 bits of the length corresponds to one bit of the length. For example, if the length is set to 32 bits, the content is 8 bits, such as 1111, 1111, and so on.



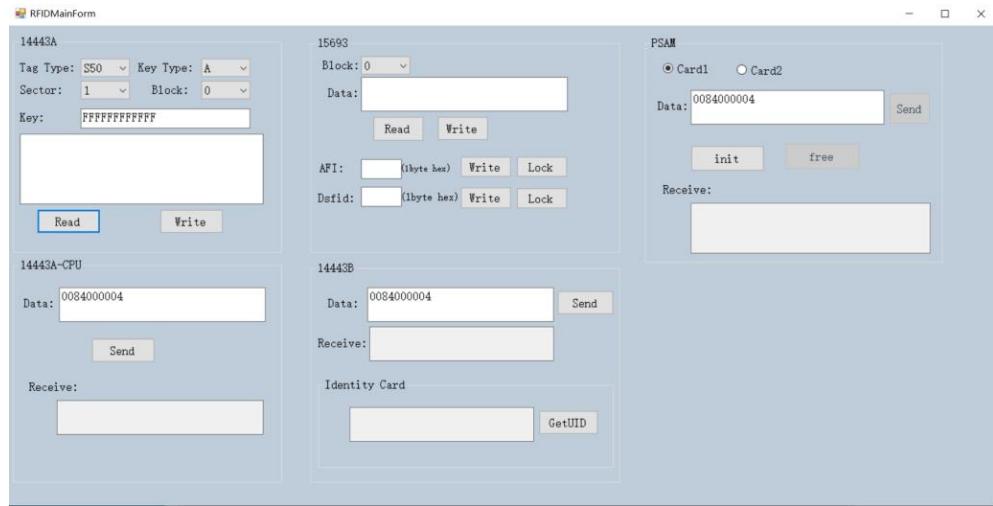
4.2 HF Read&Write

User could operate read&write function by 14443A\14443A-CPU\14443B\15693 protocol.



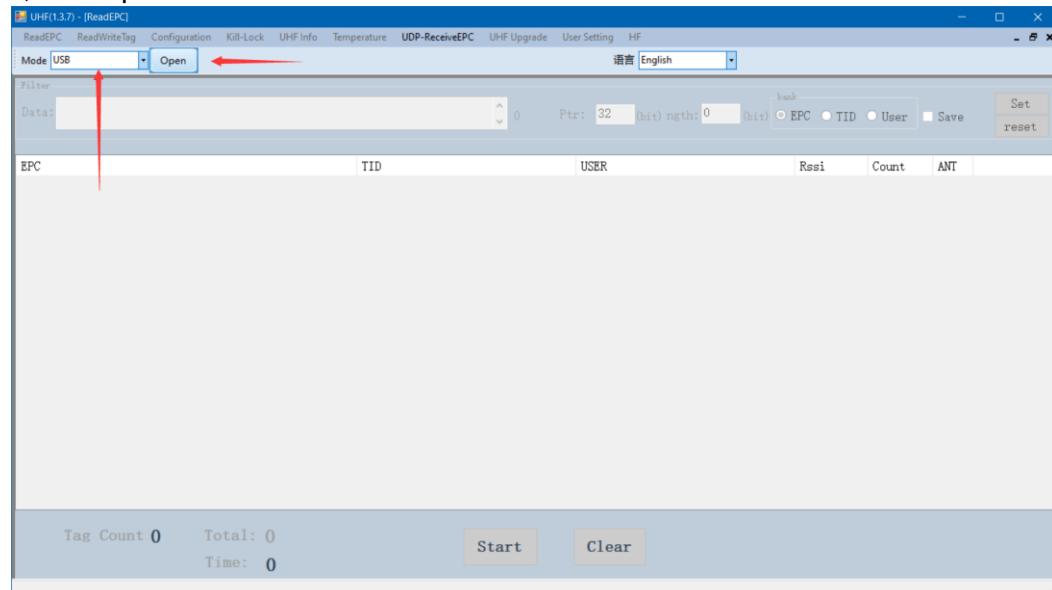
4.3 PSAM

PSAM is encryption module, which selects the corresponding mode for operation.



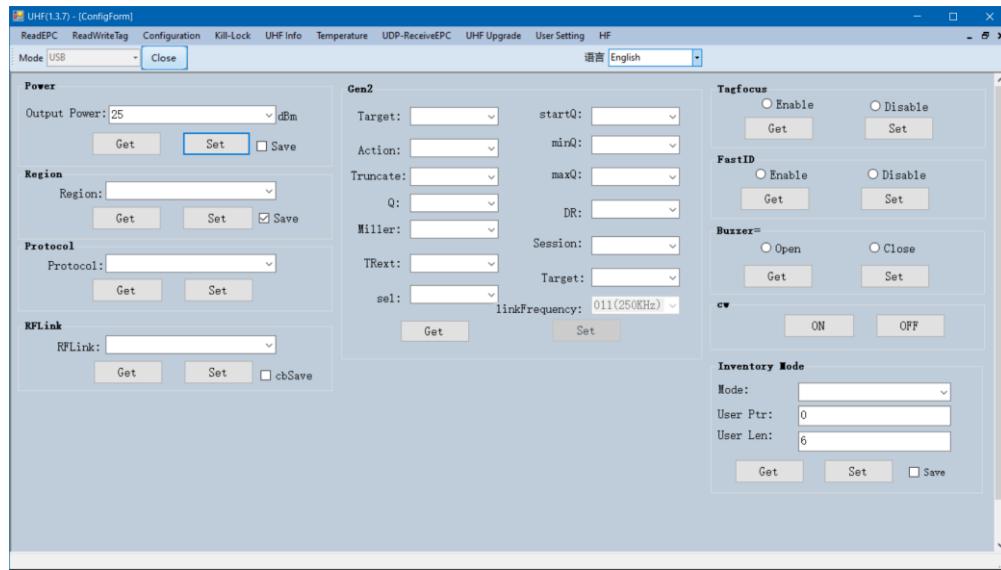
5. Settings

After connect device with PC, open exe UHFAPP and select connection mode as USB, click open.



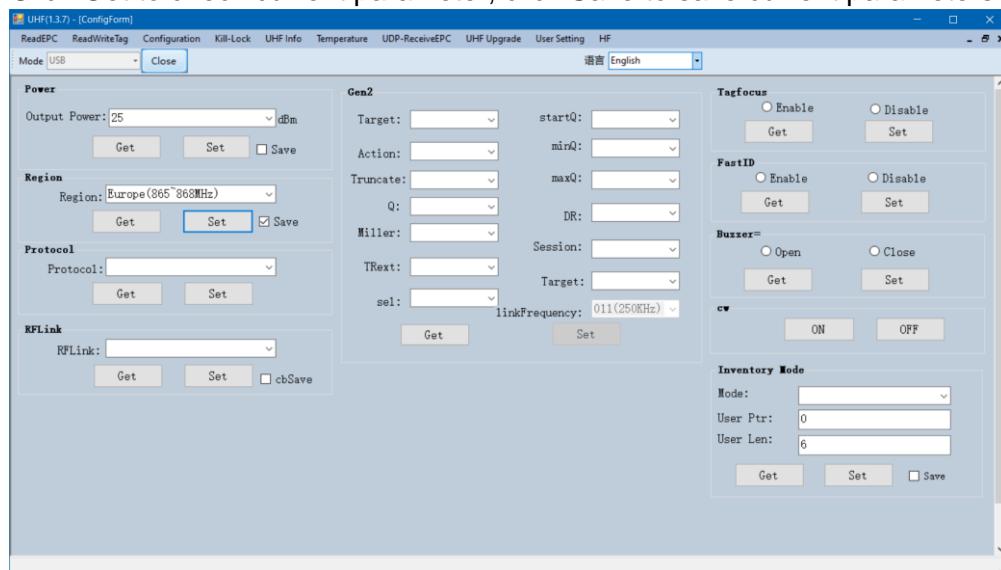
5.1 Output Power

The output power could select from 5-25dBm, click Set to confirm setup. Get button could be used to check current setup parameter. Click save button can save current settings.



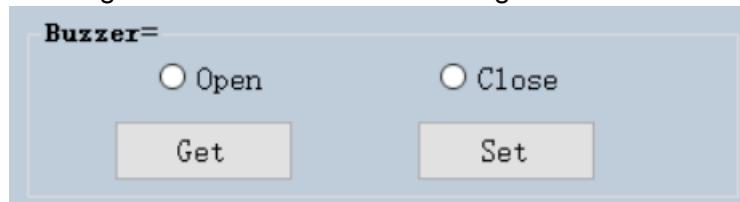
5.2 Region

Select UHF frequencies for different countries, click Set to confirm setup. Click Get to check current parameter, click Save to save current parameters.



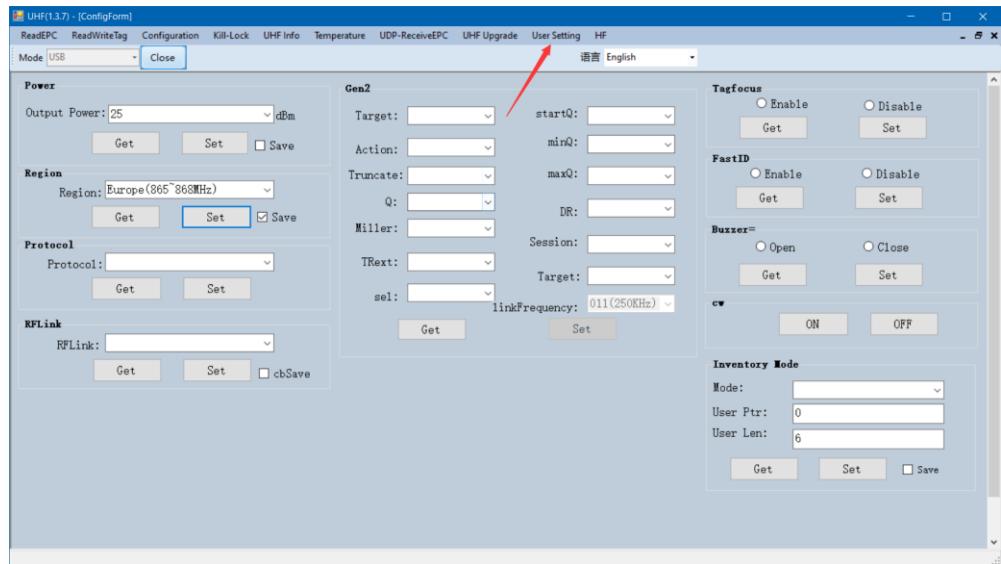
5.3 Buzzer

Select Open or Close, and click set to enable or disable the buzzer. The get button gets whether the current setting is enabled or disabled.



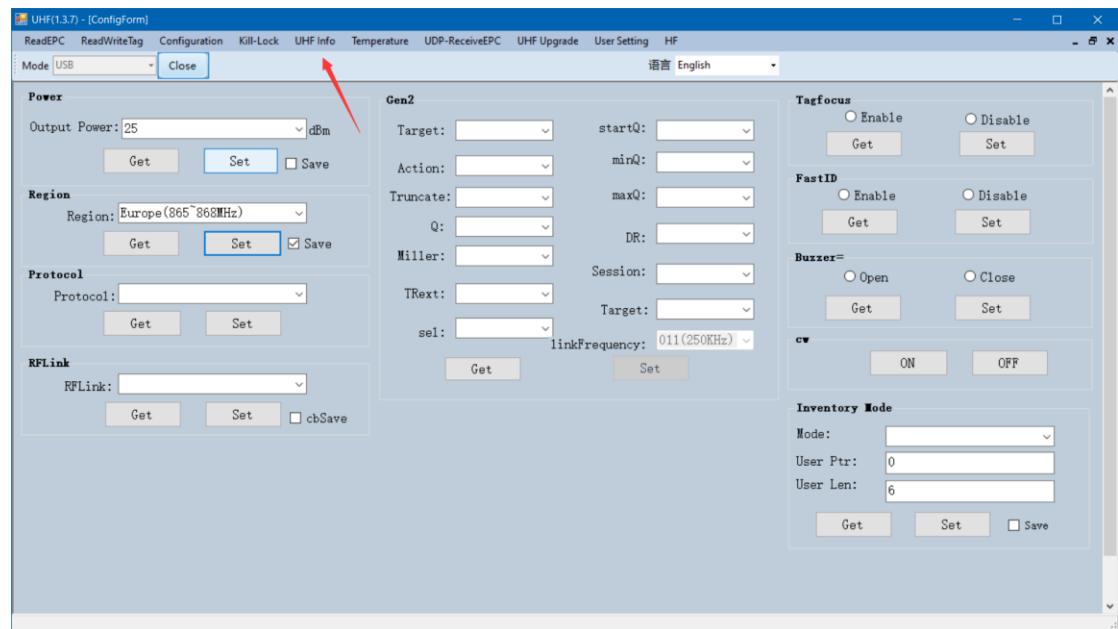
5.4 User Settings

Other special customization functions are configured in user setting. The customization functions are not described here.



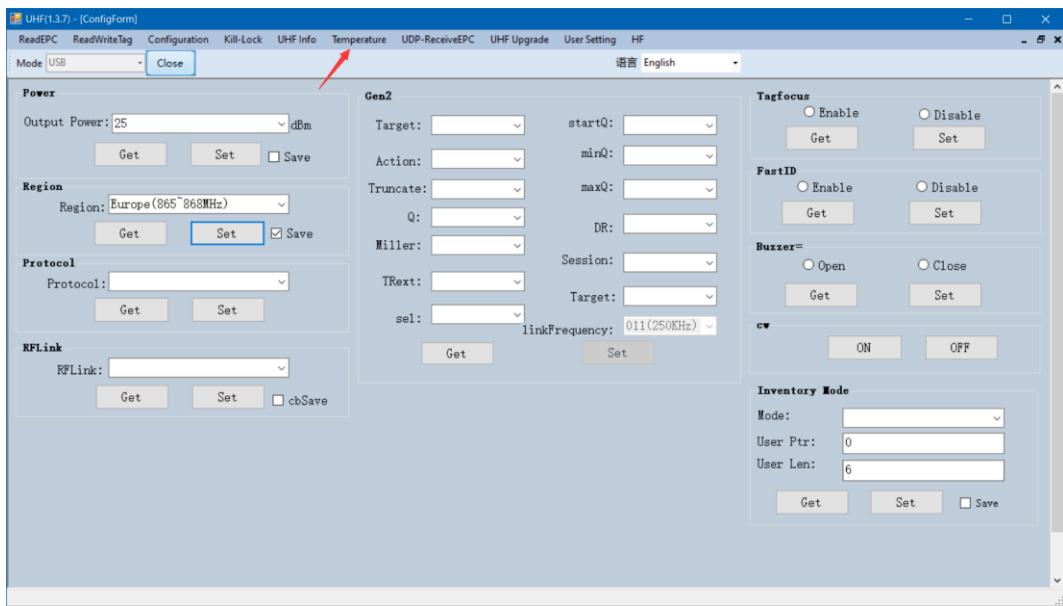
6. UHF Infor

Click UHF Infor could check current UHF firmware version.



7. Temperature

Click Temperature could check current temp. of module.



8. RF band/RF power

Wireless Mode	Frequency (MHz)	Maximum EIRP (dBm)
UHF RFID	867.5	-0.26
NFC	13.56	NA

9. Warning

FCC :

FCC statements:

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.

NOTE: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications or changes to this equipment. Such modifications or changes 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.

Federal Communication Commission (FCC) Radiation Exposure Statement
When using the product, maintain a distance of 20cm from the body to ensure compliance with RF exposure requirements.

CE :

Do not use the device in the environment at too high or too low temperature, never expose the device under strong sunshine or too wet environment.

The suitable temperature for the product and accessories is -25°C-50°C.

RF exposure information: The Maximum Permissible Exposure (MPE) level has been calculated based on a distance of d=20 cm between the device and the human body. To maintain compliance with RF exposure requirement, use product that maintain a 20cm distance between the device and human body.

This product can be used across EU member states.

EU Regulatory Conformance

Hereby, Shenzhen Chainway Information Technology Co., Ltd declares that this device is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following internet address: <https://www.chainway.net>

