UHF Desktop Card Issuer
User Guide

Version: 1.0   Date：2019.12.12

Change History

Version	Date	Description
V1.0	2019-12-12	The first official release.

Contents

FCC ID: 2AKARUD18RW-F

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.
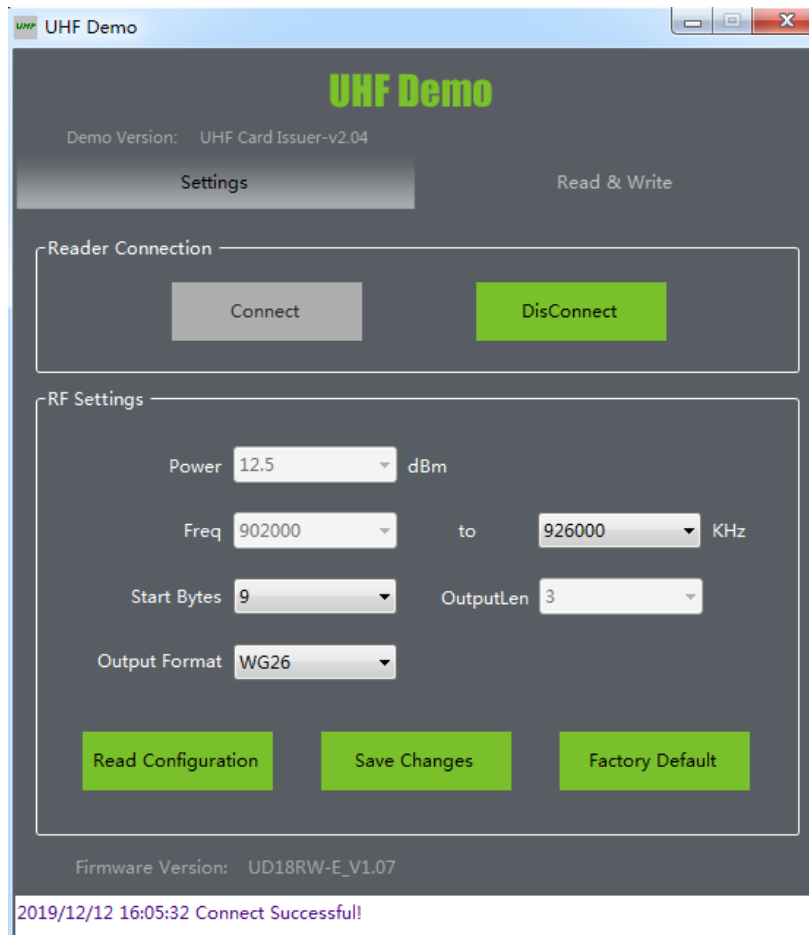-Consult the dealer or an experienced radio/TV technician for help

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.

一、 Installation Diagram

1) Connect the UD18RW-F card issuer to the computer via a USB cable.
2) Open DEMO software, Click **Connect**.

3) Click **Read Configuration** to read the current configuration parameter information of the card issuer.

2019/12/12 16:05:32 Connect Successful!
2019/12/12 16:06:15 Read Configuration OK!

4) In the RF Settings region, modify the dimensional root and start byte, and click Save Changes.

5) Support factory reset function.

6) The password of the new card is 00000000, users can set the password of the card by themselves.

7) Put the label in the reader area of the card issuer, read and write the EPC area.

8) Put the label in the reader area of the card reader, and read and write in the User area.

9) Read the TID information of the label.

三、 Product Description

3.1 Product Picture

3.2 Product Introduction

UD18RW-F is a UHF card issuer that supports the American standard frequency band. It reads and writes the EPC area and user area through DEMO software. It combines UHF non-contact RF circuits and various encoding and decoding algorithms. EPCglobal UHF Class 1Gen 2 / ISO 18000-6C / Label / Card. Adopt advanced plug-and-play USB communication interface without driver core technology, and realize connection with PC and related equipment through USB port.

3.3 Product Feature

◆ Card reader comes with a card reader antenna, working frequency is 902MHz-926MHz.

◆ Effective distance 0 ~ 8cm (different according to different working environments and different cards).

◆ The data receiving time within the effective distance is less than 90ms.

◆ USB interface power + 5V power supply, working current is less than 150mA.

◆ USB format data output.

3.4 Product Parameter

Product Type	UD18RW-E
Product Standard	EPCglobal UHF Class 1Gen 2/ISO 18000-6C
Support Card	EPCglobal UHF Class 1Gen 2/ISO 18000-6c/915MHz card/ label
Frequency Band	American standard: 902MHz-926MHz
Power Supply	DC 5V（±5%）
Standby Current	less than 70 mA
Working Current	less than 150 mA
Read Card Distance	0--8cm (Related to different work environments and different cards.)
Communication Interface	USB analog keyboard output
Operating Temperature	-10℃~+50℃
Storage Temperature	-20℃~+80℃
Product Size	107mm*107mm*23mm（Deviation±3mm） Cable length 1500MM