



ARIZON

AL510 Utility Manual

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A. System Introduction

AL510 Reader Utility is a software, which can be used to set and test the connection and reading related functions of the AL510 Reader.

B. Installation Notes

1. Open the folder where the installation file is placed



Figure 1. Installation file

2. Click AL510Setup.msi

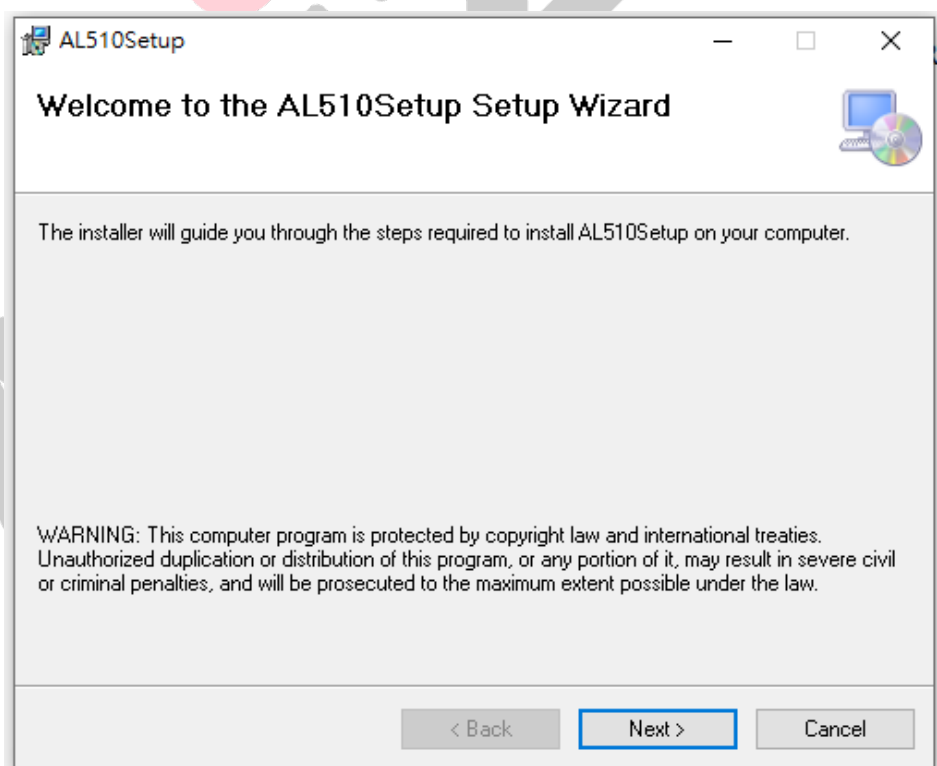


Figure 2. AL510 Utility Installation Screen

3. Select the installation folder

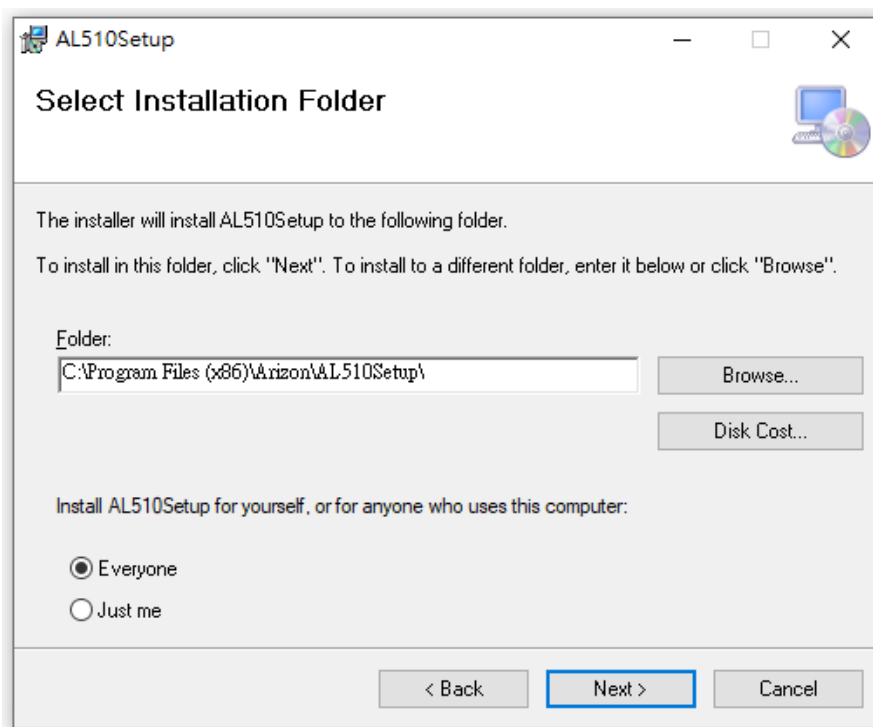


Figure 3. AL510 Utility Installation Screen

4. Confirm Installation

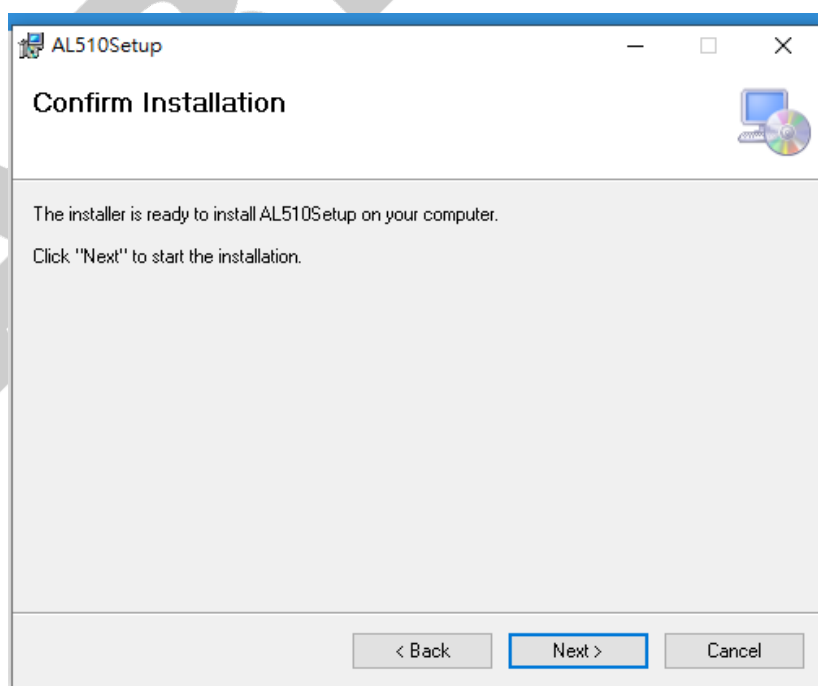


Figure 4. AL510 Utility Installation Screen

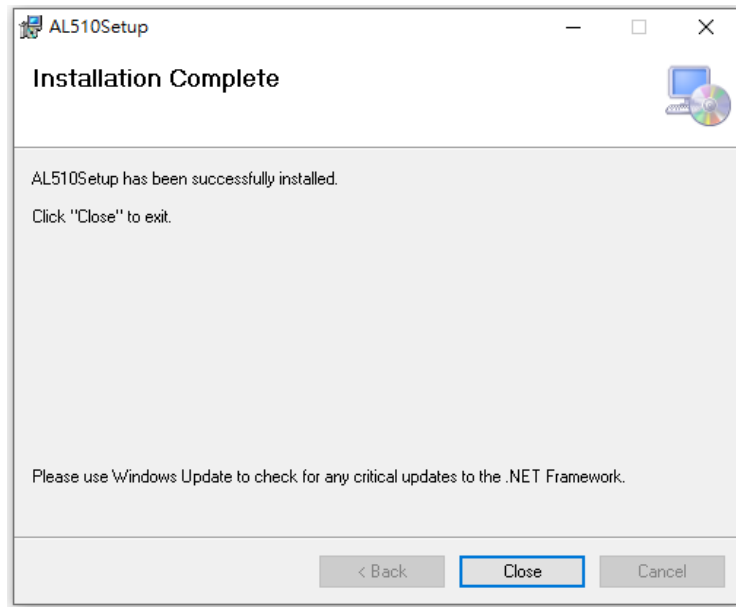


Figure 5. Installation Complete Screen



Figure 6. Display Desktop Icon

C. System Functions

- Multiple reader connections

Multiple readers can be connected at the same time.

- Support three interfaces

Provide TCP RS232 USB-HID 3 types of connection interfaces for users.

- Inventory

Provide inventory function of different data format return.

- Read

Provide the function of reading tag banks.

- Write

Provide users with writing functions for tags and banks.

- Lock

Provide users with a lock function for tags and banks.

- Settings

Provide users with reader setting functions: basic settings, connection settings, read settings, etc.

- Automatic Reading Mode

Turn on this function to make the reader enter the automatic reading mode after power on.

D. Operation Steps

1. Start Program

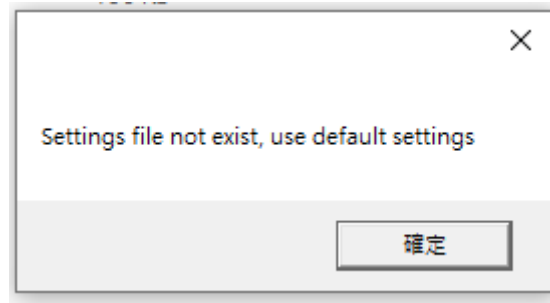


Figure 7. Using The Default Settings

- ◆ The system will start with the default settings, please click OK.

2. System Screen

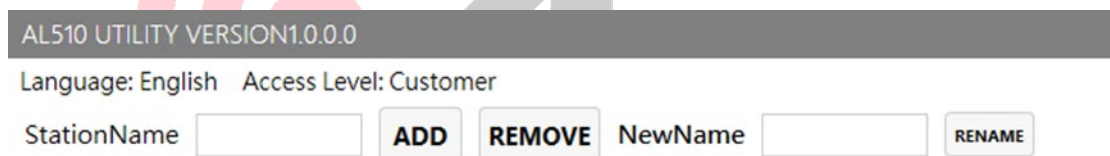


Figure 8. System Screen

- ◆ Display the currently set reader
- ◆ Enter the reader name (station name) according to user preferences and click Add

3. Reader Main Screen

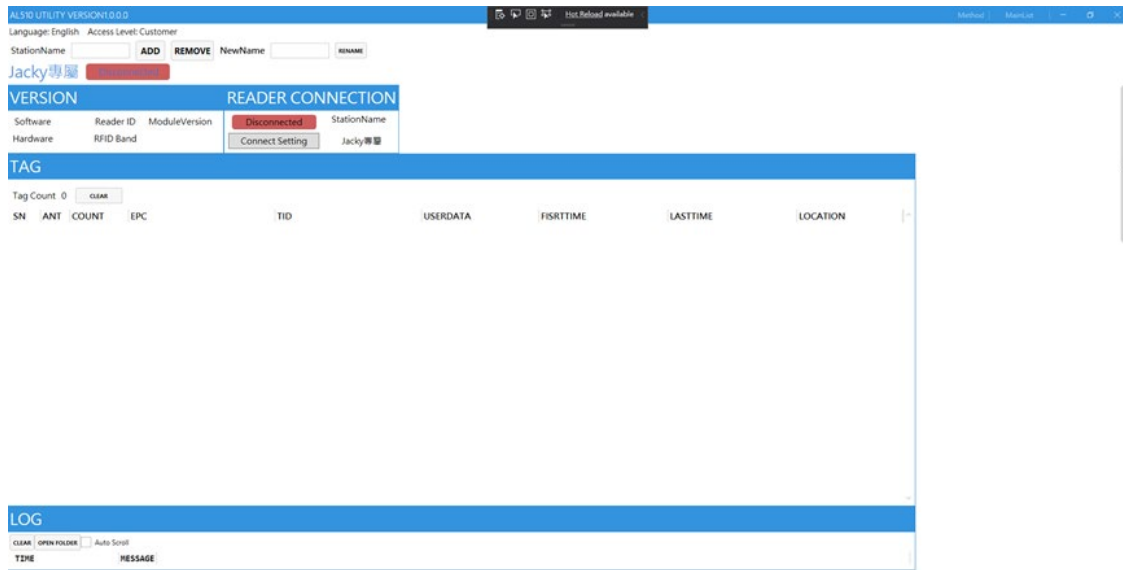


Figure 9. Reader Main Screen

- ◆ After clicking the connection settings, it will pop up the connection settings.

4. Connection Settings

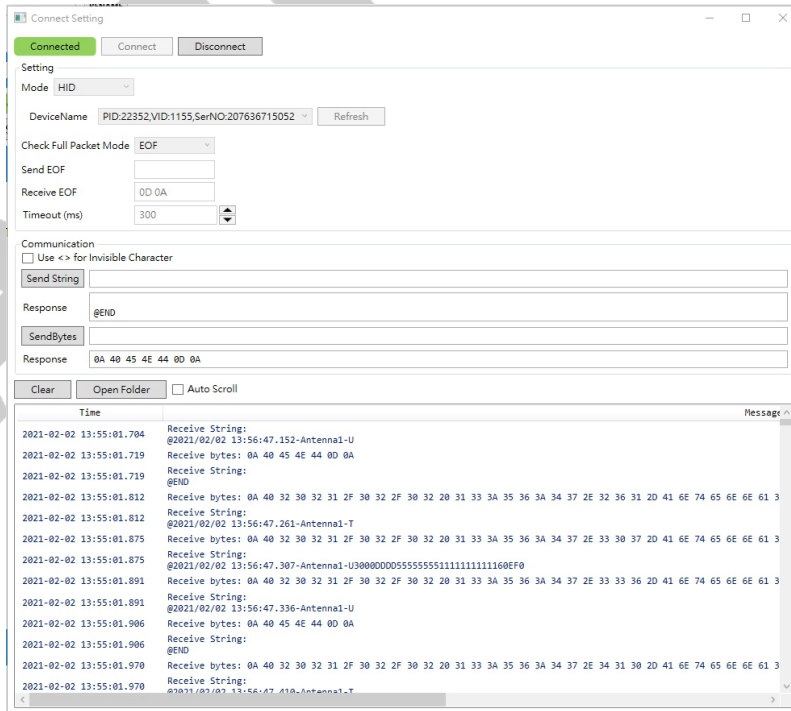


Figure 10. Connection Settings

- ◆ Support TCP, RS232, USB-HID three different interfaces
- ◆ Please leave empty on “Send EOF” and check if “Receive EOF” are 0D 0A
- ◆ After successful connection, the connection box will show green and the text "Connected"

5. Method

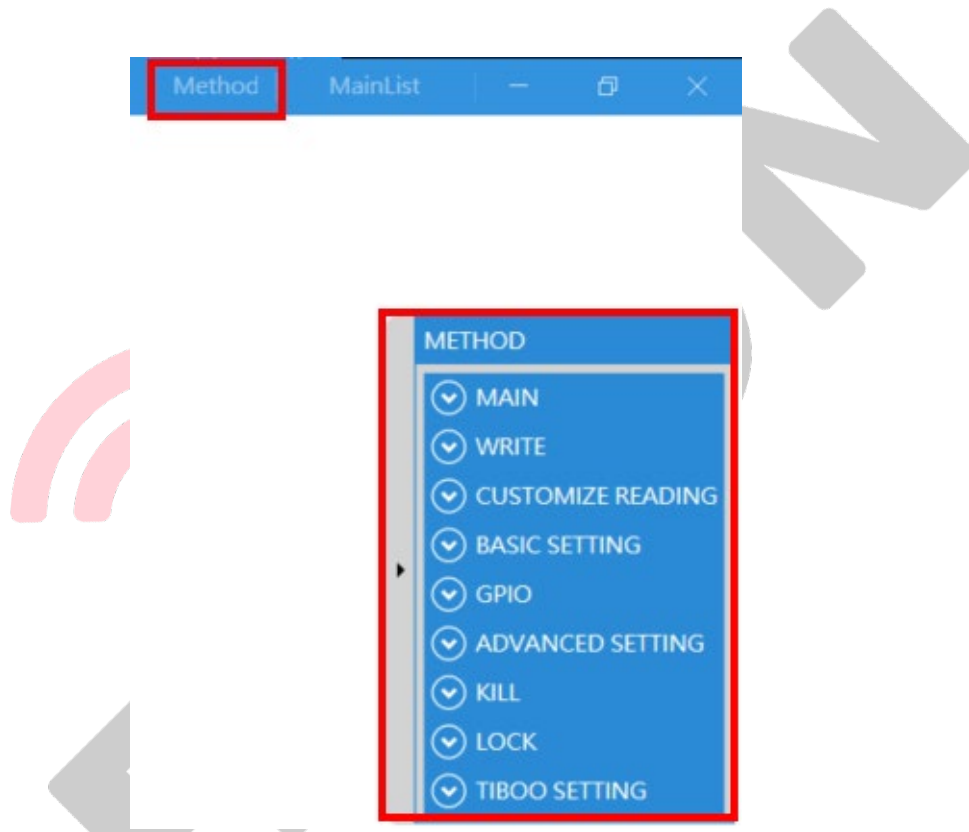


Figure 11. Method Menu

- ◆ Click the method in the upper right corner to show some methods of using the reader

6. Main

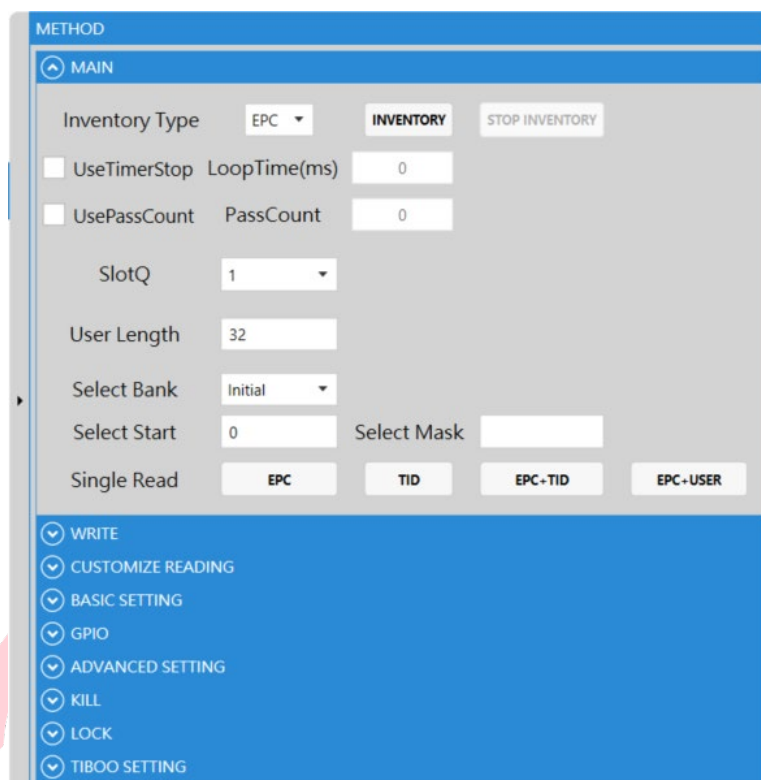


Figure 12. Main Block

◆ Parameter

- Inventory Type : Which bank of tag you want to inventory
- Loop Time : How many seconds it will stop after inventory
- Pass Count : After the same tag is read the specified number of times, the tag display column will be green
- Slot Q : According to the number of tags in the field to set the value
- User Length : If the inventory is in user mode, you need to set the length of the data to be read and length of return data
- Select Bank : Which bank of tag you want to select
- Select Start : Select start position
- Select Mask : Select the mask of data
- Single Read : Select the read bank, read the tag once (single tag antenna needs to be set first), and only one tag can exist in the reading field

- ◆ Method
 - Inventory : Start Inventory
 - Stop Inventory : Stop Inventory

7. Write

Figure 13. Write Block

- ◆ Parameter
 - Write Bank : Which bank of tag you want to write data
 - Start : The starting position of writing data
 - Data : The content of the data to be written
 - Target Bank : Select bank
 - Password : Access Password
 - Bank Mask : Mask data of the target bank
- ◆ Method
 - Write : Write tag

8. Customize Reading

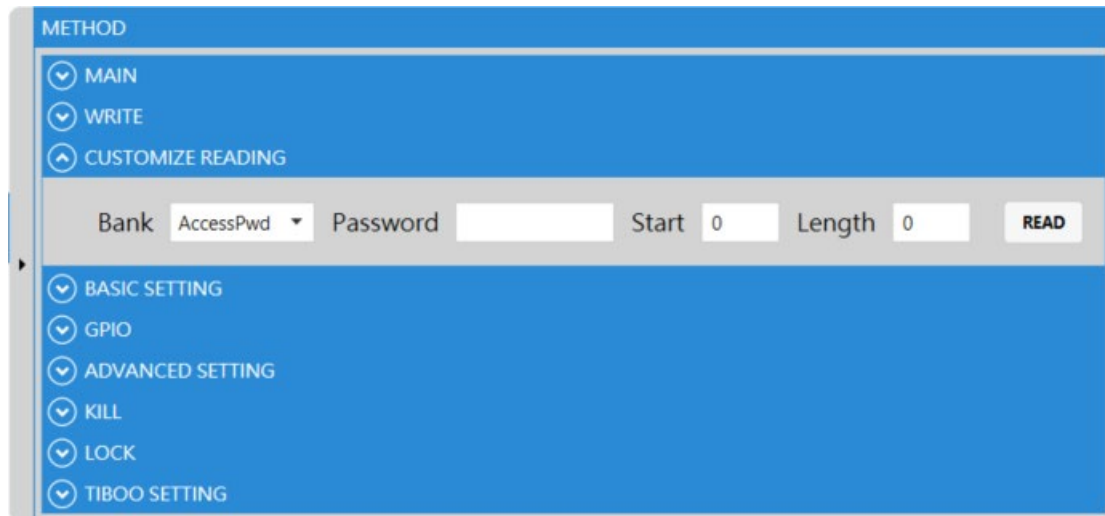


Figure 14. Customize Reading

◆ Parameter

- Bank : Read bank
- Password : Access Password
- Start : The starting position of reading data
- Length : The length of the data to be read

◆ Method

- Read : Start read

9. Basic Setting

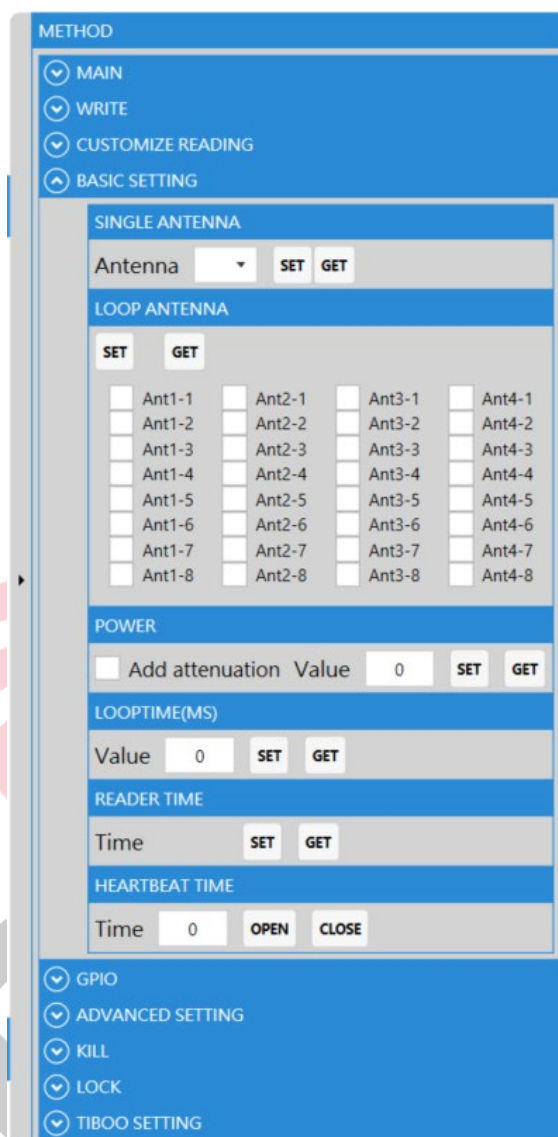


Figure 15. Basic Setting

- ◆ Antenna : When using a single antenna, you need to set which antenna to use
- ◆ Loop Antenna : Before using the inventory function, you must set which loop antennas to use first
- ◆ Power : Set the power of the reader
 - Some readers support attenuation value (depending on reader version)
- ◆ Loop Time : When the polling antenna is activated, the reading time by each antenna

- ◆ Reader Time : Check the current time of the reader, and set the current computer time
- ◆ Heartbeat Time : Set how often the reader sends a heartbeat message to confirm it is operated normally.

10. GPIO

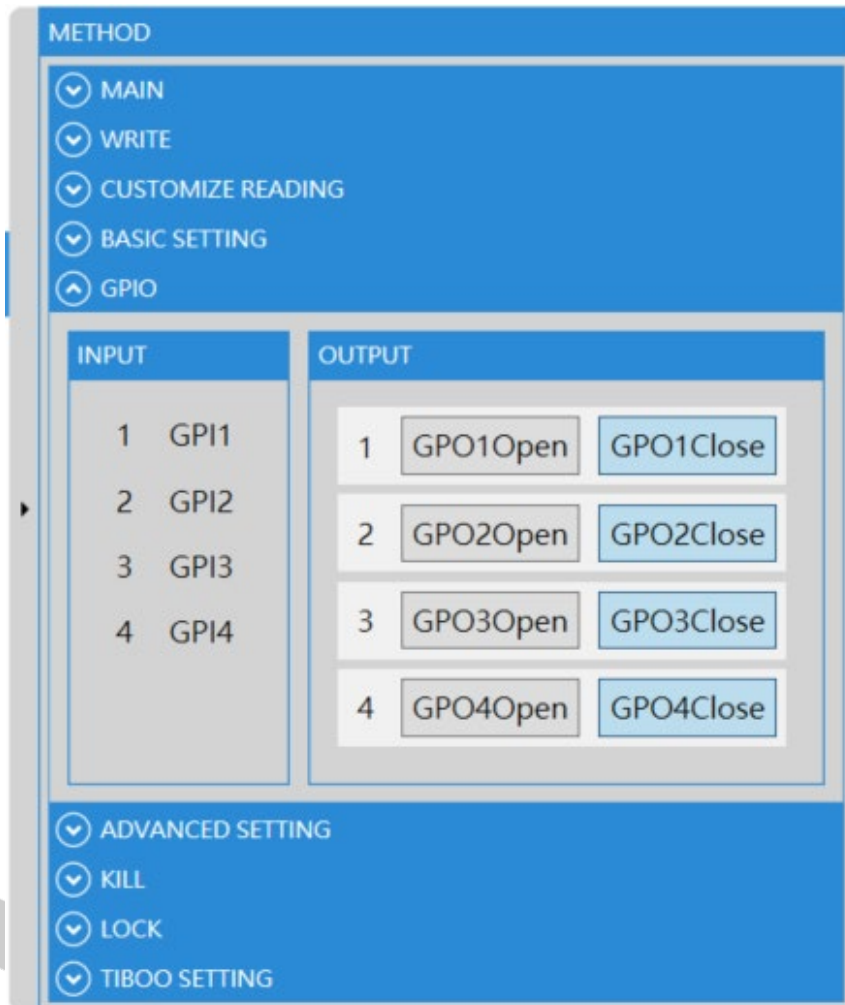


Figure 16. GPIO Block

- ◆ Input : When an input signal comes in, the corresponding block of Input will light up
- ◆ Output : Turn on or off the trigger output switch by setting

11. Advanced Settings

The screenshot displays a web-based configuration interface for advanced settings. The interface is organized into several sections:

- METHOD:** A sidebar menu with options: MAIN, WRITE, CUSTOMIZE READING, BASIC SETTING, GPIO, and ADVANCED SETTING (selected).
- WIFI AP SETTING:** Fields for 'Wifi AP' and 'Password', with a 'SET' button. Below are 'START' and 'STOP' buttons.
- WIFI IP SETTING:** Two buttons: 'OPEN DHCP' and 'CLOSE DHCP'. Fields for 'Reader IP', 'Port' (set to 0), 'SubnetMask', and 'Default Gateway' with a 'SET' button.
- SET TARGET IP:** Fields for 'ConnectTargetIP' and 'Port' (set to 0), with a 'SET' button.
- AUTO READ MODE:** 'START' and 'STOP' buttons.
- LEARN MODE:** 'Read Mode' dropdown (set to EPC), 'Delay(millisecond)' field (set to 700), and a 'LEARN' button.
- TRIGGER OPEN AUTOREADMODE:** 'GPI' dropdown (set to 1), 'LowLevel' dropdown, and 'START'/'STOP' buttons.
- SESSION:** 'Session' dropdown (set to Session0), 'Target' dropdown (set to TargetA), and 'SET'/'DISABLE' buttons.
- USB PROTOCOL:** 'SETKEYBOARD' and 'SETHID' buttons.
- GET WIFI IP:** A 'GET' button.
- REBOOT:** A 'REBOOT' button.

At the bottom, there are additional menu options: KILL, LOCK, and TIBOO SETTING.

Figure 17. Advanced Settings

- ◆ **WIFI AP Setting :**

After entering the Wifi AP and password, reboot the reader to connect to WIFI

- ◆ **WIFI IP Setting :**

You can obtain the reader Wifi IP automatically or manually in WIFI mode; if you want to obtain it automatically, please click "Turn on DHCP", if you want to obtain it manually, please click "Close DHCP"

- ◆ **Set Target IP**

- **Connect Target IP :** The read data directs to the server IP
- **Port :** The read data directs to the Server Port

- ◆ Auto Read Mode : If the reader is set up with a script, click start, it will execute the successfully created script in the reader.
- ◆ Learn Mode : Set the basic read mode in reader main screen
 - Read Mode : Which bank of tag you want to set
 - Delay : Pause time at the end of each reading mode
- ◆ Trigger Open Auto Read Mode : You can set which Input status is, then it will automatically trigger the automatic reading mode
 - GPI : Set the event that will be triggered by the corresponding Input
- ◆ Session : Can be used to adjust Session and Target
- ◆ USB Communication : There are two modes (keyboard mode, HID mode)
 - Keyboard Mode : During automatic reading, the tag data will be read using the keyboard mode output
 - HID Mode : During automatic reading, the tag data will be read through the HID mode output
- ◆ Get WIFI IP : Get the currently connected WIFI IP
- ◆ Reboot : Restart the reader

12. Kill

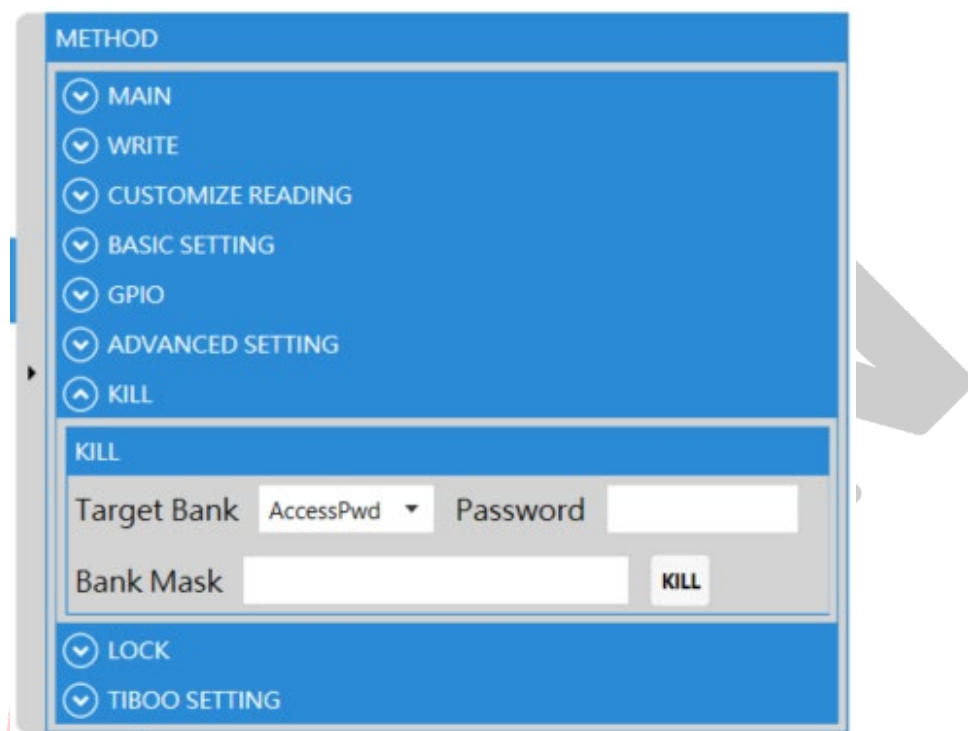


Figure 18. Kill Block

- ◆ Parameter
 - Target Bank : Select bank
 - Password : Kill Password
 - Bank Mask : Mask data of the target bank
- ◆ Method
 - Kill : Void tag

13. Lock

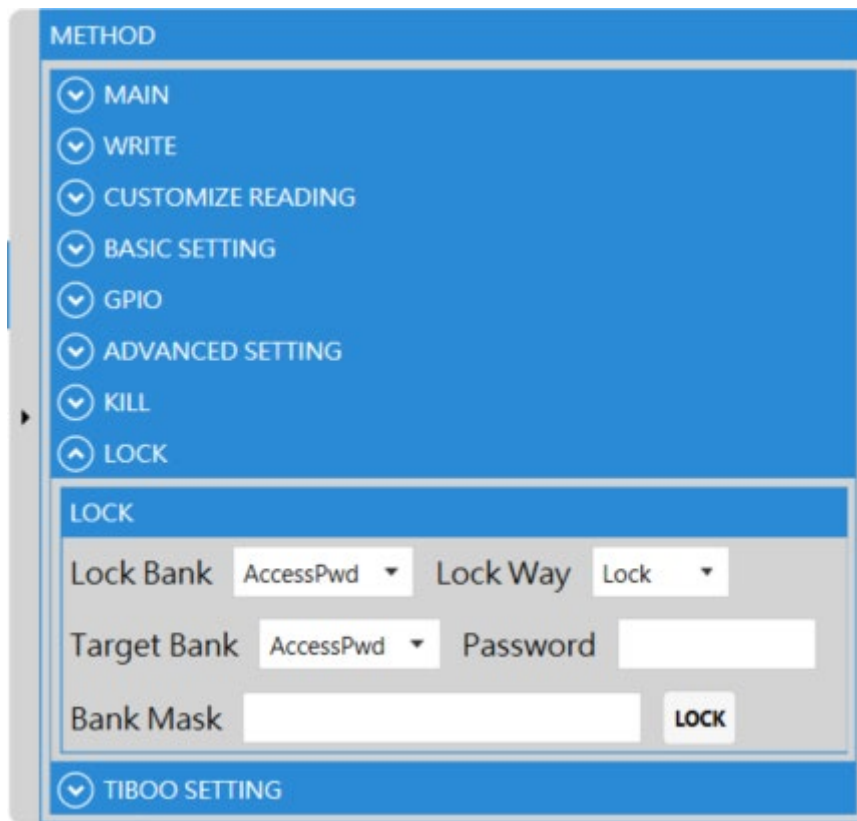


Figure 19. Lock Block

- ◆ Parameter
 - Lock Bank : Which bank of tag you want to lock
 - Lock Way
 - ◆ Lock : General lock
 - ◆ Permal Lock : Permanent lock
 - ◆ UnLock : unlock
 - Target Bank : Select bank
 - Password : Access password
 - Bank Mask : Mask data of the target bank
- ◆ Method
 - Lock : Lock Tag

14. Tibbo setting (TCP connection only)

METHOD

- MAIN
- WRITE
- CUSTOMIZE READING
- BASIC SETTING
- GPIO
- ADVANCED SETTING
- KILL
- LOCK
- TIBOO SETTING

IP Address

GateWay

NetMask

Port

Destination IP

Destination Port

Routing Mode

DHCP IsOpen

Figure 20. Tibbo Setting

◆ Parameter

- IP Address : Set the IP of the reader
- Gateway : Set the default gateway of the reader
- NetMask : Set the subnet mask of the reader
- Port : Set the port of the reader
- Destination IP : The server IP to be pointed after the reader

reads the data

- Destination Port : The server port to be pointed after the reader reads the data
- Routing Mode : Set the reader execution mode
 - ◆ Server
 - ◆ Client
 - ◆ Server or Client
- DHCP : Whether to enable DHCP
- ◆ Method
 - Set
 - Refresh : Get current information of the reader