ARIZON

AL510 Utility Manual

Arizon RFID Technology (Hong Kong) Co., Ltd. Taiwan Branch

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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 石佃 親望 🙀 AL510Setup.msi Windows Installer 封裝 Figure 1. Installation file 2. Click AL510Setup.msi 🕷 AL510Setup х Welcome to the AL510Setup Setup Wizard The installer will guide you through the steps required to install AL510Setup on your computer. WARNING: This computer program is protected by copyright law and international treaties. Unauthorized duplication or distribution of this program, or any portion of it, may result in severe civil or criminal penalties, and will be prosecuted to the maximum extent possible under the law. < Back Next> Cancel

Figure 2. AL510 Utility Installation Screen

3. Select the installation folder



Figure 3. AL510 Utility Installation Screen

4. Confirm Installation

🛃 AL510Setup		_	□ ×
Confirm Installation			5
The installer is ready to install AL510Se	etup on your computer		
Click "Next" to start the installation.			
	(Deels	Marchis	Coursel

Figure 4. AL510 Utility Installation Screen

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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

AL510 UTILITY VERSION1.0.	0.0			
Language: English Access	Level: Custom	ner		
StationName	ADD	REMOVE	NewName	RENAME
 Disp Ente prefe 	Fig lay the curr r the reader erences and	ure 8. Syster rently set re name (sta click Add	n Screen eader tion name) accordin	ng to user

3. Reader Main Screen

AL510 UTILITY VERSION1.0.0.0	□ 〒 ● ● ■ Hitteland webble : Merked Market ー の ×
Language: English Access Level: Custom StationName ADD	REMOVE NewName REMOVE
Jacky專屬 Environment	
VERSION	READER CONNECTION
Hardware RFID Band	Connect Setting Jacky
TAG	
Tag Count 0 CARAR	
SN ANI COONI EPC	
LOG	
CLEAR OPEN FOLDER Auto Scroll	
TINE MESSAGE	
4. Conne	ection Settings
-	
	Connect Setting - X
	Setting
	Mode HID ~
	DeviceName PID:22352,VID:1155,SerNO:207636715052 Y Refresh
	Check Full Packet Mode EOF V Send EOF
	Receive EOF 0D 0A
	Timeout (ms) 300
	Communication
	Send String
	Response gEIID
	SendBytes Response 0A 49 45 4E 44 00 0A
	Clear Open Folder Auto Scroll
	Time Messagr A
	2021-02-02 13:55:01.704 Receive 5rting: g2021/02/02 13:56:47.152-Antennal-U 2021-02-02 13:55:01.719 Receive brts: 0A 40 45 4E 44 00 0A
	2021-02-02 13:55:01.719 Receive String: @END
	2021-02-02 13:55:01.812 Receive bytes: 0A 40 32 30 32 31 2F 30 32 2F 30 32 20 31 33 3A 35 36 3A 34 37 2E 32 36 31 20 41 6E 74 65 6E 6E 61 3 2021-02-02 13:55:01.812 Receive String:
	g2021/02/02 13:56:47.261-Antennal-T 2021-02-02 13:55:01.875 Receive bytes: 0A 40 32 30 32 31 2F 30 32 2F 30 32 20 31 33 3A 35 36 3A 34 37 2E 33 30 37 2D 41 6E 74 65 6E 6E 61 3
	2021-02-02 13:55:01.875 g2021/02/02 13:55:47,307-Antennal-U300000005555555111111111160EF0 2021-02-02 13:55:01.801 2021-02-02 13:55:01 2021-02-02 13:55:01 2021-02-02
	2021-02-02 13:55:01.091 Receive String: 2021-02-02 13:55:01.091 Receive String:
	2021-02-02 13:55:01.906 Receive bytes: 0A 40 45 4E 44 0D 0A
	2021.02.02 13:55.01 gas Receive String:
	2021-02-02 13:55:01.906 Receive String: 2021-02-02 13:55:01.906 Receive bytes: 0A 40 32 30 32 31 2F 30 32 2F 30 32 20 31 33 3A 35 36 3A 34 37 2E 34 31 30 2D 41 6E 74 65 6E 6E 61 3

Figure 10. Connection Settings

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- 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

Method Mai	nLis	t - 6	3 ×	
		METHOD MAIN MRITE CUSTOMIZE BASIC SETTI GPIO ADVANCED KILL KILL LOCK TIBOO SETT	READING NG SETTING	
Figure Click the method of using the reader	; 11. in tl r	Method Menu ne upper right c	corner to a	show some methods

6. Main

					1
Inventory Type	EPC 🔻	INVENTORY	STOP INVENTORY		
UseTimerStop l	.oopTime(ms)	0			
UsePassCount	PassCount	0			
SlotQ	1 *				
User Length	32				
Select Bank	Initial 🔹				
Select Start	0	Select Mask			
Single Read	EPC	TID	EPC+TID	EPC+USER	
♥ WRITE					
	NG				
BASIC SETTING					
GPIO					
	G				

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

METHOD	
⊘ MAIN	
WRITE	
Write Bank AccessPwd Start 0	
Data	
Target Bank AccessPwd Password	
Bank Mask WRITE	
O CUSTOMIZE READING	
BASIC SETTING	
GPIO	
O ADVANCED SETTING	
○ KILL	

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



9. Basic Setting

	MN								
WR	NTE								
🕑 cu	STON	MIZE R	EADIN	G					
⊙ BA	SIC S	ETTING	6						
9	SING	LE ANT	ENNA						
1	Ante	nna	•	s	ET	GET			
	LOOP	ANTE	NNA						
	SET	GE	T						
	Ε	Ant1-1 Ant1-2 Ant1-3		Ant2 Ant2 Ant2	-1		Ant3-1 Ant3-2 Ant3-3		Ant4-1 Ant4-2 Ant4-3
		Ant1-4 Ant1-5 Ant1-6		Ant2 Ant2 Ant2	-4		Ant3-4 Ant3-5 Ant3-6		Ant4-4 Ant4-5 Ant4-6
		Ant1-/ Ant1-8		Ant2 Ant2		E	Ant3-7 Ant3-8	Ы	Ant4-7 Ant4-8
	-0.00	EK							
	A	dd at	tenua	tion	Va	lue	0	SET	GET
4	OOP	TIME(MS)						
١	Valu	e	0	SET	G	ET			
F	READ	ER TIM	IE						
1	Time	•		SET	GE	т			
	IEAR	TBEAT	TIME						
1	Time	e (0	OPEN		CLOSE			
🕑 GP	ю								
	VAN	CED SE	TTING						
🕑 KIL									

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





- 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

1	METHOD														
		AIZE READI	NG												
	🕑 BASIC SE	etting													
	© GPIO														
	WIFI AP SET	ITING						AUTO RE	AD MC	DDE					
	Wifi AP			Password	d l		SET	START	STOP						
	WIFI IP SET	TING						LEARN M	ODE						
	OPEN DHCP	CLOSE D	нср					Rea	d Mo	de	EPC	•			
	Reade	er IP						Delay(n	nillise	cond)	700		u	EARN	
	Por	Port 0						TRIGGER OPEN AUTOREADMODE							
	Subnet	Mask						GPI 1	•	LowLev	vel 🔻	START	STOP		
	Default G	ateway			SET			SESSION							
	SET TARGET	T IP					90.	Session	Ses	sion0 🔻	Targe	t Target	A •	SET	DISABLE
	ConnectT	FargetIP			Port	0	SET	USB PRO	τοςοι	Ļ					
		_	<u> </u>					SETKEYBO	ARD	SETHID					
								GET WIFI							
								GET							
								REBOOT							
								REBOOT							
	🕑 KILL														
	🕑 TIBOO S	ETTING													

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

 MAIN WRITE CUSTOMIZE READING BASIC SETTING GPIO ADVANCED SETTING KILL 	
 WRITE CUSTOMIZE READING BASIC SETTING GPIO ADVANCED SETTING KILL 	
 CUSTOMIZE READING BASIC SETTING GPIO ADVANCED SETTING KILL 	
 BASIC SETTING GPIO ADVANCED SETTING KILL 	
 ◇ GPIO ◇ ADVANCED SETTING ◇ KILL 	
 ⊘ ADVANCED SETTING ⊘ KILL 	
KILL	
Target Bank AccessPwd Password	
Bank Mask KILL	
⊙ LOCK	
♥ TIBOO SETTING	
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

\odot	MAIN	
\odot	WRITE	
\odot	CUSTOMIZE READING	
\odot	BASIC SETTING	
\odot	GPIO	
\odot	ADVANCED SETTING	
\odot	KILL	
\odot	LOCK	
LO	ск	
Lo	ck Bank AccessPwd Lock Way Lock	ik ▼
Ta	rget Bank AccessPwd Password	
		10.5%

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	
	O ADVANCED SETTING	
	⊗ KILL	
	⊙ LOCK	
	IP Address	
	GateWay	
	NetMask	
	Port 0	
	Destination IP	
	Destination Port 0	
	Routing Mode Server -	
	DHCP IsOpen	
	SET REFRESH	
	Figure 20. Tibbo Setting	
◆ Par	ameter	
	IP Address : Set the IP of the reader	
•	Gateway: Set the default gateway of the	e reader
•	NetMask : Set the subnet mask of the re-	eader
•	Port: Set the port of the reader	
•	Destination IP : The server IP to be poi	nted after the reader
	19	

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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