

VI-83F

RFID Integrated Reader

Software operation manual

- Shenzhen Vanch Intelligent Technology Co., Ltd has the right to do revisions for hardware, software and manual of product without statement. And this manual is subject to change without notice.
- Specifications and power of this product is subject to standard in origin. please being sure that voltage is up to requirement, read and learn about safety precautions, especially in open-air installation of outdoor.

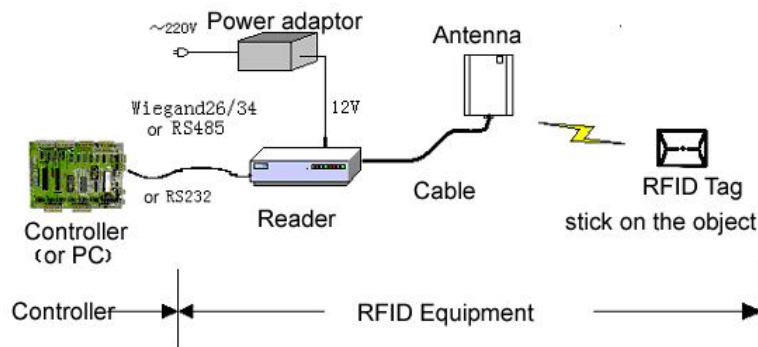
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1 Software Operation

1.1 Set up testing system

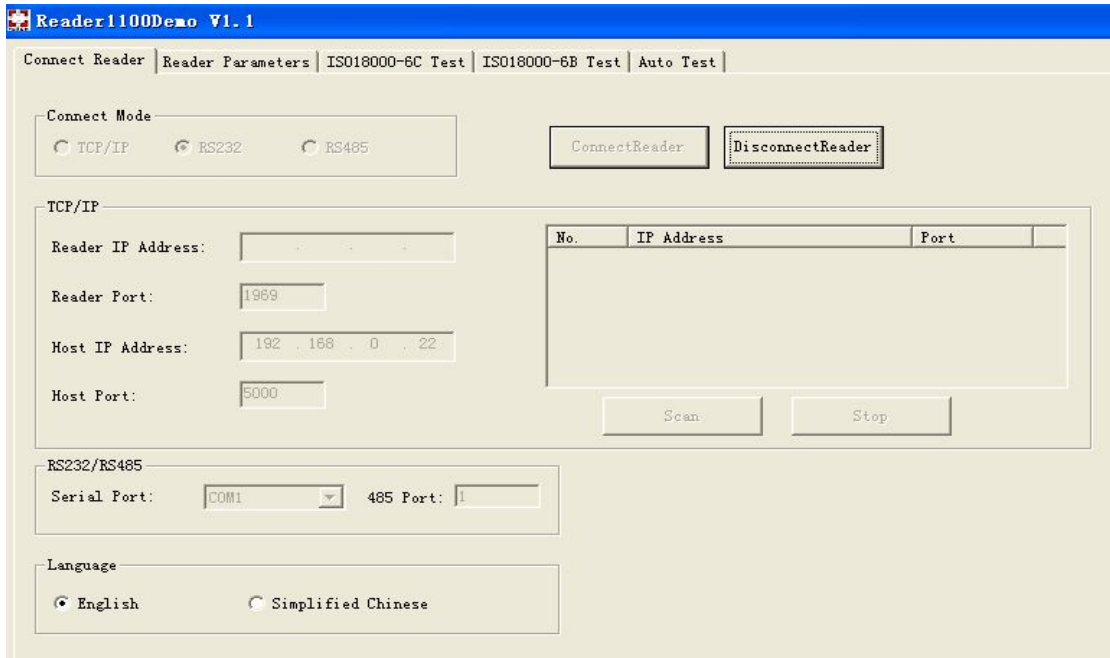
Connect the equipment as illustrated below, structure a simple reader testing system in the studio:



- (1) Connect the reader to PC through the RS232.
- (2) Run the Demo software of the reader on PC, set reader parameters and test reading, writing for the reader according to the notes below.

1.2 Start up test software

The CD-ROM for VI-83F contains 『application software』 Demo.exe, this program needs to be in the running in under the environment of Microsoft Windows XP or higher version or the operating system IBM pc-compatible computers. Run Demo. exe to start this software.



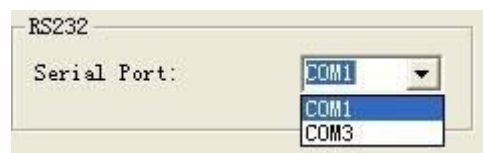
1.2.1 RS232 Connection

Computer can communicate with reader through serial port (RS232). The User need to to do initialized Settings through a serial port when start to set the reader, like set IP address to connect to network.

1. Select the output port, see below.



2. Select the serial port for reader and PC.



3. Click 『ConnectReader』 button, if connected success, Popup the following clew box.



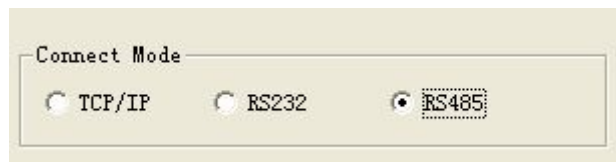
4. If no reader connected to PC through this serial port, or the selected serial port is wrong, the connection will fail, Popup the following clew box.



1.2.2 RS485 Mode connection

Computer can implement data exchange with reader through RS485 port.

1. Select the output port, see below.



2. Select the serial port for reader and PC.



3. Click 『ConnectReader』 button, if connected success, Popup the following clew box.



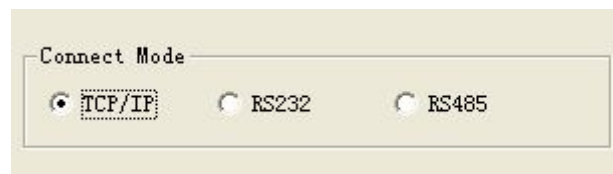
4. If no reader connected to PC through this serial port, or the selected serial port is wrong, the connection will fail, Popup the following clew box.



1.2.3 Network connection

Upper Computer can implement data exchange with reader through (TCP/IP) .

1. Select the network connection mode, see below.



2. Select the reader IP address from the below clew box.

| No. | IP Address | port | |
|-----|---------------|------|--|
| 1 | 192.168.7.62 | 1969 | |
| 2 | 192.168.7.63 | 1969 | |
| 3 | 192.168.7.66 | 1969 | |
| 4 | 192.168.7.64 | 1969 | |
| 5 | 192.168.7.65 | 1969 | |
| 6 | 192.168.7.68 | 1969 | |
| 7 | 192.168.7.69 | 1969 | |
| 8 | 192.168.7.100 | 1969 | |

3. Or input the IPAddress of Reader and Port of Reader directly, as below;

TCP/IP

Reader IP Address: 192 . 168 . 1 . 100

Reader Port: 1969

- Click 『ConnectReader』 button, if connect success, popup the below clew box.



- If the reader disconnected to PC through RJ45 port, or the the inputted IP information is wrong, the connection will fail, Popup as below



- When the user not sure the IP address , chick "Scan", the matched IP are listed :

| No. | IP Address | Port |
|-----|------------|------|
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

Scan Stop

1.3 Set reader parameter

Below is the operation page for setting parameter for VI-83F-

『Reader parameter』 :

(1) Select Operation Mode

There are 2 modes for VI-83F as below:

- ◆ **Command:** readers begin to work after receive legal control command through RS232 or RS485, and return the command results through that port.
- ◆ **Auto:** the reader read tags automaticly and interval,and output the reading results through setting port (Wiegand and RS485 or RS232) when successful. No ourput If read fail or read illegal tag (need

validation) .

Remarks:

- ✧ **Command mode is default setting, unless the user select Timing mode when run the reader**
- ✧ **Reader no response any instruction in Command work mode, unless below :**
 - 1: Get Version number 2: Set working status (start or stop auto mode) 3: Clear memory 4: Read the record 5: Update 6 reset.
- ✧ **should select "stop Auto" so that get to command mode or run other else setting when in Auto mode**

(2) Basic Parameters

No matter in which operation mode, The user need to set 4 parameters as below

- ◆ Baud Rate of RS232/485 Port: set communication rate of RS232 and RS485 port, 9600, 19200, 38400, 57600, 115200bps option
- ◆ Max Tags of once Reading: Set the MAX number of labels to read at one time. The quantity on Max Tags of once Reading is according to the requirements. And the less the reading race fast.
- ◆ RF Power Output: output power for the reader. Usually this param has been set to the optimal before EX-factory. If the profermance is good, please don't modify this param.
- ◆ Min. Frequency of Carrie): set the min operation frequency for the reader.
- ◆ Max. Frequency of Carrier: set the max operation frequency for the reader.

For different countries or regions, there are corresponding choices in the listed working frequency based on local radio rules requirement. Users can choose sensitive frequencies according to local conditions. If choose a Fixed Frequency point, set the Min. Frequency equal same as to Max.Frequency; If Frequency hopping, can choose the Min. Frequency of Carrier for fmin, Max.Frequency of Carrier for fmax, as long as $f_{max} > f_{min}$. As below:

Basic Parameter

| | |
|-----------------------------------|------------|
| BaudRate of RS232/RS485 Port: | 115200 |
| Min Frequency of Carrier (MHz): | 01--920825 |
| Max Frequency of Carrier (MHz): | 16--924375 |
| RF Power Output (0-63): | 50 |
| Address of Reader (1-254): | 1 |
| Max Tags of once Reading (1-100): | 2 |

- ◆ Setting buzzer:

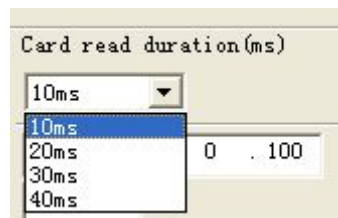
☐ Enable Buzzer Close buzzer, the buzzer don't sound when identified

tags, only tag information displayed on the PC

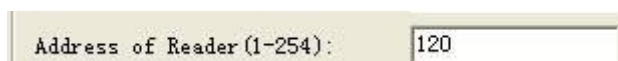
☒ **Enable Buzzer** Open the buzzer, the buzzer sound when identified tags, and tag information displayed on the PC

◆ Card read duration(ms)

10,20,30,40 ms option, the longer the less miss-reading

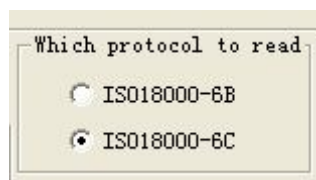


RS485 network: Can make networking through RS485. The user need to set an address for each reader before make networking, and enable the reader can connect with PC through TCP/IP. Address range: 1 to 254.



Remarks: 1 and 254 are broadcast address, all readers will return application information after receive command with broadcast address.

◆ Which protocol to read(ISO18000-6B,6C option)



(3) Set network parameter

The user should set the network parameter when connect the reader to PC by TCP/UDP.

Set Buzzer

☒ Enable Buzzer

Card read duration(ms)

10ms

IP Parameters for Reader

IP Address: 192 . 168 . 0 . 100

Port: 1969

Mask: 255 . 255 . 255 . 0

Gateway: 192 . 168 . 0 . 1

MAC: 010203040506

Remarks: The repeated MAC address is no permit

(4) Set Relay (Option)

◆ Relay work: Check Relay1 and Chick SetRelayStay

Set Relay (Option)

☒ Relay1

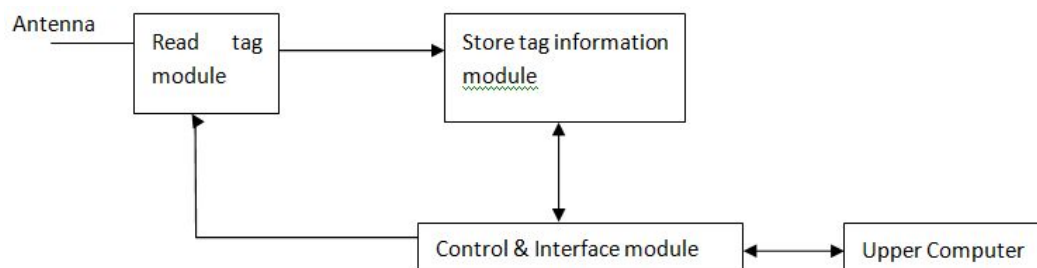
GetRelayStat SetRelayStat

◆ Relay work off: No check Relay1

Remarks: Relay is option function, parts readers without this function

(5) Auto Mode Parameters

◆ Working process



- ✧ Read tag module: In Charge of Reading only, Timing or Triggering work way option. The User can set on Interval of reading, Reading from which Antenna, Triggering level, which type of tag to be read
- ✧ Store tag information module: In charge of Store read-tag information, such as the reading time, store capacity.
- ✧ Control & Interface module: Manage the process of reading and exchange data with Upper computer.

◆ Work way: Continuing or Trigger

- ✧ Continuing: the reader read tags in interval, and output the reading results through setting port (Wiegand and RS485 or RS232) when successful. No output If read fail or read illegal tag (need validation) .
- ✧ Trigger: reader detects signal variation on FIN1 pins automatically, when detect low electricity at ordinary times; reader starts to send a signal, read label numbers. When FIN1 pins in high level, stop reading card. The readed card number output through the setted data port. If read invalid card, then output 0xffffffff. There are 2 modes: Low Level or High Level

Parameters for Auto Mode

Auto Mode
☐ Continuing ☒ Trigger

Read from which Antenna
☒ ANT1

Wiegand Port Format
Pulse Width(*10us): 40
Pulse Interval (*10us): 200

Trigger Mode
☒ Low Level ☐ High Level

- ◆ Reading from which antenna : Only ANT1

Read from which Antenna
☒ ANT1

- ◆ Port for Output

Port for Output
☒ RS232 ☐ RS485 ☐ RJ45 ☐ Wiegand26 ☐ Wiegand34

Remarks: If output is Wiegand, interval is 1s for output Tag ID

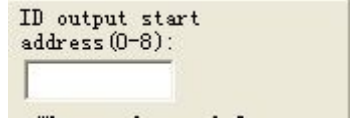
- ◆ Wiegand output format

3 output forms on Pulse Width & Pulse Interval .Pulse Width IS 40 and Pulse Interval is 200 are default setting.

| Pulse Width | Pulse Interval | Output waveform Pulse Width | Output waveform Pulse Interval |
|-------------|----------------|--------------------------------|-----------------------------------|
| 40 | 200 | 400us | 2ms |
| 10 | 160 | 100us | 1.6ms |
| 5 | 100 | 50us | 1ms |

- ◆ ID Output start address (0-8)

It is for tag ID, there is 8Bytes on Tag ID, address0-8



ID output start
address (0-8) :

- ✧ The relationship among ID Output start address, tag protocol
,output ID (output is Wiegand 26)

| ID Output start address | ISO18000-6C (112233445566778899001122) | ISO18000-6B (E0044BDF23010000) |
|----------------------------------|---|-----------------------------------|
| 0 | 223344 | 044BDF |
| 1 | 334455 | 4BDF23 |
| 2 | 445566 | DF2301 |
| 3 | 556677 | 230100 |
| 4 | 667788 | 010000 |
| 5 | 778899 | Unuseble |
| 6 | 889900 | Unuseble |
| 7 | 990011 | Unuseble |
| 8 | 001122 | Unuseble |

- ✧ The relationship among ID Output start address, tag protocol
,output ID (output is Wiegand 34)

| ID Output start address | ISO18000-6C (112233445566778899001122) | ISO18000-6B (E0044BDF23010000) |
|----------------------------------|---|-----------------------------------|
| 0 | 22334455 | E0044BDF |
| 1 | 33445566 | 044BDF23 |
| 2 | 44556677 | 4BDF2301 |
| 3 | 55667788 | DF230100 |
| 4 | 66778899 | 23010000 |
| 5 | 77889900 | Unuseble |
| 6 | 88990011 | Unuseble |
| 7 | 99001122 | Unuseble |
| 8 | 00112200 | Unuseble |

- ✧ The relationship among ID Output start address, tag protocol
,output ID (output is RS232,485)

| ID Output start address | ISO18000-6C (112233445566778899001122) | ISO18000-6B (E0044BDF23010000) |
|----------------------------------|---|-----------------------------------|
|----------------------------------|---|-----------------------------------|

| | | |
|---|--------------------------|------------------|
| 0 | 112233445566778899001122 | E0044BDF23010000 |
| 1 | 112233445566778899001122 | E0044BDF23010000 |
| 2 | 112233445566778899001122 | E0044BDF23010000 |
| 3 | 112233445566778899001122 | E0044BDF23010000 |
| 4 | 112233445566778899001122 | E0044BDF23010000 |
| 5 | 112233445566778899001122 | E0044BDF23010000 |
| 6 | 112233445566778899001122 | E0044BDF23010000 |
| 7 | 112233445566778899001122 | E0044BDF23010000 |
| 8 | 112233445566778899001122 | E0044BDF23010000 |

◆ What to be read from Tag:

The User take UID number as tag ID general, sometime User define ID and take it due to Project requirement, especially in Access control case.

| | ISO18000-6C | ISO18000-6B |
|--------------------|-------------|-------------------------------|
| ID of the Tag | EPC | ID |
| SN Written by User | TID | The data from 220~223 of user |

✧ The relationship among output form, output tag ID bits and and tag protocol.

| | ISO-18000-6C | ISO18000-6B |
|----------------|--------------|-------------|
| RS232/485/RJ45 | All EPC bits | All ID bits |

| | | |
|------------|---|--|
| wiegand 26 | The operating param 『initial address of output card』 determin output 32bits of 64 bits ID | The operating param 『initial address of output card』 determin output 24bits of 64 bits ID |
| wiegand34 | The operating param 『initial address of output card』 determin output 32bits of 64 bits ID | The operating param 『initial address of output card』 determin output 32bits of 64 bits ID |

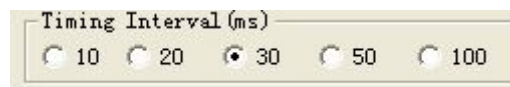
◆ Format for Output

Two ourput formats: Terse or Standard: Appendix A with destription



◆ Timing Interval: 10,20,30,50,100ms option, due to the object speed,

The fast the interval short



◆ Alarm:

Check Alarm in Auto work mode, that the read should check Alarm status before reading Tag EPC, If alarm, the relay closing for 4ms



◆ IP Paramters for Host

IP Parameters for Host

IP Address: 192 . 168 . 0 . 61

Port: 5000

☐ Enable Report to Host

The reader transfer tags ID to upper PC in Auto mode, so the IP Address of upper PC need to be setted

Remarks: Check “Enable Report to Host” means the reader output 00000000 EPC ID to upper pc if read nothing in Fixed time

- ◆ Condition of Report: the output tad ID way in Auto mode

Number of Tags: 100

Diapause of Report (s): 120

Condition of Report

☒ Direct

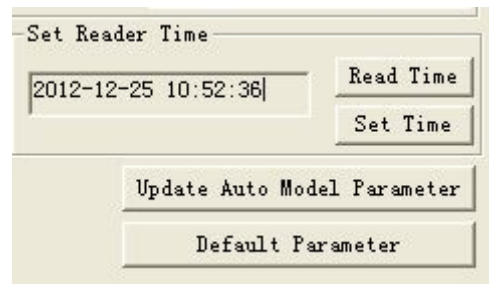
☐ Standard

☐ Timing

- ✧ Direct: output ID once read
- ✧ Standard: Tag ID output in interval on read frequently, difference ID output immediately
- ✧ Timing: read tag ID in interval, output the IDs once read, no matter recorded it before
- ◆ Number of tags : the max quantity of store tag ID which be read. If the quantity more than Max, the earliest record is instead by last one
- ◆ Diapause of reports: How long the read transfer the tag ID to upper PC

Remarks: the “Dispaude of reports” is workable in “Standard” or “Timing” report

(6) Set Reader Time



The 'Set Reader Time' dialog box contains a text field with the date and time '2012-12-25 10:52:36'. To the right of this field are two buttons: 'Read Time' and 'Set Time'. Below these buttons are two more buttons: 'Update Auto Model Parameter' and 'Default Parameter'.

✧ Read time : Upper PC get the what time of read

✧ Set time: Upper PC update the time to read

(7) Set Filter: Reader identify the coincident tags base on Filter



The 'Set Filter' dialog box has four input fields on the left: 'Start address of Tag EPC (bit):', 'Length of Tag EPC (bit):', and 'Tag Data(HEX):'. To the right of the first two fields are buttons 'GetFilter' and 'SetFilter'. Below these buttons is a checkbox labeled 'Control Relay'.

1; Start address of tag EPC, Bit unit, Such as 6

2: Length of Tag EPC, Bit unit, Such as 3

3: Tag data (hexadecimal): Such as 4

The setting is for continuous bit in tag ID, All coincident tags be read,

When the coincident Tag EPC NO.length is not on a multiple of 4 bits, fill 0 for completely. Such as EPC 053000000000000000000000 and FD7000000000000000000000 are both coincident tags, should be read.

Remarks: if ask to Alarm when read the coincident tag, check "Relay 1"

(8) Update Basic Paramter : for update the Basic Paremeter

(9) Update Auto Model Paramter: for update the Auto Paramter

(10) Default Paramter: Back to the default Paramter

2 The reading and writing test for Tag ISO18000-6C

2.1 The program for reading and writing

Four partitions:

- The four partitions are all with write protection. Write protection means unwriteable when in unsafe situation or never writeable
Read protection means unreadable on the password Partition

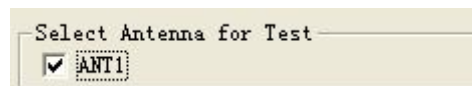
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- A. Selection: select a partition From 4 Partitions, then select tags according to specified data in this partition.
- B. Inquiry tag one by one: identify all the tags one by one based on the selection.
- C. Access: access an identified tag. Such as read& write the four partition, set read write protection and modify password

(3) Tips:

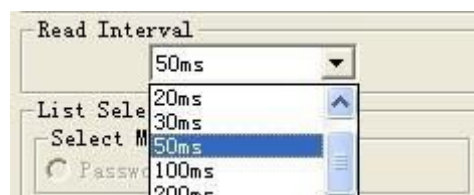
- A. 『No Tag!』 : read nothing
- B. 『The memory isn't exist』 store memory is not exist
- C. 『The memory has been protected』
- D. 『Power is not enough』
- E. 『Password is error』
- F. 『Write Fail ! 』
- G. 『Write Successfully』

(4) Set antenna.



(5) Set interval

The reading interval can select from: 10、 20、 30、 50、 100、 200 ,and 500ms, default is 50ms.



2.2 Transparent read the EPC No.

Operating steps are as below:

Firstly, select any bank except the password bank, such as EPC bank, see below:

Select Antenna for Test
☒ ANT1
 Read Interval
 50ms
 List Selected Tag
 Select Memory Bank
☐ Password ☒ EPC ☐ TID
 Address of Tag Data(bit): 0
 Length of Tag Data(bit): 0

Secondly, set the initial address of data bank to be zero, 0 represents identify all the tag in transparent. as below:

Address of Tag Data(bit): 0
 Length of Tag Data(bit): 0
 Tag Data(HEX):

 List EPC of Tag

Thirdly, click 『identify tag』 button, reader get EPC Number Based on the second step. The identified EPC No. showed in the top right corner 『show identified tag ID』 dialogue frame.

| List ID of Tags | | | | |
|-----------------|--------------------------|---------|-------|------------|
| No. | EPC | Success | Times | EPC Length |
| 1 | E20090553315018720503D61 | 86 | 274 | 06 |
| 2 | E200915050140104275004C1 | 16 | 274 | 06 |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

2.3 Get EPC No. according to the EPC data

According to the specific data segment in EPC bank, choose tags meet the condition, read the EPC number.

Operating steps are as below:

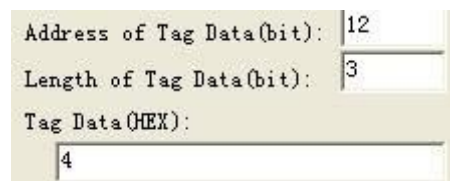
Firstly, select any bank except password bank, such as EPC bank, see below:



Secondly, set the 『initial address of data』 bank, unit with Bit, the start address only should be whole number Such as the 12.

Thirdly, set the 『length of the data』, unit by Bit, such as 3.

Fourthly, select 『Tag data (HEX)』 for the unit, such as 4, see below. Here the so-called conditions is aimed at a regional data in some tags consecutive patients (bit), who meet the conditions of the tag will be read. The length of the conditional values is not multiple 4Bits, low fill 0.



Fifthly, press "identification tag" button, reader began to read the label EPC number according to the first four steps setted conditions. Illustrate: see chart 5.1, radiation field have eight tag, if have to meet the conditions: data area initial address is 12, the data length is 3 (namely needs to compare three), selected data is C, the only one card whose ID 55555555555555555555555555555555 meet, and list to show, see figure 4.3 (because the start bit of card id 12, need to compare the condition of the length is 3, if meet conditional values for hexadecimal 4 or 5 (010 low fill a zero convert 0100 or 0101). Be identified label's EPC number displayed in the upper-right corner "show identified label ID" as below:

| List EPC of Tags | | | | |
|------------------|----------------------------------|---------|-------|------------|
| No. | ID | Success | Times | EPC Length |
| 1 | 55555555555555555555555555555555 | 7 | 7 | 06 |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

2.4 Get EPC No. according to the TID data

Read the coincident EPC number as to TID Bank

Operation steps are as below:

Firstly, select any bank except the password bank, such as TID bank, see below:



Secondly, set the 『address of Tag data』 bank, unit with bit, the start address only should be whole number. For example: 43.

Thirdly, set the 『 length of Tag data』 , unit by bit, such as 4.

Fourthly, select data choose HEX for the unit, such as 4, see below. Here the so-called conditions is aimed at a regional data in some tags consecutive patients (bit), who meet the conditions of the tag will be read. The length of the conditional values is not multiple 4bits, low fill 0.

| | |
|--|----|
| Address of Tag Data(bit): | 43 |
| Length of Tag Data(bit): | 4 |
| Tag Data(HEX): | D |
| <input type="button" value="Detect Tag"/> <input type="button" value="List EPC of Tag"/> | |

Fifthly, press 『List EPC of tag』 button, reader began to read the label EPC number according to the first four steps setted conditions. Illustrate: see chart 5.1, radiation field have eight tags, If have to meet the conditions: data area initial address is 43, the data length is 4 (namely needs to

compare 4), selected data of D, only card whose ID is 3005FB63AC1F3841EC885555 TID area for E2006004009AE045 meet the condition, and then showed as below:

| List EPC of Tags | | | | |
|------------------|--------------------------|---------|-------|------------|
| No. | ID | Success | Times | EPC Length |
| 1 | 3005FB63AC1F3841EC885555 | 1 | 185 | 06 |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

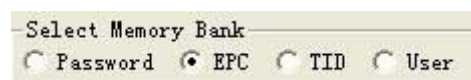
2.5 Get EPC bank data of the specified tag

EPC bank of ISO18000-6C tag have three parts, sequence is as follows:

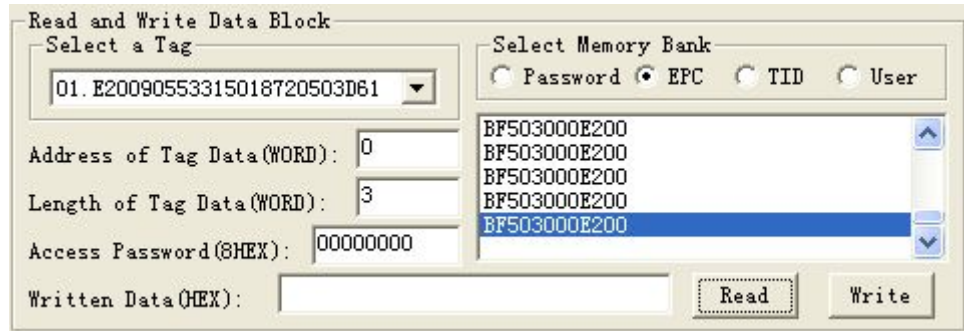
- CRC-16 is PC value and the redundancy circular check code of EPC No, CRC are 16bits, is the BF50H in the picture.
- PC comperent from the length of EPC No. and application code.The length of PC value is 16bits, is the 3000H in picture.
- EPC is EPC No. Picture as below: E200H (the first character of EPC No.).

Can read any EPC block data, operating steps are as below:

The first step, select EPC storage area, as below:



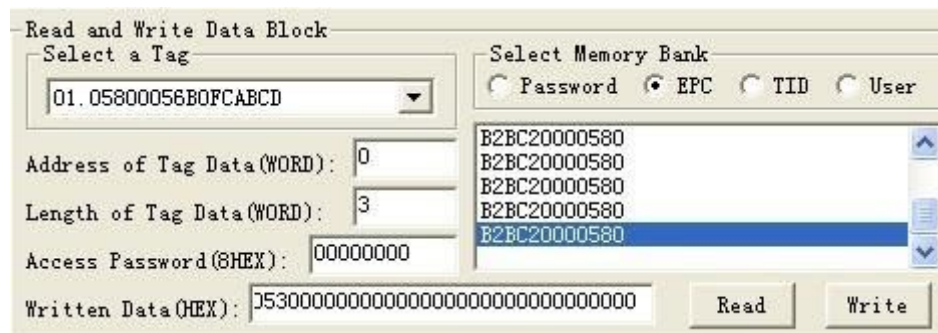
The second step, select tag, for example 『E20090553315018720503D61』, as below:



The third step, select the start 『address of Tag data』, unit by word, such as 0,

The fourth step, set the 『length of the tag』, unit by word, such as 3,

The fifth step, press 『read』 button, reader began to read the label EPC number according to the first four steps setted conditions. The data displayed in the upper-right corner.



2.6 Read the TID bank data of specified tag

Can read any TID block data, operating steps are as below:

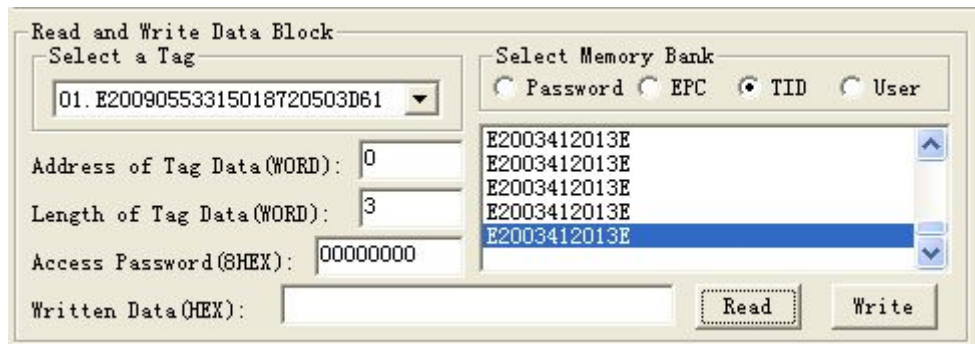
The first step, select TID storage area, as below:



The second step, select tag, for example 『E20090553315018720503D61』, as below:

The third step, select the start 『address of Tag data』, unit by word, such as 0, as below:

The fourth step, set the length of the tag, unit by character, such as 3, as below:



The fifth step, press 『read data』 button, reader began to read the label TID number according to the first four steps setted conditions. The data displayed in the upper-right corner.

2.7 Read the USER bank data from specified tag

Can read any USER block data, operating steps are as below:

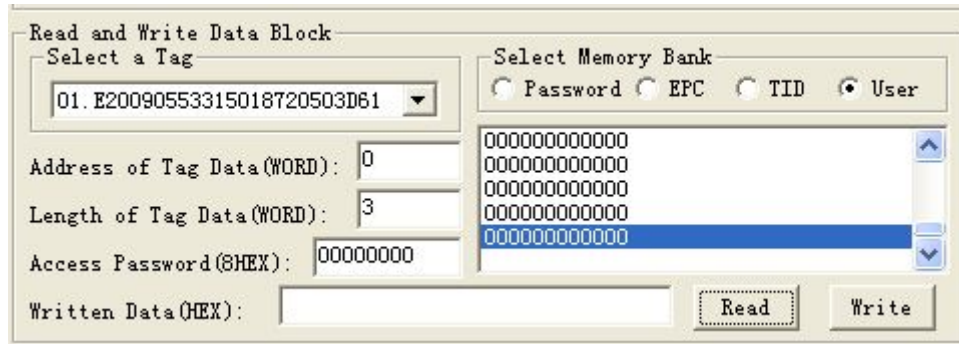
The first step, select USER storage area, as below:



The second step, select tag, for example 『E20090553315018720503D61』, as below:

The third step, select the 『address of Tag data』, unit by word, such as 0, as below:

The fourth step, set the 『length of tag Data』, unit by word, such as 3, as below:



The fifth step, press 『read』 button, reader began to read the label USER number according to the first four steps setted conditions. The data displayed in the upper-right corner.

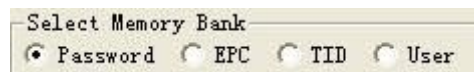
2.8 Get PASSWORD bank data from the specified tag

If the password doesn't be read protection, it can read any password block data; the password bank has two parts as below:

- (1) Kill password: 32bits
- (2) Access password: 32bits

Operating steps are as below:

The first step, select password storage area, as below:



The second step, select tag, such as 『77777777777777777777777777777777』, see below:

The third step, select the 『address of Tag Data』, unit by word, such as 0, as below:

The fourth step set the 『length of tag Data』, unit by word, such as 4, as below:

Read and Write Data Block

Select a Tag
01.TTTTTTTTTTTTTTTTTTTTTT

Address of Tag Data (WORD): 0

Length of Tag Data (WORD): 4

Access Password (8HEX): 00000000

Written Data (HEX):

Select Memory Bank
☒ Password ☐ EPC ☐ TID ☐ User

AAAAAAAA88888888
 AAAAAAAAA88888888
 AAAAAAAAA88888888
 AAAAAAAAA88888888
 AAAAAAAAA88888888

Read Write

The fifth step, press 『read data』 button, reader began to read the label USER number according to the first four steps setted conditions. The data displayed in the upper-right corner. AAAAAAAA is kill password, 88888888 is access password.

2.9 Write to EPC bank

Can write 16、32、48、64、80 or 96bits EPC No. to the EPC bank at present. CRC-16 and PC value automatic generation according to written EPC. The operation steps are below:

The first step, select EPC storage area, as below:

Select Memory Bank

☐ Password ☒ EPC ☐ TID ☐ User

The second step, set the EPC No. length, such as 6, means 9bBits, as below:

The third step, if the EPC bank has been set password lock, should fill 『Access password』, such as 88888888, see as below:

The fourth step, fill EPC No. to 『written data (HEX)』, united by HEX, such as 『45679464ABCDABCD35467684』.

Read and Write Data Block

Select a Tag
01. TTTTTTTTTTTTTTTTTTTTTTTTTT

Select Memory Bank
☐ Password
 ☒ EPC
 ☐ TID
 ☐ User

Address of Tag Data (WORD): 0

Length of Tag Data (WORD): 6

Access Password (8HEX): 88888888

Written Data (HEX): 45679464ABCDABCD35467684

Write Successfully!

Read Write

The fifth step, press 『write data』 button, reader began to write the label EPC data according to the first four steps setted conditions. The written data displayed in the upper-right corner.

The sixth step, get EPC No., check if the written right or not.

Remarks:

- (1) Put only a tag in the write radio frequency, otherwise, several tags may all writed the same EPC No. As write EPC No. don't choose a specified tag, so don't have to choose 『select a tag』 .
- (2) All EPC No. are write from address 0, reader don't identify 『address of Tag data』 .
- (3) When the written data more than 2 Bytes, show wrong information, may only partial data has been written wrong.

2.10 Write to User bank

The operation steps as below:

The first step, select USER storage area, as below:

Select Memory Bank

☐ Password
 ☐ EPC
 ☐ TID
 ☒ User

The second step, select a tag, such as 『45679464ABCDABCD35467684』 , see as below:

The third step, select the initial address of user bank, such as 0, see as

below:

The fourth step, set the length of data, such as 4, see as below:

The fifty step, if the user bank has been set password, then has to fill the 『Access password』 , such as 88888888 see as below:

The sixth step, fill data to 『written data(Hex.)』 , such as 『1234567891234567』 .

The seventh step, press 『write』 button, reader began to write the label USER data according to the first four steps setted conditions. The written data displayed in the upper-right corner.

The eighth step, get USER Data, check if the written right or not.

Remark: When the written data more than 2bytes, show wrong information, may only partial data has been written wrong.

2.11 Modify the PASSWORD of tag

The operation steps are as below:

The first step, select password storage area, as below:

The second step, select a tag, such as 『45679464ABCDABCD35467684』 , see as below:

The third step, select the initial address of user bank, such as 0, see as

below:

The fourth step, set the length of data, such as 2, see as below:

The fifty step, fill the 『Access password』 , such as 88888888, see as below:

The sixth step, fill new password to 『written data(HEX.)』 , such as 『AAAAAAAA』 .

The seven step, press 『write data』 button, reader begins to write password according to the condition set be the above sixth step, such as write kill the tag. The written data displayed in the upper-right corner.

The eighth step, get new password, check if the written right or not.

Remark: When the written data more than 2bytes, show wrong information, may only partial data has been written wrong.

2.12 Write protection for EPC-TID -USER bank

The TID bank of ISO18000-6C tag is locked and be readable only.

There is protection for reading on EPC bank and USER bank of ISO18000-6C tag , but write, the write protection as below:

Writable from any state- can write without password, and can set to permanently writable, Writable from the secured state or Never writable in the future.

Permanently writable- can write without password, and can't set to be Writable from the secured state and Never writable;

Writable from the secured state- only can write with the password, and can set to permanently writable, Writable from the secured state or Never writable in the future.

Never writable-can't write even with password.

2.13 Write protection for PASSWORD bank

The password of ISO18000-6C tag can be read and write proteted, the password situation wouldn't effect use the password. Protection function:

Readable and Writable from any state- can read and write without password, and can set to permanently Readable and writable, Readable and Writable from the secured state or Never reader or writable in the future.

Permanently readable and writable- can read and write without password, and can't set to be readable or Writable from the secured state and Never readable or writable;

Readable and Writable from the secured state- only can read orwrite with

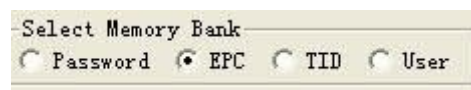
the password, and can set to permanently readable and writable, readable and Writable from the secured state or Never readable or writable in the future.

Never readable or writable-can't read or write even with password.

Remarks: set read write protect for tag, should know the access password of tag in advance.

2.14 Write protection for EPC bank

The first step, select the EPC bank, as below:



The second step, select a tag, such as 『45679464ABCDABCD35467684』 , as below:

The third step, select the Writable from the secured state (or Writable from any state, or permanently writable or never writable), as below:

The fourth step, fill the 『access password』 ,the access password for tag 『45679464ABCDABCD35467684』 is 88888888, see as below:



The fifth step, press 『set protecting』 button, popup the below dialogue box:



The sixth step, press 『no』, then the above operation invalid, press 『yes』, according to the before four step setted condition, if success, popup the below frame, represents the EPC bank has set to be password lock.



The seventh step, write data to EPC bank, check if the set protection success or not.

2.15 Write protection for USER bank

The first step, select the USER bank, as below:



The second step, select a tag, such as 『45679464ABCDABCD35467684』, see as below:

The third step, select the Writable from the secured state (or Writable from any state, or permanently writable or never writable), as below:

The fourth step, fill the 『access password』, the access password for tag 『45679464ABCDABCD35467684』 is 88888888, see as below:



The fifth step, press 『set protect』 button, popup the below dialogue box:



The sixth step, press 『no』 , then the above operation invalid, press 『yes』 ,according to the before four step setted condition, if success, popup the below frame, represents the EPC bank has set to be password lock.



The seventh step, write data to USER bank, check if the set protection success or not.

2.16 The data block for USER bank

Only the SL3-ICS-10 UCODE EPC ISO18000-6C tags from NXP provide this kind of lock. Each block has 32bits (4bytes or 2 words). Once the block has been locked, it can't be modified forever.

The first step, select a tag, such as 『45679464ABCDABCD35467684』 ,

see as below:

The second step set the data address, such as 6 or 7, will protect 6 and 7two words as below. The SL3-ICS-10 tag has 14 Words at present,the address is 0~13.

| The initial addres(word) | The data been protected (word) |
|--------------------------|--------------------------------|
| 0 or 1 | 0 and 1 |
| 2 or 3 | 2 and 3 |
| 4 or 5 | 4 and 5 |
| 6 or 7 | 6 and 7 |
| 8 or 9 | 8 and 9 |
| 10 or 11 | 10 and 11 |
| 12 or 13 | 12 and 13 |

The third step,fill the access password, the access password of tag 『45679464ABCDABCD35467684』 is 88888888, see as below:



The fourth step, press 『set protect』 button, popup the below dialogu box:press 『yes』 button, the reader will send block lock command to the tag, if success, PC will popup the below frame.



Set protect success or not, operate to check it.

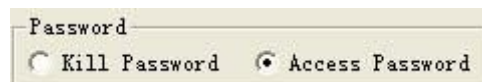
If failed, will popup error information.

2.17 The read-write protect for PASSWORD bank

The first step, select the user bank, see below:



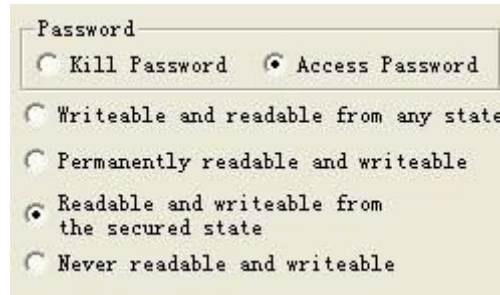
The second step, select the access password (or kill password), see as below:



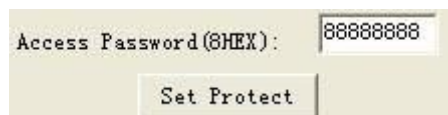
The third step, select a tag, such as 『45679464ABCDABCD35467684』 , see as below:



The fourth step, select the Readable and Writable from the secured state (or Readable and Writable from any state, or permanently readable and writable or never readable or writable), as below:



The fifth step, fill the 『access password』, the access password for tag 『45679464ABCDABCD35467684』 is 88888888, see below:



The sixth step, press 『set protect』 button, popup the below frame:



The seven step, press 『no』, then the above operation invalid, press 『yes』, according to the before four step setted condition, if success, popup the below frame, represents the USER bank has set to be password lock.



The eighth step, write data to USER bank, check if the set protection success or not.

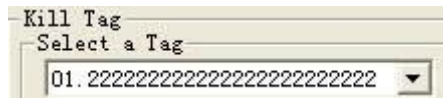
2.18 Kill tag

Caution: Once the tag has been killed, it does not answer the

reader ever.

The first step, select a tag 『Select a Tag』, such as 『222222222222222222222222』, see below:

The second step, fill the kill password to 『Password』 (HEX), the kill password of tag 『222222222222222222222222』 is 00000000, see as below ;



The third step, press 『Delete Tag』 button, popup the below frame:



The fourth step, press 『no』, then the above operation invalid, press 『yes』, according to the before three step setted condition, if success, popup the below frame, represents the tag has been killed.



The fifth step, read the EPC No. to check if killed the tag successful or not.

2.19 Alarm

Only the NXP SL3-ICS-10 UCODE EPC ISO18000-6C tag is with Alarm function, this function is similar to the barcode used in library and supermarket. Alarm is ring when the tag on the goods is under the alarm

situation and be read.

(1) Set alarm status

The first step, select a tag, such as 『45679464ABCDABCD35467684』, as below:

The second step, fill the access password, Hex., the access password of tag 『45679464ABCDABCD35467684』 is 88888888, as below:



The third step, select 『alarm』

The fourth step, press 『set alarm』 button, reader send set alarm command, if success, popup the below frame:



If failed, popup popbox, the failure reason may be the reader left the radio frequency or the access password is wrong.

Check if set alarm successfully.

(2) Set no alarm

The first step, select a tag, such as 『45679464ABCDABCD35467684』, see as below:

The second step, fill the access password, Hex., the access password of tag 『45679464ABCDABCD35467684』 is 88888888, see as below:



The third step, select 『no alarm』

The fourth step, press 『set alarm』 button, reader send set alarm command to tag, if success, popup the below frame:



If failed, popup popbox, the failure reason may be the reader left the radio frequency or the access password is wrong.

Check if set no alarm successfully.

(3) Check alarm

Press 『EasAlarm』 button, reader send check alarm command to tag. If found some tags are in the alarm situation, the buzzer will alarm, and there would be red light twinkle on the PC interface.



If found no any tag under the alarm situation, buzzer will not alarm and there no tips on the PC.

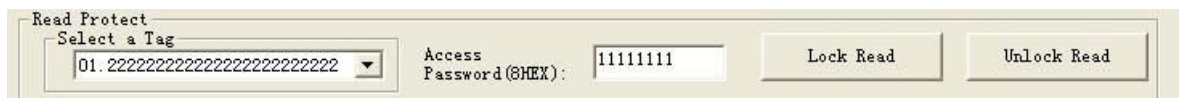
Once found the alarm, shut up the relay 4 seconds, if found alarm again, the relay will delay 4 seconds to shut up.

2.20 Set reading protection

Only the NXP SL3-ICS-10 UCODE EPC ISO18000-6C tag is with this functions, the reading protected tag only return zero data to the identification command from the reader, but not EPC.

The first step, select a tag, such as 『222222222222222222222222』, see as below:

The second step, fill the access password, Hex., the access password of tag 『222222222222222222222222』 is 11111111, see as below:



The third step, press 『set reading protect』 button, reader send out set reading protecting command, if success, will pop up the below frame:



If reader found no tag, will popup the below frame:



If the access password is wrong, then popup the below frame:



If the tag doesn't have this function, will popup the below frame:

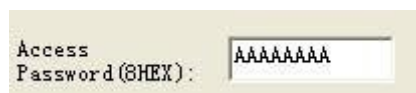


2.21 Release reading protection

Once the tag been relieved protection, the information of EPC can be identify normally.

Remarks: keep only one tag in the radio frequency for relieving

The first step, fill the access password, such as 『AAAAAAAA』 ;



The second step, press 『relief reading protect』 button, reader send relief command to the tag, if success, popup the below frame:

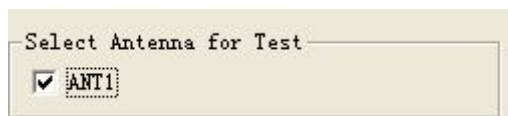


If reader found no tag, will popup the below frame:



If the access password is wrong or the tag doesn't have this function, then popup the below frame:





Press the 『List tag ID』 button, and put tags in radiation field, reader keep to read tag ID of tag automatically until pop-up 『List tag ID』 button. The card number showed in the 『List ID of Tags』 frame as below:

| No. | ID | Success | Times |
|-----|------------------|---------|-------|
| 1 | E004965D17010000 | 51 | 142 |
| 2 | E0040000E2A09C01 | 8 | 142 |
| 3 | E00400006D9F9C01 | 7 | 142 |
| 4 | E0040000CF869C01 | 7 | 142 |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

Remove the tag during the antenna radio frequency area can test the reading distance and range.

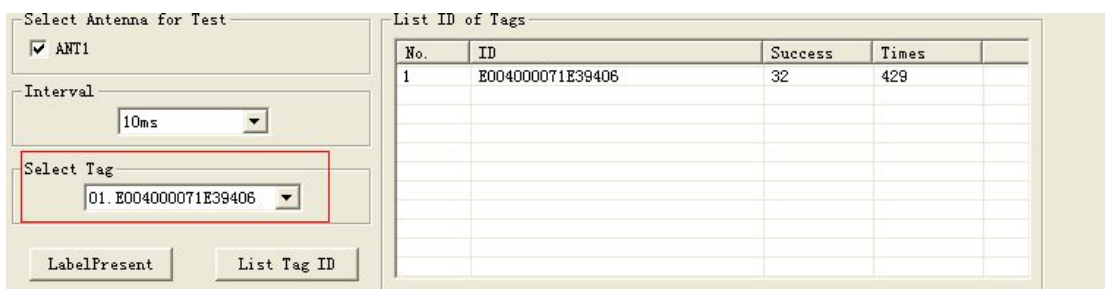
3.3 Read data

The start address of reading is 0-223.

The length range of reading block is 1-32.

The operating step for testing the reader's 『read』 function is as below:

- ◆ Select a tag which will be read from 『select a tag』 frame (this frame show the result of 『list tag of ID』).



- ◆ Select the initial address and block length of reading operation.

| Read and Write Data Block | |
|-------------------------------|----|
| Address of Tag Data(0/8-223): | 16 |
| Length of Tag Data(1-32/16): | 4 |

- ◆ Press 『read』 button, the program will start repeatedly read automatically until pop-up this button.
- ◆ The reading result showed at the 『informaiton』 .

Each line displayed the result of one reading operation, display with Hex firstly.

| Information |
|-----------------|
| HEX:FF FF 00 00 |
| ----- |
| HEX:FF FF 00 00 |
| ----- |
| HEX:FF FF 00 00 |
| ----- |
| HEX:FF FF 00 00 |

3.4 Write HEX

The initial address range of writing operation is 8-223.

The block length of writing operation is 1-4Bytes.

The operating step of test reader's 『write』 function:

- ◆ Select a tag which will write data from 『written data』 .

| |
|--------------------|
| Written Data(Hex): |
| 1122 |

- ◆ Input the initial address of writing operation.

| Read and Write Data Block | |
|-------------------------------|----|
| Address of Tag Data(0/8-223): | 18 |
| Length of Tag Data(1-32/16): | 2 |

- ◆ Press 『write a Byte』 button, the program will start repeat write data automatically until pop-up the button.
- ◆ Write success or not showed in the 『informaiton frame』 , see below.
- ◆ 『write success ! 』 represents this operation success.

『write fail!』 represents this operation failed, the reason is tag far from the reader too long or this bank write protection damaged.

Remarks: if the written data more than 4Bytes, 『written fail!』 may due to patial bytes written failed.

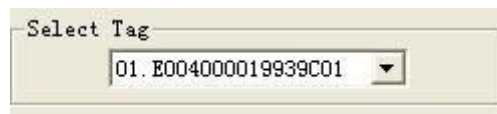
- ◆ Select Tags by Condition: users can select the coincident tag ,then click 『List ID of Selected Tags』 button, the tags meet the conditions will be read and show in "List ID of Tags ", uncoincident don't output not be read.

Example: Tag ID is E0040000128A8A01, input 4 to "Address of Tag Data" (0 ~ 233) And 06 in "Condition", Check "Equal Condition" and click "List ID of selected Tags" button, There is nothing output on the "List ID of Tags" (because the start address is 4, reader compare the fourth BYTE of tag as to the condition. i.e., 12, and 12 is not equal to 6, and not meet the condition, so that the tag is not able to read. If condition is 12, the ID meet it and be read. If the User choose "Unequal Condition" or "Greater than Condition" the tag ID be read. But "Less than Condition" not, because the start address is 4, in this tag ID mean 12, the condition is 06, 12 great and Unequal to 06.

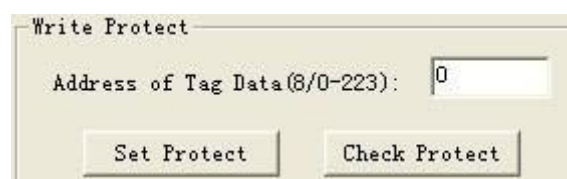
3.5 Write protection

The operation step is as below:

- ◆ Select a tag which will plan to protection from 『select tag』.



- ◆ Add the address of the tag in 『Address of Tag Data』 frame. The address range is 8-223. Such as



- ◆ Press 『set protect』 button, see as below:



- ◆ Press 『yes』 , program will continue protect this tag. If failed, will popup the below dialogue frame:



- ◆ Press 『yes』 ,try again, protection success, will pop up the below dialog frame:



- ◆ Detect the specified bank of the tag been protected or not (detect address range is 0-223). Press 『detec the protection situation』 button, pop up the below frame show that this specified bank has been protected.



4 Auto Test Setting

Remarks:

the belows only workable when connected with Upper PC

- Start or stop Auto work mode

- Clear memory
- Get Tag information

When turn to Auto mode, the former ID information will be clean

The auto settings should be checked before Auto work.

[illegible]

- ◆ Whether to display the original records: output the original ID info.

[illegible]

- ◆ A label is listed only once: tag can be read more times but output just a time

(1) Check Direct

- ☐ Check Direct in "Condition of Report"

Parameters for Auto Mode

Auto Mode

☒ Continuing
 ☐ Trigger

Read from which Antenna

☒ ANT1

Wiegand Port Format

Pulse Width(*10us):

40

Pulse Interval(*10us):

200

Trigger Mode

☒ Low Level
 ☐ High Level

Timing Interval (ms)

☐ 10
 ☐ 20
 ☐ 30
 ☐ 50
 ☒ 100

Port for Output

☒ RS232
 ☐ RS485
 ☐ RJ45
 ☐ Wiegand26
 ☐ Wiegand34

Format for Output

☐ Terse
 ☒ Standard

IP Parameters for Host

IP Address:

192 . 168 . 0 . 61

Port:

5000

☐ Enable Report to Host

Alarm

☐ Check Alarm

Number of Tags:

100

Diapause of Report(s):

5

ID output start address(0-8):

2

What to be read from tag

☒ ID of the Tag
 ☐ User defined

Condition of Report

☐ Direct
 ☐ Standard

☒ Timing

- Press “Start” in “Auto test”, turn out as below

| | | | | | | |
|--|---------------------|---------------------|-------|--------------|--------------|--------------------------|
| Connect Reader Reader Parameters ISO18000-6C Test ISO18000-6B Test Auto Test | | | | | | |
| Cmd Mode (RS232)---->Auto Mode (RS232) | | | | | | |
| <input type="checkbox"/> Whether to display the original records | | | | Start | Stop | Clear Screen |
| <input type="checkbox"/> A label is listed only once | | | | Clear Memory | Get Tag Info | Total tags: |
| No. | First Time | End Time | Count | Antenna | Type | EPC |
| 5 | 2012/12/26 16:57:49 | 2012/12/26 16:57:49 | 00001 | 01 | 04 | E200915050140104275004C1 |
| 6 | 2012/12/26 16:57:49 | 2012/12/26 16:57:49 | 00001 | 01 | 04 | E200915050140104275004C1 |
| 7 | 2012/12/26 16:57:49 | 2012/12/26 16:57:49 | 00001 | 01 | 04 | E200915050140104275004C1 |
| 8 | 2012/12/26 16:57:49 | 2012/12/26 16:57:49 | 00001 | 01 | 04 | E200915050140104275004C1 |
| 9 | 2012/12/26 16:57:49 | 2012/12/26 16:57:49 | 00001 | 01 | 04 | E200915050140104275004C1 |
| 10 | 2012/12/26 16:57:49 | 2012/12/26 16:57:49 | 00001 | 01 | 04 | E200915050140104275004C1 |
| 11 | 2012/12/26 16:57:49 | 2012/12/26 16:57:49 | 00001 | 01 | 04 | E200915050140104275004C1 |
| 12 | 2012/12/26 16:57:49 | 2012/12/26 16:57:49 | 00001 | 01 | 04 | E200915050140104275004C1 |
| 13 | 2012/12/26 16:57:49 | 2012/12/26 16:57:49 | 00001 | 01 | 04 | E200915050140104275004C1 |
| 14 | 2012/12/26 16:57:49 | 2012/12/26 16:57:49 | 00001 | 01 | 04 | E200915050140104275004C1 |
| 15 | 2012/12/26 16:57:49 | 2012/12/26 16:57:49 | 00001 | 01 | 04 | E200915050140104275004C1 |
| 16 | 2012/12/26 16:57:49 | 2012/12/26 16:57:49 | 00001 | 01 | 04 | E200915050140104275004C1 |
| 17 | 2012/12/26 16:57:49 | 2012/12/26 16:57:49 | 00001 | 01 | 04 | E200915050140104275004C1 |
| 18 | 2012/12/26 16:57:50 | 2012/12/26 16:57:50 | 00001 | 01 | 04 | E200915050140104275004C1 |
| 19 | 2012/12/26 16:57:50 | 2012/12/26 16:57:50 | 00001 | 01 | 04 | E200915050140104275004C1 |
| 20 | 2012/12/26 16:57:50 | 2012/12/26 16:57:50 | 00001 | 01 | 04 | E200915050140104275004C1 |
| 21 | 2012/12/26 16:57:50 | 2012/12/26 16:57:50 | 00001 | 01 | 04 | E200915050140104275004C1 |
| 22 | 2012/12/26 16:57:50 | 2012/12/26 16:57:50 | 00001 | 01 | 04 | E200915050140104275004C1 |
| 23 | 2012/12/26 16:57:50 | 2012/12/26 16:57:50 | 00001 | 01 | 04 | E200915050140104275004C1 |
| 24 | 2012/12/26 16:57:50 | 2012/12/26 16:57:50 | 00001 | 01 | 04 | E200915050140104275004C1 |
| 25 | 2012/12/26 16:57:50 | 2012/12/26 16:57:50 | 00001 | 01 | 04 | E200915050140104275004C1 |
| 26 | 2012/12/26 16:57:50 | 2012/12/26 16:57:50 | 00001 | 01 | 04 | E200915050140104275004C1 |
| 27 | 2012/12/26 16:57:50 | 2012/12/26 16:57:50 | 00001 | 01 | 04 | E200915050140104275004C1 |
| 28 | 2012/12/26 16:57:50 | 2012/12/26 16:57:50 | 00001 | 01 | 04 | E200915050140104275004C1 |
| 29 | 2012/12/26 16:57:50 | 2012/12/26 16:57:50 | 00001 | 01 | 04 | E200915050140104275004C1 |
| 30 | 2012/12/26 16:57:50 | 2012/12/26 16:57:50 | 00001 | 01 | 04 | E200915050140104275004C1 |
| 31 | 2012/12/26 16:57:50 | 2012/12/26 16:57:50 | 00001 | 01 | 04 | E200915050140104275004C1 |

“First time”—the first time of reading this tag

“End time”—the last time of reading this tag

“Count”—During the time of reading counts

“Antenna”—from which antenna port

“Type”—Tag type

“EPC”—EPC Info

Read output the tag ID immediately once get it

- ☐ Press “Stop” stop reading
- ☐ “Get tag info” : Read send all storage ID info to upper PC
- ☐ “Clear Memory”: Read clear all read info from storage

(2) Check Standard

Condition of Report

☒ Direct

☐ Standard

☐ Timing

□ Check Standard in “Condition of Report”

□ Check the “Diapause of Report” as you want

Port for Output
☒ RS232 ☐ RS485 ☐ RJ45 ☐ Wiegand26 ☐ Wiegand34

Format for Output
☐ Terse ☒ Standard

Alarm
☒ Check Alarm

What to be read from tag
☒ ID of the Tag ☐ User defined

Condition of Report
☒ Direct ☐ Standard ☐ Timing

ID output start address (0-8):
 2

IP Parameters for Host
 IP Address: 192 . 168 . 0 . 61
 Port: 5000
☐ Enable Report to Host

Number of Tags: 100

Diapause of Report(s): 2

□ Press “Start” in “Auto test”, turn out as below

Cmd Mode (RS232)--->Auto Mode (RS232)

☐ Whether to display the original records

☒ A label is listed only once

Start Stop Clear Screen

Clear Memory Get Tag Info

Total tags:

| No. | First Time | End Time | Count | Antenna | Type | EPC |
|-----|---------------------|---------------------|-------|---------|------|--------------------------|
| 1 | 2012/12/26 18:48:13 | 2012/12/26 18:48:13 | 0014 | 01 | 04 | 112201754F741F4800AB34CF |
| 2 | 2012/12/26 18:48:13 | 2012/12/26 18:48:13 | 00001 | 01 | 04 | 555533B2DD9014000000062 |

2

(3) Check Timing

Condition of Report

☐ Direct

☐ Standard

☒ Timing

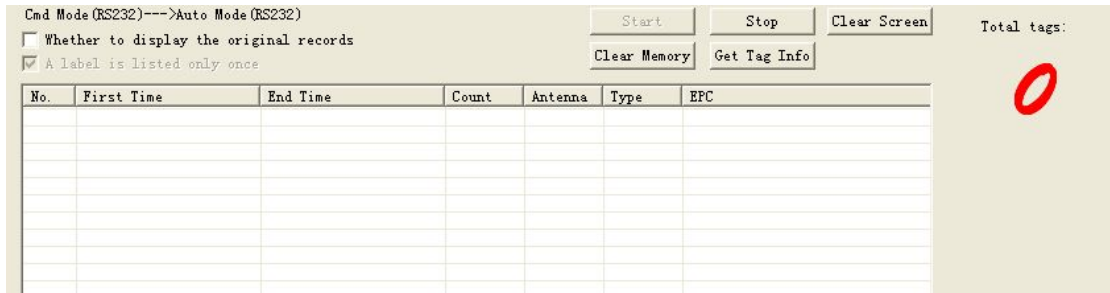
Number of Tags: 100

Diapause of Report(s): 2

□ Check Standard in “Reader Parameters”

□ Check the “Diapause of Report” as you want

Output nothing when first read



Cmd Mode (RS232)--->Auto Mode (RS232)

☐ Whether to display the original records

☒ A label is listed only once

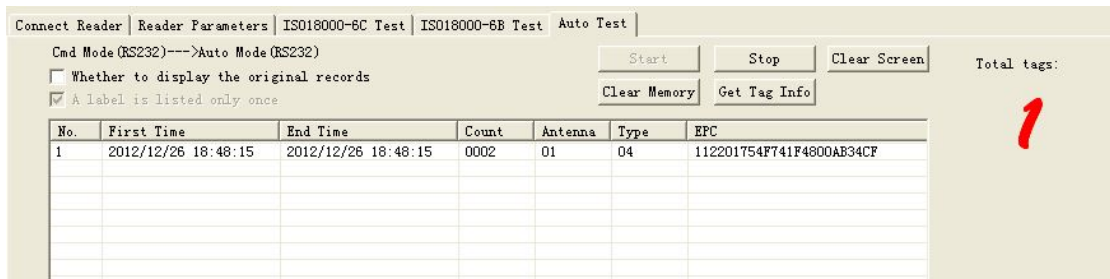
Start Stop Clear Screen

Clear Memory Get Tag Info

Total tags: 0

| No. | First Time | End Time | Count | Antenna | Type | EPC |
|-----|------------|----------|-------|---------|------|-----|
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Put the tag out RF field for the time you setting, then put the tag in RF field, the tag ID be read and output



Connect Reader Reader Parameters ISO18000-6C Test ISO18000-6B Test Auto Test

Cmd Mode (RS232)--->Auto Mode (RS232)

☐ Whether to display the original records

☒ A label is listed only once

Start Stop Clear Screen

Clear Memory Get Tag Info

Total tags: 1

| No. | First Time | End Time | Count | Antenna | Type | EPC |
|-----|---------------------|---------------------|-------|---------|------|--------------------------|
| 1 | 2012/12/26 18:48:15 | 2012/12/26 18:48:15 | 0002 | 01 | 04 | 112201754F741F4800AB34CF |
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This function similar as bus swiping card