

SID_UF2861Demo Software User's Guide v1.5

1. Parameter interface operation.....	1
1.1 Open COM Port.....	1
1.2 Parameter Setting:	1
2. Active mode operation (COM IS OPEN)	3
3. The Necessary Knowledge.....	6
3.1 EPCC1G2 tag memory	6
3.2 18000-6B tag	6
3.3 Data display (tag ID, passwords, memory data is display in 16 hexadecimal)	6
4. EPCC1-G2 Test operation (COM IS OPEN)	6
4.1 Query Tag EPC(The operation needing to choose the tag all need to query tag first)6	
4.2 Query Tag TID	7
4.3 Read Data, Write Data, Block Erase	7
4.4 Revise the password	10
4.5 Write EPC (Needn't query tag)	10
4.6 Set the state of read and write protection	11
4.7 Read Protection	11
4.8 EAS Alarm	12
4.9 Lock Block for User (Permanently Lock) (After the data locked, it can not be changed again).....	13
4.10 Kill Tag (Permanently Kill)	14
4.11 Mask conditions.....	14
5. 18000-6B Test Interface Operation (After Open COM Port).....	15
5.1 Query Tag	15
5.2 Read and Write Data Block / Permanently Write Protect Block of Byte.....	17
6. Frequency Analysis Operation (After Open COM Port).....	19
7. Config TCPIP	19

1. Parameter interface operation

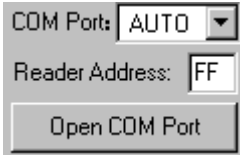
1.1 Open COM Port

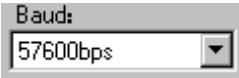
Before open com port, please make controller properly connected with the host using the communication cable provided and then turn on the power.

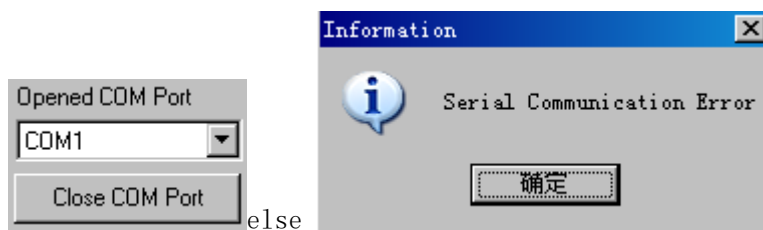
(1) Auto Open Comport:

Value 255(0xFF) is broadcasting address. All controllers will respond the order with a broadcasting address.

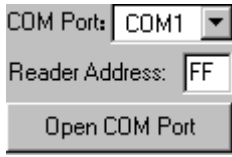
Other value (0x00~0xFE) is controller address. Only will the controller conforming to the address respond the operation.

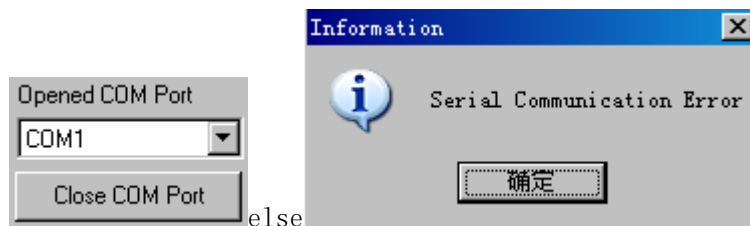
Click , If reader connect the computer's COM1 ~ COM9, we can see the

port display in the place. the demonstration software to  by connecting the port and written communication, the connection to the port to have a beginning, such as :

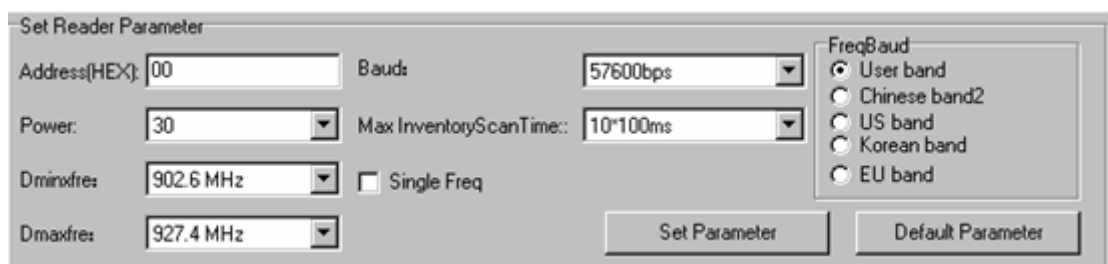


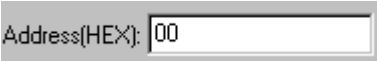
(2) Open Designated Comport:

Click , the Baud will Auto Select From 115200bps, 57600bps, 38400bps, 19200bps, 9600bps, if success





1.2 Parameter Setting:





- (1)  the new reader address to set. This address can't be 0xFF.
If set 0xFF, reader will return error information.

- (2)  set and save power configuration.

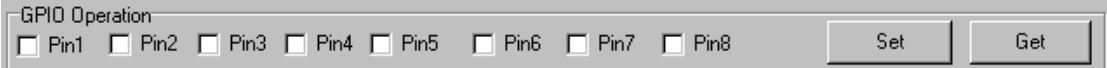
- (3)  select the reader's band, different band, the frequency is different.


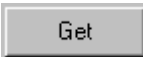
- (4)  Set reader working Min Frequency and Max Frequency. In different places, the radio requires the rule to be different. Users can follow the local situation and choose to read more sensitive frequency range of the card. In single frequency point operation, only need to set two frequencies to the same value. In frequency hopping operation, only need to set two frequencies to the different value.

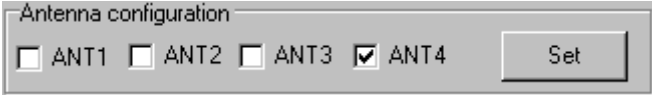

- (5)  demo software start run, default use the baud rate 57600 to open COM port, reader power on, reader baud rate default is 57600. After change the baud rate, reader use the new baud rate until power off. Close port and open port, the baud rate no change. The demo software will use the new baud rate, until close the demo software.


- (6)  set the inventory scan max response time of reader. If demo software sends the inventory order, it will wait 30*10ms for reader response and exits.

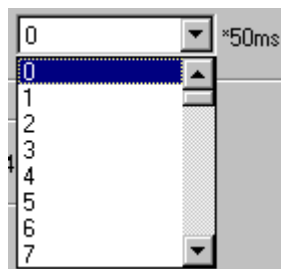
(7) GPIO Operation



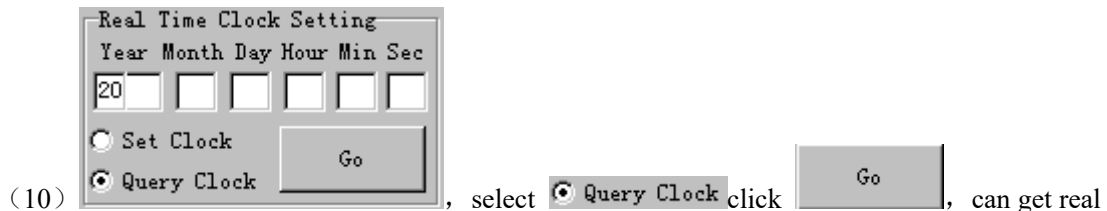
Select need pins, click , Can control the output state pins, Click , can get output state pins.

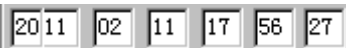
- (8) , Select antenna 4, click , At this time, antenna 4 in working status, can also select multiple antenna working together.

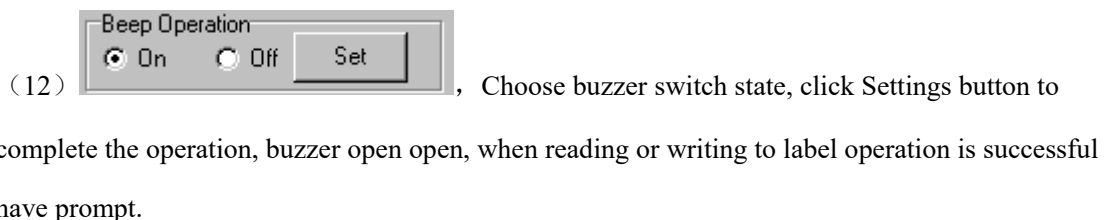
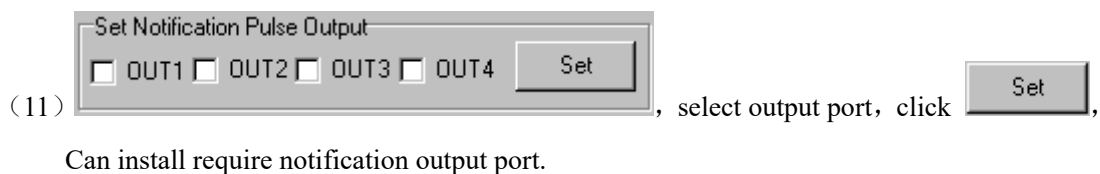
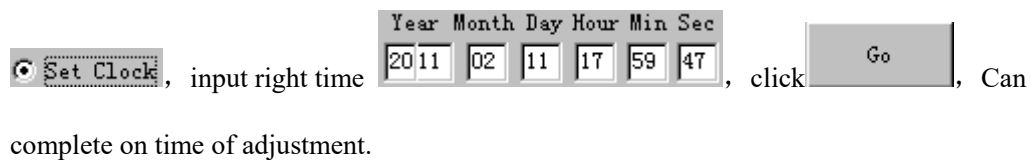
- (9) , select release time



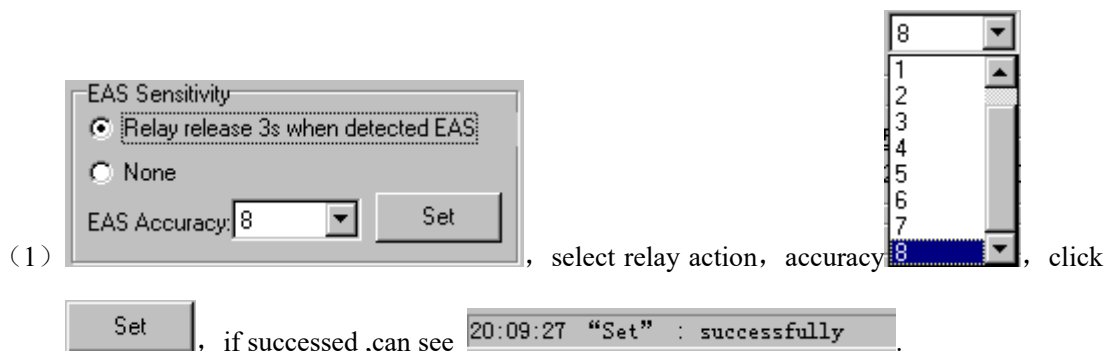
, click  can set release time.

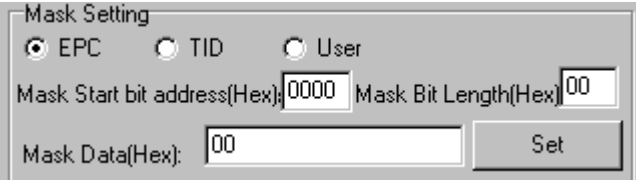






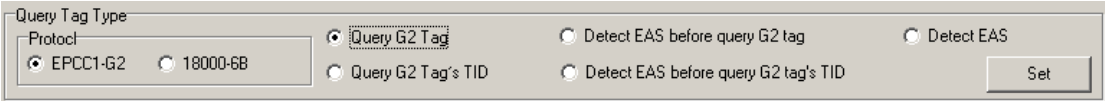

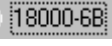




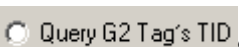


Clock time , if clock time is error, can select


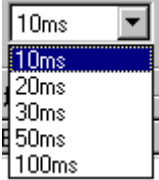




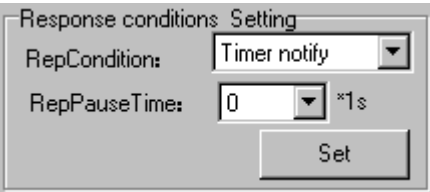
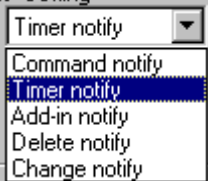
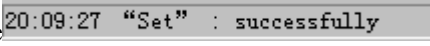

2. Active mode operation (COM IS OPEN)



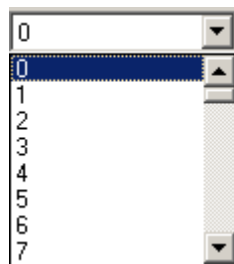
- (2)  , choose mask area,for example choose EPC , mask start bit address:  , mask bit length  , mask data  , if succeeded,can see 

- (3)  , choose query tag type  or  , only choose  , you can choose query action,  or  or  or  or  , if succeeded,can see 

- (4)  , choose pulse time  , click  , if succeeded,can see 

- (5)  , only choose  , reponse pause time effective, if succeeded,can see  . (only choose RepCondition:  , can get Reader storage blocks Tag information.

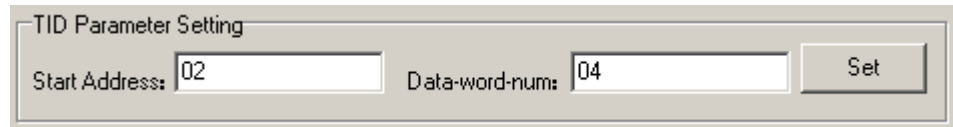
- (6)  , select trigger time



,click ,if success,can see

20:09:38 "Set" : successfully

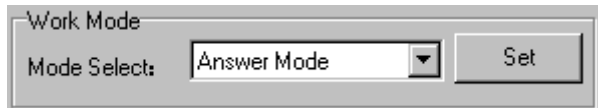
(7) , input



start address and read word number. click ,if success,can see

20:09:38 "Set" : successfully

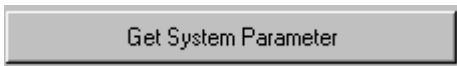
(8) , (only choose answer mode , can



operate other page) click if succeeded,can see

20:09:27 "Set" : successfully

(9) , click button, if succeeded,can see above six parameter.



(10) Only set command notify can do following operation



,click , if get tag information, can see:

NO.	EPC	First read tag time	Last read tag time	ANT	Times
1	0002	2011-02-12 10:40:21	2011-02-12 10:40:27	1000	118
2	DA7DE000	2011-02-12 10:40:22	2011-02-12 10:40:27	1000	11

click , then will clear reader storage blocks tag information.

(11) Only set not command notify could get data,click , if get tag information show:



```

15 00 EE 00 2C 96 E1 45 2C 96 E1 4A 00 38 08 04 DA 7D E0 00 E1 E1 15 00 EE 00 2C 96 E1 45 2C 96 E1 4A 00 39 08 04 DA 7D E0 00 34 7E 15 00 EE
00 2C 96 E1 45 2C 96 E1 4A 00 3A 08 04 DA 7D E0 00 5A D6 15 00 EE 00 2C 96 E1 45 2C 96 E1 4A 00 3B 08 04 DA 7D E0 00 8F 49
15 00 EE 00 2C 96 E1 45 2C 96 E1 4A 00 3C 08 04 DA 7D E0 00 97 8E 15 00 EE 00 2C 96 E1 45 2C 96 E1 4A 00 3D 08 04 DA 7D E0 00 42 11 15 00 EE
00 2C 96 E1 45 2C 96 E1 4A 00 3E 08 04 DA 7D E0 00 2C B9 15 00 EE 00 2C 96 E1 45 2C 96 E1 4A 00 3F
08 04 DA 7D E0 00 F9 26 15 00 EE 00 2C 96 E1 45 2C 96 E1 4A 00 40 08 04 DA 7D E0 00 41 2E 15 00 EE 00 2C 96 E1 45 2C 96 E1 4A 00 41 08 04 DA
7D E0 00 94 B1 15 00 EE 00 2C 96 E1 45 2C 96 E1 4A 00 42 08 04 DA 7D E0 00 FA 19
15 00 EE 00 2C 96 E1 45 2C 96 E1 4A 00 43 08 04 DA 7D E0 00 2F 86 15 00 EE 00 2C 96 E1 45 2C 96 E1 4A 00 43 08 04 DA 7D E0 00 2F 86 15 00 EE
00 2C 96 E1 45 2C 96 E1 4B 00 44 08 04 DA 7D E0 00 CA 0C 15 00 EE 00 2C 96 E1 45 2C 96 E1 4B 00 45 08 04 DA 7D E0 00 1F 93
15 00 EE 00 2C 96 E1 45 2C 96 E1 4B 00 46 08 04 DA 7D E0 00 71 3B 15 00 EE 00 2C 96 E1 45 2C 96 E1 4B 00 47 08 04 DA 7D E0 00 A4 A4 15 00 EE
00 2C 96 E1 45 2C 96 E1 4B 00 48 08 04 DA 7D E0 00 50 BD

```

, click  will stop data getting.

3. The Necessary Knowledge

3.1 EPCC1G2 tag memory

Tag memory divided into four storage areas, each storage area can be made up of one or more memory words. The four storage areas:

EPC areas (EPC): Store the area of EPC number, this module stipulates it can store 15 word EPC number. Can read and can write.

TID areas (TID): Store ID number established by the tag production firm. There are 4 words and 8 words two kinds of ID numbers at present. Can read and not can write.

User areas (User): This area of different manufacturers is different. There is no user area in G2 tag of Inpinj Company. There are 28 words in Philips Company. Can read and can write.

Password areas (Password): The first two words is kill password, the last two words is access password. Can read and can write.

Can write protect in four storage areas. It means this area is never writeable or not writeable under the non-safe state; only password area can set unreadable.

3.2 18000-6B tag

6B tag has a memory space, the minimum 8 bytes (byte 0- 7) is UID of the tag, and can't be rewritten. Following byte all can be rewritten, can be locked too, but once locking, can't rewrite again, can't unblock either.

3.3 Data display (tag ID, passwords, memory data is display in 16 hexadecimal)

Write Data (Hex):

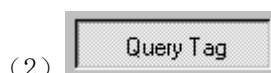
Display in Hex, then 11 is first byte, 22 is second byte, and 1122 is first word.

Total 8 bytes, in other words, total 4 words.

4. EPCC1-G2 Test operation (COM IS OPEN)

4.1 Query Tag EPC(The operation needing to choose the tag all need to query tag first)

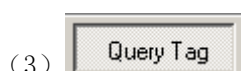
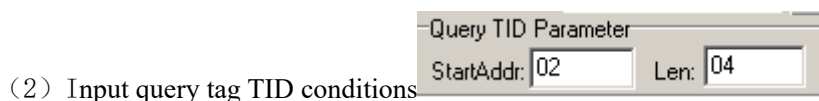
(1)  Every 50ms issued a command checks.



can see

No.	EPC	EPC Length	ANT(4,3,2,1)	Times
1	DA7DE000	04	1000	11

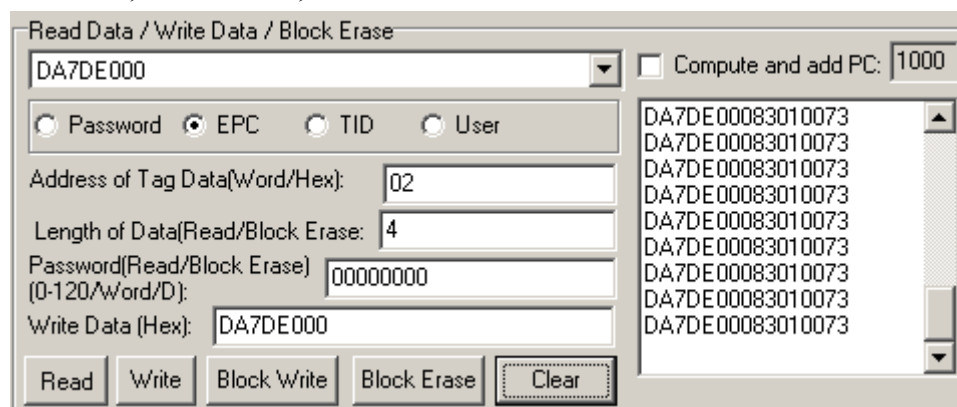
4.2 Query Tag TID



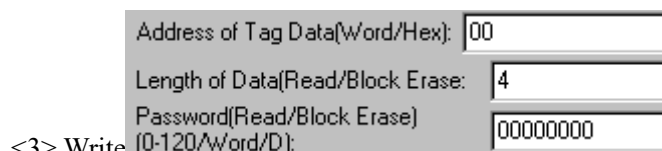
can see

No.	EPC	EPC Length	ANT(4,3,2,1)	Times
1	013EF1000DA4BFF5	08	0001	6

4.3 Read Data, Write Data, Block Erase



(1) Read data operation

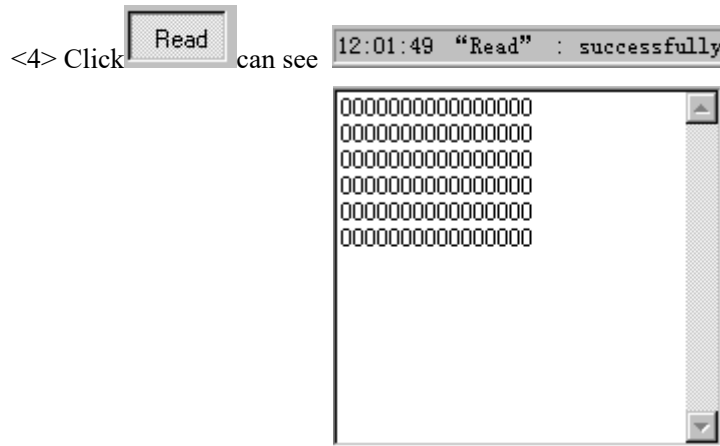


Start address: 0x00 stand in start to read data from first word in the designated storage area, 0x01 stand in start to read data from second word in the designated storage area, and so on.

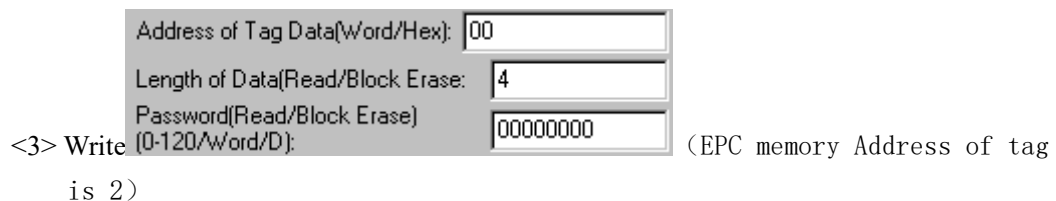
Read the length: Number of the word to be read. It read 120 words at most. Can not set 0 or 120, otherwise, return the parameter error information.

Access password: From left to right it is the former high-word, low word in the

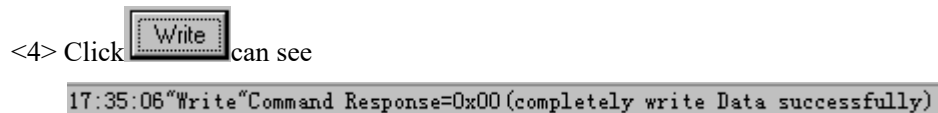
access password. If operation don't need access password, it can be the arbitrary value, but can't lack.



(2) Write data operation

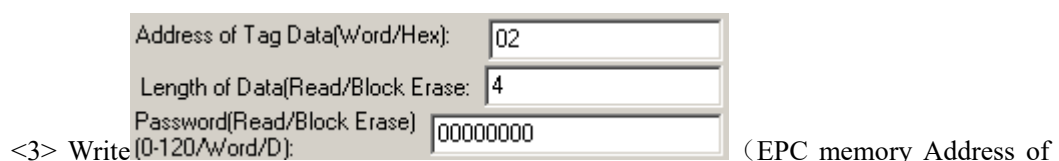


Start address: 0x00, the first word of data (from left) is written in address 0x00 of the designated storage area, and so on.



Note: write data can be used to change the EPC number

(the method is as follows)



tag is 2)

Write Data (Hex): DA7DE001

<4> Click  can see

20:41:49 "Write" Command Response=0x00 (completely write Data successfully)

Then query tag EPC, can see

No.	EPC	EPC Length	ANT(4,3,2,1)	Times
1	DA7DE001	04	0001	8

(3) Block Erase Operation (write 0 to the designated data)

<1> Choose tag

DA7DE000

<2> Choose memory

☐ Password ☐ EPC ☐ TID ☒ User

<3> Write

Address of Tag Data(Word/Hex): 00
Length of Data(Read/Block Erase): 4
Password(Read/Block Erase) (0-120/Word/D): 00000000

Start address: 0x00 stand in start to erase data from first word in the designated storage area, 0x01 stand in start to erase data from second word in the designated storage area, and so on.

The difference from write operation: Needn't fill in the data.

<4> Click  can see

14:51:32 "Block Erase" Command Response=0x00 (Block Erase successfully)

(4) Write block operation

<1> Choose tag

DA7DE000

<2> Choose memory

☐ Password ☐ EPC ☐ TID ☒ User

<3> Write

Address of Tag Data(Word/Hex): 00
Length of Data(Read/Block Erase): 4
Password(Read/Block Erase) (0-120/Word/D): 00000000

(EPC memory Address of tag is 2)

Write Data (Hex): 0000

Start address: 0x00, the first word of data (from left) is written in address 0x00 of the designated storage area, and so on.

<4> Click  can see

11:54:06 "WriteBlock" Command Response=0x00 (completely write Block successfully)

4.4 Revise the password

- (1) Choose tag

- (2) Choose memory

- (3) Write access password

Access password: From left to right it is the former high-word, low word in the access password. If operation don't need access password, it can be the arbitrary value, but can't lack.

- (4) Revise the access password 12345678: Write

Address of Tag Data(Word/Hex):

Write Data (Hex): Click

- (5) Revise the kill password 12345678: Write

Address of Tag Data(Word/Hex):

Write Data (Hex): Click

- (6) If succeed, we can see


4.5 Write EPC (Needn't query tag)

- (1) Write access password (If EPC area of the tag has not set password protection, we can write 8 data arbitrarily)

- (2) Write EPC.

- (3) Click . (Random write one tag in the effective range of antenna)

When there are many or EPC pieces of tag in the effective range of antenna, and the access

password of one tag is the same as you entered, or EPC area of tag set no password protection, click  at a time, random write EPC number of one tag in the effective range of antenna.

4.6 Set the state of read and write protection



The dialog box 'Set Protect For Reading Or Writing' contains the following elements:

- A dropdown menu for tag selection, currently showing 'DA7DE000'.
- Four radio buttons for protection type: Password, EPC (selected), TID, and User.
- A 'Lock of Password' section with two radio buttons: Kill Password and Access Password (selected).
- A 'Lock of EPC TID and User Bank' section with four radio buttons: Writeable from any state (selected), Writeable from the secure, Permanently writeab, and Never writeable.
- An 'Access Password (8 Hex):' field with the value '00000000' and a 'Lock' button.
- Five additional radio buttons below the 'Lock of Password' section: Readable and writeable from any state (selected), Readable and writeable from the secured s, Permanently readable and writeable, and Never readable and writeable.

(1) Choose tag



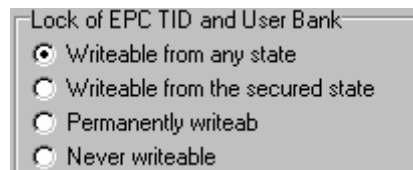
A dropdown menu showing the selected tag 'DA7DE000'.

(2) Choose memory



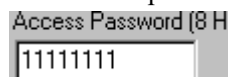
Four radio buttons for memory selection: Password, EPC (selected), TID, and User.

(3) Choose protection type



A section titled 'Lock of EPC TID and User Bank' containing four radio buttons: Writeable from any state (selected), Writeable from the secured state, Permanently writeab, and Never writeable.

(4) Write access password:



An input field labeled 'Access Password (8 H)' containing the value '11111111'.

Any storage area in no password protection status still must write the correct access password.(password can not be zero).

4.7 Read Protection



The 'Read Protection' dialog box contains the following elements:

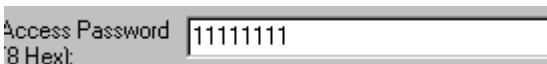
- A dropdown menu for tag selection, currently showing 'DA7DE000'.
- An 'Access Password (8 Hex):' field with the value '00000000'.
- Four buttons: Set Privacy By EPC, Set Privacy Without EPC, Reset Privacy, and Check Privacy.

(1) Set Single Tag Read Protection

<1> Choose tag



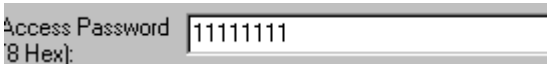
A dropdown menu showing the selected tag 'DA7DE000'.

<2> Write tag access password 


<3> Click 

According to EPC number of the tag, setting read protection, make tag unable to be read and written by any order, even if query the tag, it is unable to get EPC number of the tag. Only NXP UCODE EPC G2X tags valid.

(2) Set Single Tag Read Protection without EPC

<1> Write tag access password 

<2> Click  can set tag read protection in the effective range of antenna

The difference from : When there are several tag in the effective range of antenna, reader don't know the tag which the order operate.

If operate several tags, then the access password of the tag had better be the same. Only NXP UCODE EPC G2X tags valid.

(3) Reset Single Tag Read Protection without EPC

<1> Write access password 


<2> Click 

Use for reset the tag read protection.

Only put a tag in the effective range of antenna. Only NXP UCODE EPC G2X tags valid.

Comments: If tag does not support the read protection setting, it must be unprotected.

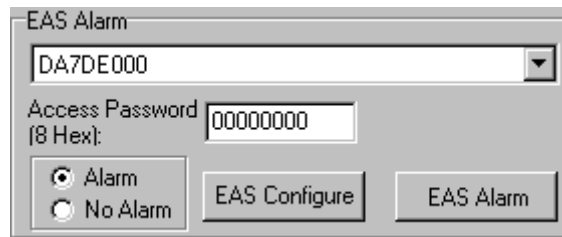
(4) Detect Single Tag Read Protection without EPC

<1> Click 

Can't detect tag whether it support read protection order, can only detect single tag whether it is protected. If tag does not support the read protection setting, it must be unprotected.

Make sure that there is single tag in the effective range of antenna. Only NXP UCODE EPC G2X tags valid.

4.8 EAS Alarm



(1) Alarm setting

<1> Choose tag

<2> Write access password

<3> Choose alarm

Set or reset the EAS status bit of tag. Only NXP UCODE EPC G2X tags valid.

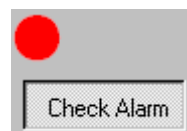
(2) Check alarm without EPC and access password

<1> Click check alarm

Check the EAS alarm of tag. Only NXP UCODE EPC G2X tags valid.

<2> EAS alarm:

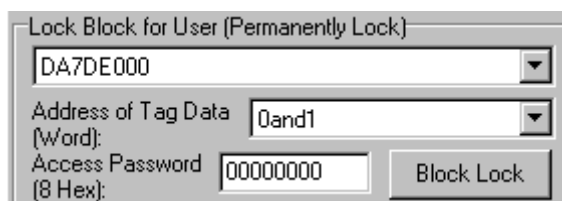
09:58:59 "EAS Alarm" Command Response=0x00 (EAS alarm detected)



No EAS alarm:

15:07:29 Command Response=0xFB (No Tag Operable)

4.9 Lock Block for User (Permanently Lock) (After the data locked, it can not be changed again)



(1) Choose tag

(2) Write

Access password can not be the whole 0. Otherwise, the tag can not be locked, and the tag return response with parameter error.

- (3) Choose address of tag data (word). The user's area amounts to 14 word. (0- 13)

Lock permanently in 2 words. Therefore, the address of tag data is divided into 0 and 1, 2 and 3, 4 and 5, 6 and 7, 8 and 9, 10 and 11, 12 and 13. You can lock the data if you wish:

After the data get locked, it can be read only, can't be rewritten, and can't be erased too. Only NXP UCODE EPC G2X tags valid.

4.10 Kill Tag (Permanently Kill)

- (1) Choose tag

- (2) Write

Kill password can not be the whole 0. Otherwise, the tag can not be killed, and the tag return response with parameter error.

4.11 Mask conditions

- (1) check enable

Only check enable can do mask operation.

For example, EPC mask:

Choose EPC area: ☒ EPC

Only the first byte of tag's EPC is DA could response.

For example, TID mask:

Query Tag
Read Interval: 50ms

Query TID Parameter
StartAddr: 02 Len: 04 ☒ TID

<1>Query TID

Can see TID

No.	EPC	EPC Length	ANT(4,3,2,1)	Times
1	013EF1000DA4BFF5	08	0001	60

<Mask condition>

Mask conditions
Mask Start Bit Address(Hex): 0020 Mask Bit Length(Hex): 20 ☒ Enable

☐ EPC ☒ TID ☐ User Mask Data(Hex): 013EF1000DA4BFF5

For example change EPC :

<2> select

☐ Password ☒ EPC ☐ TID ☐ User and ☒ Compute and add PC: 1000

Address of Tag Data(Word/Hex): 02

Length of Data(Read/Block Erase): 4

Password(Read/Block Erase) (0-120/Word/D): 00000000

<3> Write (EPC memory Address of tag Is 2)

Write Data (Hex): DA7DE001

<4> Click **Write** can see

20:41:49 "Write"Command Response=0x00 (completely write Data successfully)

Then query tag EPC,can see

No.	EPC	EPC Length	ANT(4,3,2,1)	Times
1	DA7DE001	04	0001	8

5. 18000-6B Test Interface Operation (After Open COM Port)

5.1 Query Tag

(1) Read Interval: 50ms send a inventory command every 50ms.

☒ Query by one ☐ Query by Condition

Query by one

(2)

Only query the single tag. If many tags are in the effective range of antenna at the same

time, it may be unable to query the tag.

No.	ID	Times
1	E0040000AEE77302	233

(3)

Query by Condition

<1> Unequal Condition:

Query Tags by Condition

☐ Equal Condition
 ☒ Unequal Condition

☐ Less than Condition
 ☐ Greater than

Address of Tag Data(0-223):

Condition(<=8 Hex Number):

Note:

The 8 bytes of 6B tag number write in the 0~7 which in the address of tag data (0- 233)

Figure, query condition begin to compare from the tag data address 0. The comparative content is 22.

Click

☐ Query by one
 ☒ Query by Condition

Query by Condition

See

No.	ID	Times
1	E0040000AEE77302	186
2	E0040000D4E77302	27

Figure, from the tag number we can see the addresses 0 of tag data: 00, 00, 11, 11.

Unequal condition 22, therefore, the four tags are read.

<2> Equal Condition:

Query Tags by Condition

☒ Equal Condition
 ☐ Unequal Condition

☐ Less than Condition
 ☐ Greater than

Address of Tag Data(0-223):

Condition(<=8 Hex Number):

Note:

The 8 bytes of 6B tag number write in the 0~7 which in the address of tag data (0- 233)

Figure, query condition begin to compare from the tag data address 0. The comparative content is 00.

Click

The image shows a button labeled "Query by Condition" with a dotted border, indicating it is the active or selected option.

See

List ID of Tags			
No.	ID	Times	
1	0022334455667788	69	
2	0022334455667789	69	

Figure, from the tag number we can see the addresses 0 of tag data: 00, 00.
Equal condition 00, therefore, the two tags are read.

<3> Greater than

The dialog box "Query Tags by Condition" contains four radio buttons: "Equal Condition", "Unequal Condition", "Less than Condition", and "Greater than". The "Greater than" option is selected. Below the radio buttons, there are two text input fields: "Address of Tag Data(0-223):" with the value "0" and "Condition(<=8 Hex Number):" with the value "00".

Note:

The 8 bytes of 6B tag number write in the 0~7 which in the address of tag data (0- 233)

Figure, query condition begin to compare from the tag data address 0. The comparative content is 00.

Click

The image shows a button labeled "Query by Condition" with a dotted border, indicating it is the active or selected option.

See

List ID of Tags			
No.	ID	Times	
1	1122334455667788	8	
2	1122334455667789	8	

Figure, from the tag number we can see the addresses 0 of tag data: 11, 11.
Great than 00, therefore, the two tags are read.

5.2 Read and Write Data Block / Permanently Write Protect Block of Byte

Read and Write Data Block / Permanently Write Protect Block of byte

E0040000D4E77302

Start/Protect Address (00-E9)(Hex): 00 Length of Data: (1-32/Byte/D) 12

Write Data (1-32 Byte/Hex): 0000

Read Write Lock Check Lock Clear

E0040000D4E77302EE000000
E0040000D4E77302EE000000
E0040000D4E77302EE000000
E0040000D4E77302EE000000

(1)

E0040000AEE77302

(2) Read data:

Start/Protect Address (00-E9)(Hex): 00 Length of Data: (1-32/Byte/D) 12

Start address: 0x00 stand in start to read data from first word in the designated storage area, 0x01 stand in start to read data from second word in the designated storage area, and so on. Range is 8~223. Beyond this range, reader will return parameter error.

Read length: pointed to the number of bytes to read. Range is 1~32. If Start address + Read length greater than 224, or Read length greater than 32 or is zero, reader will return parameter error information. The high bytes of Read length write in the low address in tag.

(3) Write data:

Start/Protect Address (00-E9)(Hex): 00 Length of Data: (1-32/Byte/D) 12

Write Data (1-32 Byte/Hex): 0000

Write data: Range is 1~32. If Start address + Write length greater than 224, or Write length greater than 32 or is zero, reader will return parameter error information. The high bytes of Read length write in the low address in tag.

(4) Permanently Write Protect: lock the designated byte.

Start/Protect Address (00-E9)(Hex): 00

(5) Check Protect: check whether the designated byte is locked.

Start/Protect Address (00-E9)(Hex): 00

(6) If succeed, we can see:

15:45:14"Read"successfully

15:44:36 "Write" successfully

15:45:34 "Lock" successfully

15:45:54 "Check Lock" Command Response=0x01 (The Byte is locked)

6. Frequency Analysis Operation (After Open COM Port)


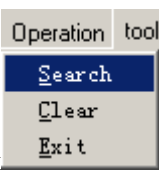
Frequency	Times	Percentage

Click , can see

902.60MHz (0)	30/30	100.00%
903.00MHz (1)	30/30	100.00%
903.40MHz (2)	30/30	100.00%
903.80MHz (3)	28/30	93.33%
904.20MHz (4)	30/30	100.00%
904.60MHz (5)	30/30	100.00%
905.00MHz (6)	30/30	100.00%
905.40MHz (7)	30/30	100.00%

The larger of the percentage ,the better of the results.

7. Config TCP/IP

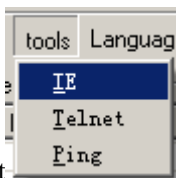
1. Select , click  Search.

If device connected.

List of device			
Device Name	Device IP	Device Mac	
NP-RE	192.168.0.250	00.F0.0A.03.0F.5B	

Select the device

NP-RE	192.168.0.250	00.F0.0A.03.0F.5B
-------	---------------	-------------------

2. Select , default user name and password are admin.



Login.

- (1) Select [Serial1 Settings](#) , default:

Channel 0 [Enable Serial Port](#)

Port Settings

Protocol: [RS232](#) FIFO: [8](#) Flow Control: [None](#)

Baud Rate: [57600](#) Data Bits: [8](#) Parity: [NONE](#)

Stop bits: [1](#)

Finished click [OK](#) .

- (2) Select [Connection1](#) ,set TCP.

Channel 0

Connection Protocol: [TCP](#)

Connect Mode

Passive Connection: **Active Connection:**

Acception Incoming: [Yes](#) Active Connect: [None](#)

Start Character: 0x (in Hex)

Endpoint Configuration:

Local Port: [27011](#) Remote Port: [0](#)

Remote Host: [0.0.0.0](#) DNS Query Period: [1800](#) (Secs)

Disconnect Mode:

Inactivity Timeout: [4](#) : [15](#) (mins:secs)

Finished click [OK](#) .

- (3) Select [Network](#) set device IP.

IP Configuration	
<input type="radio"/> Obtain IP address automatically	
<input checked="" type="radio"/> Use the following IP config:	
IP Address:	<input type="text" value="192.168.0.250"/>
Subnet:	<input type="text" value="255.255.255.0"/>
Default Gateway:	<input type="text" value="192.168.0.1"/>
Preferred DNS server:	<input type="text" value="192.168.0.1"/>
Alternate DNS server:	<input type="text" value="192.168.0.1"/>
Ethernet Configuration	
<input checked="" type="checkbox"/> Auto Negotiate	
Speed:	<input type="radio"/> 100Mbps <input checked="" type="radio"/> 10Mbps
Duplex:	<input type="radio"/> Full <input checked="" type="radio"/> Half
MAC Address:	<input type="text" value="00.F0.0A.03.0F.5B"/>
HTTP Server	
HTTP Server Port:	<input type="text" value="80"/>

Finished click

(4) The end select .Click , Restart your device.