USB E7umf Library

Function manual

Contents

1. uhf_init

int uhf_init(int port, long baud)

Description

Connect reader.

Parameters

port：

100: USB interface

0: Serial port(COM1)

1: Serial port(COM2)

2: Serial port(COM3)

...

baud: Baud rate(9600-115200)

Return Value

>0 is device handle, otherwise connect failed

Example

```
int icdev;
icdev = uhf_init(100, 115200);// USB port
```

2. uhf_exit

int uhf_exit(int icdev)

Description

Disconnect reader.

Parameters

icdev：Handle of reader.

Return Value

=0 correct

other error

Example

```
int st;
```

st = uhf_exit(icdev);

3. uhf_read

int uhf_read (int icdev, unsigned char infoType, unsigned char address, unsigned int rlen, unsigned char* pData)

Description

Read data from UHF tag, read data according to the infoType, address, rlen and other parameters.

Parameters

icdev：Handle of reader.

infoType: 1: EPC
2: TID
3: USER
4: reserved

address: start address

rlen: length of the data to read(will get rlen*4 bytes data)

pData: Data read

Return Value

<>0 error, the absolute value is error code

= 0 read data correctly

Example

```
unsigned char[50] DataBuffer;
int st;

st = uhf_read(icdev, 1, 0, 8, DataBuffer);
/* Read EPC 8 words data to DataBuffer start from address 0(will get 32 bytes data)*/
```

4. uhf_write

int uhf_write (int icdev, unsigned char infoType, unsigned char address, unsigned int wlen, unsigned char* pData)

Description

Write UHF tag

Parameters

icdev：Handle of reader.

infoType: 1: EPC
2: TID
3: USER
4: reserved

address: start address

wlen: length of the data to write(will write wlen*4 bytes data)

pData: Data for write

Return Value

<>0 error, the absolute value is error code

= 0 write data correctly

Example

```
unsigned char[50] DataBuffer;
int st;
int i;

for(i=0;i<50;i++)
   DataBuffer[i] = 0x35;
st = uhf_write(icdev, 1, 2, 6, DataBuffer);
/* Write 6 words data to EPC start from address 2(will write 24 bytes data)*/
```

5. uhf_action

int uhf_action (int icdev, unsigned char action, unsigned char time)

Description

Control buzzer and led

Parameters

icdev：Handle of reader.

action: 1: Beep
2: Red led on
4: Green led on
8: Yellow led on

time: Unit: 10ms

Return Value

<>0 error, the absolute value is error code

= 0 Correct execution

Example

```
int st;

st = uhf_action(icdev, (1 | 4), 50);
/* beep and green led on 500ms*/
```