

USB E7umf Library

Function manual

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1. uhf_connect

int uhf_connect(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_connect(100, 115200); // USB port
```

2. uhf_disconnect

int uhf_disconnect(int icdev)

Description

Disconnect reader.

Parameters

icdev: Handle of reader.

Return Value

=0 correct

other error

Example

```
int st;
```

```
st = uhf_disconnect(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*/
```

6. uhf_setAccessPassword

int uhf_setAccessPassword (int icdev, unsigned char* AccessPassword)

Description

Set Access Password

Parameters

icdev: Handle of reader.

AccessPassword: Access password of tag

Return Value

<>0 error, the absolute value is error code

= 0 Correct execution

Example

```
int st;  
  
unsigned char password[10]={0x31,0x32, 0x33,0x34, 0x35,0x36,  
0x37,0x38};
```

```
st = uhf_setAccessPassword(icdev, password);
```