

uhf rfid SDK Development Guide

SDK is a software development kit that use for user develop application program. SDK provide to user in dynamic-link library document form.

When user using SDK to develop their own application development platform, user will be able to complete their application development in high efficiently and correctly based on SDK. SDK support Visual C++ 、VB、 C++ Builder and Delphi different language development. Demo program source code of VC++ version and VB version is available now, please contact with our engineer if have any needs. SDK development guide is a reference manual for user secondary development. After review this manual, user will be able to solve their problem in fast way during their development.

1. DLL explain

int _stdcall Open_Port(unsigned char port);

Function:Open PC COMM port.

Parameter:

port: Com port, 0—Com 1, 1—Com 2, Infer from this;

Return Value: Success return 0,fail return not 0.

int _stdcall Close_Port(unsigned char port);

Function: Close PC COMM port.

Parameter:

port: Com port, 0—Com 1, 1—Com 2, Infer from this;

Return Value: Success return 0,fail return not 0.

int _stdcall ReadSerialNum(unsigned char port,int * Serial_Num);

Function: Read serial number.

Parameter:

port: Com port, 0—Com 1, 1—Com 2, Infer from this;

Serial_Num: Serial number;

Return Value: Success return 0,fail return not 0.

int _stdcall Identify_6B(unsigned char port,int Serial_Num , unsigned char * buf);

Function: Identify 18000-6B tag.

Parameter:

port: Com port, 0—Com 1, 1—Com 2, Infer from this;

Serial_Num: Serial number;

Buf: Receive data buffer,data strucure:if buf[6]=1,Identify is ok ,or not .buf [7] to buf [18] is the

data of tag, buf[19] is checksum;

Return Value: Success return 0,fail return not 0.

*****/

int _stdcall Read_6B(unsigned char port ,int Serial_Num , unsigned char * buf,unsigned char addr,unsigned char len);

*****/

Function: Read 18000-6B data.

Parameter:

port: Com port, 0—Com 1, 1—Com 2, Infer from this;

Serial_Num: serial number;

buf: Receive data buffer,data strucure:if buf[6]=1,reading is ok ,or not .buf [7] to buf [7+len] is the data of reading.

addr: read the data start address;

len: read the data length;

Return Value: Success return 0,fail return not 0.

*****/

int _stdcall Write_6B(unsigned char port ,int Serial_Num , unsigned char * buf,unsigned char addr,unsigned char len ,unsigned char *data);

*****/

Function: Write 18000-6B data.

Parameter:

port: Com port, 0—Com 1, 1—Com 2, Infer from this;

Serial_Num: serial number;

buf: Receive data buffer. data strucure:if buf[6]=1,write is ok ,or not ;

addr: write the data start address; (note: start address is from 18);

len: write the data length;

data: write the data pointer ;

Return Value: Success return 0,fail return not 0.

*****/

int _stdcall Identify_6C(unsigned char port ,int Serial_Num , unsigned char * buf);

*****/

Function: Identify 18000-6C(EPC GEN2) tag.

Parameter:

port: Com port, 0—Com 1, 1—Com 2, Infer from this;

Serial_Num: Serial number;

Buf: Receive data buffer,data strucure:if buf[6]=1,Identify is ok ,or not .buf [7] to buf [18] is the data of tag, buf[19] is checksum;

Return Value: Success return 0,fail return not 0.

*****/

int _stdcall Read_6C(unsigned char port ,int Serial_Num , unsigned char * buf,unsigned char mem,unsigned char addr,unsigned char len);

/******

Function: Read 18000-6C(EPC GEN2) data.

Parameter:

port: Com port, 0—Com 1, 1—Com 2, Infer from this;

Serial_Num: serial number;

buf: Receive data buffer,data strucure;if buf[6]=1,reading is ok ,or not .buf [7] to buf [7+len*2] is the data of reading.

mem: the block address;

addr: read the data start address;

len: read the data length; (Note: the data of EPC is 16 bit, so multiply 2);

Return Value: Success return 0,fail return not 0.

*****/

int _stdcall Write_6C(unsigned char port ,int Serial_Num , unsigned char * buf,unsigned char mem, unsigned char addr,unsigned char len ,unsigned char *data);

/******

Function: Write 18000-6C(EPC GEN2) data.

Parameter:

port: Com port, 0—Com 1, 1—Com 2, Infer from this;

Serial_Num: serial number;

buf: Receive data buffer. data strucure;if buf[6]=1,write is ok ,or not ;

mem: the block address;

addr: write the data start address; (note: start address is from 2);

len: write the data length;

data: write the data pointer ;

Return Value: Success return 0,fail return not 0.

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int _stdcall SettingPara(unsigned char port ,int Serial_Num , unsigned char * buf, unsigned char *data,unsigned char len);

/******

Function: Set work mode

Parameter:

port: Com port, 0—Com 1, 1—Com 2, Infer from this;

Serial_Num: serial number;

buf: Receive data buffer. data strucure;if buf[6]=1,write is ok ,or not ;

data: parameter pointer;

len: write the parameter data length;

Return Value: Success return 0,fail return not 0.

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2. DLL sample

Refer VC, VB Development package.

reference:

Error code	Error state
201	Fail to open PC COMM
202	Fail to get COMM parameter.
203	Fail to set COMM parameter.
204	Setting overtime
205	Fail to send
206	Fail to receive
207	Fail to close PC COMM
208	Send overtime
209	Receive overtime

ElecKits Technologies Studio

Address:

China Office: No.8 XuJiaBang district, Suzhou Industrial Park, SuZhou, JiangSu, China

Telephone: +86-0-18914022291

E-Mail:

Product Sales : sales@eleckits.com

Technology Support: support@eleckits.com

Orders: eleckits.orders@gmail.com

website: <http://www.eleckits.com>

website: <http://www.eleckits.com>