

Focus on RFID core technology

Hopeland USB desktop reader Write software user manual C#

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1	SUM	MARY	.2
	1.1 9	SUMMARY OF CONTENT	2
	1.2 (Open software	2
	1.3 9	SOFTWARE LANGUAGE	3
	1.3.1	1 Simplified Chinese	3
	1.3.2	2 English	3
2	CON	INECT READER	.3
	2.1 l	JSB communication connection	3
3	WRI	TE TAG	.5
	3.1 (Generate data to be written	5
	3.1.1	1 Parameter description	5
	3.1.2	2 Generate data	5
	3.2 \	Write tag	6
	3.2.	1 Writing parameters	6
	3.2.4	2 Write tag	6
4	REA	D TAG	.7
	4.1 F	Reading parameters setting	7
	4.2 St.	ART READING CARD	8
5	CON	IFIGURATION	.9
	5.1 F	Reader configuration	9
	5.2 l	JSB HID Keyboard Settings	10
6	HELF	· ۲	10
	6.1 (GET DEVICE INFORMATION	10
	6.2 (Get the device serial number	0
7	IMPO	DRT \ OUT DATA	11
	7.1 I	MPORT DATA TO BE WRITTEN	11
	7.2 E	Export data to be written	11
	7.3 E	Export the written data	11
	7.4 [Export read data	11

Contents

1 Summary

1.1 Summary of content

This document is written for the basic use of writer software designed for USB desktop reader (HL7206A2A). The running environment of writer software is Windows platform .NET Framework 4.0.

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1.2 Open software

Double-click the icon CardlssuerSoftware.exe under the program directory to open the

software initialization interface. As shown in figure 1-1.

🔰 US	B发卡器 轴	欠件						= = =	×
连接	配置	帮助							
Ę	ίŧ	读卡							
写入	数据列表					生成待写数据			
	ID	State	EPC	UserData	PassWord	数据规则 数据长度(word):	4		_
*						前段固定数据:	E200	小支重・ ASCIT转HEX写入	
						后段固定数据:	E200	☆据区	
						可变数据初始值:	17	epc	
				连接读写器		(= = ×		◎ 用户区 生成数排	З
							BCD 💿 HEX	◎ 密码区	
				连接方式	: USB连接 ▼				
				·+-+++++++++++++++++++++++++++++++++++			田田山区	□ 宓四▽	
				注接梦刻	:				
								写卡间隔(S): 2	
						确定	久不可写	访问密码: 0000000	2
						保护密码: 000000	01	写卡	
						· · · ·			
						统计数据		510 th C2	
						何与忠数: 0 万式功数: 0		剩东数里: □ 万生时数: 0	
						与成功数: 0		与天则刻: 0	
						数据导出		_	
						导入待写数据	导出待写数排	导出成功数据	
•									
操作进	度		当前操作序号: 1					当前状态: 正在	寻卡 ₁₈

Figure 1-1

1.3 Software language

1.3.1 Simplified Chinese

Click "configuration" - "language" - "中文" (simplified) in the toolbar to change the desktop writer software language to Chinese, and the software will automatically restart. After restarting, the reader needs to be connected again. As shown in figure 1-1

1.3.2 English

Click "configuration" - "language" - "English" on the toolbar to change the software language of desktop reader to English, and the software will restart automatically. After restarting, the reader needs to be connected again. As shown in figure 1-3

✓ Desktop Writer Software	
Connect Device Configuration Help	
Write Tag Read Tag	
List of data to be written	Set of writing rules
ID State EPC	UserData PassWord Rules Data length(word): 6 Amount: 10 Prefix: E200 ASCII to HEX Suffix: AAAA Data Initial value: 1 © EPC
	Connect Device O User bank Generate Data
	Parameter:
	OK Write tag interval(s): 2 Access password: 00000000
	O Permanently unwritable Start writing tag Access password: 00000001
	Counter O Remaining qty: O Total qty: 0 Failure: 0
K	Data export/import Import data to be written
Operation progress	Current connection: Disconnected ,;;

Figure 1-3

2 Connect reader

2.1 USB communication connection

Click "connect" - "USB(U)" to open the USB connection interface as shown in figure 2-1



Write Tag Read Tag List of data to be written Set of writing rules ID State EPC UserData PassWord Suffix: E200 Data Initial value: O HEX Generate O Data O	Desktop #r: Connect Device	iter Sof	tware						
Write Tag List of data to be written ID State EFC UserData PassWord Set of writing rules Rules Data length(word): 6 Amount: 1 Prefix: E200 Data Initial value: 0 O SEC User bank O HEX O HE	Connect Device	e conng	Juration Theip						
List of data to be written ID State EFC UserData PassWord Rules Data length(word): 6 Amount: 1 Prefix: E200 Data Initial value: 0 User bank Generate Data Generate Data	Write Tag	Read Tag							
ID State EPC UserData PassWord Data length(word): 6 Amount: 1 Prefix: E200 Data Initial value: 0 0 O HEX O HEX O HEX	List of data	to be wri	tten			Set of writing rules Bules			
Prefix: E200 ASCII to HEX Suffix: E200 Bata Initial value: 0 Initial value: O User bank O HEX O HEX Password bank O		State	EPC	UserData	PassWord	Data length(word):	6 ~	Amount: 1	7
Suffix: E200 Initial value: 0 Connect Device Connect Device						Prefix:	E200	ASCII to HEX	-
Initial value: 0 • EPC Connect Device • • • • • • • • • • • • • • • • • • •						Suffix:	E200	Data	
Connect Device O User bank O Password bank						Initial value:	0	• EPC	
O HEX O Password bank				Connect Derice				O User bank Generate Data	
				COMMECT DEVICE			Онех	O Password bank	
IVDE: INCR				Tune:	IISB				_
				-57	035				
Parameter:				Parameter:			🗌 User bank	🗌 Password bank	
UHF READER 1					UHF READER 1	-	u	Vrite teg interval(s): 2	-
							, i i i i i i i i i i i i i i i i i i i	1. 00000000	1
OK Access password. 0000000						OK		Access password.	1
writable Start writing tag							writable	Start writing tag	
Access password: UUUUUUU1						Access password:	0000001		
Counter						Counter			-
Total qty: 0 Remaining qty: 0						Total qty: 0	Remaini	ing qty: 0	
Success: 0 Failure: 0						Success: 0	F	Sailure: 0	
Data export/import						Data export/import			
Import data to Export data Export						Import data to	Export data	Export written data	
	<				>	ou na recon	to be writter	arrest data	
Operation progress Current connection: Disconnected	Operation progre	ss					Cu	urrent connection: Disconnecte	ed 🚙

Figure 2-1

Select the corresponding USB connection parameter to connect. After connected, the current connection interface will be automatically closed and enter the main form as shown in figure 2-1

➢ Desktop ♥riter Software		
Connect Device Configuration Help		
Write Tag Read Tag		
List of data to be written		Set of writing rules
ID State EPC	UserData PassWord	Rules Amount: 10 Prefix: E200 Amount: 10 Prefix: E200 ASCII to HEX Data Suffix: AAAA Data Data Initial value: 1 Initial value: Data Bata Step: 1 O Liser bank O Password bank Writing parameters Write data Password bank Password bank Write data Intur on protection Write tag interval(s): 2 Access password: 00000000 Start writing tag Access password: 00000000 Start writing tag Counter Total qty: 0 Remaining qty: 0 Data export/import Failure: 0 Import data to be written Export written data
Operation progress		Current connection: Connected

Figure 2-2



3 Write tag

3.1 Generate data to be written

3.1.1 Parameter description

Customize the parameter rules that generate the data to be written, as shown in figure 3.1

-Set of writing rules -Rules			
Data length(word):	6 ~	Amount: 10	
Prefix:	E200	ASCII to HEX	
Suffix:	AAAA	Data	
Initial value:	1	EPC	
Step:	1	🔾 User bank	Generate Data
Data type: 🔿 D	BCD 💿 HEX	○ Password bank	



Data length: the total length of the generated data

Prefix: Fixed data at the beginning of the data to be written (fixed and unchanged)

Suffix: Fixed data at the end of the data to be written (fixed and unchanged)

Variable data initial value: the initial value of the generated data

Variable data step value: the iteration value that generates the data

Variable data type: data in BCD (decimal) format or HEX format

Amount: the number of generated data

ASCII to HEX: encoding in ASCII format when writing data

Data area: Which data area of the RFID tag will be written from the generated data

3.1.2 Generate data

After filling in the parameters of Set of writing rules, click the button of Generate Data, data will be generated according to user-defined rules and displayed on the interface. See figure 3-2



Hopeland USB desktop reader writer user manual

Desktop Connect D	Triter Softwa evice Configura	re tion Help			
rite Tag	Read Tag				
ist of de	ata to be writter	L			Set of writing rules
ID 2 3 4 5 6 7 8	State To be writter To be writter	EPC 22000000000000000011AAAA 220000000000000002AAAA 220000000000000000AAAAA 220000000000000000AAAAA 220000000000000000AAAAA 220000000000000000AAAAA 22000000000000000AAAAA 22000000000000000AAAAA 22000000000000000AAAAA 220000000000000000AAAAA 220000000000000000AAAAA 2200000000000000000AAAAA 22000000000000000000AAAAA 220000000000000000000AAAAA	VserData	PassWord	Data length(word): 6 Prefix: E200 Suffix: AAAA Initial value: 1 Data Step: 1 Data type: BCD HEX Writing parameters Writing data
9	To be writter	22000000000000000000AAAA 22000000000000			Image: Second state sta
				>	Counter Total qty: 10 Remaining qty: 0 Success: 0 Failure: 0 Data export/import Import data to Export data to be written kitten written data

Figure 3-2

3.2 Write tag

3.2.1 Writing parameters

Writing parameters, such as data area, EPC protection, write tag interval and access password, should be selected before writing card. See figure 3-2

	Writing parameters			
	Write data			
	EPC	🗌 User bank	Password bank	The original
The new access password to be written to the tag	EPC protection Turn on protection Permanently u Access password: 00	n n nwritable 0000001	Write tag interval(s): 2 Access password: 00000000 Start writing tag	access password of the tag is 00000000

Figure 3-3

3.2.2 Write tag

In the case that data to be written is generated already, click Start writing tag button, according to the Write tag interval and the writing status of the current tag, take away the written tag from the reader, and put on a new tag. When all the data to be written is written, the interface will prompt the completion of tag writing, as shown in figure 3-4

Note: for the list of data to be written in the same batch, the label will not be written twice. If the label that has been written needs to be written again, the data needs to be regenerated for the second batch of writing.

🧈 De	sktop ¶	riter Soft	rare				
Con	nect Dev	ice Configu	ration Help				
Writ	e Tag	Read Tag					
Lis	of date	a to be writt	en				Set of writing rules
	ID	State	EPC	UserData	PassWord	TID	Rules
•	1	Written	20190000000000000001AAAA			E2801130200034AB729A	AM0911 Data length(word): 6 V Amount: 12
	2	Written	20190000000000000002AAAA			E2801130200034AD729E	Prefix: 2019 ASCII to HEX
	3	Written	2019000000000000003AAAA			E2801130200035B572A0	A00911 Suffix: AAAA Data
	4	Written	20190000000000000004AAAA			E2801130200035D4729D	9D0911 Initial value: 1
	5	Written	2019000000000000005AAAA			E2801130200034AE729B	9B0911 Step: 1 O User bank Generate Data
	6	Written	2019000000000000006AAAA			E2003412012E03000410	1074EC Data type: BCD O HEX O Fassword bank
	7	Written	20190000000000000007AAAA			E2801130200035AB729A	0A0911 Weiting percenters
	8	Written	201900000000000008AAAA			× 1410	1077DB Write data
	9	Written	20190000000000000009AAAA			0410	1077DC BPC User bank Password bank
	10	Written	20190000000000000010AAAA			Write completed 2950	250911
	11	Written	2019000000000000011AAAA			2950	950911 Write tag interval(s): 2
	12	Written	2019000000000000012AAAA			OK 0410	105DF3 (0000000) Access password: 00000000
							O Permanently unwritable Stop
							Access password: 00000001
							Total gtv: 12 Remaining gtv: 0
							Suggerst 12 Reiluwet 0
							Success.
							Data export/import
							Import data to Export data Export be written to be written written data
0.000	tion proc		100.00%				Current connection. Connected
Opera	cion prog	iess	100.00%				Current connection: Connected ,;

Figure 3-4

4 Read tag

4.1 Reading parameters setting

Before reading tag, parameters such as the reading area and the data length should be configured. See figure 4-1



Reading parameters	
Reading area	
TID TID	
Model:	~
Length(word):	6
🗌 User bank	
Start address(word):	0
Length(word):	6
Password bank	
Start address(word):	2
Length(word):	2
Interval of reading tag	(ms): 100
Access password:	0000001
ASCII conversion:	~
Read	Tag

Figure 4-1

4.2 Start reading card

After setting the reading parameters, Click Read card (single read mode), the software will add the data read by the desktop reader to the interface to display, as shown in figure 4-2



Jesktoj	• Writer Softw	are			
nnect [evice Configu	ration Help			
te Tag	Read Tag				
data	list				
II	type	EPC	TID	UserData	ReserveData
1	6C	20190000000000000012AAAA			
2	6C	20190000000000000011AAAA			
3	6C	201900000000000000000000000000000000000			
4	6C	20190000000000000004AAAA			
5	6C	20190000000000000009AAAA			
6	6C	2019000000000000002AAAA			
7	6C	2019000000000000005AAAA			
8	6C	2019000000000000001AAAA			
9	6C	201900000000000008AAAA			
10	6C	2019000000000000003AAAA			
11	6C	20190000000000000007AAAA			
12	60	2019000000000000006AAAA			
peration p	rogress	0%			

Figure 4-2

5 Configuration

5.1 Reader configuration

Configure the working frequency band, antenna power and tag reading type of desktop reader, as shown in figure 5-1.

🧈 Rea	der configuration
	RF parameters Frequency band: GB,920~925MHz ->
	RF output power(dBm): 20 🗸
	Tag type 6C 6B GB
	Get

Figure 5-1

5.2 USB HID Keyboard Settings

Configure the data area, filter time, and suffix character for the USB HID keyboard

🧈 simulation	keyboard c	onfiguration	= -	
Control o	onfiguration			1
Data:	EPC 🗸	Filter time(s):	1	
Suffix:	Enter 🗸	ON-OFF:	Clos 🗸 Close Open	
		Set	Get	

Figure 5-2

6 Help

6.1 Get device information

Get the relevant information of the desktop reader as shown in figure 6-1



Figure 6-1

6.2 Get the device serial number

Get the serial number of the device. See figure 6-2





Figure 6-2

7 Import \ out data

7.1 Import data to be written

Click the button of Import data to be written, select the CSV file to be imported, and import the data into the program.

7.2 Export data to be written

Click the button of Export data to be written, select the file storage location, and export the data to the CSV file at the specified location.

7.3 Export the written data

Click the button of Export written data, select the file storage location, and export the data to the CSV file in the specified location.

7.4 Export read data

Click the "Export data" button in the interface of Read Tag, select the file storage location, and export the data to the CSV file in the specified location.