# **USER MANUAL**

# ZCS-IC 01/02 RFID Reader

**Revision 1.0 03/18/2013** 



**Revision History** 

Revision	Date	Description	Ву
1.0	03/18/2013	Initial Release	zhengw







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#### 1. Introduction

ZCS-IC is a contactless smart card reader/writer base on the 13.56M Hz contactless (RFID) Technology. It supports Mifare and ISO 1443A standard. It is a plugand-play USB device allowing interoperability with different devices and applications. The proximity operating distance is up to 10 cm, depending on the type of contactless tag in use.

This advanced Reader/Writer is widely used in applications including Access Control, Parking Systems, Prepaid Parking, Ticketing, Time and Attendance, Admission Control and POS.Here will be briefly introduced how to use 'rfid card reader 'and 'membership card' two applications.

#### 2. Features and Benefits

- The genuine USB HID MIFARE1 card reader, plug and play
- Stable performance, fast speed, low consumption, without external power supply, use stable computer USB power, a lower failure rate.
- Support MIFARE ONE card, sensing distance from 50-100mm.
- Light, beautiful, trendy.
- The circuit board has a programmable control buzzer, can be set sound.
- Have a power indicator light and operating status of the USB communication signals
- Built-in one continuous change all 16 district or any district password, perform a change of 16 area password takes less than 200 milliseconds.
- Any call operation, return to information, all kinds of accidents are clear at a glance
- Provide a full range of dynamic library functions, provide a comprehensive description of the development, points, example, and source code.(includes c#2003,c++builder,Adelphi,Powerbuilder,VB.net2003,VB6.0,java)

#### 3. Terms and Abbreviations

HID Human Interface Device

ISO International Organization for Standardization

RFID Radio Frequency IDentification



## 4. Operation

Insert the device into the USB port, the red LED will light, you can swipe a proximity card when the green LED flash end. If it reads good, the beeper will sound.

## 5. Specification

## **Power Consumption**

• USB interface – from host interface. No external power adaptor needed.

## **Sensing Distance**

• 50~100mm

#### **Indicators**

- Two-color LED
  - o Red indicates power indicator
  - o Green indicates read good
- Beeper
  - o A beep sound indicates good read

#### **Communication Interface**

- USB
  - o Complies with USB 2.0 specification

#### **Card Size**

• Supports cards that meets the ISO14443-A, Mifare standards

#### **Dimension**

- ZCS-01:120mm(length) by 100mm (width) and 30mm (height).
- ZCS-02:110mm(length) by 80mm (width) and 30mm (height).

#### Model

- ZCS-IC 01:white
- ZCS-IC 02:black



## **6. Using the Demo Program**

#### 6.10verview of membership Demo

Screenshot of msr100 tool Demo Software

membership card number generator V1.0 — — —
current area area 00 ▼ block 00 ▼ password type A ▼
length 10 byte Automatic accumulation card number    Skip 3
Card number password password
Read Member ID Write-once cards time /s Continuous write cards
successfully piece, failure piece cleared cumulative number
Information box
Empty Tip Exit

#### 6.1.1 install



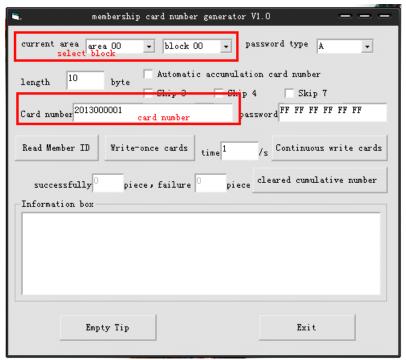
Click card exe to install the software.

#### 6.1.2 connection

Insert the device into the USB port, the red LED will light, you can swipe a proximity card when the green LED flash end

#### 6.1.3 swipe proximity card

selected block, and input data



then you can write or read the data continuously.



#### 6.20verview of RFID card Demo

Screensi Operat:				D (	carc	ים ו	emo	0 80	ж	var	е													
-operat:	ing	ar	ea-																					
curr	ent	ar	ea:		ar	ea (	00		-			pas	SSW	ord	ty	pe:	A			-				
						I		21.		71-		1												
	_						100	对证	间光			-												
Old pas	ss F	F F	F F	F F	F F	F F	F	▼]			FF	FF	FF	FF	FF	FF	- N	ew	pas	2	Mod	ify	ar	ea O password
-Card	dat	a —																						
022													_											
	_	1		3			6		8				C	D	F	-F	_			1		<b>√</b> /S		Continuous read area
block0	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF							,	0 (R)
	HH	प्रम	प्रम	FF	N N	प्रम	प्रम	प्रम	NN.	77	HH	44	RR	RR	RR	N N	-							
blocki	1																				F	Read	. aı	rea0 (R)
block2	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF								
																								0.403
block3	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF					W:	rite	2 8	ureaO(W)
-Infor	mat	ion																						
																								exit

#### 6.2.1 install

Installation as well as membership card application.

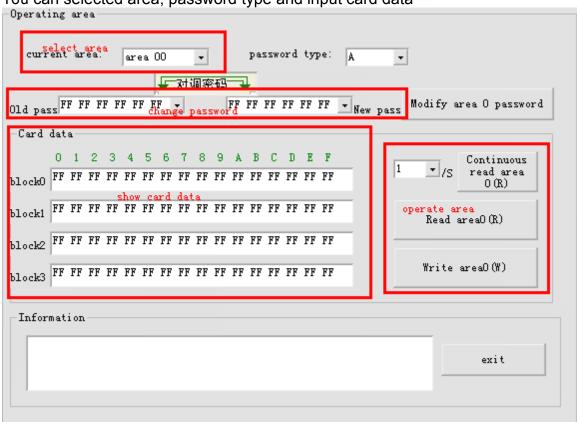
#### 6.2.2 connection

Insert the device into the USB port, the red LED will light, you can swipe a proximity card when the green LED flash end



#### 6.1.3 swipe proximity card

You can selected area, password type and input card data



then you can write or read the data continuously.





## 7.SDK API

## 7.1 api detail

	all piccreadex(unsigned char ctrlword,unsigned char *serial, ,unsigned char keyA1B0,unsigned char *picckey,unsigned char
Function	Read one sector information, include the block1, block2, block3 data, and return the card serial number.
Parameters	Ctrlword:control word,is a byte,equivalent to eight bits,each bit only has 0 and 1 two states  Suggest to set the ctrlowd:  #define BLOCK0_EN0X01  #define BLOCK1_EN0X02  #define BLOCK2_EN0X04  #define NEEDSERIAL 0X08  #define EXTERNKEY 0X10  Eg:  Read block0,block1,block2, only read the serial card, need assign the password  Ctrlword = BLOCK0_EN + BLOCK1_EN +  BLOCK2_EN + NEEDSERAL + EXTERNKEY  Read block0,block1,block2, read any cards, need assign the password  Ctrlword = BLOCK0_EN + BLOCK2_EN +  EXTERNKEY  Read block0,block1,block2, read any cards, start the chip internal password  Ctrlword = BLOCK0_EN + BLOCK2_EN +  EXTERNKEY  Read block0, block2, read any cards, start the chip internal password  Ctrlword = BLOCK0_EN + BLOCK2_EN
	<ul> <li>Serial: point to the assigned array, at least 4 chars. If the Ctrlword not set NEEDSERIAL control word, the Serial do not need to assign a value, for the array only return value, if Ctrlword set NEEDSERIAL, it must set the value for the array.</li> <li>Area:the number of the sectors, 0~15</li> <li>keyA1B0:0 means that use the B password to authentication, for non zero with A password to authenticate</li> <li>*picckey:point to the array for the password.</li> <li>*piccdata0_2:point to the array for the arrays, it should be more than 48 bytes, to save the three blocks data.</li> </ul>



	Array0~array15 keep the block1 data, array16~31 keep the block2 data, array32~array47 keep the block2 data								
Datum									
Return	Return a unsigned char value, and point the current value to								
	*piccd								
	0	Operation is successful, the data read out is valid							
	1	$0 \sim 2$ block haven't read out, may swipe card too fast, but							
		the card serial number has been read							
	2	0 block have been read, but 1 ~ 2 block read failure, card							
		serial number has been read.							
	3	0 and 1 block have been read, but 2 block read failure, card							
		serial number has been read.							
	8	Look for a card error, there is no card in the induction area							
	9	Multiple cards in the sensing area							
	10	The card may have been dormant							
	11	Password loading failure							
	12	Password authentication failed							
	21	Dynamic library ICUSB. DLL is not in the current							
		directory							
	22	Dynamic library or driver error							
	24	The operation timed out							
	other	An unknown error							

unsigned charstdca	Il piccwriteex(unsigned char ctrlword,unsigned char *serial,
unsigned char area,	unsigned char keyA1B0,unsigned char *picckey,unsigned char
*piccdata0_2)	
Function	Write one sector, include the block0, block1, block2
Parameters	> Ctrlword:control word,is a byte,equivalent to eight bits,each
	bit only has 0 and 1 two states
	> Serial: simply point to a space allocated for at least four of the
	char array can be written unsigned char * pointer,the subscript
	start from 0
	Area: the area code, range from 0 to 15
	keyA1B0:0 means that use the B password to authentication,
	for non zero with A password to authenticate
	*picckey:Password array,
	*piccdata0_2:Buffer used to store data.
Return	Return unsigned char values
	Operation is successful, write card data is valid
	1 $0 \sim 2$ block didn't write in, may swipe card too fast.
	2 0 block have been write in, but $1 \sim 2$ block write failure
	3 0 and 1 block have been write in, but 2 block write failure
	8 Look for a card error, there is no card in the induction area
	9 Multiple cards in the sensing area
	The card may have been dormant

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11	Password loading failure
12	Password authentication failed
21	Dynamic library ICUSB. DLL is not in the current
	directory
22	Dynamic library or driver error
24	The operation timed out
other	An unknown error

Note: The above function is in the case of known card password, if you need to change the card password, you can call piccchangesinglekey function

unsigned char	stdcall pcdb	all pcdbeep(unsigned long xms)							
Function	Let the	e reader audible							
Parameters	> xr	ns:The length of sound time,unit is millisecond							
Return	Return	unsigned char values							
	0	Operation is successful							
	21	Dynamic library ICUSB. DLL is not in the current							
		directory							
	24	The operation timed out							
	other	An unknown error							

unsigned charstdc	all pcdg	Il pcdgetdevicenumber(unsigned char *devicenumber)								
Function	Return	unique serial number of the read/write device								
Parameters	> de	evicenumber: simply point to a space allocated for at least								
	fo	ur of the char array can be written unsigned char *								
	pc	pinter,the subscript start from 0								
Return	Return	unsigned char values								
	0	Operation is successful, write card data is valid								
	12	Failed to read the device serial number								
	21	Dynamic library ICUSB. DLL is not in the current								
		directory								
	22	Dynamic library or driver error								
	24	The operation timed out								
	other	An unknown error								

unsigned charstde	all piccrequest(unsigned char *serial)							
Function	Look for the card and return the serial number of the card							
Parameters	*serial: simply point to a space allocated for at least four of the char array can be written unsigned char * pointer, the subscript							
	start from 0							
Return	Return unsigned char values							
	Operation is successful, write card data is valid							
	8 Look for a card error, there is no card in the induction ar							

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9	Multiple cards in the sensing area
10	The card may have been dormant
12	Failed to read the device serial number
21	Dynamic library ICUSB. DLL is not in the current
	directory
22	Dynamic library or driver error
24	The operation timed out
other	An unknown error

unsigned charstde	call piccr	all piccrequestex (unsigned char *serial)		
Function	Find I	Find IC card and select the specified serial number IC card, must		
	specifi	ied serial number		
Parameters	> *s	*serial: simply point to a space allocated for at least four of the		
	ch	ar array can be written unsigned char * pointer,the subscript		
	sta	art from 0		
Return	Return unsigned char values			
	0	Operation is successful, write card data is valid		
	8	Look for a card error, there is no card in the induction area		
	9	Multiple cards in the sensing area		
	10	The card may have been dormant		
	12	Failed to read the device serial number		
	21	Dynamic library ICUSB. DLL is not in the current		
		directory		
	22	Dynamic library or driver error		
	24	The operation timed out		
	other	An unknown error		

unsigned charstdo	call piccauthkey1(unsigned char *serial,unsigned char area,unsigned		
char keyA1B0,unsigned char *picckey)			
Function	Password authentication way 1,use to external password		
	authentication, must specified external password .This function		
	must be run after the execution of piccrequest, or piccrequestex		
	function, can not call other functions in the middle		
Parameters	➤ *serial: Card serial number		
	Area: the area code, range from 0 to 15		
	keyA1B0:0 means that use the B password to authentication,		
	for non zero with A password to authenticate		
	> *picckey:Password array		
Return	Return unsigned char values		
	Operation is successful, password has been certified		
	11 Password loading failure		
	12 Password authentication failed		
	21 Dynamic library ICUSB. DLL is not in the current		
	directory		



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22	Dynamic library or driver error
24	The operation timed out
other	An unknown error

unsigned char stde	noll pigo	authkey2(unsigned char *serial,unsigned char area,unsigned	
char keyA1B0)	an picc	autikey2(unsigned chai seriai,unsigned chai area,unsigned	
	Degrees and systematication years 2 year ship intermal magazzand to		
Function	Password authentication way 2,use chip internal password to		
	authentication. This function must be run after the execution of		
	1 *	quest, or piccrequestex function, can not call other functions	
	in the	middle	
Parameters	*serial: Card serial number		
	> A <sub>1</sub>	rea:the area code,range from 0 to 15	
	> ke	eyA1B0:0 means that use the B password to authentication,	
	fo	r non zero with A password to authenticate	
Return	Return unsigned char values		
	0	Operation is successful, password has been certified	
	11	Password loading failure	
	12	Password authentication failed	
	21	Dynamic library ICUSB. DLL is not in the current	
		directory	
	22	Dynamic library or driver error	
	24	The operation timed out	
	other	An unknown error	

unsigned char st	dcall piccr	read(unsigned char block,unsigned char *piccdata)		
Function	<u> </u>	Read a block of data, which is 16 bytes. Must execute piccrequest		
	<b>I</b>	crequestex function at first, and then execute piccauthkey1		
	or pice	cauthkey2 function.		
Parameters	> bl	block:The absolute block number of the IC card		
	> *p	piccdata:point to the array subscript number greater than 16		
Return	Return	Return unsigned char values		
	0	Operation is successful, the data read out is valid		
	13	Reading current block failed, because of password		
		authentication failed		
	21	Dynamic library ICUSB. DLL is not in the current		
		directory		
	22	Dynamic library or driver error		
	24	The operation timed out		
	other	An unknown error		

unsigned char	stdcall piccwrite(unsigned char block,unsigned char *piccdata)		
Function	Write a block of data, which is 16 bytes. Must execute piccrequest		
	or Piccrequestex function at first, and then execute piccauthkey1		



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	or picc	eauthkey2 function.
Parameters	block: The absolute block number of the IC card	
	> *p	piccdata:point to the array subscript number greater than 16
Return	Return unsigned char values	
	0	Operation is successful, write card data is valid
	14	Writing current block failed, because of password
		authentication failed
	21	Dynamic library ICUSB. DLL is not in the current
		directory
	22	Dynamic library or driver error
	24	The operation timed out
	other	An unknown error

unsigned char	stdc	all picchalt()		
Function		Sleep card		
Return		Return unsigned char values		
		Operation is successful, write card data is valid		
		21	Dynamic library ICUSB. DLL is not in the current	
			directory	
		22	Dynamic library or driver error	
		24	The operation timed out	
		other	An unknown error	

unsigned charst	dcall piccchangesinglekey(unsigned char ctrlword,unsigned char		
*serial,unsigned char area, unsigned char keyA1B0,unsigned char *piccoldkey,unsigned			
char *piccnewkey)			
Function	Change single area password		
Parameters	> Ctrlword:control word,is a byte,equivalent to eight bits,each		
	bit only has 0 and 1 two states		
	Serial: simply point to a space allocated for at least four of the char array can be written unsigned char * pointer, the subscript start from 0		
	Area: the area code, range from 0 to 15		
	keyA1B0:0 means that use the B password to authentication,		
	for non zero with A password to authenticate		
	<ul> <li>* piccoldkey:old Password array</li> </ul>		
	<ul><li>* piccnewkey:new Password array</li></ul>		
Return	Return unsigned char values		
	0 Operation is successful		
	8 Look for a card error, there is no card in the induction area		
	9 Multiple cards in the sensing area		
	10 The card may have been dormant		
	11 Password loading failure		
	12 Password authentication failed		

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21	Dynamic library ICUSB. DLL is not in the current directory
22	Dynamic library or driver error
24	The operation timed out
other	An unknown error

#### 7.2 sample code

Refer to the API, you can develop the application by yourself easily.

#### 7.2.1 java code

```
⊟ 🎏 Usb_Mifare
                    🗎 进 src
                      eom. szze
                          进 🌙 JNAApi.java
                           - 📄 OUR_MIFARE. dll
                        🕀 🚺 Result. java
                        🗎 🔠 servlet
                          🕀 🕖 GetDeviceNumServlet.java
                    ⊞ ➡ JRE System Library [Sun JDK 1.6.0]
                    ⊞ ➡ Referenced Libraries
                    🗎 🎿 Web App Libraries
                    ⊟ 🧀 WebRoot
                      🗎 🧁 META-INF
                      # EB-INF
engineering structure: index. jsp
public interface CLibrary extends StdCallLibrary {
      CLibrary
                           INSTANCE
                                                               (CLibrary)
Native. loadLibrary("OUR MIFARE",
                        CLibrary.class);
            /**
             * Greturn device serial number
            public byte pcdgetdevicenumber(byte[] deviceNum);
             * @return card serial number
            public byte piccrequest(byte[] serial);
             * Greturn read block 0~2
      public byte piccreadex(byte ctrlword, byte[] serial, byte
area,
                        byte key, byte[] picckey, byte[] piccdata);
             * @return change password
      public byte piccchangesinglekey(byte ctrlword, byte[] serial,
                  byte area, byte key, byte[] oldPass, byte[]
newPass);
            /**
             * @return write
      public byte piccwriteex(byte ctrlword, byte[] serial, byte
area,
```



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```
byte key, byte[] picckey, byte[] piccdata);
           /**
            * @param buffer
            * Greturn switch byte[] to string
           public String toHex(byte[] buffer);
public Result getDeviceNum(byte[] deviceNum) {
           Result rs = new Result();
           byte status;
           status = CLibrary.INSTANCE.pcdgetdevicenumber(deviceNum);
           rs.setStatus(status);
           rs.setResult(deviceNum);
           rs.set id(1);
           return rs;
     public Result getCardData(byte ctrlword, byte[] serial, byte
area,
                 byte key, byte[] picckey, byte[] piccdata) {
           Result rs = new Result();
           byte status;
           byte[] serialNum = new byte[4];
           status = CLibrary. INSTANCE.piccrequest(serialNum);
           status
                              CLibrary. INSTANCE. piccreadex (ctrlword,
serialNum, area, key,picckey, piccdata);
           rs.set id(2);
           rs.setCardSerial(serialNum);
           rs.setStatus(status);
           rs.setResult(piccdata);
           return rs;
     public Result updatePass(byte ctrlword, byte[] serial, byte
area, byte key,
                 byte[] oldPass, byte[] newPass) {
           Result rs = new Result();
           byte status;
           byte[] serialNum = new byte[4];
           status = CLibrary.INSTANCE.piccrequest(serialNum);
           status = CLibrary.INSTANCE.piccchangesinglekey(ctrlword,
serialNum, area, key, oldPass, newPass);
           rs.set id(3);
           rs.setStatus(status);
           return rs;
     public Result writeData(byte ctrlword, byte[] serial, byte
area,
                 byte key, byte[] picckey, byte[] piccdata){
           Result rs = new Result();
           byte status;
           byte[] serialNum = new byte[4];
           status = CLibrary.INSTANCE.piccrequest(serialNum);
                             CLibrary. INSTANCE. piccwriteex (ctrlword,
           status
serialNum,
```



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```
area, key, picckey, piccdata);
           rs.set id(4);
           rs.setStatus(status);
           return rs;
     public String toHex(byte[] buffer) {
           StringBuffer sb = new StringBuffer(buffer.length * 2);
           for (int i = 0; i < buffer.length; i++) {</pre>
           sb.append(Character.forDigit((buffer[i]
                                                          240)
16));
                 sb.append(Character.forDigit(buffer[i] & 15, 16));
            }
           return sb.toString();
```

#### 7.2.2 vb code

Private Declare Function piccreadex Lib "OUR MIFARE.dll" (ByVal ctrlword As Byte, ByVal serial As Long, ByVal area As Byte, ByVal key As Byte, ByVal picckey As Long, ByVal piccdata As Long) As Byte

```
Private Sub Command2 Click()
Dim status As Byte
  Dim myareano As Byte
  Dim authmode As Byte
  Dim myctrlword As Byte
  Dim mypicckey(0 To 5) As Byte
  Dim mypiccserial(0 To 3) As Byte
  Dim mypiccdata(0 To 63) As Byte
  Dim cardNumber As String
  Dim block1 As String
  Dim block2 As String
  Dim block3 As String
  Dim imageFlag As Boolean
  Dim str() As String
  Dim strLength As Integer
  Dim flag2 As Boolean
  myareano = CByte(Combo1.ListIndex)
 If (Combo2.ListIndex = 0) Then
  authmode = 1
  Else
  authmode = 0
 End If
 str = Split(Combo3.Text, " ")
 strLength = UBound(str) - LBound(str) + 1
 If (strLength = 6) Then
 For i = 0 To (strLength - 1)
```



```
If (\text{Len}(\text{str}(i)) \Leftrightarrow 2) Then
     Text5.Text = "Format error!"
     flag2 = True
     Exit For
    End If
 Next i
 Else
  flag2 = True
 Text5.Text = "error!"
 End If
If (flag2 = False) Then
For i = 0 To strLength - 1
mypicckey(i) = "\&H" \& str(i)
Next
End If
  myctrlword = BLOCK0 EN + BLOCK1 EN + BLOCK2 EN + NEEDSERIAL +
EXTERNKEY
  status = piccrequest(VarPtr(mypiccserial(0)))
status = piccreadex(myctrlword, VarPtr(mypiccserial(0)), myareano,
                                                                            authmode,
VarPtr(mypicckey(0)), VarPtr(mypiccdata(0)))
For i = 0 To 3
mark = mark + Hf(Len(Hex(mypiccserial(i))) < 2, "0" + Hex(mypiccserial(i)),
Hex(mypiccserial(i))) + " "
Next i
Select Case status
Case 0:
For i = 0 To 47
   If (i < 15) Then
   block1 = block1 + IIf(Len(Hex(mypiccdata(i))) < 2, "0" + Hex(mypiccdata(i)),
Hex(mypiccdata(i))) + " "
   ElseIf (i = 15) Then
   block1 = block1 + IIf(Len(Hex(mypiccdata(i))) < 2, "0" + Hex(mypiccdata(i)),
Hex(mypiccdata(i)))
   ElseIf (15 \le i \text{ And } i \le 31) Then
   block2 = block2 + IIf(Len(Hex(mypiccdata(i))) < 2, "0" + Hex(mypiccdata(i)),
Hex(mypiccdata(i))) + " "
   ElseIf (i = 31) Then
   block2 = block2 + IIf(Len(Hex(mypiccdata(i))) < 2, "0" + Hex(mypiccdata(i)),
Hex(mypiccdata(i)))
   ElseIf (31 \le i \text{ And } i \le 47) Then
   block3 = block3 + IIf(Len(Hex(mypiccdata(i))) < 2, "0" + Hex(mypiccdata(i)),
Hex(mypiccdata(i))) + " "
   ElseIf (i = 47) Then
   block3 = block3 + IIf(Len(Hex(mypiccdata(i))) < 2, "0" + Hex(mypiccdata(i)),
```



```
Hex(mypiccdata(i)))
   End If
Next i
imageFlag = True
Text1.Text = block1
Text2.Text = block2
Text3.Text = block3
Dim piccdata(0 To 15) As Byte
Dim block As Byte
Dim block4 As String
block = myareano * 4 + 3
    status = piccrequest(VarPtr(mypiccserial(0)))
                     piccauthkey1(VarPtr(mypiccserial(0)),
    status
                                                               block,
                                                                          authmode,
VarPtr(mypicckey(0)))
    status = piccread(block, VarPtr(piccdata(0)))
For i = 0 To 15
block4 = block4 + IIf(Len(Hex(piccdata(i))) < 2, "0" + Hex(piccdata(i)),
Hex(piccdata(i))) + " "
Next i
Text4.Text = block4
counts = counts + 1
Text5.Text = "Card S/N: " + mark + ", " + CStr(Combo1.ListIndex) + "area," + "
0~3block read successfully"
End Select
End Sub
```

#### 7.2.3 VC++ code



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