ChinaReader Reader

13.56M Reader

Manual

HTTP://WWW.NfcChinaReader.Com

1.1 1. Mifare Standard

- 1024 bytes EEPROM, divided into 16 sectors with 64 bytes on each sector
- 100,000 write endurance cycles
- 10 years data retention
- ISO 14443 A
- 13.56MHz transponder frequency
- 106 kbit baud rate
- Bit-wise anti-collision
- Up to 10 cm operating distance
- 4 byte unique serial number
- Random number generator
- 2 bytes access key per sector
- Individual access condition for each sector
- Purse functionality

1.2 2. Technical Specification

- Full Mifare functionality
- Software library for easy integration within the application
- RS232 interface
- Support Windows 7, Windows8, Windows10,ME, 2000, NT, XP
- Demo software running on PC
  VC BC VB DELPHI PB Demo C# source code.
- Power supply: 5V, 80-120mA , USB port .
- Transmission speed: Default 19200 bps
- R/W distance of up to 60mm (up to 100mm with bigger antenna size), depending on TAG
- Storage temperature: -40 ºC ~ +85 ºC
- Operating temperature: -10 ºC ~ +70 ºC
- ISP Function easy to update firmware
- Dimension : 123 * 88 * 25 (mm)

- Weight : 100 g

3. Communication setting

The communication protocol is byte oriented. Both sending and receiving bytes are in hexadecimal format. The communication parameters are as follows,

Baud rate: 19200 bps
Data: 8 bits
Stop: 1 bit
Parity: None
Flow control: None

4. Installation

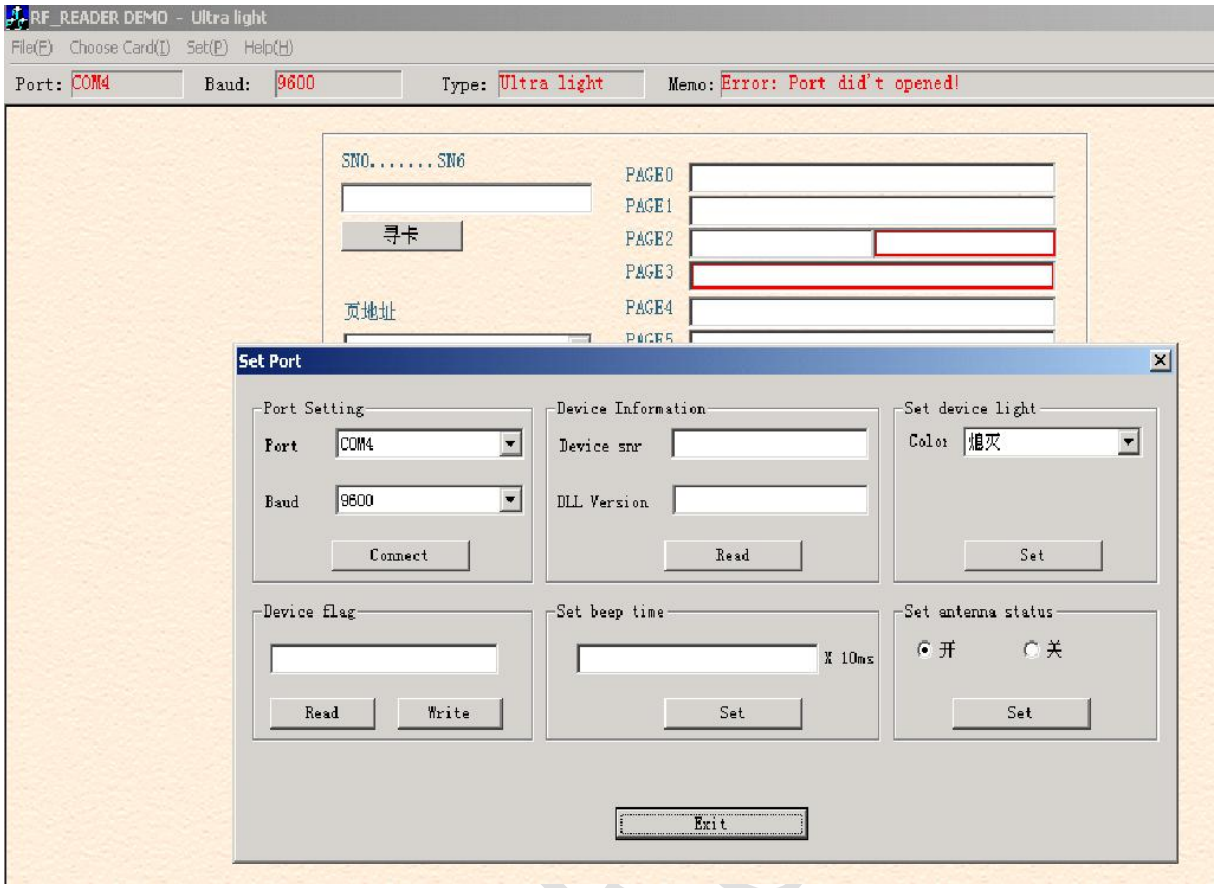
USB Virtual Rs232 reader Need install USB bridge drivers , it will be create a new Comport device, we can found Comport number in Device Management.

5. DEMO software

2.1 DEMO install

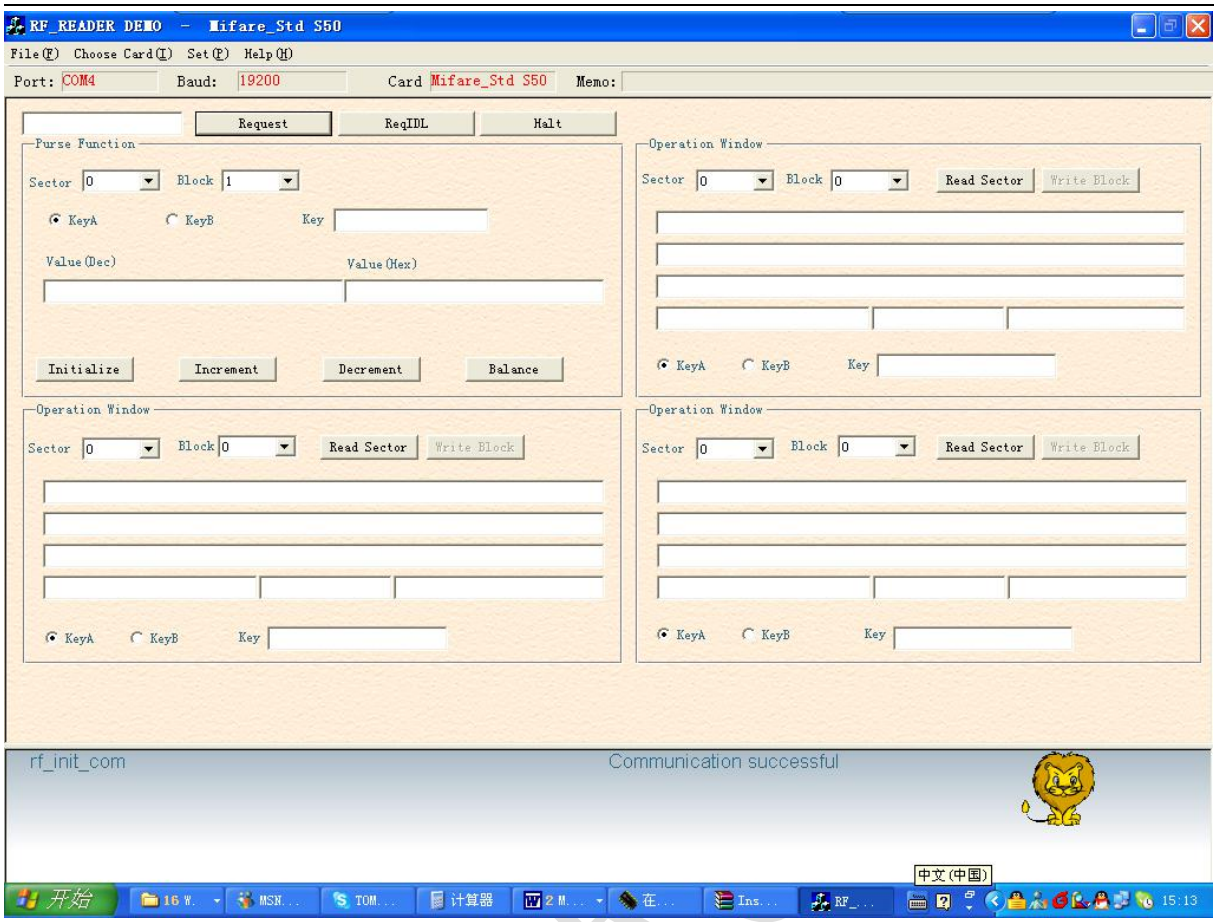
Extract InstDemo_en.EXE，execute C:\RFREADER\ICTransfer.exe

1. 2 Setting



- Select Port : Select serial COM port and setting baud Rate.
- Read : Read firmware message ,device model & version.
- Device number: Setting Device Node unmber.(no use for Desktop version)
- Buzzer : setting Buzzer beep ,delay time = setting value * 10ms.
- Led : setting LED color , Red ,Green or off
- Set Antenna status : active field or close field(left option open) .

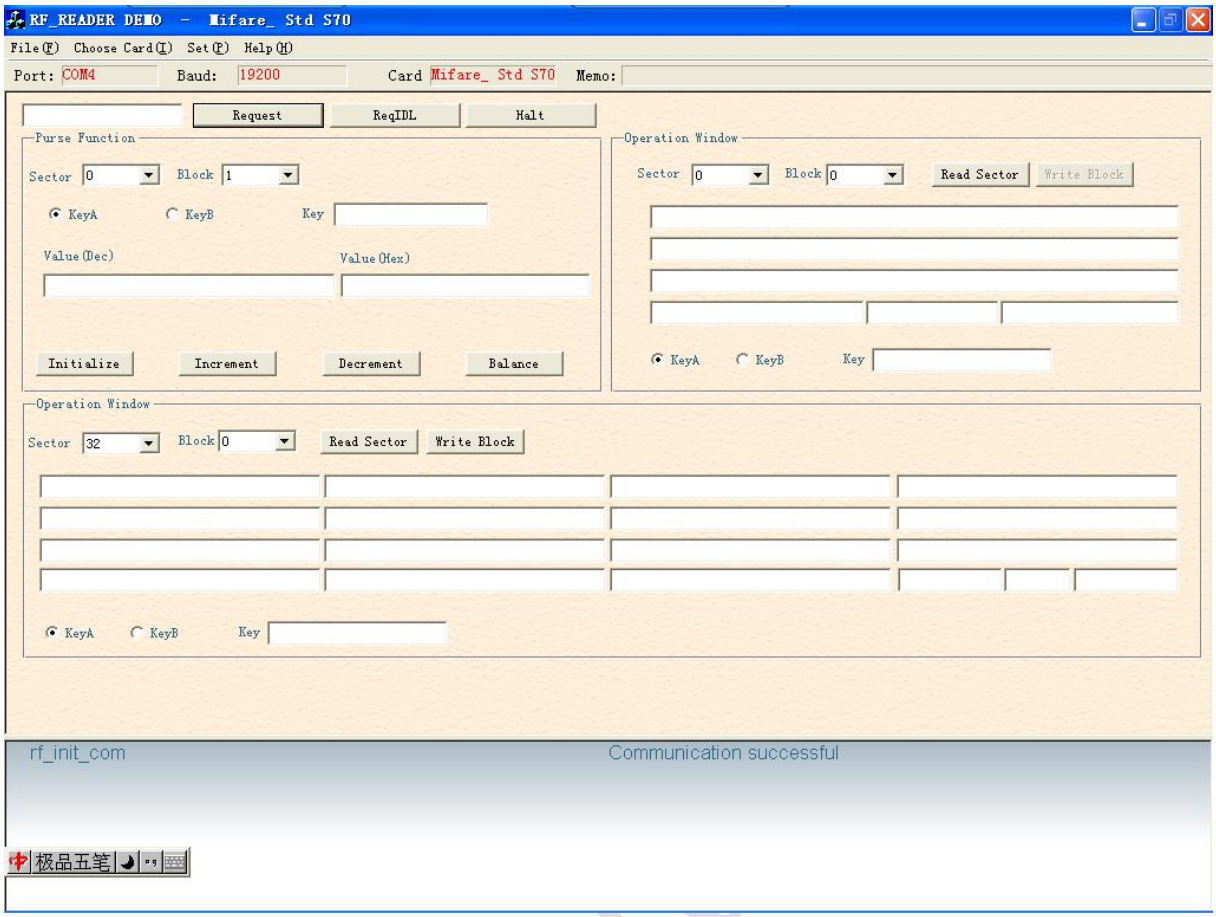
1.3 MifareOne card operation (iso 14443 type A)



- Request : Request mifare card , if succeed , serial number should show in the left text bos.
- Purse Function : Initialize \Decrease\increase\Read balance 。
  Left text box = Value in DEC , right = Value HEX 。
- Opration window: Reader Sector ,Write Block
  Select KEYA or KEYB option , Input Key in KEY TextBox then click “Reader Sector” it should reader data which Sector select ;
  Select Sector & block , input data into which block should write data , click Write Block , data should be changed in card memory.

1.4 Mifare S70 card operation (iso 14443 type A)

S70 have a mor Opration window to read/write Sector 32 to 39 . same step read/write like S50 or S70 other block.



Model	Description	
CR5011A	Mifare s50/s70,ultralight,FM1108,TYPE A	RS232
CR5011AU	Mifare s50/s70,ultralight,FM1108,TYPE A	USB virtual RS232
CR522A	Mifare s50/s70,ultralight,FM1108 ,SR176,SR4k	RS232
	Ultralight C ,Ntag213/5/6	
CR522AU	Mifare s50/s70,ultralight ,FM1108 ,SR176,SR4k	USB Vitual RS232
	Ultralight C ,Ntag213/5/6	
CR5011D	ISO15693,I.codesli, Ti2k,SRF55V01,SRF55V02,SRF55V10	RS232
CR5011DU	ISO15693,I.codesli, Ti2k,SRF55V01,SRF55V02,SRF55V10	USB virtual RS232
CR5011E	Mode A+Mode ISO15693	RS232
CR5011EU	Mode A+Mode ISO15693	USB virtual RS232
CR501AU-Desfire	MifareS50,S70,ultraLight,Desfire EV1(3DES)	USB virtral RS232
CR508AU/CR608-02AU	USB emulation Keyboard	