# 13.56M RFID Reader YW-60x Serial

# Manual

**(version 1.5)**

**ISO14443A**

- **English**

| | |
|---|---|
| **Web:** | **http://www.yoworfid.com** |
| **EMAIL:** | **coodor@126.com** |
| **Phone/Fax:** | **+086-10-59395668** |
| **Mobile:** | **+086-13671114914** |
| **Contact:** | **Mr Zhou** |

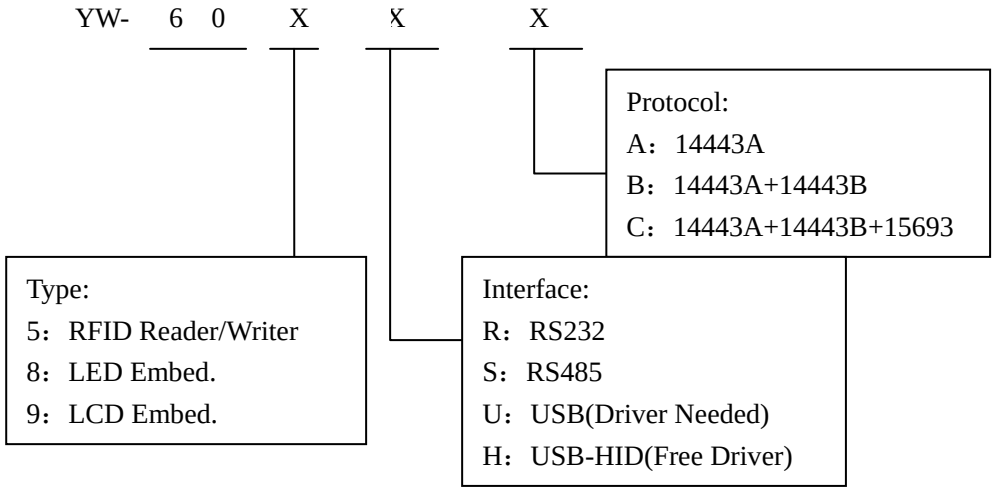
# Content

# 1 Introduction

YW-605 RFID reader/Writer is the 13.56M HF tags Reader and Writer. She Can support ISO14443A, ISO14443B and ISO15693 RFID tags.

# 2 YW-605 Serial

13.56M RFID Reader/Writer




# 3 Feature

☞Distance of read tags is 5-10cm

☞DLL API supported. VC, VB, Delphi, C++Builder, C#.net, WEB example

☞Beep and LED embed, which can be controlled by API.

# 4 Specifications

☞ Baud:19200BPS

☞ Power: DC5V ± 10%

☞ Max Con: 1.5W

☞ Temp: -30℃ ～ +70℃

☞ Humidity: 35% ～ 95%

☞ Size: 120 * 84 * 25 (mm)

☞ Weight: 100g

# 5 Program Manual

DLL API and functions

1. Get the version of DLL

prototype:int stdcall YW_GetDLLVersion(void);

Param:无

Return:version Number is success, else is fail.

2. DES

prototype:int stdcall DES(unsigned char cModel, unsigned char *pkey,
unsigned char *in, unsigned char *out);

Param:

| Param | Type | |
|---|---|---|
| cModel | unsigned char | Direction:<br>0 Encryption，1 Decryption |

| | | |
|---|---|---|
| pkey | unsigned char* | Key , 8 Bytees |
| in | unsigned char* | Data ,8 bytes |
| out | unsigned char* | Data after Des, 8bytes |

Return:0

### 3. 3DES

prototype:int stdcall DES3(unsigned char cModel, unsigned char *pKey, unsigned char *In, unsigned char *Out);

Param:

| Param | Type | |
|---|---|---|
| cModel | unsigned char | Direction:<br>0 Encryption，1 Decryption |
| pkey | unsigned char* | Key, 16Bytes |
| in | unsigned char* | Data ,8 bytes |
| out | unsigned char* | Data after Des, 8bytes |

Return:0

### 4. 3DES with vector

prototype:int stdcall DES3_CBC(unsigned char cModel, unsigned char *pKey,unsigned char *In, unsigned char *Out, unsigned char *pIV);

Param:

| Param | Type | |
|---|---|---|
| cModel | unsigned char | Direction:<br>0 Encryption，1 Decryption |
| pkey | unsigned char* | Key, 16Bytes |
| in | unsigned char* | Data ,8 bytes |
| out | unsigned char* | Data after Des, 8bytes |
| pIV | unsigned char* | Vector , 8Bytes |

Return:0

## 5. Initial Serial Port

prototype:int stdcall YW_ComInitial(int PortIndex, int Bound);

Param:

| Param | Type | |
|---|---|---|
| PortIndex | int | Port Number，1--255 |
| Bound | int | Baud,2400—115200,<br>19200default |

Return:1 success，0 fail

## 6. Free Serial port

prototype:int stdcall YW_ComFree(void);

Param:

Return:1 success，0 fail

### 7. Initial HID Port

prototype:int stdcall YW_USBHIDInitial(void);

Param:

Return:1 success, 0 fail

### 8. Free HID Port

prototype:int stdcall YW_USBHIDFree(void);

Param:

Return:1 success, 0 fail

### 9. Change the serial port baud

prototype:int stdcall YW_ComNewBound(int ReaderID ,int NewBound);

Param:

| Param | Type | |
|---|---|---|
| ReaderID | int | Reader ID, default ID=0 |
| NewBound | int | New Baud<br>0x01->9600bps<br>0x02->14400bps<br>0x03->19200bps<br>0x04->28800bps<br>0x05->38400bps<br>0x06->57600bps<br>0x07->115200bps |

Return:1 success, 0 fail

### 10. Set Reader ID

prototype:int stdcall YW_SetReaderID(int OldID, int NewID);

Param:

| Param | Type | |
|---|---|---|
| OldID | int | Old Reader ID |
| NewID | int | New Read ID |

Return:1 success, 0 fail

### 11. Get Reader ID

prototype:int stdcall YW_GetReaderID(int ReaderID);

Param:

| Param | Type | |
|---|---|---|
| ReaderID | int | ReaderID=0 |

Return:>=0 success and is Reader ID, other is fail

### 12. Get Reader Fireware version

prototype:int stdcall YW_GetReaderVersion(int ReaderID);

Param:

| Param | Type | |
|---|---|---|
| ReaderID | int | Reader ID |

Return:>=0 success and is version, other is fail

### 13. Get Reader serial No.

prototype:int stdcall YW_GetReaderSerial(int ReaderID, char *ReaderSerial);

Param:

| Param | Type | |
|---|---|---|
| ReaderID | int | Reader ID |
| ReaderSerial | Char * | Reader Serial, 8 Bytes |

Return:1 success, 0 fail

### 14. Beep control

prototype:int stdcall YW_Buzzer(int ReaderID,int Time_ON, int Time_OFF, int Cycle);

Param:

| Param | Type | |
|---|---|---|
| ReaderID | int | Reader ID |
| Time_ON | int | Beep on time, unit:100ms |
| Time_OFF | int | Beep off time, unit:100ms |
| Cycle | int | The weeks of the beep on and off |

Return:1 success, 0 fail

## 15. LED control

prototype:int stdcall YW_Led(int ReaderID,int LEDIndex, int Time_ON, int Time_OFF, int Cycle, int LedIndexOn);

Param:

| Param | Type | |
|---|---|---|
| ReaderID | int | Reader ID |
| LEDIndex | int | LED index<br>01:Read<br>02:Green<br>04:Yellow |
| Time_ON | int | LED On Time, unit:100ms |
| Time_OFF | int | LED Off Time, unit:100ms |
| Cycle | int | The weeks of the Led on and off |
| LedIndexOn | int | The index of Led on last:<br>00:all off<br>01:Read<br>02:Green<br>04:Yellow |

Return:1 success, 0 fail

### 16. Set Content of 8 LED display

prototype:int stdcall YW_LEDDisplay(int ReaderID,int Alignment,char *LEDText);

Param:

| Param | Type | |
|---|---|---|
| ReaderID | int | Reader ID |
| Alignment | int | Alignment<br>1:Left<br>2:Center<br>3:Right |
| LEDText | Char * | The string to be displayed<br>The char can be below<br>0123456789AbCdEF.- |

Return:1 success, 0 fail

### 17. Set the Status of Antenna

prototype:int stdcall YW_AntennaStatus(int ReaderID,bool Status);

Param:

| Param | Type | |
|---|---|---|
| ReaderID | int | Reader ID |
| Status | bool | True: Open RF Antenna<br>False:Close RF Antanna |

Return:1 success, 0 fail

### 18. Set Work Mode of Tags

prototype:int stdcall YW_SearchCardMode(int ReaderID,int SearchMode);

Param:

| Param | Type | |
|---|---|---|
| ReaderID | int | Reader ID |
| SearchMode | char | Tags<br>0x41-----ISO14443A<br>0x42----- ISO14443B<br>0x31----- ISO15693<br>0x53------ST Serail<br>0x52------AT88RF020 |

Return:1 success, 0 fail

## Functions of ISO14443A Tags

### 19. Request card of ISO14443A

prototype:int stdcall YW_RequestCard(int ReaderID,char RequestMode,
unsigned short *CardType);

Param:

| Param | Type | |
|---|---|---|
| ReaderID | int | Reader ID |
| RequestMode | char | Request Mode<br>0x52----- All Card<br>0x26----- Active Card |
| CardType | unsigned short * | Return Card Type<br>0x4400 = Ultralight/UltraLight C /MifarePlus(7Byte UID)<br>0x0400 = Mifare Mini/Mifare 1K (S50) /MifarePlus(4Byte UID)<br>0x0200 = Mifare_4K(S70)/ MifarePlus(4Byte UID)<br>0x0800 = Mifare_Pro<br>0x0403 = Mifare_ProX |

| | | |
|---|---|---|
| | | 0x4403 ->Mifare_DESFire<br>0x4200 -> MifarePlus(7Byte UID) |

Return:1 success, 0 fail

## 20. AntiCollide of ISO14443A Tags

prototype:int stdcall YW_AntiCollide(int ReaderID,unsigned char *LenSNO, unsigned char *SNO)

Param:

| Param | Type | |
|---|---|---|
| ReaderID | int | Reader ID |
| LenSNO | unsigned char* | Length of card No |
| SNO | unsigned char * | The card No of card requested |

Return:1 success, 0 fail

## 21. Select Card of ISO14443A

prototype:int stdcall YW_CardSelect(int ReaderID,char LenSNO, unsigned char *SNO)

Param:

| Param | Type | |
|---|---|---|
| ReaderID | int | Reader ID |
| LenSNO | unsigned char | Length of SNO |
| SNO | unsigned char * | Card No. of selected |

Return:1 success, 0 fail

## 22. AntiCollide and Select a Card of ISO14443A

prototype:int stdcall YW_AntiCollideAndSelect(int ReaderID, unsigned char MultiCardMode, unsigned char *CardMem, int *SNLen, unsigned char *SN);

Param:

| Param | Type | |
|---|---|---|
| ReaderID | int | Reader ID |
| MultiCardMode | unsigned char | Return mode of Multi Card<br>0: return error<br>1:return a Card |
| CardMem | unsigned char * | Card Memory |
| SNLen | int * | Length of SN |
| SN | unsigned char * | Card No. |

Return:1 success, 0 fail

## 23. Request AntiCollide and Select a card of ISO14443A

prototype:int stdcall YW_RequestAntiandSelect(int ReaderID,int SearchMode,int MultiCardMode,unsigned short *ATQA,unsigned char *SAK,unsigned char *LenSNO,unsigned char *SNO);

Param:

| Param | Type | |
|---|---|---|
| ReaderID | int | Reader ID |
| RequestMode | unsigned char | Request Mode<br>0x52----- All Card<br>0x26----- Active Card |
| MultiCardMode | unsigned char | Return mode of Multi Card<br>0: return error<br>1:return a Card |

| | | |
|---|---|---|
| ATQA | unsigned short * | ATQA |
| SAK | unsigned char * | SAK |
| SNLen | int * | Length of SN |
| SN | unsigned char * | Card No. selected. |

Return:1 success, 0 fail

### 24. AntiCollide Card with level of ISO14443A

prototype:int stdcall YW_AntiCollide_Level(int ReaderID,int Leveln,char *LenSNO, unsigned char *SNO);

Param:

| Param | Type | |
|---|---|---|
| ReaderID | int | Reader ID |
| Leveln | int | Level of AntiCollide, <=3 |
| LenSNO | unsigned char* | Length of SNO |
| SNO | unsigned char * | Card No. antiCollided |

Return:1 success, 0 fail

### 25. Select Card with level of ISO14443A

prototype:int stdcall YW_SelectCard_Level(int ReaderID,int Leveln,unsigned char *SAK)

Param:

| Param | Type | |
|---|---|---|
| ReaderID | int | Reader ID |
| Leveln | int | Level of Select card, <=3 |
| SAK | unsigned char* | SAK |

Return:1 success, 0 fail

## Functions of S50/S70 Tags

### 26. Download the key to flash

prototype:int stdcall YW_DownLoadKey(int ReaderID, int KeyIndex,char * Key);

Param:

| Param | Type | |
|---|---|---|
| ReaderID | int | Reader ID |
| KeyIndex | int | The index of Key, 0..31 |
| Key | char * | Key(6 Byes) |

Return:1 success, 0 fail

### 27. Authrize Key with Download Key

prototype:int stdcall YW_KeyDown_Authorization (int ReaderID, char KeyMode , int BlockAddr,int KeyIndex);

Param:

| Param | Type | |
|---|---|---|
| ReaderID | int | Reader ID |
| KeyMode | char | KeyMode=0x60 Key A<br>KeyMode=0x61 Key B |
| BlockAddr | int | Block ID of Authrized |
| KeyIndex | int | Key Index, 0..31 |

Return: 1 success, 0 fail

### 28. Authrize Key with Key

prototype:int stdcall YW_KeyAuthorization (int ReaderID,char

KeyMode, int BlockAddr, unsigned char *Key);

Param:

| Param | Type | |
|---|---|---|
| ReaderID | int | Reader ID |
| KeyMode | char | KeyMode=0x60 Key A<br>KeyMode=0x61 Key B |
| BlockAddr | int | Block ID of Authrized |
| Key | unsigned char * | Key(6 Byes) |

Return: 1 success, 0 fail

### 29. Read a Block

prototype:int stdcall YW_ReadaBlock (int ReaderID, int BlockAddr, int LenData, unsigned char *Data);

Param:

| Param | Type | |
|---|---|---|
| ReaderID | int | Reader ID |
| BlockAddr | int | Block ID |
| LenData | int | Length of data |
| Data | unsigned char * | Data of read |

Return: 1 success, 0 fail

### 30. Write a Block

prototype:int stdcall YW_WriteaBlock (int ReaderID, int BlockAddr, int LenData, unsigned char *Data);

Param:

| Param | Type | |
|---|---|---|
| ReaderID | int | Reader ID |

| | | |
|---|---|---|
| BlockAddr | int | Block ID |
| LenData | int | Length of Data |
| Data | unsigned char * | Data will be written |

Return: 1 success, 0 fail

### 31. Initial e-purse of block

prototype:int stdcall YW_Purse_Initial (int ReaderID,int BlockAddr,int IniMoney);

Param:

| Param | Type | |
|---|---|---|
| ReaderID | int | Reader ID |
| BlockAddr | int | Block ID |
| IniMoney | int | The initial value of e-purse |

Return: 1 success, 0 fail

### 32. Read value of e-purse

prototype:int stdcall YW_Purse_Read (int ReaderID,int BlockAddr,int *Money);

Param:

| Param | Type | |
|---|---|---|
| ReaderID | int | Reader ID |
| BlockAddr | int | Block ID |
| Money | Int * | The value read |

Return: 1 success, 0 fail

### 33. Decrease value of e-purse

prototype:int stdcall YW_Purse_Decrease (int ReaderID,int

BlockAddr,int Decrement);

Param:

| Param | Type | |
|---|---|---|
| ReaderID | int | Reader ID |
| BlockAddr | int | Block ID |
| Decrement | Int | The value will be decreased |

Return: 1 success, 0 fail

### 34. Increase value of e-purse

prototype:int stdcall YW_Purse_Charge (int ReaderID,int BlockAddr,int Charge);

Param:

| Param | Type | |
|---|---|---|
| ReaderID | int | Reader ID |
| BlockAddr | int | Block ID |
| Charge | Int | The value will be increased |

Return: 1 success, 0 fail

### 35. Restore

prototype:int stdcall YW_Restore (int ReaderID,int BlockAddr);

Param:

| Param | Type | |
|---|---|---|
| ReaderID | int | Reader ID |
| BlockAddr | int | Block ID |

Return: 1 success, 0 fail

### 36. Transfer

prototype:int stdcall YW_Transfer (int ReaderID,int BlockAddr);

Param:

| Param | Type | |
|---|---|---|
| ReaderID | int | Reader ID |
| BlockAddr | int | Block ID |

Return: 1 success, 0 fail

### 37. Read multi blocks

prototype:int stdcall YW_ReadM1MultiBlock(int ReaderID, int StartBlock, int BlockNums, int *LenData, char *pData);

Param:

| Param | Type | |
|---|---|---|
| ReaderID | int | Reader ID |
| StartBlock | int | Block begin |
| BlockNums | int | Number of block |
| LenData | Int* | Length of data |
| Data | unsigned char * | Data read |

Return: 1 success, 0 fail

### 38. Write Multi Blocks

prototype:int stdcall YW_WriteM1MultiBlock(int ReaderID, int StartBlock, int BlockNums, int LenData, char *pData);

Param:

| Param | Type | |
|---|---|---|
| ReaderID | int | Reader ID |
| StartBlock | int | Block begin |
| BlockNums | int | Number of block |

| | | |
|---|---|---|
| LenData | int | Length of data |
| Data | unsigned char * | Data will be written |

Return: 1 success, 0 fail

## Functions of UltrLight Tags

### 39. read Block of UltraLight Tags

prototype:int stdcall YW_UltraLightRead(int ReaderID, int BlockID, unsigned char *pData);

Param:

| Param | Type | |
|---|---|---|
| ReaderID | int | Reader ID |
| BlockID | int | Block ID |
| pData | unsigned char * | Data read(4 Bytes) |

Return: 1 success, 0 fail

### 40. Write Block of UltraLight

prototype:int stdcall YW_UltraLightWrite(int ReaderID, int BlockID, unsigned char *pData);

Param:

| Param | Type | |
|---|---|---|
| ReaderID | int | Reader ID |
| BlockID | int | Block ID |
| pData | unsigned char * | Data will be written(4 bytes) |

Return: 1 success, 0 fail

## Functions of ISO14443A CPU Tags

### 41. Reset CPU Card of ISO14443A

prototype:int stdcall YW_TypeA_Reset(int ReaderID, unsigned char Mode, unsigned char MultiMode, int *rtLen, unsigned char *pData);

Param:

| Param | Type | |
|---|---|---|
| ReaderID | int | Reader ID |
| Mode | unsigned char | Request Mode<br>0x52----- All Card<br>0x26----- Active Card |
| MultiMode | unsigned char | Return mode of Multi Card<br>0: return error<br>1:return a Card |
| rtLen | int * | Length of pData |
| pData | unsigned char * | Data of reset infomation |

Return: 1 success, 0 fail

### 42. Excute COS Command of ISO14443A CPU Card

prototype:int stdcall YW_TypeA_COS(int ReaderID, int LenCOS, unsigned char *Com_COS, int *rtLen, unsigned char *pData);

Param:

| Param | Type | |
|---|---|---|
| ReaderID | int | Reader ID |
| LenCOS | unsigned char* | Length of COS |
| Com_COS | unsigned | COS Command |

| | char* | |
|---|---|---|
| rtLen | int * | Length of pData |
| pData | unsigned char * | Data returned after excute COS command |

Return: 1 success, 0 fail

## Fucntions of Mifare Plus Tags

### 43. Write Data at Level 0 of Mifare Plus Tags

prototype:int stdcall YW_MFP_L0_WritePerso(int ReaderID, int Address, unsigned char *pData);

Param:

| Param | Type | |
|---|---|---|
| ReaderID | int | Reader ID |
| Address | unsigned char | The address of data written |
| Com_ pData | unsigned char* | Data will be written (16 bytes) |

Return: 1 success, 0 fail

### 44. CommitPerso From Level 0 to Level 3 of Mifare Plus Tags

prototype:int stdcall YW_MFP_L0_CommitPerso(int ReaderID);

Param:

| Param | Type | |
|---|---|---|
| ReaderID | int | Reader ID |

Return: 1 success, 0 fail

### 45. Switch Level from low level to high level of Mifare Plus tags

prototype:int stdcall YW_MFP_SwitchToLevel(int ReaderID, int DesLevel,unsigned char *SwitchKey);

Param:

| Param | Type | |
|---|---|---|
| ReaderID | int | Reader ID |
| DesLevel | unsigned char | Level of Destination (max id 3) |
| SwitchKey | unsigned char* | Switch key (16 bytes) |

Return: 1 success, 0 fail

### 46. Authorization at level 3 of Mifare Plus tags

prototype:int stdcall YW_MFP_L3_Authorization(int ReaderID, int KeyMode,int BlockID,unsigned char *Key);

Param:

| Param | Type | |
|---|---|---|
| ReaderID | int | Reader ID |
| KeyMode | unsigned char | KeyMode=0x60 Key A<br>KeyMode=0x61 Key B |
| BlockID | unsigned char | Block ID |
| Key | unsigned char* | Key(16 bytes) |

Return: 1 success, 0 fail

### 47. Read Data at level 3 of Mifare Plus Tags

prototype:int stdcall YW_MFP_L3_Read(int ReaderID, int StartBlock,int BlockNums,int *DataLen, unsigned char *pData);

Param:

| Param | Type | |
|---|---|---|
| ReaderID | int | Reader ID |
| StartBlock | int | Block begin |
| BlockNums | int | Number of blocks |
| DataLen | int* | Length of pData |
| pData | unsigned char* | Data read |

Return: 1 success, 0 fail

### 48. Write Data at level 3 of Mifare Plus Tags

prototype:int stdcall YW_MFP_L3_Write(int ReaderID, int StartBlock,int BlockNums, unsigned char *pData);

Param:

| Param | Type | |
|---|---|---|
| ReaderID | int | Reader ID |
| StartBlock | int | Block begin |
| BlockNums | int | Number of blocks |
| pData | unsigned char* | Data will be written , the length is 16*BlockNums |

Return: 1 success, 0 fail

### 49. Initial e-purse at level 3 of Mifare Plus tags

prototype:int stdcall YW_MFP_L3_Purse_Initial(int ReaderID, int BlockID,int InitialValue);

Param:

| Param | Type | |
|---|---|---|
| ReaderID | int | Reader ID |

| | | |
|---|---|---|
| BlockID | int | Block ID |
| InitialValue | int | Initial value of e-purse |

Return: 1 success, 0 fail

### 50. read e-purse at level 3 of Mifare Plus tags

prototype:int stdcall YW_MFP_L3_Purse_Read(int ReaderID, int BlockID,int *Value);

Param:

| Param | Type | |
|---|---|---|
| ReaderID | int | Reader ID |
| BlockID | int | Block ID |
| Value | Int * | The value read |

Return: 1 success, 0 fail

### 51. Decrease value at level 3 of Mifare Plus tags

prototype:int stdcall YW_MFP_L3_Purse_Charge(int ReaderID, int BlockID,int Value);

Param:

| Param | Type | |
|---|---|---|
| ReaderID | int | Reader ID |
| BlockID | int | Block ID |
| Value | Int | The value will be decreased |

Return: 1 success, 0 fail

### 52. Increase value at level 3 of Mifare Plus tags

prototype:int stdcall YW_MFP_L3_Purse_Decrease(int ReaderID, int BlockID,int Value);

Param:

| Param | Type | |
|---|---|---|
| ReaderID | int | Reader ID |
| BlockID | int | Block ID |
| Value | Int | The value will be increased |

Return: 1 success, 0 fail

### 53. Backup e-purse atr level 3 of Mifare Plus Tags

prototype:int stdcall YW_MFP_L3_Purse_Backup(int ReaderID, int BlockID,int DesBlockID);

Param:

| Param | Type | |
|---|---|---|
| ReaderID | int | Reader ID |
| BlockID | int | Block id backup from |
| DesBlockID | Int | Destination Block id backup to |

Return: 1 success, 0 fail

### 54. The First Authorization of Common read at level 3 of Mifare Plus Tags

prototype:int stdcall YW_MFP_Authorization_First(int ReaderID, int AESKeyAddr,unsigned char *AESKey);

Param:

| Param | Type | |
|---|---|---|
| ReaderID | int | Reader ID |
| AESKeyAddr | int | The Address of authorized |
| AESKey | unsigned char * | Key(16 bytes) |

Return: 1 success, 0 fail

### 55. The Second Authorization of Common read at level 3 of Mifare Plus Tags

prototype:int stdcall YW_MFP_Authorization_Follow(int ReaderID, int AESKeyAddr,unsigned char *AESKey);

Param:

| Param | Type | |
|---|---|---|
| ReaderID | int | Reader ID |
| AESKeyAddr | int | The Address of authorized |
| AESKey | unsigned char * | Key(16 bytes) |

Return: 1 success, 0 fail

### 56. Common read at level 3 of Mifare Plus tags

prototype:int stdcall YW_MFP_CommonRead(int ReaderID, int BlockID, int BlockNums,int *DataLen,unsigned char *pData);

Param:

| Param | Type | |
|---|---|---|
| ReaderID | int | Reader ID |
| BlockID | int | The Block Address |
| BlockNums | int | Number of blocks |
| DataLen | Int* | Length of pData |
| pData | unsigned char * | Data read |

Return: 1 success, 0 fail

### 57. Common write at level 3 of Mifare Plus tags

prototype:int stdcall YW_MFP_CommonWrite(int ReaderID, int BlockID, int BlockNums, unsigned char *pData);

Param:

| Param | Type | |
|---|---|---|
| ReaderID | int | Reader ID |
| BlockID | int | The Block Address |
| BlockNums | int | Number of blocks |
| pData | unsigned char * | Data will be written , the length is 16* BlockNums |

Return: 1 success, 0 fail

### Functions of SAM

#### 58. SAM Baud

prototype: int __stdcall YW_SAM_ResetBaud(int ReaderID, int SAMIndex, int BaudIndex);

Param:

| Param | Type | |
|---|---|---|
| ReaderID | int | Reader ID |
| SAMIndex | int | SAM Index |
| BaudIndex | int | 0x00->9600 (Default)<br>0x01->19200<br>0x02->38400<br>0x03->55800<br>0x04->57600<br>0x05->115200 |

Return: 1 success, 0 fail

#### 59. SAM Reset

prototype: int __stdcall YW_SAM_Reset(int ReaderID, int SAMIndex, int *rtLen, unsigned char *pData);

Param:

| Param | Type | |
|---|---|---|

| | | |
|---|---|---|
| ReaderID | int | Reader ID |
| SAMIndex | int | SAM Index |
| rtLen | int * | Length of PData |
| pData | unsigned char * | Data return of Sam Reset |

Return: 1 success, 0 fail

### 60. Excute COS Command of SAM

prototype: int __stdcall YW_SAM_COS(int ReaderID, int SAMIndex, int LenCOS, unsigned char *Com_COS, int *rtLen, unsigned char *pData);

Param:

| Param | Type | |
|---|---|---|
| ReaderID | int | Reader ID |
| SAMIndex | int | SAM Index |
| LenCOS | int | Length of COS Command |
| Com_COS | unsigned char * | COS Command |
| rtLen | unsigned char * | Length of pData |
| pData | unsigned char * | Data return after excution of COS Command |

Return: 1 success, 0 fail

### 61. SAM PPS Baud

prototype: int __stdcall YW_SAM_PPSBaud(int ReaderID, int SAMIndex, int BaudIndex);

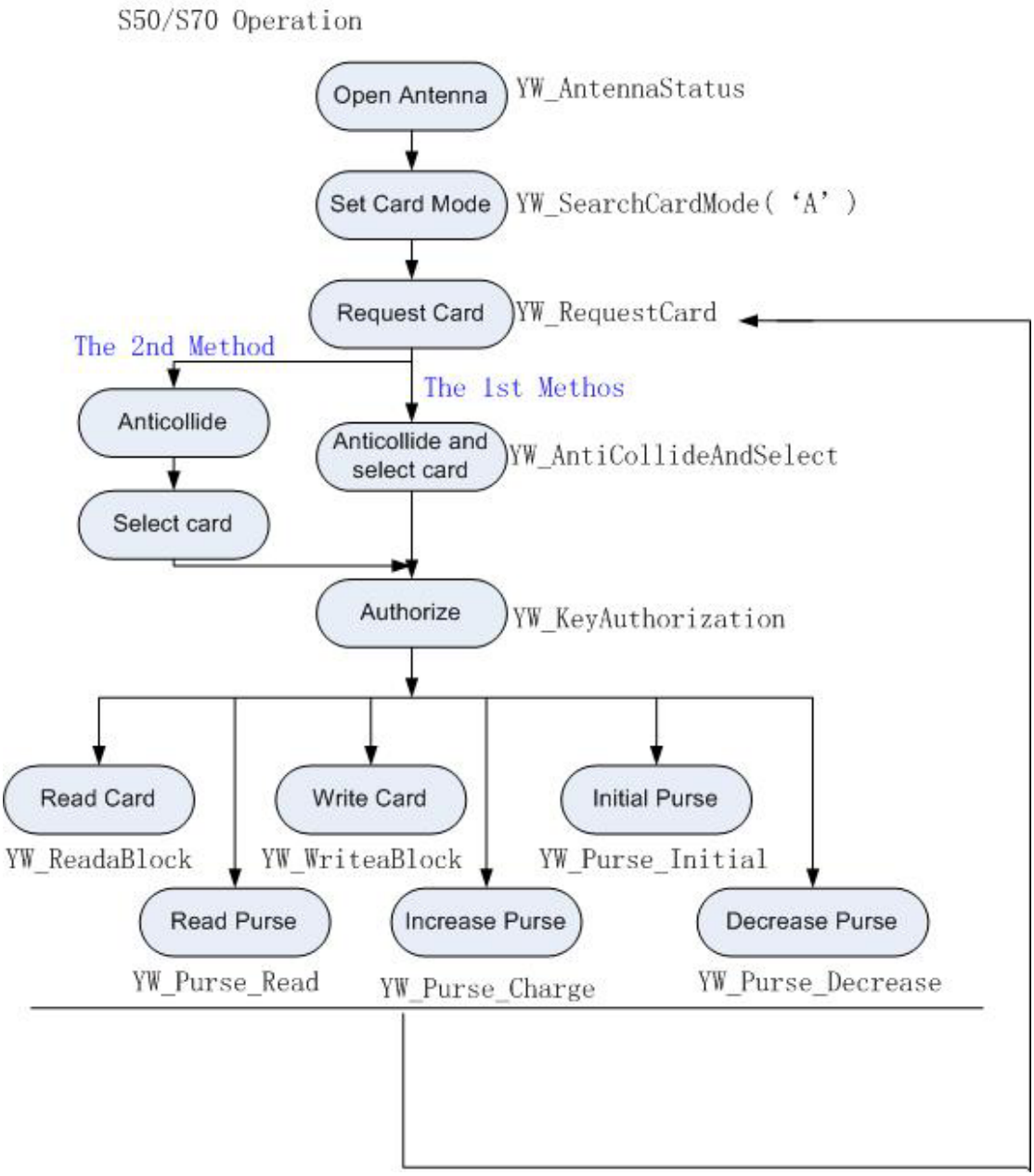
Param:

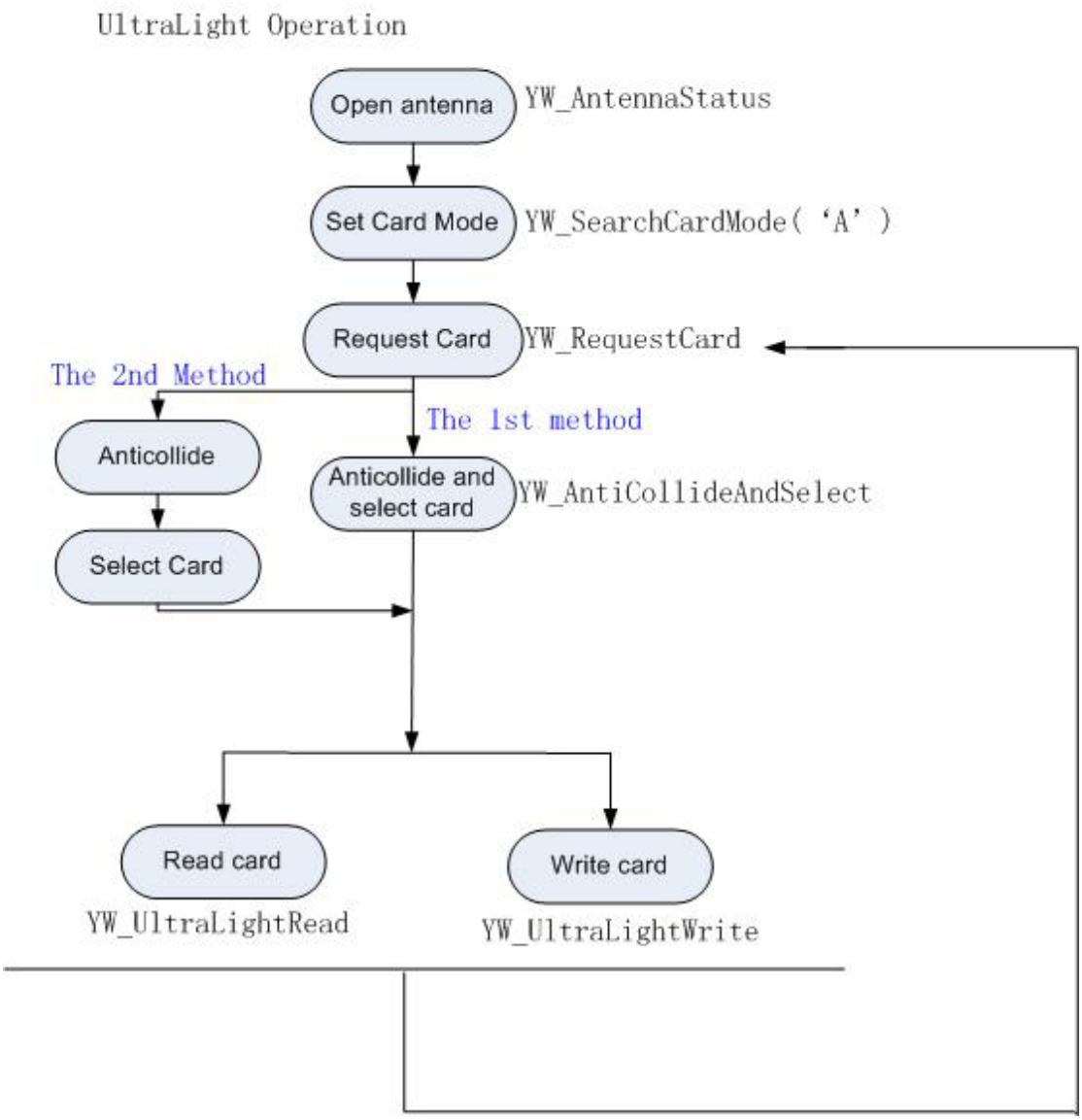
| Param | Type | |
|---|---|---|
| ReaderID | int | Reader ID |

| | | |
|---|---|---|
| SAMIndex | int | SAM Index |
| BaudIndex | int | 0x00->9600 (Default)<br>0x01->19200<br>0x02->38400<br>0x03->55800<br>0x04->57600<br>0x05->115200 |

Return: 1 success, 0 fail

# 6 Card operation of S50/S70




UltraLight Operation
Open antenna
YW_AntennaStatus
Set Card Mode
YW_SearchCardMode( 'A' )
Request Card
YW_RequestCard
The 2nd Method
The 1st method
Anticollide
Anticollide and select card
YW_AntiCollideAndSelect
Select Card
Read card
Write card
YW_UltraLightRead
YW_UltraLightWrite

# 7 Order Infomation

YOWO RFID Technology Co.,LTD

WEB：http://www.yoworfid.com

Phone/Fax：086-10-59395668

Mobile：086-13671114914

Email：coodor@126.com

MSN: coodor@126.com