DIRECTION	PARAMETER	FORMAT	DESCRIPTION	REMARK
PC ✍ DEVICE DEVICE ✍ PC	BaudRate : 9600 Parity : None Data bits : 8 bits Stop bit : 1 Flow Control : None	<STX><CMD_ID><CMD_LEN_H> <CMD_LEN_L><DATA_BLOCK> <ETX><CheckSum> DATA_BLOCKLENGTH = (CMD_LEN_H <<8)+ CMD_LEN_L	STX : Start Character (02h) CMD_ID : 00h - 7Fh Command with Data 80h - FFh Command without Data CMD_LEN : DATA_BLOCK LENGTH-1 DATA_BLOCK : DATA ETX : End Character (03h) CheckSum : XOR from STX to ETX	1. If OK : Response ACK (06h) 2. If Error : Response NAK (15h) 3. If CMD_ID is between 80h – FFh, there are no <CMD_LEN> and <DATA_BLOCK>. 4. Parity should be set to MARK if CMD_ID is 03h

DEVICE: BAR CODE DECODER,PKB,etc.

DIRECTION	PARAMETER	FORMAT	DESCRIPTION	REMARK
PC ✍ DECODER DECODER ✍ . PC	00H Send configuration data	<STX><00h><01h><255><CONFIG_DATA><ETX><CheckSum>		1.If CheckSum OK, Response ACK 2.If CheckSum ERR, Response NAK 3.If decoder cannot receive all data in 2 seconds after receiving STX, decoder will stop waiting and quit
PC ✍ DECODER DECODER ✍ PC	01H Send and save configuration data	<STX><01h><01h><255><CONFIG_DATA><ETX><CheckSum>		1.If CheckSum OK, Response ACK 2.If CheckSum ERR, Response NAK 3.If decoder cannot receive all data in 2 seconds after receiving STX, decoder will stop waiting and quit
DECODER ✍ PC	02H Send Status Bytes	<STX><02h><00h><00h><STATUS_BYTE><ETX><CheckSum>		

DIRECTION	PARAMETER	FORMAT	DESCRIPTION	REMARK
PC ✍ DEVICE	80H PC Upload	<STX><80h><ETX><CheckSum>		If CheckSum OK, response ACK, then response 01H command (decoder) If CheckSum ERR, Response NAK
PC ✍ DEVICE	81H PC Download	<STX><81h><ETX><CheckSum>		If CheckSum OK, response ACK, then wait 01H command(decoder) If CheckSum ERR, Response NAK
PC ✍ DECODER	82H Trigger	<STX><82h><ETX><CheckSum>		If CheckSum OK, response ACK If CheckSum ERR, response NAK
PC ✍ DECODER	83H Get Status Command	<STX><83h><ETX><CheckSum>		If CheckSum OK, response ACK, then response 02H command If CheckSum ERR, Response NAK

Exsample：

Trigger DECODER command: 0x02,0x82,0x03,0x83;.0x83 is checksum

PC send (0x02,0x82,0x03,0x83) to decoder with uart,The decoder decode barcode and send barcode data to pc with uart

```
void main()
{
    Unsigned char command[] = {0x02,0x82,0x03,0x83};
    Rs232init();//初始串口，
    Rs232senddata(command);//发送命令
    Rs232recdata();//接收数据
    While(1);
}
```