M302 mifare encoder communication protocol

Data stream format：

Data Strea Length (1BYTE) Command (1BYTE) Data D(1-20 BYTEs) CRC(1 BYTE)

Com port setting ：

9600,8,n,1

Remark ： in below description

-> means Host send data to module

<- means module send data to host

Function description and example

1) enquiry if module exist or not

->03 12 00 15 (Remark: 03 is length, 12 is command , 00 is data , 15 is CRC)

<-02 12 14

2) active buzzer

->02 13 15

<-02 13 15

3) Enquiry card

->03 02 00 05 Enquiry card by Idle mode (data=01, means all cards in RF area, data=00 means find Idle card)

<-03 02 01 06

4) Anticollision

->02 03 05

<-06 03 32 78 13 E8 AE (module return card serial number is：327813E8）

5) select card

->02 04 06

<-02 04 06

6) Stop card

->02 09 0B

<-02 09 0B

7) download keyA or keyB

->0A 0B 00 0F FF FF FF FF FF FF 1E download sector15 KEY

（Parameter: download mode + sector + key； mode=0, download KeyA; 01 means KeyB）

<-02 0B 0D

8) read data

->03 06 00 09 read block 00（parameter：block）

<-12 06 32 78 13 E8 B1 08 04 00 62 63 64 65 66 67 68 69 A6

9) write data

->13 07 04 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 2E

write data to block 04(block0 in sector1)（parameter：block+data）

<-02 07 09

10) verify key

->04 05 01 00 0A verify sector 01 password with default KEYA

（parameter：sector+verify mode；verify mode：00 -means default KEYA，01 means default KEYB，02 means directly KEYA， 03 means directly by KEYB）

<-02 05 07

11) block operation

->09 08 01 04 04 00 00 00 01 1B block 04 value add 0x00000001

(parameter： operation mode+source block address+destination block+ value)

<-02 08 0A