

134K-RW-USB-D1

Communication Protocol

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 : 9,600 ~ 115,200 bps / Data : 8 bits / Stop: 1 bit / Parity: None / Flow control : None

Command / Status format

	STX	ID	CMD/STATUS	LEN	DATA	BCC	ETX
Value	0X02						0X03
Length	1 Byte	1 Byte	1 Byte	1 Byte	Byte = Data length	1 Byte	1 Byte
Desc.	Start String	Reader ID 0x00-0xFF , 0-255 , default : 0x01	If send = command If receive = status	DATA Length	Data	XOR From STX to DATA	End String

Command set

Function	Send command			Reader Return		
	Command byte	Data Length	DATA	Status	Data Length	Data
Read 11784/5 Data	0XA7	0X01	Set N= 0 data = 13 Byte or <u>10 dec. ASCII data</u> 6 byte : National ID 2 byte : Country ID 0.5 Byte : DATA BLOCK 2.5 Byte : Reserved 1 Byte : Animal FLAG ----- Set N=1 : Data = 16 byte read all 128 bit data ----- Set N=2 : Data = 10 byte 8 byte data + 2 byte BCC	0X00	?	When N=0 NNNNNNCCDRRRA

Read 11784/5 Data	Read ISO11784 example		Reader return example
	02 01 A7 01 00 A5 03 Read by N = 0 mode 10 dec. ASCII data		02 01 00 0C 11 22 33 44 55 66 01 23 00 00 00 10 4A 03 National ID : 11 22 33 44 55 66 Country ID : 01 23 DATA BLOCK : 0 Reserved : 00000 Animal FLAG : 1
	02 01 A7 01 01 A4 03 Read by N = 1 mode (read all 16 byte data)		02 01 00 10 00 F4 8D 57 74 48 ED 1E 01 02 B6 FE 10 20 40 80 49 03
	02 01 A7 01 02 A7 03 Read by N = 2 mode (Read 8 byte data + 2 byte BCC)		02 01 00 0A BE 78 A2 21 DA 1E 00 80 D6 0F D1 03
Write 11784/5 Data	0xA8	0x16	UPPPP01DDDDDDDDDDDDDDDDDD U =00 – No Password U = 01 - with Password PPPP = 4 Byte password DDDDDDDDDDDDDDDDDD : 16 byte data of 4 Block
	Write 11784/5 Example		Reader return Example
02 01 A8 16 00 00 00 00 01 2F B1 EA 2E 12 B7 78 80 40 6D 7F 08 04 02 01 E7 03 without Password data : 2F B1 EA 2E 12 B7 78 80 40 6D 7F 08 04 02 01		02 01 00 00 03 03	

Write BLOCK	0xB2	0x0A	AUPPPPDDDD A: = 03 - Address 03 = 09 - Address 09 = 0A - Address 10 = 0B - Address 11 = 0C - Address 12 = 0D - Address 13 U : = 00 – No Password = 01 – with password PPPP = 4 byte password DDDD = 4 byte data	0X00	0X00	
	Write Block Example			Reader return example		
	02 01 B2 0A 09 00 00 00 00 00 11 11 11 11 B2 03 write 11 11 11 11 to BLOCK9 , No password			02 01 00 00 03 03		
Read BLOCK	0xB1	0x06	AUPPPP01 A: = 01 --- Address 01 = 03 --- Address 03 = 09 --- Address 09 = 0A --- Address 10 = 0B --- Address 11 = 0C --- Address 12 = 0D --- Address 13 * Address 01 = UID U = 00 = No Password U = 01 = with password PPPP : 4 byte password	0x00	0x04	DDDD
	Read Block Example			Reader return Example		
	02 01 B1 06 09 00 00 00 00 01 BD 03 Read BLOCK 9 data , No password			02 01 00 04 DDDD 07 03 BLOCK9 data : DDDD		