

SYRIS V8 command protocol (reader auto send mode)

Get reader's Serial Number.

Tx :

05 00 04 80 00 00 01

05 :STX

00 04 :length(4)

80 00 00 01 :Get reader's serial number command:4 bytes

Rx :

06 00 0C 00 00 00 01 06 C7 19 05 01 34 00 02

06 :STX

00 0C :length(12)

00 00 00 01 :Get reader's serial number command:4 bytes

06 C7 : Reader's model type.

19 05 01 34 :Reader's serial number(19050134):4 bytes

00 02 :RS485 ID:2 bytes

Receive card (auto send)

Rx : (No tag)

06 00 12 04 01 01 00 19 25 00 01 00 00 00 01 00 1F 00 00 CC 99

06 :STX
00 12 :length(18)
04 01 01 00 :Auto send command type:4 bytes
19 25 00 01 :Reader's serial number(19250001):4 bytes
00 00 :Reserve :2 bytes
00 01 :flag :2 bytes
00 1F :DI status: 2 bytes (1F = 0001 1111 means DI1~DI5 is open)
00 00 :DO status: 2 bytes (01 = 0000 0001 menas DO1 is trigger)
CC 99 :CRC ([CRC-16/KERMIT](#):12 04 01 01 00 19 25 00 01 00 00 00 01 00 1F 00 00)

Rx : (read tag)

06 00 1A 04 01 01 00 19 25 00 01 02 01 00 01 00 1F 00 00 46 43 A7 66 00 00 00 00 A2 CB

06 :STX
00 1A :length(26)
04 01 01 00 :Auto send command type:4 bytes
19 25 00 01 :Reader's serial number(19250001):4 bytes
02 01 :Tag type:2 bytes

0101	EM tag UID
0201	Mifare tag UID
0202	Mifare block data
0203	ISO 14443B tag UID
0204	ISO15693 tag UID
0241	UHF tag UID

00 01 :flag :2 bytes
00 1F :DI status: 2 bytes (1F = 0001 1111 means DI1~DI5 is open)
00 00 :DO status: 2 bytes (01 = 0000 0001 menas DO1 is trigger)
46 43 A7 66 00 00 00 00 : Tag's UID (0000000066A74346)
A2 CB :CRC ([CRC-16/KERMIT](#):12 04 01 01 00 19 25 00 01 00 00 00 01 00 1F 00 00)

Rx : (read tag 16 bytes ID)

06 00 22 04 01 01 00 19 25 00 01 02 41 00 00 00 1E 00 00
1F 02 02 22 22 10 40 97 02 05 21 0C 00 00 00 00 59 B8

06 :STX

00 22 :length(34)

04 01 01 00 :Auto send command type:4 bytes

19 25 00 01 :Reader's serial number(19250001):4 bytes

02 41 :Tag type:2 bytes

0101	EM tag UID
0201	Mifare tag UID
0202	Mifare block data
0203	ISO 14443B tag UID
0204	ISO15693 tag UID
0241	UHF tag UID

00 00 :flag :2 bytes

00 1E :DI status: 2 bytes

(Default is 1F(00011111)-> 1E(00011110) means DI1 and GND was Short circuit)

00 00 :DO status: 2 bytes (00 01 = 0000 0001 menas DO1 is trigger)

1F 02 02 22 22 10 40 97 02 05 21 0C 00 00 00 00 : Tag's UID

(000000000C210502974010222202021F)

59 B8 :CRC ([CRC-16/KERMIT](#):22 04 01 01 00 19 25 00 01 02 41 00 00 00 1E 00 00 1F 02 02 22

22 10 40 97 02 05 21 0C 00 00 00 00)

Set reader's DO.

ex. set DO1 ON

Tx(ON) :

05 00 0C 80 00 10 01 00 00 00 01 00 00 00 00

05 :STX
00 0C :length(12)
80 00 10 01 :Set DI/DO command:4 bytes
00 :DI Mode-set DO
00 :DI Channel:1 byte
00 01 :Set DO1 ON :2 bytes (00 02 is set DO1 ON)
00 00:Reverse:4 bytes

Rx :

06 00 0C 00 00 10 01 00 1E 00 01 00 00 00 00

06 :STX
00 0C :length(12)
00 00 10 01 :Set DI/DO command:4 bytes
00 1E :DI status :2 bytes
(Default is 1F(00011111)-> 1E(00011110) means DI1 and GND was Short circuit)
00 01 :DO1 ON:2 bytes
00 00 00 00:Reverse:4 bytes

ex. set DO1 OFF

Tx(OFF) :

05 00 0C 80 00 10 01 00 00 00 00 00 00 00 00

05 :STX
00 0C :length(12)
80 00 10 01 :Set DI/DO command:4 bytes
00 00 :DI status:2 bytes
00 00 :Set DO1 OFF :2 bytes
00 00 00 00:Reverse:4 bytes

Rx :

06 00 0C 00 00 10 01 00 1F 00 00 00 00 00 00

06 :STX
00 0C :length(12)
00 00 10 01 :Set DI/DO command:4 bytes
00 1F :DI status :2 bytes
00 00 :DO1 OFF:2 bytes
00 00 00 00:Reverse:4 bytes

Set reader's DO on time.

ex. set DO2 ON for 5 seconds

Tx(ON) :

05 00 0C 80 00 10 01 02 02 00 01 00 32 00 00

05 :STX

00 0C :length(12)

80 00 10 01 :Set DI/DO command:4 bytes

02 :DI Mode-set DO on Time

02 :DI Channel :1 byte (02 means trigger D02, 01 means trigger D01)

00 01 :Set DO ON/OFF :2 bytes (00 00 is OFF, 00 01 is ON)

00 32 :Time:2 bytes: DI Mode=02 Set DO on Time, unit is 100ms (00 32 means 5 sec)

00 00:Reverse:2 bytes

Rx :

06 00 0C 00 00 10 01 00 1F 00 01 00 00 00 00

06 :STX

00 0C :length(12)

00 00 10 01 :Set DI/DO command:4 bytes

00 1F :DI status :2 bytes

(Default is 1F(00011111)-> 1E(00011110) means DI1 and GND was Short circuit)

00 01 :DO ON:2 bytes

00 00 00 00:Reverse:4 bytes

Get reader's DI/DO status.

Tx :

05 00 04 80 00 10 01

05 :STX

00 04 :length(4)

80 00 10 01 :Set DI/DO command:4 bytes

Rx :

06 00 0C 00 00 10 01 00 1F 00 00 00 00 00 00

06 :STX

00 0C :length(12)

00 00 10 01 :DI/DO command:4 bytes

00 1F :DI status :2 bytes

(Default is 1F(00011111)-> 1E(00011110) means DI1 and GND was Short circuit)

00 00 :DO status :2 bytes

00 00 00 00:Reverse:4 bytes