

Jinmuyu Keyboard Simulation Card Reader Configuration Tool Instructions

(Revision V1.8)

Beijing Jinmuyu Electronics Co., Ltd

2025/3/17





Contents

1.	Device Identification.....	2
2.	Software connection device	2
3.	Data output configuration instructions.....	3
	3.1Output UID	3
	3.2Output block data	5
	3.3Output EMV card number.....	7
4.	Other functions.....	8
	4.1Key output rate.....	8
	4.2Custom Scripts	9
	4.3Test Command	9



1. Device Identification

The JINMUYU keyboard simulation card reader uses the USB-HID communication protocol and automatically identifies the device after connecting to the computer.

2. Software connection device

Using the MR762 as an example

2.1 Connect the card reader to the computer and open the JMY KeyBoard Reader Tool

2.2 Click the "Refresh" button to refresh, and the successful display is as shown below:

2.3 Select the MR762B port to configure

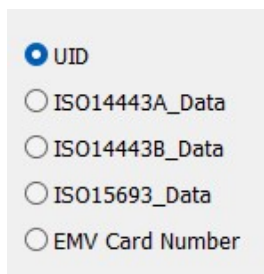
Do not select the MR762B-KeyBoard port!!!




3. Data output configuration instructions

3.1 Output UID

1) Select UID



2) Output Options



- Decimal: Set UID to decimal output
- Hexadecimal: Set UID hexadecimal output
- ASCII: Set UID to be output in ASCII code
- Order: The order of UID output (positive order, reverse order)
- Letter: The letter format of the UID hexadecimal output (uppercase, lowercase)
- StartPosition: The starting position of the UID conversion operation
- Length: The length of the UID to be converted; the default value is 0, which means the length of the UID is automatically identified.
- Bit: Bit Operations
- Key Value: Jump key configuration, after UID output, select to output different key values

Note: Active identification of card UID length requires the latest card reader firmware support.



3) Configuration

Click the Set button to complete the automatic configuration

4) Example1

MifareOneS50 UID (hex):B6F880A2

Configuration: positive sequence, decimal output, carriage return, as shown below

Output result: Open the notepad and set the cursor position to the current notepad.
Swipe the card to display the following figure

The calculator verification output result is shown in the figure



5) Example2

MifareOneS50 UID (hex):B6F880A2

Configuration: positive sequence, uppercase, hexadecimal output UID bit 4 to 28, a total of 24 bits; press Enter, as shown below

Output

☐ Decimal ☒ Hexadecimal ☐ ASCII

Order: ☒ Forward ☐ Reverse Letter: ☒ Capital ☐ Small

StartPosition: 4 ☒ Bit Length: 24 Key Value: Enter

Set

Output result: Open the notepad and set the cursor position to the current notepad. Swipe the card to display the following figure

6F880A

3.2Output block data

Take ISO14443A MifareOne S50 as an example

1) Select ISO14443A_Data

Select CardType as MifareOne and configure the parameters for reading MifareOne cards

Configure

Keys time interval(Unit:100uS) 16 SetTime

ISO14443A

CardType: ☒ MifareOne ☐ Ultralight

MifareOne

KeyNum: KeyA KeyData: FFFFFFFFFF

StartBlock: 0 BlockNum: 1 ☒ Skip key block

Ultralight

StartBlock: 0 BlockNum: 1

ISO14443B

CardType: ☐ SRDX

SRDX

StartBlock: 0 BlockNum: 1

ISO15693

StartBlock: 0 BlockNum: 1

- KeyNum: Set the authentication key number (KeyA, KeyB)
- KeyData: Set the authentication key value
- StartBlock: Set the starting block to read
- BlockNum: Set the number of blocks to read
- SkipKeyBlock: Intelligently skip key block area

Note: BlockNum does not include the skipped key block area



2) Output Options

Output

☒ Decimal
☐ Hexadecimal
☐ ASCII

Order: ☒ Forward ☐ Reverse
Letter: ☐ Capital ☐ Small

StartPosition:
Length:
Key Value:

- Decimal: Data decimal output
- Hexadecimal: Data hexadecimal output
- ASCII: Data output in ASCII code
- Order: The order of data output (positive order, reverse order)
- StartPosition: Read data to start conversion output starting position
- Length: The length of the data to be converted; the default value of 0 indicates the total length of the data to be read
- Key Value: Jump key configuration, after data output, select to output different key values

Note: Order is output in reverse order, and cross-block operations are not supported

3) Configuration

Click the Set button to complete the automatic configuration

4) Example

MifareOneS50 UID (hex):B6F880A2

Block 4 data: 31 32 33 34 35 36 77 88 11 22 33 44 55 66 77 88 34

Card reader configuration:

Key type: KeyA, Key value (hex): 123456ABCDEF

Start reading from block 4, read 1 block, and skip the key block

Output configuration 1: Output the first 6 bytes of the 4th block in ASCII sequence and press Enter.



Configure

Keys time interval(Unit:100uS) 16 SetTime

ISO14443A

CardType

☐ UID

☒ ISO14443A_Data

☐ ISO14443B_Data

☐ ISO15693_Data

☐ EMV Card Number

MifareOne

KeyNum: KeyA KeyData: 123456ABCDEF

StartBlock: 4 BlockNum: 1 ☒ Skip key block

Ultralight

StartBlock: 0 BlockNum: 1

ISO14443B

CardType

☐ SRDX

SRDX

StartBlock: 0 BlockNum: 1

ISO15693

StartBlock: 0 BlockNum: 1

Output

☐ Decimal

☐ Hexadecimal

☒ ASCII

Order

☒ Forward

☐ Reverse

Letter

☒ Capital

☐ Small

StartPosition: 0 ☐ Bit

Length: 6

Key Value: Enter

Set

Output result: Open the notepad and set the cursor position to the current notepad.
Swipe the card to display the following figure.

123456
|

Output configuration 2: Output the first 6 bytes of the 4th block in reverse ASCII order
and output a carriage return at the same time

Output

☐ Decimal

☐ Hexadecimal

☒ ASCII

Order

☐ Forward

☒ Reverse

Letter

☒ Capital

☐ Small

StartPosition: 0

Length: 6

Key Value: Enter

Set

Output result: Open the notepad and set the cursor position to the current notepad.
Swipe the card to display the following figure.

654321
|

3.3Output EMV card number

1) Select EMV Card Number



☐ UID
☐ ISO14443A_Data
☐ ISO14443B_Data
☐ ISO15693_Data
☒ EMV Card Number

2) Output options

Output

☐ Decimal
☐ Hexadecimal
☒ ASCII

Order
☒ Forward
☐ Reverse

Letter
☒ Capital
☐ Small

StartPosition: 0 ☐ Bit
Length: 0
Key Value: NONE

- ASCII: Set CardNumber to output in ASCII code
- Order: The order of CardNumber output (positive order, reverse order)
- StartPosition: The starting position of CardNumber conversion operation
- Length: The length to be converted. The default value 0 indicates intelligent recognition of length.
- Key Value: Jump key configuration, select different key values to output.

3) Configuration

Click the Set button to complete the automatic configuration

Output

☐ Decimal
☐ Hexadecimal
☒ ASCII

Order
☒ Forward
☐ Reverse

Letter
☒ Capital
☐ Small

StartPosition: 0 ☐ Bit
Length: 0
Key Value: Enter

Set

4. Other functions

4.1Key output rate

Keys time interval(Unit:100uS) 10 SetTime

The output time interval between two key values can be flexibly adjusted, in units of 100uS.

Range: 0~255



4.2 Custom Scripts

If the automatic configuration function cannot meet the actual needs of the customer, you can edit a custom script and download it to the card reader. For script writing, please refer to the “JINMUYU USB HID Keyboard Simulator IC Card Reader General Technical Manual”

The 'Customized Scripts' window features a title bar with the text 'Customized Scripts'. Below the title bar, there is a radio button labeled 'Scripts' which is currently selected. To the right of the radio button is a text input field. Further to the right are two buttons: 'OpenConfig' and 'LoadConfig'.

4.3 Test Command

This function can send a single command to the card reader. For detailed instructions, please refer to the “JINMUYU USB HID Keyboard Simulator IC Card Reader General Technical Manual”

The 'Test Command' window has a title bar with the text 'Test Command'. It contains several input fields and buttons. The 'Header' field is pre-filled with '000500'. The 'CMD' field is pre-filled with 'E0 03'. To the right of the 'CMD' field is a 'Xor' field with 'E6' selected. Below these fields is a 'Response' field. To the right of the 'Response' field is a 'Send' button.