

MIFARE & ISO14443A & ISO14443B KEYBOARD SIMULATOR IC CARD READER

# MR7631 Series USB HID Keyboard Simulator IC Card Reader

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User's Manual

(Revision 4.01)

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Please read this manual carefully before using. If any problem, please mail to: [jinmuyu@vip.sina.com](mailto:jinmuyu@vip.sina.com)



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# 1 Overview

MR7631 series desktop contactless IC card reader is based on NXP series RF chip with high performance MCU. The communication is according to USB HID standard. There are 2 USB devices to implement the functions. One is USB keyboard for DATA output. The other is USB compliant device for DATA output format configuration and ISP function. The DATA output format is very flexible. The reader could output any sector any byte in any format. TransConfig, the configuration tool is very easy to use to load the configuration file to reader. The configuration file is easy to build. Please to read “JINMUYU USB HID Keyboard Simulator IC Card Reader General Technical Manual.pdf” to build the configuration files. And we will help you to make the configuration file.



The reader supports the IC card according to ISO14443A and ISO14443B standard.

## 2 Main Characteristics

- **USB HID keyboard simulator data output**
- **Data output format is very flexible**
- **Cheap**

## 3 Technical parameters

- **PCD:** MF RC522, MF RC523
- **Working frequency:** 13.56MHz
- **RF protocol:** ISO14443A, ISO14443B
- **Operating distance:** 70mm (MIFARE One, typical)
- **Display:** 1 tricolor LED
- **Buzzer:** Build in
- **Interface:** dual port, USB HID keyboard simulator and USB HID compliant device
- **Power supply:** DC5V  $\pm$  10%
- **Power consumption:** 0.9W
- **Dimension:** 110mm \* 80mm \* 26mm
- **Weight:** About 100g



- Operating temperature: -25 ~ +85°C
- Storage temperature: -40 ~ +125°C
- PC software: no need, direct output to editor
- ISP: Support
- RoHS: Compliant

## 4 Cards supported

	MR7631UA	MR7631UC
PCD	MF RC522	MF RC523
MIFARE 1K	●	●
MIFARE 4K	●	●
MIFARE Mini	●	●
MIFARE Ultra Light	●	●
MIFARE Ultra Light EV1	●	●
MIFARE Plus Level 1	●	●
T=CL TYPE A	●	●
T=CL TYPE B		●



## 5 Model of the reader

### 5.1 Model format

This is the model format of Master Reader series contactless card reader/writer:

1	2	3	4	5	6
MR	XXX	X	X	X	-XXX

1: Product code; 2: Device class; 3: Communication port; 4: Supported card type;  
5: Color of enclosure; 6: ODM code;

### 5.2 Model description

#### 5.2.1 Product code

The code of Master Reader series contactless card reader is: MR

#### 5.2.2 Device class

- 600: Desktop readers with 8 digits LED displayer, support 1 SAM slot.
- 701: Desktop readers, support 2 SAM slots.
- 730: Desktop readers, Ethernet interface, support 1 SAM slot.
- 731: Desktop readers, Ethernet interface, support 2 SAM slots. MR730 Enhanced with more advance.
- 762x: Desktop read only programmable reader. Keyboard simulator. Support ISO14443A/B, ISO15693.
- 763x: Desktop read only programmable reader. Keyboard simulator. Support ISO14443A, ISO14443B.
- 780: Desktop reader, MR701 enhanced model. Support 3 SAM slots.
- 7801: Desktop reader, MR780 in new style case. Support 4 SAM slots.
- 790: Desktop reader with compatible PC/SC interface. Support 3 SAM slots.
- 7901: Desktop reader with compatible PC/SC interface. MR790 in new style case. Support 4 SAM slots.
- 791: Desktop reader with standard PC/SC interface. Support 3 SAM slots.
- 7911: Desktop reader with standard PC/SC interface. MR791 in new style case. Support 4 SAM slots.
- 800: Desktop reader with 128\*64 dots LCD displayer. Compatible PC/SC interface, support 2 SAM slots.
- 801: Desktop reader with 128\*64 dots LCD displayer. Standard PC/SC interface, support 2 SAM slots.
- 810: Desktop reader with compatible PC/SC interface. Support 2 SAM slots. Based on ARM7 processor.
- 811: Desktop reader with standard PC/SC interface. Support 2 SAM slots. Based on ARM7 processor.



### 5.2.3 Communication port

S: RS232C interface, power supply from USB

R: RS485 interface, power supply by wire connection

U: USB interface

E: Ethernet interface, power supply by AC adaptor

### 5.2.4 Supported card type

A: ISO14443A, MIFARE classic and ISO7816

C: ISO14443A, ISO14443B, MIFARE classic and ISO7816

G: ISO15693 and ISO7816

H: ISO14443A, ISO14443B, ISO15693, MIFARE classic and ISO7816

### 5.2.5 Color of enclosure

W: white (if blank, default white)

B: black

### 5.2.6 ODM code

This part is for ODM customer only. It is 3 digital codes like 001, 002...

## 5.3 Model available

The models below are available for supply:

- MR7631UA
- MR7631UC

## 6 USB Driver installation

The driver installation is simple. Just plug the USB header into the PC, the OS will automatic install the drivers.

## 7 About PC Software

The PC software is TransConfig. It is use for load configuration file to the reader. Please download TransConfig from our website: <http://www.jinmuyu.com>, or contact us with [jinmuyu@vip.sina.com](mailto:jinmuyu@vip.sina.com).