

MR600 Series User's Manual

(Revision 3.31)

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



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1 Overview

MR600 series desktop contactless IC card reader/writer is based on NXP series RF chip. There are 8 digital numbers on the LED display on the reader. The reader fully supports the IC card according to ISO14443 and ISO15693 standard, especially completely support ISO14443-4 contactless CPU card.

The reader builds in SAM slot, and supports SAM according to ISO7816 (9600bps & 38400bps).



2 Technical parameters

- PCD: MF RC500; MF RC531; CL RC632; SL RC400
- Working frequency: 13.56MHz
- RF Protocol: ISO14443A, ISO14443B, ISO15693
- Operating distance: 80mm (Mifare One, typical)
- SAM slot: 1 slot, support ISO7816 (T=0, 9600bps&38400bps)
- Display: 8 digital numbers display
- Buzzer: Build in
- Interface: RS232C or USB (build in CP2102 USB to RS232 bridge)
- Baud rate: 9600~115200bps
- Power supply: DC5V \pm 10%
- Power consumption: 1.5W
- Dimension: 141mm * 100mm * 31mm
- Weight: About 150g
- Operating temperature: -25 ~ +85 $^{\circ}$ C
- Storage temperature: -40 ~ +125 $^{\circ}$ C
- PC software: TransWin, download from <http://www.jinmyu.com>
- SDK: Base on Windows, free
- Sample code: VC, VB, C++ Builder, DELPHI, Power Builder
- ISP: Support
- RoHS: Compliant



3 Cards supported

3.1 ISO14443A

- Mifare One S50
- Mifare One S70
- Mifare One Mini
- Mifare Ultra Light
- Desfire
- ISO14443-4 (T=CL) TYPE A dual interface CPU Card

3.2 ISO14443B

- AT88RF020
- AT88RF080
- SR176
- SRI512
- SRI1K
- SRI2K
- SRI4K
- SRIX4K
- ISO14443-4 (T=CL) TYPE B dual interface CPU Card

3.3 ISO15693

- I.CODE SLI
- Tag-it HF-I
- Other tags compliant with ISO15693

3.4 ISO7816

- Low-speed SAM Card (9600bps)
- High speed SAM Card (38400bps)



4 Model of the reader

4.1 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;

4.2 Model description

4.2.1 Product code

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

4.2.2 Device class

600: Desktop reader/writer with LED digital display

701: Desktop reader/writer

730: Ethernet desktop reader/writer

760: HID keyboard simulator interface desktop reader, support ISO15693 only

761: HID keyboard simulator interface desktop reader, support ISO14443A and ISO14443B

780: High performance desktop reader/writer, support ISO7816 fully

790: USB PC/SC interface desktop reader/writer

800: High performance USB PC/SC interface desktop reader/writer with LCD display

810: High performance USB PC/SC interface desktop reader/writer

4.2.3 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



4.2.4 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

4.2.5 Color of enclosure

W: white (if blank, default white)

B: black

4.2.6 ODM code

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

4.3 Model available

The models below are available for supply:

- MR600SA MR600UA
- MR600SC MR600UC
- MR600SG MR600UG
- MR600SH MR600UH

5 Driver installation

The driver of USB reader installation is simple. There are 2 steps:

1. Run the driver installation program on the CD-ROM:

E:\English\RFID Desktop Readers\Master Reader Classic\
CP210x Driver\Windows_XP_S2K3_Vista_7\CP210xVCPIInstaller.exe

2. Insert USB plug of the reader to the PC. The driver installation will automatic process.

6 About PC Software and API

The PC software for MR600 is TransWin. This is software based on API of the reader. The software supports most function of IC cards. Please download the operation manual and API manual from our website: <http://www.jinmuyu.com>, or contact us with service@jinmuyu.com.