QU-DR-791 Series Desktop IC Card Reader

User's Manual

(Revision 4.03)

Quick-Ohm Küpper & Co. GmbH

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Please read this manual carefully before using. If any problem, please mail to:kontakt@quio-rfid.de

Contents

1   Overview

QU-DR-791series desktop contactless IC card reader
is based on NXP series RF chip with high performance MCU. The communication is according to USB PC/SC standard. The reader fully supports the IC card according to ISO14443 and ISO15693 standard, especially completely supports ISO14443-4 contactless CPU card. The reader builds in 3 SAM slots, and fully supports SAM according to ISO7816.

2   Main Characteristics

True USB PC/SC interface, compatible with many PC/SC readers in the market
High speed MCU and advantage firmware provide very high card process speed
RF interface and protocol process with EMV2010 LEVEL 1 certification ability

3   Technical parameters

PCD:	MF RC531
Working frequency:	13.56MHz
RF protocol:	ISO14443A, ISO14443B
Operating distance:	100mm (MIFARE One, typical)
SAM slots:	3 slots, support ISO7816 (T=0 & T=1, support PPS, Max. 115200bps)
Display:	1 tricolor LED
Buzzer:	Build in
Interface:	USB PC/SC standard
Power supply:	DC5V ± 10%
Power consumption:	0.9W
Dimension:	123mm * 88mm * 25mm
Weight:	About 100g
Operating temperature:	-25 ~ +85°C
Storage temperature:	-40 ~ +125°C
PC software:	PCSC Communication Tool, download from www.quio-rfid.de
SDK:	Base on Windows, free
Sample code:	VC, free
ISP:	Support
RoHS:	Compliant

4 Cards supported

	MR791UC
PCD	MF RC531
MIFARE 1K	●
MIFARE 4K	●
MIFARE Mini	●
MIFARE Ultra Light	●
MIFARE Ultra Light EV1	●
MIFARE Ultra Light C	●
MIFARE DES fire	●
MIFARE DES fire EV1	●
MIFARE Plus all Levels	●
T=CL TYPE A	●
T=CL TYPE B	●
SAM SLOTS	3
ISO7816 PPS	●
ISO7816 T=0	●
ISO7816 T=1	●

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. QU-DR-791in 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:

    MR791UC

6 USB Driver installation

The driver installation of QU-DR-791is simple. There are 2 ways:

1. Plug the USB header to PC and let Windows find the driver online.
2. The CCID driver is locate on:

    CD-ROM:\USB Driver\CCID Driver

    Plug the USB header to PC and point the driver path to Windows.

7   About PC Software and API

The PC software is PCSC Communication Tool. This is software based on PC/SC API. The software supports most function of IC cards. Please download the operation manual and API manual from our website: www.quio-rfid.de, or contact us with kontakt@quio-rfid.de.