Specification Sheet

File No.：   202011060005

Customer name：   ZKTECO

P/N：   X00603040

Product name：   CR70RW

Supplier：   Shenzhen Radio Co., LTD

Specification: ID/IC/CPU/NFC/SFZ desktop card reader USB driverless 110mm*80mm*18mm cable length 1500mm R/W print RFID Desk Reader print ZKTeco

Supplier Confirmation	Compilation	Software Engineer	Hardware Engineer	Test Engineer	Proejct Mananger

Confirm Confirmation	Chief Tester		Verification		Approval	

ID/IC/CPU/NFC/SFZ Desktop Card Reader/Writer

1. Overview and Application Areas

1.1 Basic Characteristics

CR70RW is a USB driverless ID/IC/CPU/NFC/SFZ desktop card reader/writer supporting 125KHz and 13.56MHz dual band, which is a contactless smart card reader/writer developed based on ISO14443A ISO14443B international standard protocol. Adopting USB interface power supply, plug and play, no driver required, simple operation, stable card reading and writing function.

1.2 Application fields

Widely used in access control, time and attendance, charging, anti-theft, patrol and other radio frequency identification applications.

2. Feature

1. USB interface power supply, plug and play, no driver required.
2. Card number output format can be set independently through the software.
3. Can send ID/IC/CPU/NFC/ID card at the same time.
4. Support IC card/CPU card encryption, at the same time can send configuration card and read configuration card.

3. Technical Parameters

3.1.Basic technical parameters

Size	110*80*18mm （±3mm）Cable length 1500mm
Electrical parameters	Working Voltage：DC 5V（±4%） Standby Current：less than 120mA Swipe Current：less t han 200mA
Environmental requirements	Temperature and humidity：-20℃—60℃，10%-90%(+ 25℃) Storage Temperature & Humidity：-20℃—80℃，10%-90%(+ 25℃)
Working frequency	13.56MHz/125KHz
Protocol	ISO14443A & ISO14443B
Card support	S50 / S70 / CPU card / Desfire Ev1 / SFZ / Ntag213 / S50 Keyfob / ID thin card / ID thick card / ID Keychain
Communication	USB output
Firmware version	CR70RW_20201125_V1.01
Hardware version	D310EM_V1.0_20200924

3.2.Swipe card distance

No.	Card type	Rand range	Remark
1	S50 / S70 card	0~L（L≥3.5CM）	
2	CPU card	0~L（L≥3.5CM）	
3	Desfire Ev1 card	0~L（L≥3CM）	Remarks: 0~L(L≥Lcm)(The actual distance is related to the card used and the application environment)
4	SFZ	0~L（L≥2CM）	
5	Ntag213 card	0~L（L≥3CM）	
6	S50 keyfob	0~L（L≥2CM）	
7	ID thin card	0~L（L≥1.5CM）	
8	ID thick card	0~L（L≥1.5CM）	
9	ID key chain	0~L（L≥0.8CM）	
10	SFZ card	0~L（L≥2CM）	

4. Picture of the real thing

5. Product factory packing information

Type	Size	Weight g (including reader & package material)（±10g）	Material including
Packing box	140*88*40MM	222g	Plastic bag 1PCS Connection line 1PCS Card Reader/writer 1PCS CPU card 1PCS
Outer box	579*465*220MM	50*222+830=11930g	50PCS/box

Note: The outer box is based on the number of orders to choose to use a different carton, so there may be some difference with the physical delivery, the most commonly used for the 579*465*220MM of the outer box.

Declaration of Environmental Conformity

This enterprise makes the following solemn declaration on the products provided:

1. This product complies with GB/T 26572-2011 "Limited Requirements for Restricted Substances in Electrical and Electronic Products" and the exceptions of restricted substances stipulated by the state.

2. This product complies with GB/T 26125-2011 "Testing Methods for Six Restricted Substances in Electrical and Electronic Products".

3.This product complies with SJ/T 11364-2014 "Requirements for Labeling of Restricted Use of Hazardous Substances in Electrical and Electronic Products".

4.Product Description:

Item No.	P/N	Model No.	Remark
1		CR70RW	

Shenzhen Radio Technology., LTD

2023-10-08

Shenzhen Radio Technology Co.,Ltd

FCC WARNING

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception,

which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

-- Reorient or relocate the receiving antenna.

-- Increase the separation between the equipment and receiver.

-- Connect the equipment into an outlet on a circuit different from that to which the
   receiver is connected.

-- Consult the dealer or an experienced radio/TV technician for help.

To maintain compliance with FCC's RF Exposure guidelines, This equipment should be installed and operated with minimum 20cm distance between the radiator and your body: Use only the supplied antenna.