

RD002 QR Code RFID Card Reader



Summary

RD002 QR code RFID card reader is a new generation of intelligent card reader developed by our company the appearance of the product adopts the industrial standard 86 box fast scanning speed, high recognition rates, strong compatibility can be connected to any controller supporting Wiegand input, suitable for various application scenarios. It is widely used in the management of business office visitors, scenic visitors management, community visitors, administrative hall access control management, turnstiles, access control, guest machine, smart home.











It is a perfect upgrade for the traditional IC card system in all industries.

Technical parameter


Parameter	
Type of Card Reading	EM card or Mifare card
Bar code Type	1D/ 2D Code
Communication Mode	Wiegand / USB / RS232 / RS485
Decoding Mode	Image decoding
Read Direction (bar code)	Inclined 45° with lens as the center point
Scanning Code Characteristics	Automatic induction, beep prompt
Working Voltage	8-12V
Working Current	800mA
Read the Card Distance (card)	3~6CM
Reading Speed	< 200ms
Scanning Distance(2D code)	0-20cm
Material Quality	PC and tempered glass (scanning window)
Working Humidity	10%~90%
Working Temperature	-20℃~70℃
Size	86mm×86mm×42 mm
Weight	150g
Operating System	Windows XP/7/8/100), Linux
Indicator Light	Red working light, green feedback light, emerald green network light

The wiring instructions

1. Terminal port wiring

									
485-B	485-A	232-RX	232-TX	WG-D1	WG-D0	TTL-RX	TTL-TX	GND	12V



2. mini-USB (): suitable for USB virtual keyboard and USB virtual serial port mode communication.

Note: Wiegand outputs the QR code data:







1) Wiegand 256 format is to send all QR code data in 16 decimal format. For example, if the ASCII form of QR code is 01234 ABCDE, then Wiegand 256 is sent to 0x30 0x31 0x32 0x33 0x34 0x41 0x42 0x43 0x44 0x45.

2) Wiegand 26 / 34 format is the last 10-digit ASCII number (0~9) of the QR code data (filter out the intermediate non-number data, Less than 10 high positions to fill 0), Convert to 4 bytes in 16 decimal systems, Wiegand 26 was sent after 3 bytes, Wiegand 34 sends 4 bytes, For example, the ASCII form of the QR code is 1234A1B2C3D45678, Taking the last 10 digits to get 3412345678, Convert 4 bytes 16 ppx to CB64434E, Then Wiegand 26 sends 0x64 0x43 0x4E, Wiegand 34 was sent to 0xCB 0x64 0x43 0x4E.

3) In Wiegand 26 / 34 format, if the QR code data does not contain ASCII numbers, there is no Wiegand output.

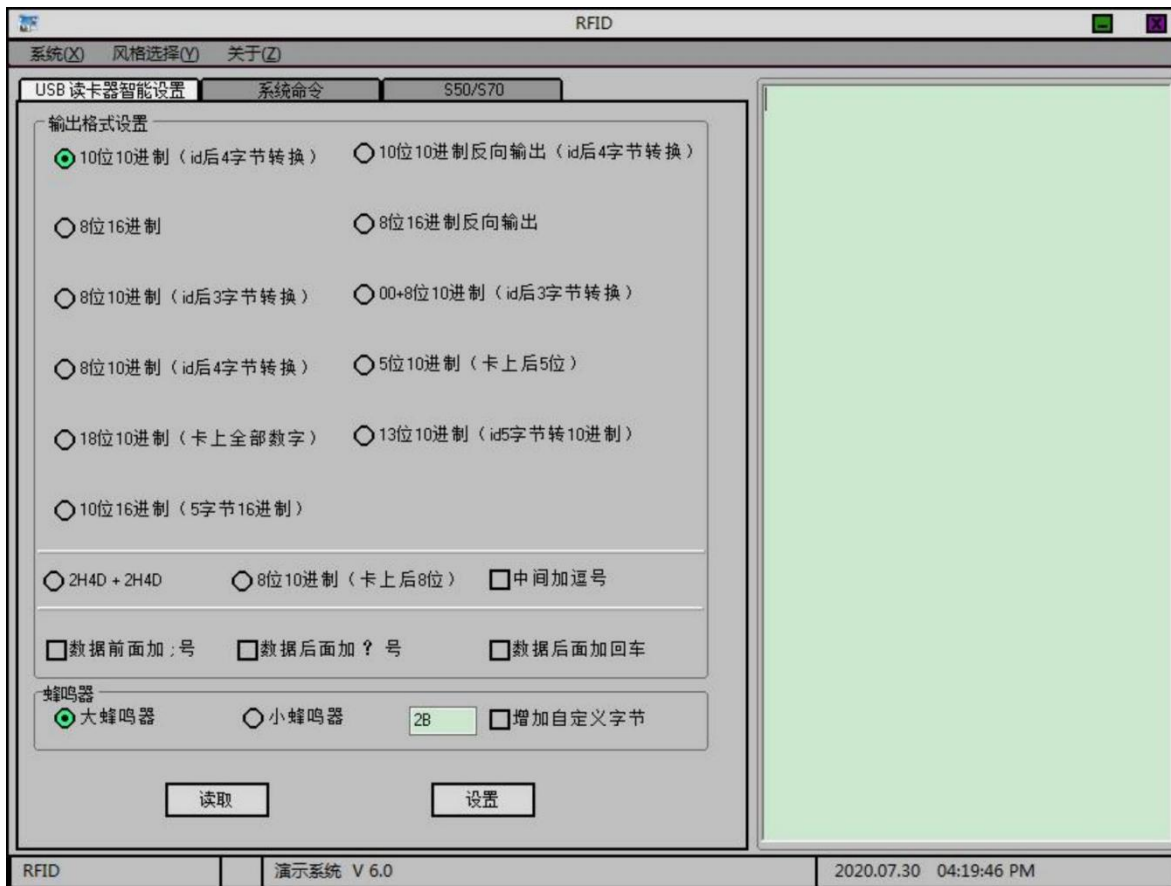
Configurations

<p>Set the serial port / 232 / 485 output baud rate to 9600</p>  <p>\$BAUD#3</p>	<p>Set the serial port / 232 / 485 output baud rate to 19200</p>  <p>\$BAUD#4</p>	<p>Set the serial port / 232 / 485 output baud rate to 115200</p>  <p>\$BAUD#7</p>
<p>Turn off the card reading function</p>  <p>\$IC#MOD0</p>	<p>Set to a read-only IC card</p>  <p>\$IC#MOD1</p>	<p>Set it to read the IC card + the ID card</p>  <p>\$IC#MOD3</p>
<p>Turn off the backlight</p>  <p>\$LED#0</p>	<p>Backlit automatic induction mode</p>  <p>\$LED#1</p>	<p>Regular light of the backlight mode</p>  <p>\$LED#2</p>
<p>Displays the software version number</p>  <p>\$SW#VER</p>	<p>Set the scan code output WG 26</p>  <p>\$WG#2D*0</p>	<p>Set the scan code output WG 34</p>  <p>\$WG#2D*1</p>
<p>Set the scan code output WG 256</p>	<p>Set the credit card output to WG 26</p>	<p>The credit card output is WG 34</p>

 \$WG#2D*3	 \$WG#IC*0	 \$WG#IC*1
USB HID Keyboard  \$USB#HID	USB virtual serial port  \$USB#COM	Restore default settings  \$SW#RST

Card reading parameter setting

1. Set the main interface



2. output format specification

Take the ID card number 00 11 22 AA BB as an example:

- 1) 10-bit 10-decimal system (4-byte conversion after id): 0287484603
- 2) 10-bit 10-decimal input reverse output (4-byte conversion after id): 3148489233
- 3) 8-bit 16-decimal point: 1122 AABB
- 4) 8-bit 16-decimal reverse output: BBAA2211
- 5) 8-bit 10-decimal system (3-byte conversion after id): 02271931
- 6) 00 + 8-bit 10-decimal system (3-byte conversion after id): 0002271931
- 7) 8-bit 10-decimal system (4-byte conversion after id): 87484603

8) 5-bit 10-decimal place (5 digits on the card): 43707

9) 18-bit 10-decimal system (all numbers on the card):
028748460303443707

10) 13-bit 10 decimal system (id5 bytes to 10 decimal system):
0000287484603

11) 10-bit 16-vox: 001122 AABB

12) 2H4D+2H4D: 0438643707

13) 8-bit 10-decimal system (back 8 on the card): 03443707

3. Additional setting instructions

[Add the data]: Add the data in the output format;

[Data is added back in time? No.]: After adding the data in the output format?

[Comma in the middle]: format 9), 12), 13) add comma in the middle

4. Output format settings

Check the corresponding Settings and click the Settings button.

5. Read the current settings

Click the Read button to get the current settings.

6. data format

The USB part will output the 8H10DUSB card number

The serial port-485 output card number such as the 10-bit card number

1234567890 card reader outputs 31 32 33 34 35 36 37 38 39 30 0D 0A

The first 10 bytes are the physical card number 0D return 0A line change



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