

## Yanzeo R783 UHF RFID Reader



The R783 is an integrated UHF reader with multi-protocol compatibility, fast read rate, multi-tag reading, and waterproof design. It can be widely used in various RFID systems.





## **Product specification:**

- Support ISO18000-6Cand EPC Class1 GEN2 international standards;
- Integrated structure design, beautiful appearance, suitable for outdoor environment;
- Integrate high-performance linear polarized antennas, Recognize the long range distance stably;
- Supports tag echo signal detection, tag data filtering, clock stamping, and input and output functions;
- Recognition speed is fast, and the identification of single label can reach 140 times/second;
- Adopt frequency hopping working mode, strong anti-interference ability and high recognition sensitivity;
- Support sp) development in multiple languages, such as VC, VB, C, etc.
- Supports online upgrades, has a rich communication interface, and can be customized to the needs of users.

## Application:

Warehouse Management, Supply Chain Management, Vehicle Management nt, Line Management, Source Management, Asset Management, Personnel Management, Attendance Management, Product Anti-counterfeiting Management



## **Technical Parameters**

model	R783
Supported protocols	ISO18000-6C (EPC GEN2)
working frequency	ISM 902 $\sim$ 928MHz and ISM 865 $\sim$ 868MHz
Operation mode	FHSS
RF power	0~30dBm, Software Programmable
Reading speed	Single card average reading is 64bits, less than 6ms, Software Programmable
Work mode	reading Active and reading passive, Software Programmable
Communication Ports	N:Wiegand26/34/98, RS485,RS232 ,USB E:Wiegand26/34/98, RS232,TCP ,USB
Input interface	1 way trigger input
Reading range	0-6 m(High power 0~10m)
Status indicators	buzzer
Antenna	9dbi circular polarization antenna
Power supply	DC+9V
Size	257mm×257mm×42mm
Weight	1.45 Kg (Package:2.45kg)
Operation Temp	-20 °C ~+70 °C

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## **Output format setting**

## 1. Connecting devices and software

Connect the card reader with the computer, double-click to open the application program, and click the read button. The current format of the card reader will be displayed in the status box on the right side of the software.

🛱 Format output card number		
<u>System Stype A</u> bout		
USB reader intelligent set Prefix suffix Data	Input	ceiwe AA000A00000100000010181000ABB
Coutput format setting		ad data success 11:27:59 AM
<ul> <li>10 no.in D(four byte)</li> </ul>	U no. in D reverse	e Output format : 8 no. in HEX (7 te)
🔲 8 no. in HEX	🔲 8 no. in HEX reverse Th	e Output format : do not add semicolon e Output format : do not add , e Output format : do not add ?
🔲 8 no. in D (last 3bytes)	🔲 00+8 no. in D (last 3 bytes)	e Output format : add enter
🔲 8 no. in D (last 4 bytes)	🔲 5 no. in D	
🔲 18 no. in D		he current format is displayed in he status box
🔲 10 no. in HEX	🔲 GS1 no (sgtin-96)	
All EPC Card Numberscard number 12-	7-4 reverse epc card number 12-7-4 BYT	
🗌 🖸 2H4D 🔲 8 no. in D (k	ast 4 bytes) 🔲 add , in middle	
add : O Click the botto	Ladd "Enter"	
Read Reader type	Close voice Factory default Fatory default	
Set Active read	ding Passtive reading Reading versio Version number	
RFID Format of	output card number	2020.07.10 11:28:33 AM

#### \*If the connection fails, see the figure below

Format output card number			
<u>System</u> Stype About			
USB reader intelligent set Prefix suff	ix Data Input	data error, please check Device	
output format setting		Connection	
<ul> <li>10 no.in D(four byte)</li> </ul>	🔲 10 no. in D reverse	Data error, no data recevice 05:3	34: 32
🔲 8 no. in HEX	🔲 8 no. in HEX reverse		
🔲 8 no. in D (last 3bytes)	00+8 no. in D (last 3 bytes)		



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# **2. Reader status output format**2.1 Output format setting

💀 Format output card number		
<u>S</u> ystem S <u>t</u> ype <u>A</u> bout		
USB reader intelligent set Prefix suffix Data	a Input	ReceiveAA0002008082BB
output format setting		Set Up Success 11:30:40 AM
10 no.in D(four byte)	🔲 10 no. in D reverse	After setting, the status box
🔲 8 no. in HEX	🔲 8 no. in HEX reverse	shows that the setting was successful
🔲 8 no. in D (last 3bytes)	🔲 00+8 no. in D (last 3 bytes)	Succession
🔲 8 no. in D (last 4 bytes)	🔲 5 no. in D	
🔲 18 no. in D	🗆 13 no. in D 🛛 🙆 Choose the form	at you want
🔲 10 no. in HEX	🔲 GS1 no (sgtin-96)	
All EPC Card Numberscard number 12	-7-4 reverse epc card number 12-7-4 BYT	
🔲 2H4D 🔲 8 no. in D (	(last 4 bytes) 🔲 add , in middle	
🔲 add ;	add ? 🔲 add "Enter"	
Format setting		
RFID Format	output card number	2020.07.10 11:32:40 AM



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## 2.2 Reader type settings

Format output card number		
<u>System Stype A</u> bout		
USB reader intelligent set Prefix suffix Data In		eceiveAA0002008082BB end buzzer shutdown instructions
10 no.in D(four byte)	U 10 no. in D reverse	eceiveAA0002008082BB et Active reading success 11:35:32 AM eceiveAA0002008082BB
🔲 8 no. in HEX		et Passtive reading success 11:35:32
🔲 8 no. in D (last 3bytes)	O0+8 no. in D (last 3 bytes)	
🔲 8 no. in D (last 4 bytes)		When the Settings are complete, the status box displays the Settings
🔲 18 no. in D	🔲 13 no. in D	
🔲 10 no. in HEX	🔲 GS1 no (sgtin-96)	
All EPC Card Numberscard number 12-7-4	4 reverse epc card number 12-7-4 BYT	
2H4D 🗍 8 no. in D (last	t 4 bytes) 🔲 add , in middle	
🔲 add ; 🚺 🚺 Set "ti	he card reader work type according to the	e requirements
Read Reader type Format setting Active readir	Close voice Factory default Fatory default	
RFID Format ou	itput card number	2020.07.10 11:35:34 AM

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## 2.3 Restore factory settings and version number query

USB reader intelligent set Prefix suffix D	ata Input	Receive AA0002008082BB
output format setting		Restore factory settings Success
10 no.in D(four byte)	🔲 10 no. in D reverse	11:37:44 AM
🔲 8 no. in HEX	🔲 8 no. in HEX reverse	ReceiveAA001B004D4D33325F52463931355F5 2575F56312E34612D3230303632335DBB read version number success 11:37:46
🔲 8 no. in D (last 3bytes)	🔲 00+8 no. in D (last 3 bytes)	АЖ
🔲 8 no. in D (last 4 bytes)	🔲 5 no. in D	the version number is: 4D4D33325F52463931355F52575F56312E34612D3 23030363233
🔲 18 no. in D	🔲 13 no. in D	The Cettings are displayed in the
🔲 10 no. in HEX	🔲 GS1 no (sgtin-96)	2 The Settings are displayed in the status box
All EPC Card Numberscard number	12-7-4 reverse epc card number 12-7-4 BYT	
🔲 2H4D 🔲 8 no. in l	D (last 4 bytes) 🔲 add , in middle	
add ;	] add ? Click the botton	
Read Reader ty	vpe Close voice Factory default Fatory default	
Set	reading Passtive reading Reading versio Version number	
RFID Form	at output card number	2020.07.10 11:37:48 AM

## 3. Prefix and suffix data entry

3.1 Prefix and suffix settings

Fill in the prefix and suffix that need to be

added here, up to four bytes. After completing, click the setting button behind, the status window on the right side will display the successful setting, as shown in the figure:

<u>S</u> ystem S <u>t</u> ype USB reader intelligent set	About Prefix suffix Data		elect "Prefix s	suffix data in	
Prefix : 30	31	32	33	Prefix seting	ReceiveAA0002008082BB Set prefix Success 11:39:18 AM ReceiveAA0002008082BB
First byte Suffix: 31 First byte 915M device information	Second byte 32 Second byte	the third byte 33 the third byte	The fourth byte 34 The fourth byte	Suffix setting	Suffix setting Success 11:39:21 AM The status box displays the results
searc card interval:	10	range: 00~255,	Unit:10ms	Setting	
card filter number:	10	range 00~255,00	output allthe time	Setting	
outplaterInput	the prefix ar	nd suffix to b	e set and clic	k the botton	to confirm

## 3.2 915M machine information

Output interface setting, open or close the corresponding interface according to requirements, click the setting button to complete the setting; The default baud rate is 9600, select the required value and click the right setting button to complete the setting;

Add a serial port input terminator, enter the character to be set in the input window, and click the set button to complete the setting;

RF power setting, the greater the value, the higher the power, the farther the sensing distance, enter the required value, click the setting button to complete the setting;

Wiegand output format, enter the corresponding value, representing the corresponding format, click the setting button to complete the setting; Wiegand value location, 12-byte card number, fill in the required location, click the set button to complete the setting;

Wiegand low-level pulse width range and Wiegand idle-level pulse width range, fill in the value to be set (0x01~0xFF), click the setting button to complete the setting, **as shown below:** 

Loop tedder inkelligerik set. 4 Trein gattin Daka tripak	Receive AA0002008082BB
Prefix suffix setting According to the requirements to set the Prefix: Supervised and the requirements to set the supervised and the requirements to set the Prefix seting First by click the right button to confirm The fourth byte	search card interval success 11:42:24 M ReceiveAA0002008082BB
Suffix: 31 32 33 34	Set card filter number Success
Suffix setting	11:42:25 AM
First byte Second byte the third byte The fourth byte	
915M device information	ReceiveAA0002008082BB
search card interval: 10 range : 00~255, Unit:10ms Setting	putput interface setting Success
	11:42:25 AM
10	
card filter number: 10 range 00~255 ,00 output allthe time Setting	ReceiveAA0002008082BB
	Setting baud rate Success 11:42:26 AM
output interface setting: 💽 serial port open 🛄 serial port close 🥼 Setting	A CONSTRUCTION OF A CONSTRUCTION OF A CONSTRUCTION AND A CONSTRUCT
	Receive AA0002008082BB
💽 wiegand open 🔄 wiegand close	Serial port end symbol Success
	11:42:26 AM
💽 USB open 🛛 🔲 USB close	
	Receive AA0002008082BB
Setting baud rate : 9600 🗾 baud rate Settling	Set RF power Success 11:42:27 AM
Serial port end symbol: 02 00 none, 01 means 0D, 02 means 0D04 Setting	Receive AA0002008082BB
	Viegand output format success
Set RF power 02 00~11, means 12.5db~30db Setting	1:42:27 AM
	1. T. T
Wiegand output format: 00 00W/G26 01W/G34 02W/G66 03W/G98 Setting	Receive AA0002008082BB
Wiegand output format: 00 00WG26 01WG34 02WG66 03WG98 Setting	Get Wiegand value position success
Wiscond up to position . 09 12 butes and number , place of up to Setting	1:42:28 AM
Wiegand value position: 09 12 bytes card number > place of value	11.42.20 All
0A DA Setting	The state has a local days
wiegand Low level ou ise width	<b>2</b> The status box displays the
(0x01~0xFF) UNIT 10US Wiegand Idle level(0x01~0xFF) Unit 100US	results



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