

Ethernet----WIEGAND Bidirectional converter

Manual

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1. Introduction

This converter supports two-way conversion between Wiegand signal and network (TCP/IP). The Wiegand output supports standard WG 26bit and 34bit signal format receiving and sending, and the network adopts text (ASCII) format for receiving and sending.

WIEGAND-Ethernet



2. Function parameter:

Dimensions: length*width*height=73*39*27 (mm) Weight: <50g Power supply: 12V/DC±5% 500mA Working current: <130mA Interface: Wiegand, TCP/IP network Color: black Built-in webpage: support Network module: USR-K2\RSR-K3 optional Protocol: Wiegand, TCP/IP Wiegand input format: 26bit, 34bit, 4bit, 8bit Wiegand output format: 34bit, 8bit Network input format: ASCII Network output format: ASCII+0D+0A Network port serial communication parameters: 9600BPS, N, 8, 1 Network mode: (Tcp client\Tcp server\UDP Client\UDP Server\HTTDP Client) optional

3. Communication details:

3.1 Network receiving

The ASCII code between 0X30---0X39 is required, and the maximum number of bytes input is 20 bytes; (or 1 byte hexadecimal code)

The time interval between byte and byte is within 25ms. If it exceeds 25ms, data will be processed. Then it is sent with Wiegand 34bit, if the serial port only receives one byte of data, it will be considered as a keyboard Data will be sent in Wigan 8bit

For example: After receiving 31 32 33 34 37 38, the serial port will convert these bytes of data into 16 The base is sent in Wiegand 34bit: 0001E256

Detailed explanation: Wiegand 34bit can send a maximum of 4 bytes of hexadecimal code, which means that the serial port input The largest number of data in hexadecimal is FFFFFFF, which is 4294967295 in decimal (a total of 10 bits, it means there are 10 bytes in ascii code), so the data value input by the serial port should be in Between 0---4294967295.

The maximum number of bytes input by this converter is 20 bytes. If it exceeds Wiegand after being combined into hexadecimal 34bit output standard, the excess part will be intercepted and sent

For example: the data (ASCII code) received by the serial port is 31 32 33 34 35 36 37 38 39

30 31 32 33 34 35 and a total of 15 bytes, then the hexadecimal number is 7048860DDF79. The data sent through Wiegand 34bit is 860DDF79, The high part of the front is lost. If only one byte is received and the delay exceeds 25ms, it will be considered as a keyboard data, and the byte will be sent as Wiegand 8bit.

For example: if the serial port receives 32 (HEX), it will send 32

3.2 Network output:

Decode the data received from Wiegand and output it in ASCII format

Format: (10 ASCII codes) + 0D+0A

For example: the data received by Wigan is 1E256 (HEX), then when sending it through the serial port, it is

30 30 30 30 31 32 33 34 37 38 0D 0A

If only one byte of Wiegand data (think keyboard data) is received, one byte will be output without the suffix 0D 0A; there are two cases:

1. The received is 4bit, then output the byte in ASCII format

2. The received is 8bit, then send it as it is

For example: if Wiegand receives a 4bit 3, then it sends ASCII 33 through the serial port,

and receives a 4bit A, then sends ASCII 41 through the serial port;

If Wiegand receives an 8bit 45 (hex), it sends 45 (hex) as it is from the serial port.);

3.3 Wiegand end reception

Support Wiegand 4bit, 8bit, 26bit, 34bit input.

3.4 Wiegand terminal output

The output format is 8bit and 34bit (8bit means key signal).

4. Set up a computer network

	🏾 本地连接 属性		23	
连接				
IPv4 连接:	网络			
IND 注接: 媒体状态:	连接时使用:			
持续时间:	NVIDIA 1	Force 10/100/1000 Mbps Ethernet		
速度:		Internet 协议版本 4 (TCP/IPv4) 属性		? X
详细信息(E)	此连接使用下弦	一一一一	-	
2 字节: (愛属性 @)) 〔	▼ ▲ Intero ▼ ▲ Intero ▼ ▲ MaßE ▼ ▲ 链路是 安装(M) 描述	 ○ 自动获得 IP 地址 (0) ● 使用下面的 IP 地址 (2): IP 地址 (1): 子网摘码 (0): 	192 . 168 255 . 255	. 0 .201 .255 . 0
	TCP/IP。该 的相互连接	▲ (APP3 × GD). 自动获得 DNS 服务器地址(B) ● 使用下面的 DNS 服务器地址(首选 DNS 服务器(P): 备用 DNS 服务器(A):	E): 192 .168	. 0 . 1

When connecting the device to the LAN, you need to set the network segment of the computer to be the same as the network segment of the device. The default IP address of the device is 192.168.0.7, so the computer is also set to 0. The network segment IP is 192.168.0.201 ; Because this device has a built-in web page, you can directly enter 192.168.0.7 in the IE browser to set it up, as described in the following chapters.

5. USR-K2/USR-K3 different computer software

Connect one end of the device to the computer's network interface, and the other end to the output of the Wiegand device, and connect the device with 12V/DC power. If the internal network



module of the device is USR-K2, open the software.

If the internal network module of



he device is USR-K3, Then open the software;

how to know whether the internal module is USR-K2

or URS-K3,



Find the software interface of USR-K2

		1
	Operate Via LAN Operate Via COM	Base Faram (which is without X usually keep d
	Device IP Device Name MAC Ve	ModuleStaticIP ★ 192.168.0.7
	192.168.0.7 USR-K2 18 80 4C 82 2D C4 4012	SubnetMask 🗶 255. 255. 0
		Gateway ★ 192.168.0.1
	After finding the network module.	DNS Address 0.0.0.0
1	disk the mouse here to display the	User MAC D8 B0 4C B2 2D C4
	click the mouse here to display the	Reset Timeout (s) 0 🔲 Link
into the same the Gard	content on the right	Clear Buffer Data Before Connected 🛛 🐨 RFC2217
ICK nere to find	G Search Device	🔲 UART Set Parameter
nodules on the		Port Param
Internet		Farity/Data/Stop NONE - 8 - 1 - 3 udrate 9600 -
		Module work mode TCF Client
	Bata has been sent	RemoteIP 192.168.0.201
	Click device can read the parameters, right-click Device list	Short Connection time 0
	show more Read [Mac : D8 BO 4C B2 2D C4]	Short Connection
	Data has been sent	TCP Server-kick off old connection
	Read UN Read [Mac : D8 B0 4C B2 2D C4]	Heartbeat
	Data has been sent	Heartbeat Packet Type 🔹
	heau UN	Heartbeat Time(s)
		Heartbeat Packet 📃 Hex
		Register
		Register Packat Type None 👻
		Save Config
	Operation Log Hex Streams	

You can set the corresponding module parameters on the right button.

1: Configure the IP address, subnet mask, and gateway; the factory default IP of the device is static IP 192.16.0.7

2: Configure web login password; factory default user name: admin password: admin

3: Add configuration serial port parameters; factory default: invalid inspection, 8 data bits, 1 stop bit; network module is guest

In client mode, the server IP defaults to 192.168.0.201, where you can enter the domain name address.

4: Configure serial port baud rate, local port, remote port

The factory default of the device is 9600BPS, 20108, 8234

It should be noted that the port IP can be modified, but the baud rate cannot be modified at will, but only 9600BPS

5: Click here to save after setting all items.

Find the software interface of USR-K2

	😮 USR-TCP232-M4,E45 V2.3.3.97		
	Device(D) 中文(L) Help Search List [Click a device to read narameters in the Search List]		
	Device IP Device Name MAC Version	Porti	
	1921620.7 U3B-K3 D8 60 40 09 80 30 3014	Baudrate: 9600 -)	
		Parity/Data/Stop: NONE • 8 • 1 •	~
		FlowControl: None	
Click here		Work Mode: TCP Client 🔹)	
to find	There APP table	RemoteIP: 192.168.0.201	4
Complete	Search Device	Remote Port: 23	,-
		Local Fort: 23	\smile
Click here	Open Device Device Restart Start Factory Reset	"	
to open the	Base Save	ModbusTCP: None (?)	
webpage		PackTime: 0 ms (0~255) (?)	
	IP Type: Static IP - (?)	PackLen: 0 byte (0~1460) (?)	
	ModuleStaticIP: 192. 168. 0. 7 (?)	🐨 Synchronize baudrate (RFC2217 (?)	
	SubnetMask: 255.255.255.0 (?)	Enable USE Cloud (?)	
	Gateway. 152.100.0.1 (?)	L'ommunication L'ode	
	Full Show +	Save COM1 5	
	On-line Device NUM:	1 Search Port;1901	

1. Set the IP address, subnet mask and gateway of the current network module, click after setting 2 Save it.

3 A very important point is that you should not change the baud rate arbitrarily. This is related to the Wiegand conversion communication within the device, and Wiegand signals cannot be transmitted after random modification. The factory default is 9600.



4. Network communication mode selection, HTTPD Client

there are 5 communication methods

4.1 UDP, is a connectionless transmission communication protocol, here is the UDP CLIENT mode, providing simple and unreliable Information transfer service, no connection establishment and disconnection, small data packets and high transmission frequency, there is no requirement for packet loss. data to be transmitted to the specified IP. This mode is not recommended.

4.2 TCP Client The factory default mode of this device is to provide client connections for TCP network services and actively connect to the server. There is a difference between connection and disconnection, thus ensuring reliable data exchange.

4.3 UDP Server UDP server mode, opposite to UDP Client. Setting this mode is the UDP server mode. It is also an unreliable connection. It is not recommended to work in this mode.

4.4 TCP Server TCP server mode, corresponding to TCP Client mode, if set to this mode, this device will serve to use the server, the computer needs to be set to the client mode for communication and actively connect to this device.

4.5 HTTPD Client needs an HTTP server. The URL, header, domain name, port and other information needed to send data can be

It can be set through software. When sending data, you only need to send the request data. The device comes with the URL and header, and the returned data the user can choose whether to remove the header.

The above 4.1-4.5 only briefly explained these communication methods. For more detailed information, please refer to the USR-K3 software setup manual book.

The factory default is TCP Client mode.

Then set the remote IP remote port and local port. The remote port supports the way to enter the domain name: for example www.xxx.com can also directly enter the IP address. The remote port refers to the port allowed to connect to the server.

Note: When doing experiments in a local area network, make sure that the device and the communicating computer are in the same network segment

6. Web configuration method

When using USR-K2, you need to enter the IP address in the browser to enter the web mode

revice(D) 中文(L) Help	
Search List [Click a device to read parameters in the Search List	Port1
Device IP Device Name MAC Version 19216207 USR-K3 DB B0 4C DB 80 3D 3014 Clear ARP table Clear ARP table Compatible with Open Device Device Restart Factory Reset	Baudrate: 9500 • Parity/Data/Stop: NOME • 8 • 1 • FlowControl: None • Work Mode: TCP Client • RemoteIP: 192.168.0.201 Remote Port: 23 Local Port: 23
	Transparent transmi -
Base Save	ModbusTCP: None
IP Type: Static IP - (?)	PackTime: 0 ms (0.255)
ModuleStaticIP: 192. 168. 0. 7 (?)	FackLen: 0 byte (U 1460)
SubnetMask: 255.255.255.0 (?)	Synchronize baudrate(KrC221)
Cetamore 192 158 0 1 (2)	Uerroe II
Gatemay. 152.100.0.1 (()	L'ommuna cata on L'oñe
Full Show +	Save COM1
On-line Device NL	IM:1 Search Port:1901
Click Search Device After find Click Device Enter web configuration mo	Im Search Port:1901 ling the module de, as shown below
On-line Device NL Click Search Device After find Click Open Device Enter web configuration mo	Im:1 Search Port:1901 ling the module de, as shown below
On-line Device NL Click Search Device After find Click Open Device Enter web configuration mo 需要进行身份验证	Ing the module de, as shown below
On-line Device NL Click Search Device After find Click Open Device Enter web configuration mo 需要进行身份验证 http://192.168.0.7 要求提供用户名和密码。	Im Search Port:1901 ling the module de, as shown below
On-line Device NL Click Search Device After find Click Open Device Enter web configuration mo 需要进行身份验证 http://192.168.0.7 要求提供用户名和密码。 您与此网站建立的不是私密连接。	Im Search Port: 1901 ling the module de, as shown below
On-line Device NL Click Search Device After find Click Dpen Device Enter web configuration mo 需要进行身份验证 http://192.168.0.7 要求提供用户名和密码。 您与此网站建立的不是私密连接。	Im Search Port:1901 ling the module de, as shown below
On-line Device NL Click Search Device After find Click Open Device Enter web configuration mo 需要进行身份验证 http://192.168.0.7 要求提供用户名和密码。 您与此网站建立的不是私密连接。 用户名: admin	Im Search Port:1901 ling the module de, as shown below
On-line Device NL Click Search Device After find Click Dpen Device Enter web configuration mo 需要进行身份验证 http://192.168.0.7 要求提供用户名和密码。 您与此网站建立的不是私密连接。 用户名: admin 密码: *****	Im Search Port:1901

Figure 5

Enter the default username: admin and the default password admin



When using USR-K3 to enter the web page, the following is displayed. Click TTL1 to enter the setting page

The following figure appears:

*	USR-K3	× +		
	firmware revision:	v3013		中文
		USR IOT -IOT Experts-	Be Hones	t, Do Best!
	Current Status		parameter	help ^
	Local IP Config	Baud Rate:	9600 bps(600~230400)bps	 local port
	TTL1	Data Size:	8 ▼ bit	1~65535. when
	Web to Serial	Parity:	None V	this to 0 means use random local
	Misc Config	Flow Control:		port
	Reboot	UART Packet Time:	0 (0~255)ms	1~65535
		UART Packet Length:	0 (0~1460)chars	time/length
		Sync Baudrate(RF2217 Similar):		means automatic
		Enable Uart Heartbeat Packet:		mechanism; you
		Socket A	Parameters	none-zero value
		Work Mode: Remote Server Addr: Local/Remote Port Number: Timeout Reconnection :	TCP Client VDP Client UDP Client [0.0.0.0] TCP Client [0.0.0.0] UDP Server (1~65535) TCP Server (99999)s	
		PRINT:		
		ModbusTCP Poll:	Poll Timeout : 200 (200~9999) ms	
		Enable Net Heartbeat Packet:		
		Registry Type:	None Location Connect With	
		Socket B	Parameters	
		I Work Mode		
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It can be polished from the picture above: the setting in the picture has the same effect as the software setting, just fill in the picture above. After the input is complete, click the save button It should be noted that there are 5 optional modes in the working mode; but there is no last item in the web configuration mode of USR-K2: Httpd Client as shown in the figure below

📌 USR-K2	× +	
firmware revision:	v4012	中文
	USR -IOT Experts-	Be Honest, Do Best!
Local IP Config		parameter
RS232/RS485	Baud Rate:	9600 bps
Misc Config	Data Size:	8 v bit
Reboot	Parity:	None 🔻
	Stop Bits:	1 ▼ bit
	Local Port Number:	20108 (1~65535)
	Remote Port Number:	8234 (1~65535)
	Work Mode:	TCP Client
	Remote Server Addr:	TCP Client
	RS485:	UDP Server
	RESET:	
	LINK	
	INDEX:	
	Sync Baudrate(RF2217 similar):	
	Send data with device ID:	
	Cloud passthrough:	
	Cloud ID:	
	Cloud Password:	
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Firmware Version: \	V3014	中文
۲ ۲	USR IOT Be Hone	est, Do Best!
Current Status	Parity: None 🔻	this to 0 means
Local IP Config	Stop Bits: 1 V bit	use random local port
TTL1	Flow Control: None	remote port
Web to Cariel		1~65535
web to Serial	UART Packet Length: 0 (0~1460)chars	time/length
Misc Config	Sync Baudrate(RF2217 Similar):	default 0/0, means automatic
Reboot	Enable Uart Heartbeat Packet:	packet mechanism: you
	Work Mode: TCP Client V None	can modify it as a
	Remote Server Addr: [192.168.0.201]	none-zero value
	Local/Remote Port Number: 23 23 (1~65535)	
	Timeout Reconnection : 86400 (1~99999)s	
	PRINT:	
	ModbusTCP Poll: 🔲 Poll Timeout : 200 (200~9999) ms	
	Enable Net Heartbeat Packet: 🔲	
	Registry Type: None Location Connect With	
	Socket B Parameters	
	Work Mode: NONE V	
	Save Cancel	
Copyright © Jinan U	JSR IOT Technology Lin Save Reserved	website: <u>www.usriot.com</u>

After setting, click the save button to save. After clicking, a button to restart the network device appears,

Firmware Version	: V3014	里乂
×	USR IOT -IOT Experts-	Be Honest, Do Best!
Current Status	Reboot/Reset	help
Local IP Config	Restart Module	Restart Module . Reboot:
TILL		Click to make your config take
Web to Serial		effect
Misc Config		
Reboot	Clic	ck here
	to r	estart
		*
Copyright © Jinar	USR IOT Technology Limited. All Rights Reserved	website: <u>www.usriot.com</u>

7. The network port communicates directly with the TTL permanent serial port



1. Connect a TTL communication connector to the white 4P plug. If the connector provides 5V power, then do not provide power at 3 again. Otherwise, 12V/DC needs to be provided at 3 places to facilitate the power supply of the equipment.

This TTL adapter cable needs to be provided by the user, that is, the TTL to RS232 adapter cable, which is usually a USB interface, and a virtual serial port is created on the computer. The direction indicated by the arrow in the figure is the direction of data transmission

(the opposite of the Wiegand conversion TTL output described below).

2. After you are ready, you can communicate via serial and network ports.

3. Note that the jumper in place 1 should be removed.

4. The figure below is the data of the network interface directly communicating with the UART serial port

CUMSettings	COM port data receive	Network data receive	NetSettings
PortNum COM1 BaudR 9600 DPaity NONE DataB 8 bit StopB 1 bit Close Recev Options Receive to file Add line return Receive As HEX Receive Pause Savs	AB CD	12 34 56 78	(1) Protocol TCP Server (2) Local host IP [192.168.0.201 (3) Local host port [23] ○ Disconnect Rece Options □ Receive to file □ Add line return □ Receive As HEX = □ Receive Fause Save Clear Send Options
Data from file Auto Checksum Auto Clear Input Send As Hex Send Recycle	12 34 56 78	6 Peers: 192.168.0.7:23 ▼ AB CD	□ Data from file □ Auto Checksum □ Auto Clear Input □ Send As Hex ○ □ Send Recycle □ Interval 1000 ms

It should be noted that the 1-4 marked in the above figure should be selected as the HEX method, so that the data can be analyzed more intuitively.

Click Send at the label 5 to send the data to the TCP through the serial port, and click Send at the label 6 to transmit the data from the TCP to the serial port. This is actually the inherent function of USR-K2 \ USR-K3-transparent transmission.

8. Network interface and Wiegand interface communication



The connection is shown in the figure below,

Picture 12



Open the test software

cour "		Here I II was to	N. IC. IC.
COMSettings PortNum COM3 BaudR 9600 DPaity NONE DataB 8 bit StopB 1 bit Close Recv Options Receive to file Add line return Receive As HEX Receive Fause Save	CDM port data receive 30 30 30 30 30 30 31 32 33 34 00 0A	Network data receive 30 30 30 30 30 30 31 32 33 34 00 0A 3	NetSettings (1) Protocol TCP Server (2) Local host JP 192.168.0.201 (3) Local host port [23 Disconnect Recv Options Receive to file. Add line return Receive As HEX Receive Pause Save. Clear
Send Options Data from file Auto Checksum Auto Clear Input Send As Hex Send Recycle Interval 1000 ms	31 32 33 34 00 0A Send	Peers: 192.168.0.7.23 31 -92 - 33 - 34 - 00 - 0A Send	Send Options Data from file Auto Checksum Auto Clear Input Send As Hex Send Recycle Interval 1000 ms

Follow the instructions of the illustration below to explain

1. Select TCP Server server mode, here is the working mode for the computer, because the

above is a converter The setting is the client mode, so here is the setting.

- 2. The local IP setting is the IP of the computer
- 3. The 23 here is the remote address mentioned above.

4. After clicking Listening, it becomes Disconnect, The most important thing is to look

at the content in the red circle below. It needs to be the same as that in the circle, that is, it will be displayed like this when the converter is connected to the computer. Only in this way can you set 5, 6, 7, and 8 to be the same as those marked in the above figure, and then you can operate.

If it does not appear the same as or similar to the ones in the circle (the format is the same after modifying the IP and port). Then check whether the previous settings are consistent with the description in this article. If the information in the red circle appears, then the following communication experiment can be carried out:

5. Through Wiegand transmission, connect the Wiegand device to the converter, swipe the card or enter the password, etc., and you can receive the content through the network port as shown above6. If the 4P TTL to serial port is also connected at this time, then the data can also be seen on the serial

port at the same time, this is the content to be discussed below

9. Network interface, TTL initial serial port to receive Wiegand data at the same time

Note that this time is opposite to the direction of sending and receiving data through TTL to connect to the network port. The position of the outside receiving and sending data lines must be exchanged, that is, the white line and the green line must be exchanged.



USR-TCP232-Test RS.	232 to Ethernet Convert tester		
File(F) Options(O) He COMSettings PortNum COM1 BaudR 9600 DPaity NONE DataB 8 bit DataB 8 bit StopB 1 bit Close Recv Options Receive to file. Add line return Receive As HEX	Ip(H) CDM port data receive 30 30 30 30 30 30 30 31 32 33 34 00 0A	Network data receive 30 30 30 30 30 30 31 32 33 34 00 0A	NetSettings (1) Protocol TCP Server (2) Local host IP 192.168.0.201 (3) Local host poit 23 © Disconnect Receive to file Add line return V Receive As HEX
Receive Pause SaveClear Send Options Data from file Auto Checksum Auto Clear Input Send As Hex Send Recycle Interval 1000 ms Load	31 32 33 34 00 0A Send	Peers: 192.168.0.7:23 + 31 32 33 34 00 0A Send	Receive Pause Save. Clear Send Options Data from file Auto Checksum Auto Clear Input Send As Hex Send Recycle Interval 1000 ms Load Clear

The picture above shows the data that Wiegand transfers to TTL and network at the same time.

The figure below is the schematic diagram of the data transmission direction of this converter (the data communication direction of the circuit board drawing)



10. The picture of the webpage when the network module USR-K2 is used in the attached picture

AUSR-K2	× +	
firmware revision:	v4012	中文
	USR Be -IOT Experts-	e Honest, Do Best!
Local IP Config	parameter	· · · · · · · · · · · · · · · · · · ·
RS232/RS485	IP type: Static IP 🔻	
Misc Config	Static IP: 192 · 168 · 0 · 7	
Reboot	Submask: 255 · 255 · 255 · 0	
	Gateway: 192 · 168 · 0 · 1	
	Module Name: USR-K2	
	Current IP Address: 192.168.0.7	
	MAC Address: d8-b0-4c-b2-2d-c4	
	Save Cancel	
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*	USR-K2	×] +			
	firmware revision:	v4012			中文
		USR -IOT Experts-		Be Honest	, Do Best!
	Local IP Config		parameter		
	RS232/RS485	Baud Rate:	9600 bps		
	Misc Config	Data Size:	8 v bit		
	Reboot	Parity:	None T		
		Stop Bits:	1 ▼ bit		
		Local Port Number:	20108 (1~65535)		
		Remote Port Number:	8234 (1~65535)		
		Work Mode:	TCP Client ▼		
		Remote Server Addr:	192.168.0.201		
		RS485:			
		RESET:			
		LINK			
		INDEX:			
		Sync Baudrate(RF2217 similar):			
		Send device ID when connected:			
		Cloud passtbrough:			
		Cloud ID:			
		Cloud Password			
		c			
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*	USR-K2	×] +		
	firmware revision:	v4012		中文
		USR -IOT Experts-	Be Honest	t, Do Best!
	Local IP Config		parameter	Ê.
	RS232/RS485	Baud Rate:	9600 bps	
	Misc Config	Data Size:	8 v bit	
	Reboot	Parity:	None T	
		Stop Bits:	1 v bit	
		Local Port Number:	20108 (1~65535)	
		Remote Port Number:	8234 (1~65535)	
		Work Mode:	TCP Client	
		Remote Server Addr:	TCP Client	
		RS485:	UDP Server TCP Server	
		KESET:		
		INDEX:		
		Sync Baudrate(RF2217 similar):	 •	
		Send device ID when connected:		
		Send data with device ID:		
		Cloud passthrough:		
		Cloud ID:		
		Cloud Password:		
				·
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📌 USR-К2	× +	
firmware revision:	: v4012	中文
	USR Be Hones	t, Do Best!
Local IP Config	parameter	•
RS232/RS485	Module Name: USR-K2	
Misc Config	weberver port number: 80	
Reboot	Module Id(use for indentify modue): 1 (1~65535)	
	extended function: 128	
	User name: admin	
		J
	Save Cancel	
		· · · · · · · · · · · · · · · · · · ·
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