

USR-IO808-GR

Application:IoT

Working voltage:12V~36V

Working temperature:-20℃~+70℃

Storage temperature:-40℃~+85℃

Working humidity:5%~95%

Storage humidity:1%~95%

Dimension:200*122*29mm

Wireless network type:GSM/GPRS

ESD:IEC61000-4-2, Level 4

Surge:IEC61000-4-5, Level 3

Group pulse:IEC61000-4-4, Level 3

Product Description

it is network IO product which supports 8-way input/output and Modbus RTU/TCP protocol. Take 'Remote control' as core function and have high usability. User can easily and quickly integrate USR-IO808-GR into own system to realize remote control which based on GPRS network.

2G GSM GPRS network

Be adaptive to Modbus TCP/RTU protocol

8 DI input and 8 DO output

8-WAY NETWORK IO CONTROLLER USR-IO808

Support USR Cloud function and can realize remote control directly after powering on

Be adaptive to Modbus TCP/RTU protocol

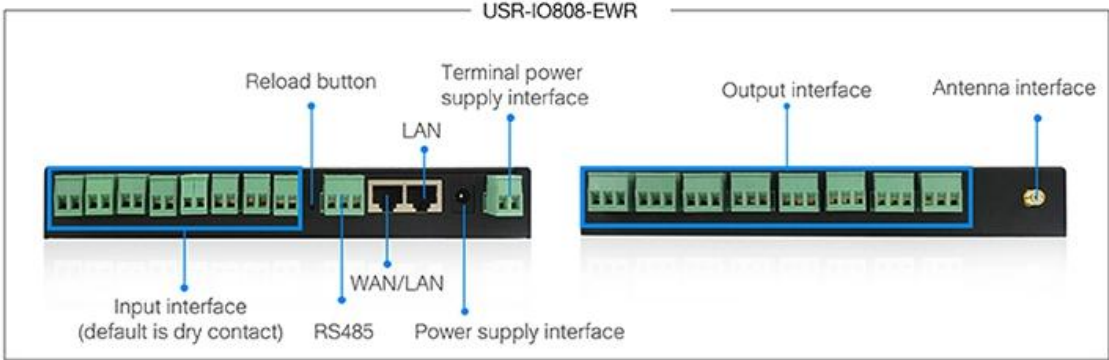
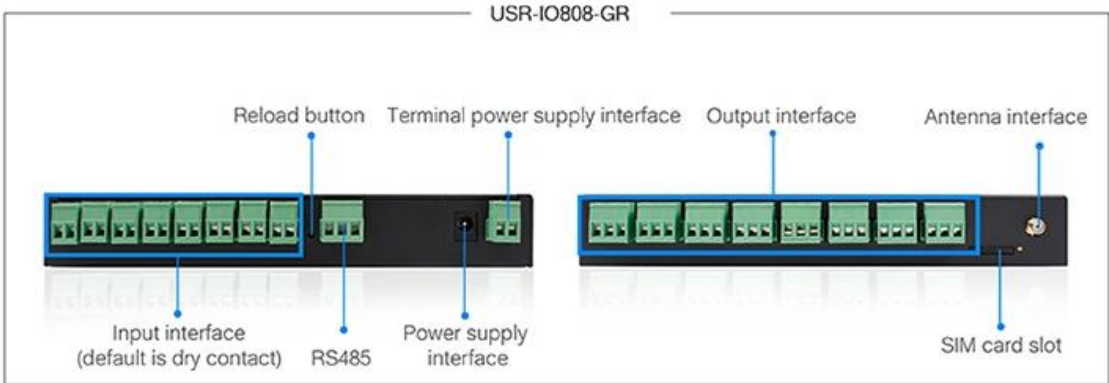
Support Master mode and Slave mode for user to choose



Network IO series comparison table				
Product model	USR-IO808-GR	USR-IO808-EWR	USR-IO424T-GR	USR-IO424T-EWR
Input interface	8	8	4	4
Output interface	8	8	4	4
Output interface	0	0	2	2
Temperature acquisition	--	--	✓	✓
RS485	✓	✓	✓	✓
GPRS	✓	--	✓	--
WIFI	--	✓	--	✓
Ethernet	--	✓	--	✓
Routing function	--	✓	--	✓

Detailed Images

Interfaces



Feature

Support 8-way Relay output

Support 8-way input, default is dry contact

Support 8 conditional control command

Support various function code: 0x01, 0x02, 0x03, 0x04, 0x05, 0x06, 0x0F, 0x10

Support socket to connect to remote server and TCP Client

Support two work modes: Master mode and Slave mode. Master mode supports connecting to multiple Modbus RTU devices by RS485 cascading connection.

Adopt Modbus RTU protocol data processing. Support Modbus TCP/RTU protocol adaptation.

Support connecting to USR Cloud.

Support FTP remote upgrade.

Support upgrading by RS485.

Support hardware watchdog.

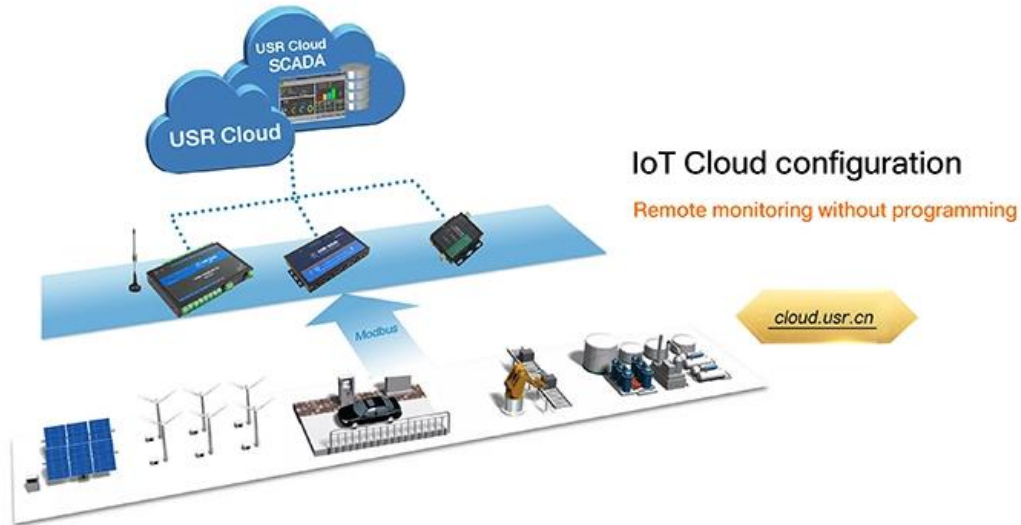
Support various LED to indicate work status.

Support power supply over-current, over-voltage, anti-reverse connection protection.

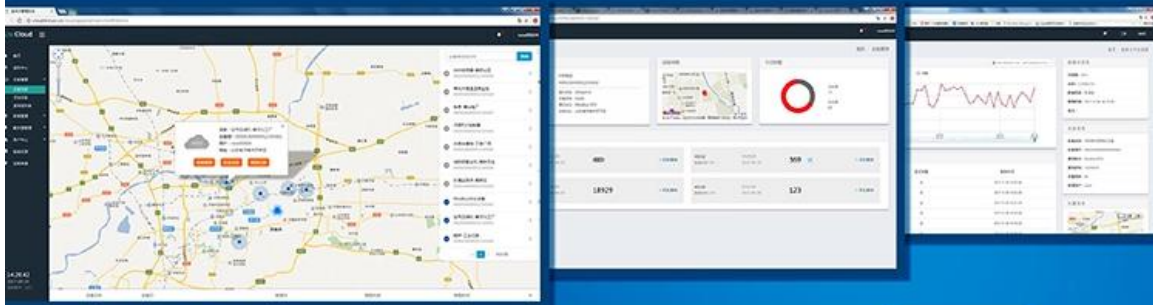
Specifications

Parameter	Value
Wireless parameters	Wireless standard
	GSM/GPRS
	Standard frequency band
	850/900/1800/1900MHz
	Transmitting power
	GSM900 class4(2W)
	DCS1800 class1(1W)
	GPRS Terminal Device Class
	Class B
	GPRS Multi-slot Class
	GPRS Class 10
	GPRS Coding Schemes
	CS1~CS4
Hardware parameters	Data interface
	Serial port: Support RS485. Baud rate: 300bps~230400bps
	Working voltage
	12V~36V
	Working temperature
	-20°C ~ +70°C
	Storage temperature
	-40°C ~ +85°C
	Working humidity
	5%~95%
	Storage humidity
	1%~95%
	Dimension
	200*122*29mm
Software parameters	Wireless network type
	GSM/GPRS
	Work mode
	Master mode, slave mode
	Configuration command
	Modbus RTU
	Network protocol
	Modbus TCP, Modbus RTU
	Application software
	Support configuration software
Software function	DNS
	Support
	Data transmission mode
	Support TCP Client
EMC level	ESD
	IEC61000-4-2, Level 4
	Surge
	IEC61000-4-5, Level 3
	Group pulse
	IEC61000-4-4, Level 3

USR-IO808 supports USR Cloud



USR Cloud[®] function

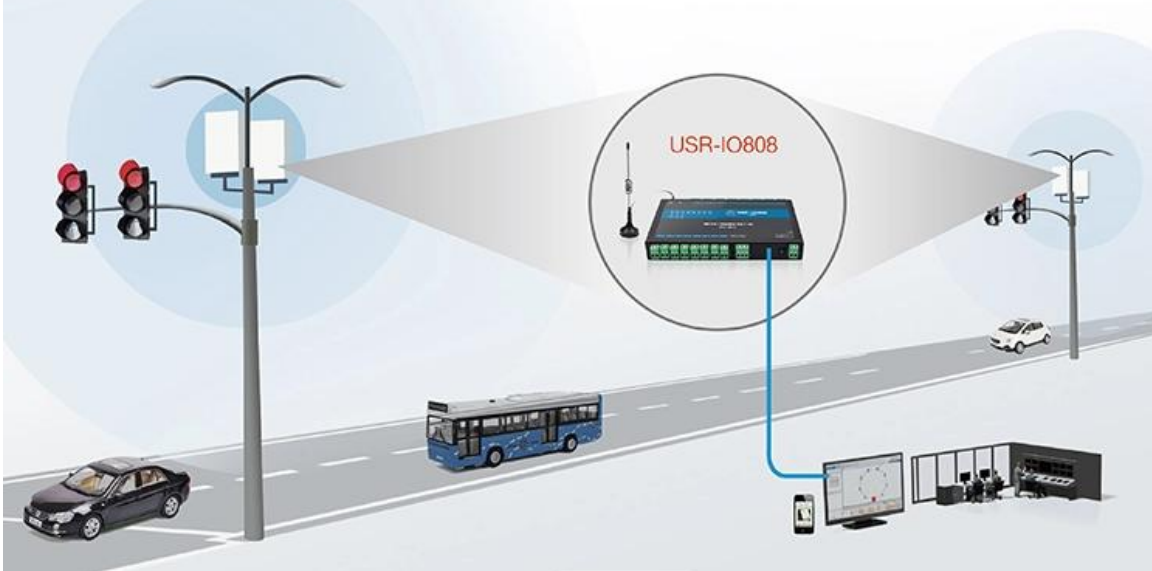


1. Industrial agreement: Modbus protocol devices can quickly access to USR Cloud
2. Historical data: curve and report forms.
3. Alarm push: WeChat, e-mail and message.
4. Open API: provide SDK and Demo source code.



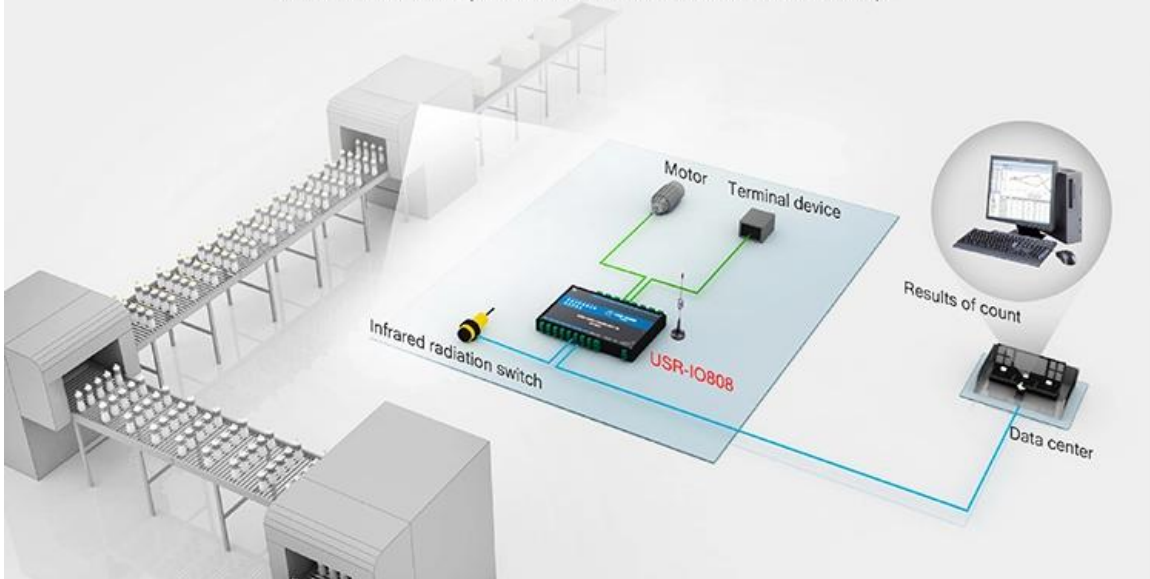
Smart lamp control

User can connect to USR Cloud by USR-IO808 to realize remote street lamp monitoring and it is convenient to control in Cloud side and record the devices status. Whole solution can ensure overall rate of lighting of street lamp, help management and bring the benefit of environmental protection.



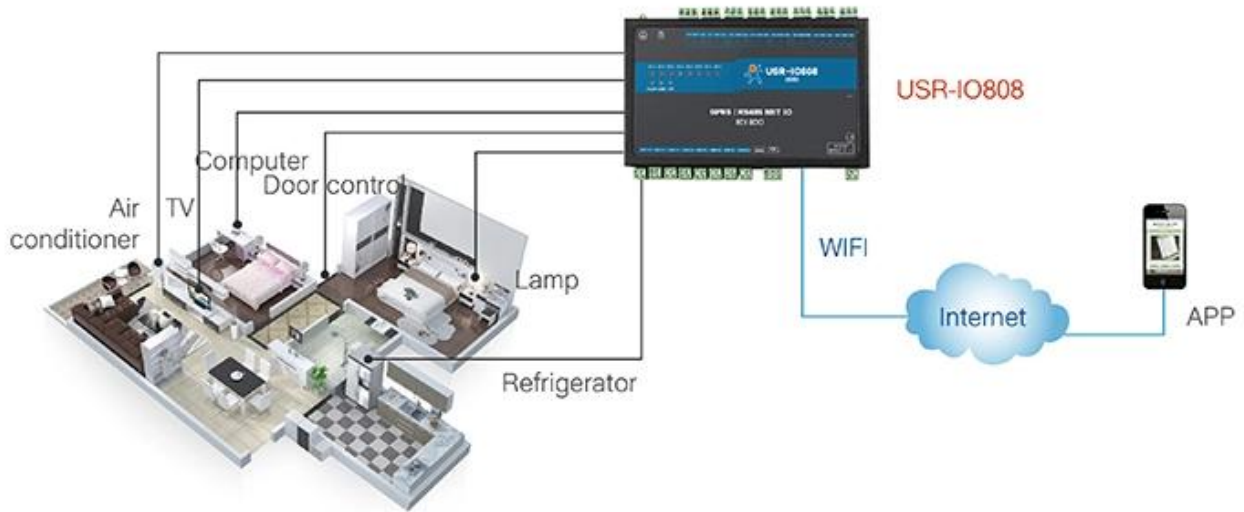
Industrial automation solution

In production-line item of industrial automation, it can realize production line monitoring and control by USR-IO808. For example, user can monitor production line quantity by infrared radiation switch or connect output interface to motor to control start and stop.



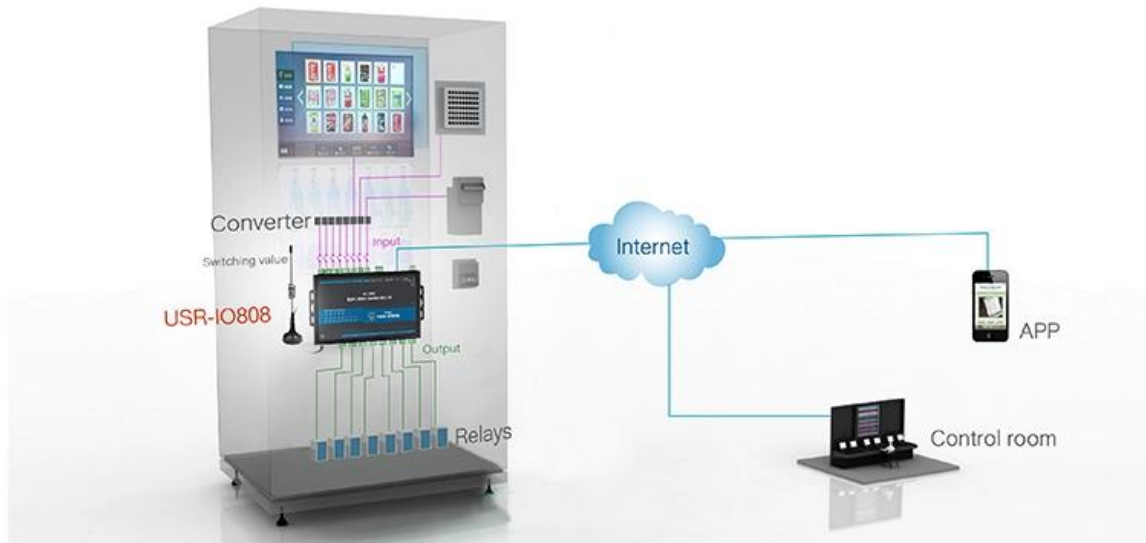
Smart hotel management

In smart hotel management project, user can connect USR-IO808 to TV, computer, refrigerator, air conditioner, door control system, etc. Then user can realize remote monitoring by mobile terminal. This solution is usually realized through local WiFi connection and it can also use USR Cloud to realize remote monitoring.



Self-service terminals solution

Based on remote monitoring function of USR-IO808, user can connect output interface to multiple Relays and connect input interface to switching value, then connect USR-IO808 to Cloud platform to realize monitoring running condition of self-service terminals, adjusting supply chain at any time or handling failure timely.



Distribution box solution

Control AC contactor or breaker by USR-IO808' s output Relays to realize remote control of powering on/off.
USR-IO808' s RS485 interface can connect to RS485 electricity meter to realize remote charging, remote control, etc.

