

IoT APPLICATION EXPERT

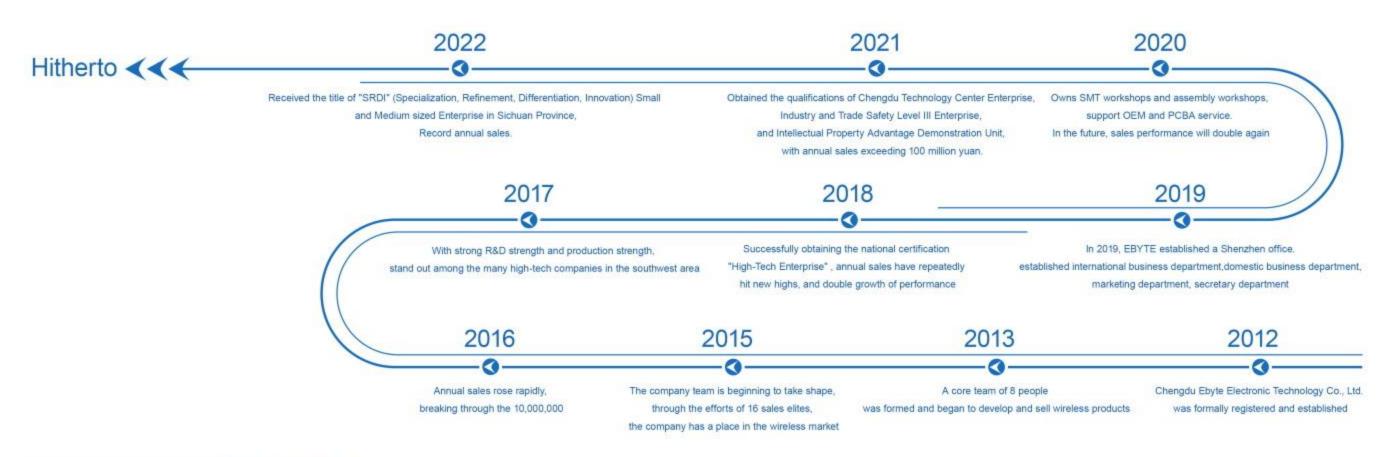














About Us

Chengdu Ebyte Electronic Technology Co., Ltd. was established in 2012, with an office area of over 4,000 square meters. It is a high-tech enterprise integrating R&D, production and sales, with a complete industrial chain, focusing on Internet of Things communication applications. Products cover LoRa, WiFi, Bluetooth, ZigBee, CAN bus modules, data transmission radio stations, industrial routers/gateways, LORAWAN, remote VO modules, Industrial signal transmission, etc., with nearly 100 inventions and utility model patents, and the products have passed SRRC, FCC, CE, MIC, KC, NCC and other authoritative certifications, the company is committed to providing professional communication solutions for customers in industries such as artificial intelligence, industrial control, energy conservation and environmental protection, and rail transit.

Main business

- LoRa / WiFi / Bluetooth / ZigBee wireless module Serial server
- GPRS / 4G-DTU / NB-IoT Data transmission terminal

Vision	₩ Values	Development strategy	Quality promise	Commitment to employees
Become an expert in wireless data transmission industry	Integrity Quality Development Innovation	International R&D level standardized production	Excellent quality strive for better	Family and business develop simultaneously



Provide customers with software

hardware one-step IoT application solutions



- Digital Radio
- Wi-Fi Module
- Power Module
- Signal Conversion Interface

- LoRa
- ZigBee Module
- Remote Control
- Gateway Device

- UART Serial Port Module
- 4G/GPRS/NB/GPS module
- Industrial Router
- LoRaWan

- SPI RF module
- Serial Server
- 4G/CAT1/NB DTU
- CAN bus

- SoC RF module
- Industrial IoT Devices
- Remote IO module
- Sensing and Detection

- BLE Bluetooth Module
- Antenna and accessories
- Industrial Signal Transmission
- Cloud/O Hardware



Professional and reliable IoT application expert









CE certification

FCC certification

Quality certification

RoHS certification



Ebyte product has exported to many countries and regions around the world

has been recognized by the world



The company's research and development capabilities are at the international advanced level

Products have passed

FCC/CE/RoHS/KC

and other international certifications

Ebyte product has

Exported to many countries

and regions around the world

Believe in big brands Believe in Ebyte

Ebyte provides customized wireless data transmission solutions standing at the forefront of technology to provide you with the best products and services

























Ebyte takes the Internet of Things communication technology as the core, and cooperates with many large enterprises and institutions to launch a variety of industrial communications, Internet of Things modules and wireless data transmission radio communication equipment. The products have industrial-grade quality, excellent performance, stable and reliable, and have been recognized by customers at home and abroad.

Quality is the key to ensuring the competitiveness of peers

Always keep in mind the expectations of customers, strictly screen parts and strictly monitor the production process,

Only to provide good products with reliable performance and excellent quality

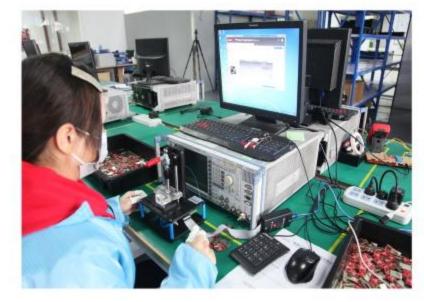














Wireless module



Original imported chip industrial-grade wireless module

Ebyte has established long-term strategic cooperation with chip companies such as NORDIC, SEMTECH, SILICON LABS, etc.

The wireless module produced uses imported original chips, high-quality capacitive and inductive devices, and industrial-grade high-precision Equipment such as crystal oscillator can work stably for a long time. Relevant materials are detailed, and users can use and develop without barriers.

Maintain long-term and deep cooperation with the world's leading chip manufacturers







Application industries



Automated irrigation

Remote data collection and control



Protection monitoring

Centralized monitoring improve efficiency



Exhibitions

Fast networking improve work efficiency



Smart power

Real-time remote monitoring fast sensor data transmission



Wireless UART module

SX1278 Chip Solution

High power 1W

Support air wakeup

Support FEC forward error correction



UART LoRa module

SX1268 Chip Solution LoRa wireless module LBT/RSSI Automatic relay network



UART LoRa module

LLCC68 Chip Solution LoRa wireless module LBT/RSSI Automatic relay network



High-speed LoRa module

SX1280 Chip Solution
High-speed continuous transmission
Support RSSI
Multiple working modes



Wireless modem

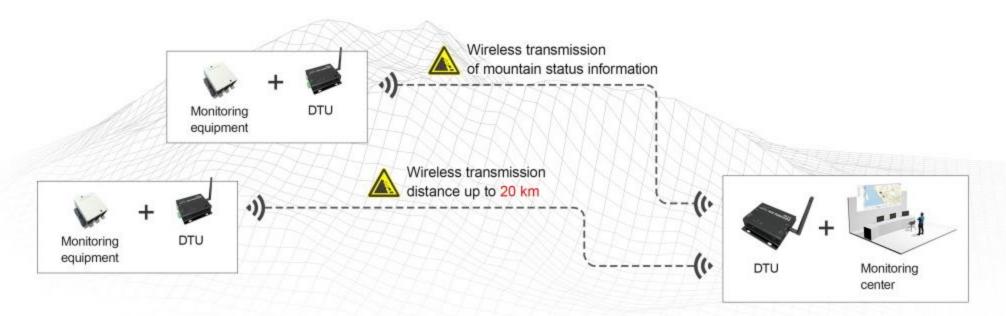
National Radio
Transmission Equipment Type Approval Certificate

CMIIT ID: 2017FP5780



Mountain (debris flow) monitoring application program

The traditional landslide monitoring and early warning system mainly uploads data to the main console through a wired network, and then broadcasts the early warning information manually. Because the landslide monitoring area is located in a remote area with complex geographic conditions, it is difficult to erect the line and the power supply is limited, which leads to the low degree of automation of the traditional method, poor monitoring accuracy, and low real-time performance. Ebyte's wireless modem series products can effectively replace traditional data lines, greatly enhance the ability to resist environmental interference, and reduce construction and maintenance costs.



Application industries



Pipeline monitoring automatic warning to prevent it before it happens



Automatic irrigation
Remote data collection

saving management costs



Building automation

Efficient management reducing enterprise management costs



Engineering projects

Data is quickly connected to the Internet



High-speed continuous DTU

High-speed continuous transmission Support high-speed continuous Adapt to Modbus protocol Ultra-low power consumption



RS485 to ZigBee wireless modem

ZigBee wireless modem Strong diffraction ability Flexible network structure Far coverage



Narrowband wireless modem

Multiple certifications

Low frequency narrow band

strong penetration and diffraction

Industrial quality



LoRa



Oil well data monitoring solution

Monitoring the working status of oil well equipment is an important basic task of oilfield management. At present, manual inspection is commonly used for regular maintenance, which consumes manpower, material resources and time, and it is impossible to obtain the latest working status in the first time. Ebyte's LoRa series products can quickly transfer data scattered across the site to the data center, allowing the center to control the working status of the entire oilfield for the first time, laying the foundation for data dynamic analysis.



LoRa spread spectrum communication: anti-interference, longer transmission distance, and stable communication

Application industries



Advanced meter

Realize remote collection Reduce labor



Wireless remote control

Improve work efficiency and freely control remote



Wireless alarm

Real-time alarm faster response



Industrial sensors

No wiring, more convenient adapt to more applications



LoRa wireless module

LoRa Wireless Module
Automatic relay networking
Set communication key by yourself
Wireless parameter configuration



New LoRa wireless modem

Military-grade LoRa modulation wireless DTU Single package supports 240 bytes 230MHz power frequency band penetration Support multi-level relay networking"



RF to 2G/4G network server

Radio frequency to 2G/4G network server Sub-1G and 2G/4G network data transmission Support LoRa spread spectrum technology Built-in high-performance MCU



4G/GPRS/NB

GPRS

4G

NB-IoT

Cold chain logistics vehicle application

In the current cold chain transportation business, most of the independent temperature recording and management are carried out by placing an isolated temperature detection recorder on the car. Therefore, cold chain logistics encounters the bottleneck that it is difficult to monitor the temperature and analyze data in real time. The 4G/GPRS/NB series products launched by Ebyte use the operator's network to upload data to the Internet in real time, enabling real-time monitoring anytime, anywhere.



Application industries



Automotive applications

Improve operating efficiency and view vehicle status



Shared equipment

More convenient to use and realize remote monitoring



Wind monitoring

Real-time control of data effective monitoring



Vending machine

Reduce labor costs and collect transaction information remotely



Serial port to 2G/4G wireless module

4G LTE data transmission module Support transparent transmission Support up to 230400 baud rate Large serial port buffer function



Serial port to 2G/4G wireless modem

GSM/GPRS digital modem
Support data transparent transmission
Support TCP, UDP network protocol
Support heartbeat package, registration package



Serial port to NB network wireless module

NB data transmission module
Support mobile NB card
With anti-interference ability
Anti-electromagnetic interference



Remote control



Remote control solution for smart agriculture and fishery

Smart agriculture and fishery uses the 4G mobile phone cloud smart remote control switch to realize remote control of the aerator on the mobile phone APP through the 4G network. The remote control switch supports multiple control methods (mobile phone APP/remote control/keys), and has multiple working modes (self-locking/jogging/interlocking). The remote control solution is highly efficient and low-cost, making smart agriculture and fishery more "smart"



Application industries



Industrial control

Remote control High efficiency



Agricultural irrigation

Automated control to improve energy efficiency



Household appliances

Remote control convenient and worry-free



Security systems

Real-time remote control Fast and efficient



4G phone smart remote control switch

Free for life (support sim card)

Multiple control methods (APP/remote control/keys)

Multiple working modes

Flexible power supply (AC/DC)

Multi-specification output (channel 1/2/4)

Support rail installation



4G phone smart remote control switch

Free for life (support sim card)

Multiple control methods (APP/remote control/keys)



Multiple working modes

Flexible power supply (AC/DC)

Multi-specification output (channel 1/2/4)

Support rail installation



Wireless remote control switch

No 4G network required

Remote control (wireless)

Multiple working modes

Flexible power supply (AC/DC)

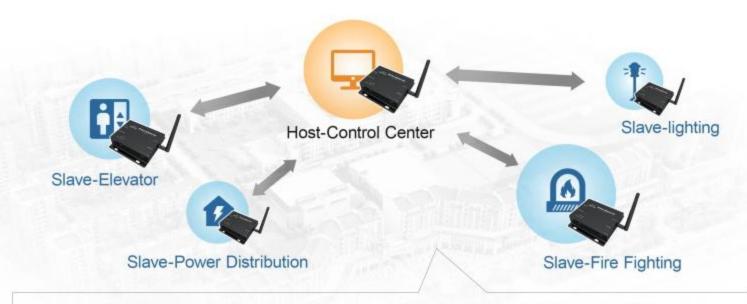
Multi-specification output (channel 1/2/4)

Support rail installation

Wi-Fi/Serial server

Smart community application solution

Building automation adopts IoT technology to conduct comprehensive and effective monitoring and management of HVAC, water supply and drainage, power supply and distribution, lighting, elevators, and fire protection in the community, expand the comprehensive use of the community and improve the efficiency of property management, and ensure community equipment in the best operating state of high efficiency and energy saving. Ebyte's wifi/serial server series products are easy to operate and simple to use. The use of data transparent transmission can quickly connect to different use environments, reducing the pressure of system development.



Multiple groups of networks can be run in the same area at the same time and multiple slaves can send data to the host at the same time

| Application industries



Wireless alarm

Real-time alarm to ensure fast reception



Remote keyless entry

Intelligent control door lock Convenient and quick



Smart home

Remote viewing intelligent control improve the quality of life



Shared equipment

More convenient to use realize remote monitoring management



Serial port to WiFi network

Serial port and WiFi two-way transparent transmission CC3200 chip solution
3M high-speed continuous transmission
Support OneNet



RS485 to Ethernet serial server

RS485 to Ethernet serial server
Two-way transparent transmission
Cost-effective
Support TCP/UDP



RF to Ethernet serial server

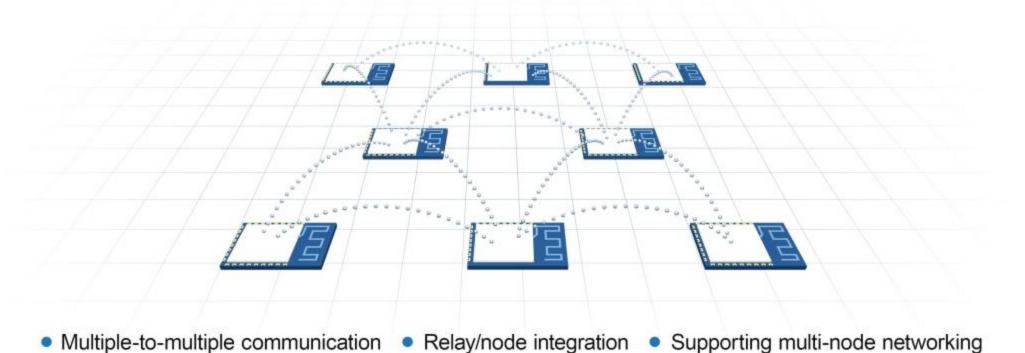
Star Ad Hoc Network
Integrate coordinator and terminal as one
Long-distance and high-speed transmission modes
PC operation



Bluetooth

SigMesh Ad Hoc Network

SigMesh especially improves the communication efficiency of building a large-scale network coverage, and will be more suitable for building automation construction, allowing tens of thousands of devices to transmit information in a safe, reliable, and stable environment. In the relay network, any module is a relay, and data can be received at the same time as the relay. Data signal covers a range of 50 meters.



| Application industries



Street light control

Simple maintenance intelligent control



Building automation

Efficient management reducing costs



Wireless remote control

Ultra-low power consumption small size



Wireless audio

Simple and easy to use convenient for secondary development



Bluetooth Mesh Ad Hoc Network Module

TLSR8269 chip solution

Multi-node networking

Automatically remember network information

Mobile APP can proxy to any node to access the network



High-speed Bluetooth module

CC2640 Chip Solution
Ultra small size
Bluetooth Low Energy 4.2
Multi-role mode



Low power Bluetooth module

nRF51822 Chip Solution High-performance low-power processor Support BLE4.2, BLE5.0 256KB FLASH, 16KB RAM

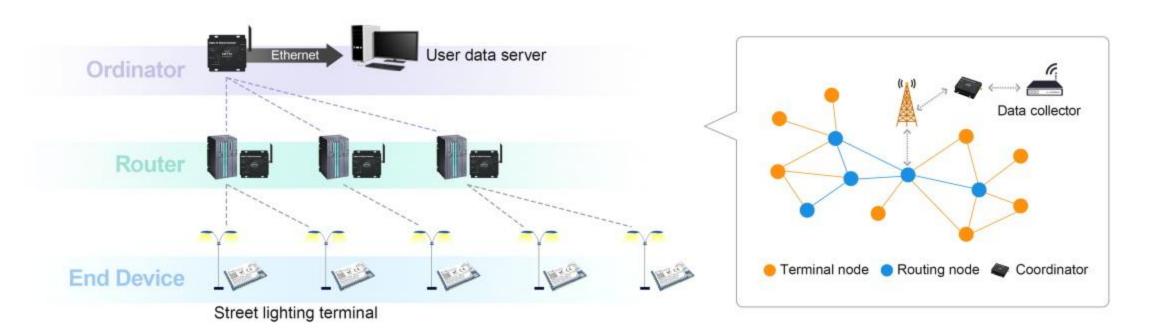


ZigBee



Smart street lighting solution

The Internet of Streetlights can support intelligent monitoring and command control applications such as streetlights, environmental parameters, traffic flow, etc. in the upper layer of smart cities, and realize the intercommunication and sharing of equipment resources and data resources in smart cities through cloud services, avoiding basic transmission in smart cities. The repeated construction of sensor network facilities achieves a high degree of sharing and sharing of multiple sensor terminal equipment and information resources. The ZigBee products launched by Ebyte feature fast networking, strong self-healing, and adapt to complex road conditions which are the best choice for smart street lighting.



Application industries



Security systems

No wiring required Maintenance cost



Building automation

Efficient management Reducing costs



Healthcare products

Stable data transmission Protect user data privacy



Hotel solutions

Flexible networking

Convenient management



ZigBee to UART module

ZigBee 3.0 Support ZHA/ZLL ZigBee Ad Hoc Network Adopt AES 128-bit encryption function



RS485 to ZigBee modem

ZigBee wireless modem Strong diffraction ability Flexible network structure Wide coverage



High-power ZigBee gateway

High power 500mW Automatic networking Network self-healing Two-way Socket link

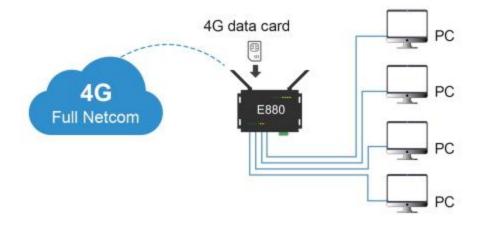


Industrial router

Mining production system solutions

Mining production is in a complex system that dynamically changes with time. This characteristic determines that the traditional mine production management project separates production personnel, physical infrastructure and information infrastructure, and various actualities formed during the production process. The status data is therefore not effectively integrated. Ebyte's industrial routers can effectively link the physical infrastructure and information infrastructure involved in the production process, so it can effectively integrate various actual status data.

1 4G to wired network



2 4G to Wi-Fi



Application industries



Engineering projects

Data is quickly connected to the Internet



Remote mountainous areas

Long-distance wireless upload to remote server



Tourist attractions

Push attraction information to improve tourist experience



Exhibitions

Improve work efficiency
Fast networking
Realize mobile office



Industrial 4G wireless router

- 4G wireless router
- QOS flow control management
- WPS one-click Internet

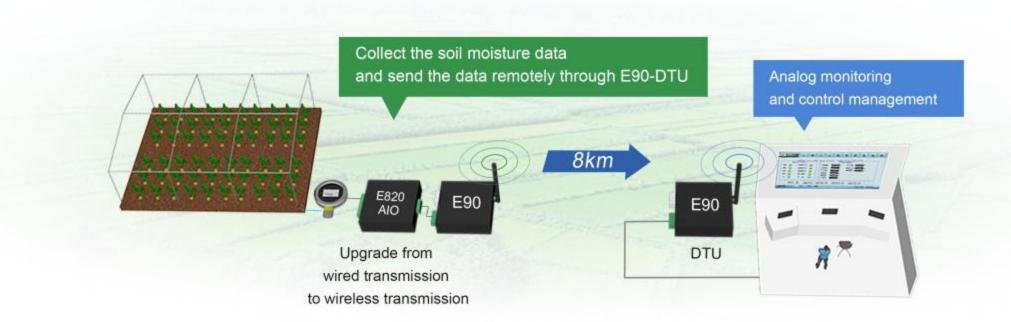
- · Commercial-grade high-performance embedded structure
- Support SMS AT command remote management
- Practical design with multiple network ports



Wireless data transmission gateway

Smart agricultural data collection solution

Smart agriculture is the use of sensors, controllers and software to monitor and control the agricultural environment and production process through mobile phones or computers. Ebyte's wireless data transmission gateway can transmit field data to the network data center in real time, and establish a professional system based on a big data platform, making traditional agriculture more "smart".



Application industries



Bridge monitoring

Wireless transmission online monitoring of real-time data



Automated irrigation

Remote data collection saving management costs



Forest fire monitoring

Centralized monitoring improve efficiency and quickly collect field data



Industrial sensors

Real-time remote monitoring fast sensor data transmission



Ethernet high-speed continuous transmission
Ultra low power consumption
TCP multiple connections
Heartbeat package, registration package



LoRa to 4G data transmission gateway

4G high-speed big data transmission
Automatic relay networking
RF distance up to 10km
Support two Socket links to send and receive



ZigBee gateway

ZigBee Ad Hoc Network

Two sockets work at the same time

4 Socket working methods

Support Ebyte Cloud Transmission

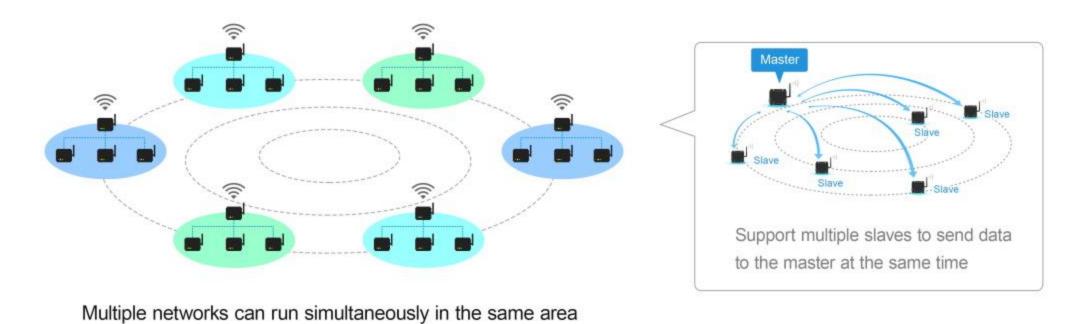


RF Ad Hoc Network



Wireless radio frequency ad hoc network series

Ebyte's radio frequency ad hoc network equipment adopts advanced radio frequency modulation, which has long transmission distance and strong anti-interference ability; at the same time, it is equipped with an easy-to-operate ad hoc network system, which is easy to use and fast in networking, and can adapt to most wireless networks. Application scenarios.



| Application industries



Wireless alarm

Real-time alarm Faster response



Industrial remote control

Improve work efficiency Freely control



Smart home

Remote viewing
Intelligent control
Improve the quality of life



Building automation

Efficient management Reducing costs



Star Ad Hoc Network DTU

Star Network System
Integrate coordinator and terminal
long-distance and high-speed
PC operation



One-master and multiple-slave

Star Network System
4G high-speed big data transmission
CSMA/CA carrier sense
Ebyte Cloud breaks the distance limit



Star Ad Hoc Network Module

One-master, multiple-slave star network applications
Support multiple slave data sending at the same time
Strict data check and automatic retransmission mechanism
RS232/RS485



Remote I/O



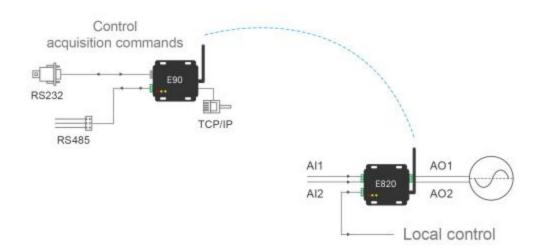
Sewage treatment plant solutions

In response to the continuous development of the country's emerging strategic industries, in order to change the current status of low efficiency and extensive operation of sewage treatment, Ebyte has launched remote I/O control equipment. The device can perform real-time operation of remote I/O devices through radio frequency, Ethernet, GRPS, etc., which effectively accelerates the response speed of system management and greatly improves the operation and maintenance capabilities of sewage treatment enterprises.

Wireless follow (replace traditional wired)



Wireless acquisition control



Application industries



Industrial remote control

Improve work efficiency
Freely control remote equipment



Bridge monitoring

Wireless transmission online monitoring of real-time data



Smart agriculture

Temperature and humidity data transmission



Wireless sensors

No wiring, more convenient Adapt to more applications



Analog follow/control acquisition modem

Analog Wireless Data Transmission modem Support ModBus-RTU 4-20mA Wireless transmission 8KM



Ethernet switch I/O controller

Ethernet Switch I/O Controller
4-channel digital isolated input
4-channel digital isolated output
Ethernet transparent communication



4G network remote I/O controller

GPRS network remote I/O controller
4 Al+4 Dl+4 channels relay output
Support Socket, support TCP/UDP
One key to restore factory settings