

7x24 hours sales service hotline: 4000-330-990

Mail: service@cdebyte.com

Address: Building B2, Building B5, No. 199, West District Avenue, Chengdu, Chengdu, Sichuan



www.ebvte.com



Ebyte - Internet of Things application expert













# Contents

P1 —	Company Profile	P13 —	DTU-Data Transceiver Unit
P3 —	History	P33 —	4G/Cat-1/GPS
P5 —	Product Series	P39 —	Gateways & Routers
P6 —	Scope of application	P45 —	Acquisition and Control Remote I/O
P7 —	Business coverage	P59 —	Industrial converters
		P65 —	Serial server
P8 —	World Exhibition	P79 —	Wireless remote control switch
P9 —	R&D and production	P87 —	LoRaWAN
P10 —	Brand collaboration	P91 —	CAN
P11 —	Honors and Certificates	P101 —	Profinet



#### Company Profile

Ebyte is committed to providing professional communication solutions for customers in artificial intelligence, industrial control, energy conservation and environmental protection, rail transit and other industries. With wireless data transmission and industrial Internet of Things technology, it has become an enterprise with large scale, strong technology research and development strength and strong core competitiveness in the southwest area, and its comprehensive strength ranks in the forefront of the country.

#### STATUS IIIIIIIIIIIIII

INDUSTRY Ebyte- 13 years of practical experience















#### At present, the company has developed into:

- National high-tech enterprise
- Chengdu Technology Center enterprise
- A number of invention patent certification enterprises
- Southwest Top 10 IoT Gazelle Enterprises
- Chengdu High-tech Zone gradient cultivation enterprise
- National ISO quality management system certification enterprise
- Chengdu IoT Industry Development Alliance - Executive Chairman Unit

#### And has been built:

#### - Wireless Module R&D Center

- Communication Equipment R&D Center
- Integrated production center
- Product User Experience Pavilion
- OEM automatic production line
- ODM original design manufacturer
- Radio Equipment Testing Laboratory

#### Sold globally:

- IOTE International Internet of Things Show
- Wireless Module R&D Center
- Communication Equipment R&D Center
- Integrated production center
- Product User Experience Pavilion
- OEM automatic production line
- ODM original design manufacturer
- Radio Equipment Testing Laboratory

#### **Development History**

Founded in 2012, with an office area of more than 6,000 square meters, Ebyte Electronic Technology Co., Ltd. is a high-tech enterprise integrating R&D, production and sales, focusing on IoT communication applications. Products cover LoRa, Wi-Fi, Bluetooth, ZigBee, 4G/5G/NB/GPRS wireless modules and devices, wireless sensing devices, antennas, etc.



#### 2022/2024

Sichuan Province specialized and innovative Enterprises
Chengdu Enterprise Technology Center Enterprises
Chengdu Top 30 IoT Gazelle Enterprises
IOTE Top 100 Chinese IoT Enterprises in 2023
Knowledge Product Advantage Demonstration Unit
Level 3 Enterprise for Work Safety Standardization

#### 2019/2021

Self-built SMT and finished product assembly workshops Added SEM/PCBA business segment Became a third-party design company for Texas Instruments (TI) Established regional and city offices

Moved to a new address with an area over 6,000 square meters

#### 2017/2018

Obtained the national "High-tech Enterprise Certification" Executive Chairman Unit of Chengdu Internet of Things Industry Development Alliance, The company has developed rapidly, expanded its product lines to 10, and obtained more than 100 invention patents

#### 2015/2016

Products passed MIC/NCC/FCC/CE/RoHS, CCC certification ISO9001 quality system certification Established a complete internal and external sales channel, annual sales rose rapidly, and achieved annual sales of over 10 million

2013/2014

2012

Established an 8-person R&D team and a 16-person sales team Launched a series of product lines including RF modules, LoRa modules, and digital radios Chengdu Ebyte Electronic Technology
Co., Ltd.Formally registered and established

#### Product Series

Use the cutting-edge technology to provide you with customized wireless data transmission solutions and product services

#### Wireless module series



- ▶ LoRa module
- ► SPI hardware module ► SoC hardware module
- ▶ Bluetooth module ▶ 4G/GPRS/NB-IoT
- → GNSS module → Ethernet
- ➤ ZigBee module → Wi-Fi module
- Millimeter-wave radar module

Development & Test Kits

- Superheterodyne module
- UART serial module → China core module

#### Communication equipment series





DTU-Data Transceiver Unit

- 4G/Cat-1/GPS
- Gateways & Routers

- ▶ Industrial converters ▶ Serial server
- · Wireless remote control switch

- Remote I/O
- LoRaWAN

- Profin
- Acquisition and Control



#### Smart Agriculture

Smart irrigation
Thermostatic greenhouse
Intelligent breeding

#### **Smart City**

Smart transportation Smart security Smart Buildings

#### **Smart Industry**

Smart devices Smart contexts
Industrial automation Smart appliances
Remote industrial control Smart doors and

#### Smart Home

Smart contexts Pharmaceutical cold chain
Smart appliances Smart care
Smart doors and windows Remote consultation

Intelligent Medical

#### Sold Globally Main business



With many years of practical experience Ebyte products are exported to and technology. Accumulate and overcome a number

of technical problems. 12 years of practical experience

more than 50 countries around the world. The country is trusted by customers.

Exported to many countries in the world

The company currently has more than 100 invention patents and utility model patents

Invention patent & utility model patent

Trade with a number of large enterprises. Cooperation: Global export trade volume reaches 100 million

Export sales volume of 100 million

#### World Exhibit Main business











IFA Berlin

Communic ASIA

CES 2019

ICT COMM VIETNAM

Convergence India









Ebyte maintains long-term in-depth cooperation with many well-known enterprises at home and abroad, and its products are widely used in IoT, consumer electronics, industrial control medical, smart home, security alarm, environmental monitoring, artificial intelligence and other application scenarios, focusing on IoT, making the Internet of Everything more intelligent. Relying on the advantages of wireless communication technology, it solves many pain points in industrial sites and derives industrial IoT solutions based on wireless technology.

#### Production and R & D

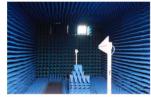
Ebyte has SMT and finished product assembly workshops to ensure the stability of production and supply. Strict IQC incoming inspection, IPQC process inspection and OQA factory inspection, each Ebyte product It must pass rigorous inspections such as material inspection, welding inspection, wireless performance test and aging test before it is allowed to leave the factory.













#### **Brand Cooperation**

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

























With IoT communication technology as the core, Ebyte has cooperated with a number of large enterprises and institutions to launch a variety of industrial communication, IoT modules and wireless data radio communication equipment. The products have industrial-grade quality, excellent performance and stability and reliability, and have been unanimously recognized by customers at home and abroad.

## **IoT application specialist**

- · National high-tech enterprise
- Standardization of safe production
- Gazelle enterprises
- Standing Chairman Unit of Chengdu IoT industry development alliance
- Chenadu IoT industry development alliance
- Chengdu enterprise technology center
- National invention patent
- Sichuan Province "specialized, specialized and new" enterprises



#### More honors



Invention patent

无线电发射设备 物期报告

SRTC S S S Course Mills SHOW AND THE

SHEEDSON SPECIFICATION

国家共和电产品共產国製物物中心





Radio type approval certificate

CE certification



MECHE

-----

A COMPANY OF THE PERSON NAMED IN COLUMN 1-12-2-2

-34 - - X

A STREET, ST. 18

Explosion-proof

certificate

FCC certification



Quality management system certification



压缩使现在系统研究书

或無亿亿%由子斯特有關公司

0 74 00 GH





RoHS certification Patent for Utility Model

## Wireless Digital Radio

Wireless digital radio is a device that transmits digital signals wirelessly. It integrates the underlying wireless communication protocol and is used to replace traditional communication cables. No configuration is required, just connect the RS485/RS232 cable to achieve transparent data transmission (the data of the sender and the receiver are completely consistent). It is widely used in PLC wireless communication, data remote acquisition control, electronic instruments, automation control, water and electricity meter reading, etc. In application.



#### Product selection table

Product Model	Frequency (MHz)	Power (dBm)	Distance (km)	Communication interface	Voltage(V)	Features
E18-DTU(Z20-485)	2400	20	1.2	RS485	DC 8 ~ 28	ZigBee3.0 protocol radio, can be used as both coordinator
E18-DTU(Z27-485)	2400	27	2.5	RS485	DC 8 ~ 28	router and terminal
E32-DTU(170L30)	160~173.5	30	8	RS232 RS485	DC 8 ~ 28	
E32-DTU(433L20)-V8	410~441	20	3	RS485/RS232	DC 8 ~ 28	
E32-DTU(433L30)-V8	410~441	30	8	RS485/RS232	DC 8 ~ 28	
E32-DTU(433L33)-V8	410~441	33	12	RS485/RS232	DC 8 ~ 28	Classic LoRa data transmission radio, long-distance anti-interference, supports LBT, supports low power
E32-DTU(433L37)-V8	410-441	37	20	RS485/RS232	DC 8 - 28	consumption and covers SUB-G frequency band
E32-DTU(900L20)-V8	862~930	20	3	RS485/RS232	DC 8 ~ 28	
E32-DTU(900L30)-V8	862~930	30	8	RS485/RS232	DC 8 ~ 28	
E34-DTU(2G4D20)	2400~2505	20	2	RS485/RS232	DC 8 ~ 28	
E34-DTU(2G4D27)	2400~2505	27	5	RS485/RS232	DC 8 ~ 28	
E34-DTU(2G4H20)	2400-2518	20	3	RS485/RS232	DC 8 ~ 28	
E34-DTU(2G4H27)	2400~2518	27	5	RS485/RS232	DC 8 ~ 28	Full-duplex FM communication, automatic FM packet loss retransmission, point-to-point transmission
E62-DTU(433D20)	425~450.5	20	1	RS485/RS232	DC 8 ~ 28	
E62-DTU(433D30)	425~450.5	30	3	RS485/RS232	DC 8 ~ 28	
E70-DTU(433NW30)	431-446.5	30	7	RS485/RS232	DC 8 ~ 28	Star networking, multiple sending and one receiving

#### Product Selection Table

Product Model	Frequency (MHz)	Power (dBm)	Distance (km)	Communication interface	Voltage(V)	Features
E800-DTU(433L20-485)-V8	410~441	20	3	RS485	DC 8 ~ 28	Small size, classic LoRa, long-distance
E800-DTU(433L30-485)-V8	410~441	20	8	RS485	DC 8 ~ 28	anti-interference
E90-DTU(2G4HD12)	2400~2480	12	1	RS485/RS232	DC 8 ~ 28	FM duplex, 3M airspeed
E90-DTU(230SL22)	220.125~236.125	22	5	RS485/RS232	DC 8 ~ 28	
E90-DTU(230SL30)	220.125~236.125	30	10	RS485/RS232	DC 8 ~ 28	
E90-DTU(230SL37)	220.125~236.125	37	20	RS485/RS232	DC 8 ~ 28	
E90-DTU(400SL22)	410.125~493.125	22	5	RS485/RS232	DC 8 ~ 28	
E90-DTU(400SL22P)	410.125~493.125	22	5	RS485/RS232	DC 8 ~ 28	
E90-DTU(400SL30)	410.125~493.125	30	10	RS485/RS232	DC 8 ~ 28	
E90-DTU(400SL30P)	410.125~493.125	30	10	RS485/RS232	DC 8 ~ 28	Flagship model, new generation LoRa
E90-DTU(400SL33)	410.125~493.125	33	16	RS485/RS232	DC 8 ~ 28	spread spectrum technology automatic relay, RSSI signal strength detection,
E90-DTU(400SL37)	410.125~493.125	37	20	RS485/RS232	DC 8 ~ 28	LBT enabled
E90-DTU(400SL42)	410~441	42	30	RS485/RS232	DC 12	
E90-DTU(400SL44)	410.125~493.125	44	40	RS485/RS232	DC 12	
E90-DTU(400SL47)	410.125~493.125	47	70	RS485/RS232	DC 12	
E90-DTU(900SL22)	850.125~930.125	22	5	RS485/RS232	DC 8 ~ 28	
E90-DTU(900SL30)	850.125~930.125	30	10	RS485/RS232	DC 8 ~ 28	
E90-DTU(900SL42)	850.125~930.125	42	30	RS485/RS232	DC 12	
E90-DTU(900SL47)	850.125~930.125	47	70	RS485/RS232	DC 12	

Product Model	Frequency (MHz)	Power (dBm)	Distance (km)	Communication interface	Voltage(V)	Features
E90-DTU(170L30)	160~173.5	30	8	RS485/RS232	DC 8~28	
E90-DTU(2G4L27)	2400~2500	27	7	RS485/RS232	DC 8~28	
E90-DTU(433L20)-V8	410~441	30	3	RS485/RS232	DC 8~28	Classic LoRa data transmission radio, long-distance anti-interference, LBT sup-
E90-DTU(433L30)-V8	410~441	30	8	RS485/RS232	DC 8~28	port, low power consumption support
E90-DTU(433L33)-V8	410~441	33	12	RS485/RS232	DC 8~28	
E90-DTU(433L37)-V8	410~441	30	20	RS485/RS232	DC 8~28	
E95-DTU(400F20-232)	410~510	20	1	RS232	DC 8~28	
E95-DTU(400F20-485)	410~510	20	1	RS485	DC 8~28	GFSK modulation, high cost performance
E95-DTU(400F30-485)	410~510	30	5	RS485	DC 8~28	
E610-DTU(433C20)	410~441	20	6	RS485	DC 8~28	High-speed transmission, unlimited packet length, continuous transmission,
E610-DTU(433C30)	410~441	30	10	RS485	DC 8~28	perfect adaptation to ModBus protocol
E840-DTU(TCEC05-485)		23	Any distance	RS485	DC 8~28V	
E840-DTU(TCEC05-485)-V2		23	Any distance	RS485	DC 8~28V	4G cloud data transmission radio, no dis- tance limit, one-to-one, one-to-many,
E840-DTU(TCEC05-485)A-V2	-	23	Any distance	RS485	AC 85~265V	many-to-one, many-to-many communi- cation
E840-DTU(TCEC05-232)-V2	-	23	Any distance	RS232	DC 8~28V	

#### Product selection table

Product Model	Frequency (MHz)	Power (dBm)	Distance (km)	Communication interface	Voltage(V)	Features
E95-DTU(400SL22-232)	410.125~493.125	22	5	RS232	DC 8 ~ 28	
E95-DTU(400SL22-485)	410.125~493.125	22	5	RS485	DC 8 ~ 28	_
E95-DTU(400SL22P-232)	410.125~493.125	22	5	RS232	DC 8 ~ 28	
E95-DTU(400SL22P-485)	410.125~493.125	22	5	RS485	DC 8 ~ 28	
E95-DTU(400SL30-232)	410.125~493.125	30	10	RS232	DC 8 ~ 28	
E95-DTU(400SL30-485)	410.125~493.125	30	10	RS485	DC 8 ~ 28	<ul> <li>Rail installation, new generation LoRa spread spectrum technology, automatic</li> </ul>
E95-DTU(400SL30P-232)	410.125~493.125	30	10	RS232	DC 8 ~ 28	relay, RSSI signal strength detection, LBT enabled AC and DC power supply
E95-DTU(400SL30P-485)	410.125~493.125	30	10	RS485	DC 8 ~ 28	version
E95-DTU(900SL22-485)	850.125~930.125	22	5	RS485	DC 8 ~ 28	
E95-DTU(900SL30-485)	850.125~930.125	30	10	RS485	DC 8 ~ 28	
E96-DTU(400SL22-485)	410.125~493.125	22	5	RS485	AC 85 ~ 265	
E96-DTU(400SL30-485)	410.125~493.125	30	10	RS485	AC 85 ~ 265	
E95-DTU(433L20-485)-V8	410~441	20	3	RS485	DC 8 ~ 28	
E95-DTU(433L30-485)-V8	410~441	30	8	RS485	DC 8 ~ 28	
E96-DTU(433L20-485)-V8	410~441	20	3	RS485	AC 85 ~ 265	Rail installation, classic LoRa data transmission radio, long-distance
E96-DTU(433L30-485)-V8	410~441	30	8	RS485	AC 85 ~ 265	anti-interference, supports LBT, suppor
E95M-DTU(400SL22-485)	410.125~493.125	22	5	RS485/RS232/TTL	DC 8 ~ 28	low power consumption
E95M-DTU(400SL30-485)	410.125~493.125	30	10	RS485/RS232/TTL	DC 8 ~ 28	1
E95-DTU(433C30-485)-V2.0	410~441	30	10	RS485	DC 8 ~ 28	Rail installation, high-speed continuous
E95-DTU(433C20-485)-V2.0	410~441	20	6	RS485	DC 8 - 28	transmission, unlimited packet length, continuous transmission

## Wireless Digital Radio







E90-DTU(400SL37)



### E90-DTU SL Series

RF Chip: SX1262/SX1268 Frequency: 220.125~930.125MHz

Power: 22~44dBm Distance: 5~40km

Functional features: It has obtained the "Model Approval Certificate" from the State Radio Administration and passed the authoritative anti-surge test of the China Test Institute. Adopting a new generation of LoRa communication technology, it has strong anti-interference ability and long communication distance. Data is transmitted with AES128 level encryption and supports relay networking, RSSI, LBT, remote configuration and other functions.

## Wireless Digital Radio



E90-DTU(400SL22P)



### E90-DTU P Series

Interface type: RS485/RS232 Frequency: 410.125~493.125MHz

Power: 22~30dBm Distance: 5~10km

Functional features: Using a new generation of LoRa spread spectrum technology, the communication distance is longer and the anti-interference ability is stronger. It has obtained the model approval certificate from the "State Radio Administration" and has obtained the electrostatic discharge anti-interference level 4 and the fast transient anti-interference level 4, level, surge impact resistance level 3.

## Wireless Digital Radio







E70-DTU(433NW30-ETH)



### E70-DTU NW Series

Interface type: RS485/RS232 / Ethernet Frequency: 433MHz
Power: 30dBm Distance: 6.5km

Functional features: star-shaped self-organizing network, supports multiple transmissions and one reception, multiple transmission methods, supports carrier multi-channel listening, ModBus, integrates coordinator and terminal, has two transmission modes of long distance and high speed, and is equipped with a gateway. All operation configurations adopt the host computer operation mode and are suitable for a variety of wireless communication networking scenarios.

### Wireless Digital Radio



E32-DTU(433L33)-V8



E32-DTU(433L37)-V8



## E32-DTU L-V8 Series

RF Chip: SX127x Frequency: 160~930MHz

Power: 20~37dBm Distance: 3~20km

Functional features: LoRa spread spectrum wireless data transmission radio has stronger anti-interference ability and longer communication distance, supports FEC forward error correction, and can interoperate with E32 series modules.

## Wireless Digital Radio









## E95-DTU/E96-DTU L-V8 Series

Interface type: RS485 Frequency: 410~441MHz

Power: 20~30dBm Distance: 3~8km

Functional features: LoRa spread spectrum wireless data transmission radio has stronger anti-interference ability and longer communication distance, supports FEC forward error correction, rail installation, DC 8-28V / AC 85-265V power supply.

### Wireless Digital Radio





## E95-DTU/E96-DTU SL Series

E95-DTU(400SL22-485)

Interface type: RS485/RS232 Frequency: 410.125~493.125MHz

Power: 22~30dBm Distance: 5~10km

Functional features: Adopting a new generation of LoRa communication technology, it has stronger anti-interference ability and longer communication distance. Data is transmitted with AES128 level encryption and supports relay networking, RSSI, LBT, remote configuration and other functions. It is mounted on a rail and powered by AC 85-265V/DC 8-28V.

## Wireless Digital Radio





E95-DTU F Series

Interface type: RS485/RS232 Frequency: 410~5100MHz

Power: 20~30dBm Distance: 1~5km

Functional features: GFSK modulation wireless data transmission station, with multiple transmission methods, providing RS485/RS232 data interface, rail installation, DC 8-28V power supply.

### Wireless Digital Radio





E95-DTU(433C30-485)-V2.0

### E95-DTU C Series

Interface type: RS485 Frequency: 433MHz
Power: 22~30dBm Distance: 6~10km

Functional features: High-speed continuous transmission series, no limit on packet length, very suitable for large data volume transmission, perfect support for ModBus protocol. Supports high-speed continuous uninterrupted transmission, adopts temperature compensation circuit, multiple power protection, supports ultra-low power consumption, built-in watchdog, and rail-mounted structure.

## Wireless Digital Radio





Interface type: RS485/RS232/TTL

E95M-DTU(400SL30-485)

Frequency: 433MHz

Power: 22~30dBm Distance: 5~10km

Functional features: High-speed continuous transmission series, no limit on packet length, very suitable for large data volume transmission, perfect support for ModBus protocol. Supports high-speed continuous uninterrupted transmission, adopts temperature compensation circuit, multiple power protection, supports ultra-low power consumption, built-in watchdog, and rail-mounted structure.

## Wireless Digital Radio





## E62-DTU D Series

Interface type: RS485/RS232 Frequency: 425~450.5MHz

Power: 20~30dBm Distance: 1~3km

Functional features: Multiple power protection, supports ultra-low power consumption, built-in watchdog, full-duplex point-to-point transmission. Frequency hopping spread spectrum function (FHSS), the sending and receiving parties will automatically jump synchronously in up to 50 frequency points according to the frequency hopping algorithm (the user can customize the number and sequence of frequency hopping), greatly improving the anti-interference ability.

### Wireless Digital Radio



E18-DTU(Z20-485)



E18-DTU(Z27-485)



E18-DTU(Z27-ETH)

## E18-DTU Z Series

Interface type: RS485 / Ethernet Feature: ZigBee ad hoc network

Power: 20/27dBm Distance: 1.2~2.5km

Functional features: Uses high-precision crystal oscillator to make communication more stable, has multiple power protections, built-in watchdog, ZigBee 3.0 standard, has multiple functions such as transparent transmission and protocol transmission, strong diffraction ability, flexible network structure, and long coverage Features.

## Wireless Digital Radio



E180-DTU(Z20-ETH)



E180-DTU(Z20-485)

## E180-DTU Z Series

Interface type: RS485 / Ethernet Feature: ZigBee ad hoc network

Power: 20dBm Distance: 1.3km

Functional features: Using high-precision crystal oscillator to make the frequency more stable, with multiple power protection, built-in watchdog, ZigBee 3.0 standard, with transparent transmission, protocol transmission and other functions, strong diffraction ability, flexible network structure, long coverage specialty.

#### 4G Cloud Data Radio







E840-DTU(TCEC05-485)A-V2



E840-DTU(TCEC05-232)-V2

## 4G云数传电台



E840-DTU(TCEC05-485)

### E840-DTU 4G Cloud Data Transmission

Interface type: RS485/RS232 Operating voltage: DC 8~28V/AC 85~265V

Transmit power: 23dBm Communication distance: unlimited distance

Functional features: 4G cloud data transmission radio, not limited by distance, can realize one-to-one, one-to-many, many-to-one, many-to-many communication, guide rail installation structure.

## E84.0-DTU 4G Cloud Data Transmission

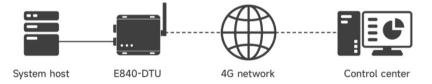
Interface type: RS485 Operating voltage: DC 8~28V

Transmit power: 23dBm Communication distance: unlimited distance

Functional features: Small size 4G DTU, with the characteristics of small size, high speed, low latency and simple use, simple configuration can realize one-to-one, one-to-many and many-to-many data transmission (without distance limit).

## 4G/Cat-1/GPS

4G/Cat-1/GPS DTU refers to the local serial port data using 4G network, to achieve industrial serial port equipment in the outdoor environment without local area network bidirectional transparent data transmission with remote server equipment, it can also be called 4G/Cat-1/network data transmission terminal. It is widely used in remote power monitoring, hydrology and water resources monitoring, mountain torrent geological disaster monitoring and early warning, environmental pollution monitoring, meteorological data collection, forest fire monitoring and other fields.



#### Product selection table

Product Model	Interface Type	Operating voltage	Transmission Type	Installation	Features
E840-DTU(EC05-485)	RS485	DC 8~28	4G full network	Rail installation	Cat1 DTU, rail installation, support 2-way Socket, support TCP/UDP/MQTT, support NTP time synchronization
E840-DTU(EC05-485)E	RS485	DC 8~28	4G full network	Rail installation	Catl DTU, rail installation, support 2-way Socket, support TCP/UDP/MQTT, support NTP time synchronization
E840-DTU(4G-04)	RS485/RS232	DC 5~36	4G full network	Positioning hole	4G DTU, positioning hole installation, support 4-way Socket, TCP/UDP/MQTT, support high-speed continuous transmission
E108-D01	RS485	DC 8~28		Rail installation Positioning hole	

#### 4G Cat1



## E840-DTU(EC05-485)E Europe, Asia

Transmission type: 4G Cat1 Operating voltage: DC 8~28V Interface type: RS485 Baud rate: 1200~460800bps

Functional features: Using a new generation of LoRa spread spectrum technology, the communication distance is longer and the anti-interference ability is stronger. It has obtained the model approval certificate from the "State Radio Administration" and has obtained the electrostatic discharge anti-interference level 4 and the fast transient anti-interference level 4. level, surge impact resistance level 3.

### 4G Cat-1



## E840-DTU(EC05-485) China, India

Transmission type: 4G Cat1 Operating voltage: DC 8-28V Interface type: RS485 Baud rate: 1200-230400bps

Functional features: Cost-effective 4G DTU, with small size, high speed, low latency, easy to use, simple configuration can realize serial device networking function (bidirectional transparent transmission between serial device and network server). Support guide rail and positioning hole installation, simple configuration can realize serial port networking process.

### 4G Cat4



E840-DTU(4G-04)



Transmission type: 4G/RS485 Working voltage: DC 8~28V

Interface type: RS485/RS232 Baud rate: 1200~921600bps (default 115200)

Functional features: 4G full Netcom, support TCP/UDP, MQTT protocol, can access the standard MQTT protocol platform.



E108-GN01



E108-D01

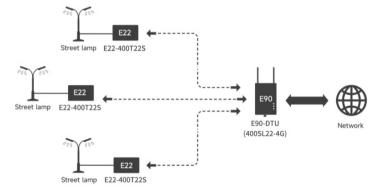
E108-D01

Transmission Type: RS485/TTL Working Voltage: DC 8~28V / 2.8V~4.3V Interface type: RS485/TTL baud rate: 1200~921600bps (default 115200)

Functional features: Support GPS/BDS/GLONASS/GALILEO and other multi-mode joint positioning, E108-D01 supports standard ModBus protocol. The E108 module has the characteristics of small size and low power consumption, and can be used in GNSS positioning applications such as vehicle navigation, smart wearables, and drones.

## Smart Gateway/Router

Routers can analyze the destination addresses of data packets from various types of networks, convert the addresses of non-TCP/IP networks into TCP/IP addresses, or vice versa; and then transmit each data packet to the designated location along the best route based on the selected routing algorithm. Therefore, routers can connect non-TCP/IP networks to the Internet.



#### Product Selection Table

Product Model	Product Type	Carrier frequency band	Transmit power	Communication distance	Operating voltage	Support Agreement
E90-DTU(400SL30-4G)-V2.0	4G Gateway	410.125~493.125	30	10	DC 8~28	Compatible with E22-400Txxx serial port modules and 400SL series DTU
E90-DTU(230SL30)E	Ethernet Gateway	220.125~236.125	30	10	DC 8~28	Compatible with E22-230Txxx serial port modules and 230SL series DTU
E90-DTU(400SL22)E	Ethernet Gateway	410.125~493.125	22	5	DC 8~28	Compatible with E22-400Txxx serial port modules and 400SL series DTU
E90-DTU(400SL30)E	Ethernet Gateway	410.125~493.125	30	10	DC 8~28	Compatible with E22-400Txxx serial port modules and 400SL series DTU
E90-DTU(900SL22)E	Ethernet Gateway	850.125~930.125	22	5	DC 8~28	Compatible with E22-900Txxx serial port modules and 900SL series DTU
E90-DTU(900SL30)E	Ethernet Gateway	850.125~930.125	30	10	DC 8~28	Compatible with E22-900Txxx serial port modules and 900SL series DTU
E90-DTU(433L30)E	Ethernet Gateway	410.000~441.000	30	10	DC 8~28	Compatible with E90-DTU L series DTU
E610-DTU(433C30)E	Ethernet Gateway	410.000~441.000	30	10	DC 8~28	Compatible with E610 series serial port modules and DTU

### **Smart Gateway**



### E90-DTU 4G Gateway

Interface type: 4G Frequency: 220.125~930.125MHz

Power: 30dBm Distance: 10km

Functional features: The gateway part has edge computing function, supports automatic polling, supports TCP/RTU protocol mutual conversion, supports storage gateway, configuration gateway, active reporting mode, supports TCP/UDP/MQTT/HTTP protocol; the wireless terminal supports remote Configuration, supports LBT, RSSI and other functions.

## Smart Gateway







E90-DTU(900SL22)E

## E90-DTU Ethernet Gateway

Interface type: RJ45 Frequency: 230/400/900MHz

Power: 22~30dBm Distance: 5~10km

Functional features: The gateway part has edge computing function, supports automatic polling, supports TCP/RTU protocol mutual conversion, supports storage gateway, configuration gateway, active reporting mode, supports TCP/UDP/MQTT/HTTP protocol; the wireless terminal supports remote Configuration, supports LBT, RSSI and other functions.



## **E610-DTU**

Transmission type: Ethernet

Data interface: RJ45

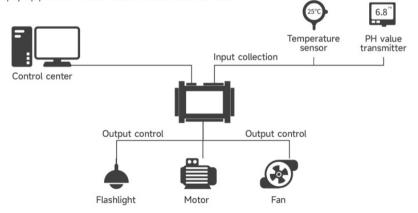
Transmission power: 30dBm

Communication distance: 10km

Functional features: E610-DTU (433C30) E is an Ethernet wireless gateway (Ethernet interface data transmission radio) supporting 10M/100M rate developed by Chengdu Ebyte based on wireless communication technology and Ethernet protocol. It supports 2-way sockets and provides six working modes: TCP Server, TCP Client, UDP Server, UDP Client, HTTP Client, and MQTT Client. It also supports 6-way client connections in TCP server mode.

## Acquisition control Remote I/O

The acquisition module converts the analog/digital signals of scattered on-site data points through AD conversion and then transmits them to the host through the RS485 bus or to the remote main site controlled by the PC. It is mainly used as data acquisition, control and display equipment for various measurement and control terminals.



#### Product selection table

Product Model	Button	Communication method	Voltage(V)	Switch input (DI)	Analog input (AI)	Switch output (DO)	Analog output (AO)	Product type
E860-DTU(8080-400SL)	Support	LoRa	DC 8~28	8	_	8	_	Wireless sync switch
E860-DTU(4040-400SL)	Support	LoRa	DC 8-28	4	_	4	7-	Wireless sync switch
E860-DTU(2020-400SL)	Support	LoRa	DC 8-28	2	_	2	_	Wireless sync switch
E860-DTU(8080-400SL)A	Support	LoRa	AC 85~265	8	-	8	7 -	Wireless sync switch
E860-DTU(4040-400SL)A	Support	LoRa	AC 85-265	4	-	4	7-	Wireless sync switch
E860-DTU(2020-400SL)A	Support	LoRa	AC 85-265	2	-	2	-	Wireless sync switch

Product Model	Communication interface	Voltage(V)	Switch input (DI)	Analog input (AI)	Switch output (DO)	Analog output (AO)	ModBus	Product type
MA01-AXCX4020	RS485	DC 8~28	4	-	2	-	Support	Serial IO
MA01-XACX0420	RS485	DC 8~28	1-	4	2	-	Support	Serial IO
MA01-AACX2220	RS485	DC 8~28	2	2	2	-	Support	Serial IO
MA01-AXCX4040	RS485	DC 8~28	4	-	4	-	Support	Serial IO
MA01-XACX0440	RS485	DC 8~28	1 - 1	4	4	-	Support	Serial IO
MA01-AACX2240	RS485	DC 8-28	2	2	4	-	Support	Serial IO
MA01-XXCX0080	RS485	DC 8~28	-	-	8	-	Support	Serial IO

47 EBYTE TECHNOLOGY 48

#### Product Selection Table

Product Model	Communication interface	OLED+ button	Working voltage(V)	Switch input (DI)	Analog Input (AI)	Switch output (DO)	Analog Output (AO)	ModBus	Product type
ME31-AXAX4040	RS485/Ethernet	Not supported	DC 8~28	4	-	4	-	Support	Ethernet IO
ME31-XAAX0440	RS485/Ethernet	Support	DC 8~28	-	4 (Current)	4	-	Support	Ethernet IO
ME31-XAXA0404	RS485/Ethernet	Support	DC 8~28	-	4 (Current)	-	4	Support	Ethernet IO
ME31-AAAX2240	RS485/Ethernet	Support	DC 8~28	2	2 (Current)	4	-	Support	Ethernet IO
ME31-AXXX8000	RS485/Ethernet	Support	DC 8~28	8	-	-	-	Support	Ethernet IO
ME31-XXAX0060	RS485/Ethernet	Support	DC 8~28		-,	6	-	Support	Ethernet IO
ME31-XAXX0600	RS485/Ethernet	Support	DC 8~28	-	6 (Current)		-	Support	Ethernet IO
ME31-XXXA0006	RS485/Ethernet	Support	DC 8~28	-	-	-	6	Support	Ethernet IO
ME31-AAAX4220	RS485/Ethernet	Support	DC 8~28	4	2 (Current)	2	-	Support	Ethernet IO
ME31-XDXX0400	RS485/Ethernet	Support	DC 8~28	7-2	4 (PT100 thermal resistor)	-	-	Support	Ethernet IO
ME31-XEXX0600	RS485/Ethernet	Support	DC 8~28	170	6(K-type thermocouple)	-	-	Support	Ethernet IO
ME31-XDXX0800-485	RS485	Not supported	DC 8~28	-	8 (PT100 thermal resistor)	-	-	Support	Serial IO
ME31-XEXX0800-485	RS485	Not supported	DC 8~28	-	8(K-type thermocouple)	-	-	Support	Serial IO

Product model	Communication interface	Working voltage(V)	Switch input (DI)	Analog Input (AI)	Switch output (DO)	Analog Output (AO)	ModBus	Product Type
M31-AAAX4440G	RS485 / Ethernet	DC 9~36	4	4 (Single-ended current)	4	-	Support	Communication interface Ether- net distributed IO host
M31-AXXX8000G	RS485 / Ethernet	DC 9~36	8	-	-	-	Support	Communication interface Ether- net distributed IO host
M31-XXAX0080G	RS485 / Ethernet	DC 9~36		-	8	-	Support	Communication interface Ether- net distributed IO host
M31-AXAX4040G	RS485 / Ethernet	DC 9~36	4	-	4	-	Support	Communication interface Ether- net distributed IO host
M31-AXXXA000G	RS485 / Ethernet	DC 9~36	16	-	-	-	Support	Communication interface Ether- net distributed IO host
M31-XXAX00A0G	RS485 /Ethernet	DC 9~36	7-7	-	16	-	Support	Communication interface Ether- net distributed IO host
M31-AXAX8080G	RS485 / Ethernet	DC 9~36	8	-	8	-	Support	Communication interface Ether- net distributed IO host
M31-XAXX0800G	RS485 / Ethernet	DC 9~36		8 (Single-ended current)	-	-	Support	Communication interface Ether- net distributed IO host
M31-XXXA0008G	RS485 /Ethernet	DC 9~36		-	-	8	Support	Communication interface Ether- net distributed IO host
M31-XAXA0404G	RS485 /Ethernet	DC 9~36	-	4 (Single-ended current)	2/	4	Support	Communication interface Ether- net distributed IO host
M31-XFXX0800G	RS485 / Ethernet	DC 9~36	-	4 (Single-ended current)	-	-	Support	Communication interface Ether- net distributed IO host
M31-XGXX0800G	RS485 / Ethernet	DC 9~36		8 (Differential Voltage)	-	-	Support	Communication interface Ether- net distributed IO host
M31-AXXX8000G-L	LoRa/RS485 / Ethernet	DC 9~36	8	-	-	-	Support	Wireless distributed IO host
M31-XAXX0800G-L	LoRa/RS485 / Ethernet	DC 9~36		8 (Single-end- ed current)	-	-	Support	Wireless distributed IO host
M31-XXAX0080G-L	LoRa/RS485 / Ethernet	DC 9~36	-	-	8	-	Support	Wireless distributed IO host
M31-XXXA0008G-L	LoRa/RS485 / Ethernet	DC 9~36	-	-	-	8	Support	Wireless distributed IO host
M31-AAAX4440G-L	LoRa/RS485 / Ethernet	DC 9~36	4	4 (Single-ended current)	4	2	Support	Wireless distributed IO host
M31-XAXA0404G-L	LoRa/RS485 / Ethernet	DC 9~36	-	4 (Single-ended current)	-	4	Support	Wireless distributed IO host
M31-AXAX8080G-L	LoRa/RS485 / Ethernet	DC 9~36	8	-	8	-	Support	Wireless distributed IO host
M31-AFAX4440G-U	RS485 / Ethernetx2	DC 9~36	4	4 (Single-ended current)	4	-	Support	High-performance Ethernet dis- tributed IO host
M31-AXAX8080G-U	RS485 / Ethernetx2	DC 9~36	8	-	8		Support	High-performance Ethernet dis- tributed IO host

#### Product Selection Table

Product model	Operating Voltage(V)	Switch Input (DI)	Analog Inputs (AI)	Switching Output (DO)	Analog Output (AO)	ModBus	Product type
GAAAX4440	DC 9~36	4	4 (Single-ended current)	4	-	Support	Distributed IO expansion module
GAXXX8000	DC 9~36	8	-	-	-	Support	Distributed IO expansion module
GXXAX0080	DC 9~36	-	-	8	15.	Support	Distributed IO expansion module
GAXAX4040	DC 9~36	4	-	4	-	Support	Distributed IO expansion module
GAXXXA000	DC 9~36	16	-		-	Support	Distributed IO expansion module
GXXAX00A0	DC 9~36	-	-	16	12	Support	Distributed IO expansion module
GAXAX8080	DC 9~36	8	-	8	-	Support	Distributed IO expansion module
GXAXX0800	DC 9~36	1-0	8 (Single-ended current)	-	-	Support	Distributed IO expansion module
GXXXA0008	DC 9~36	1-0	-	-	8	Support	Distributed IO expansion module
GXAXA0404	DC 9~36	-	4 (Single-ended current)	-	4	Support	Distributed IO expansion module
GXFXX0800	DC 9~36	-	8 (Differential Current)	-	-	Support	Distributed IO expansion module
GXGXX0800	DC 9~36	120	8 (Differential Voltage)	¥	-	Support	Distributed IO expansion module
GAFAX4440-U	DC 9~36	4	4 (Single-ended current)	4	-	Support	High-performance distribu ed IO expansion module
GAXAX8080G-U	DC 9~36	8	-	8	-	Support	High-performance distribu ed IO expansion module

### Ethernet IO







ME31-AXAX4040

ME31 series Analog/switch acquisition control

Control mode: Ethernet /RS485 Input type: analog/switching

Communication protocol: ModBus TCP/RTU Output type: analog/switching

Functional features: Support standard ModBus protocol network IO networking module, can be Ethernet /RS485 way to collect control commands, can be quickly configured by buttons and OLED screen, support guide buckle installation.

### Wireless sync switch



E860-DTU

### **E860-DTU** Switching quantity transmission

Transmission type: digital Transmission distance: 10km Interface type: RS485 Number of acquisition channels: 8

Functional features: LoRa wireless remote synchronous control, no wiring required, maximum communication distance 10km, support 1 to 1 and 1 to many modes, support multi-channel switch input, multi-channel relay output; support standard 35mm rail installation.

### Serial 10

8D0



### MA Series Analog/switch quantity acquisition control

Acquisition type: analog/switch

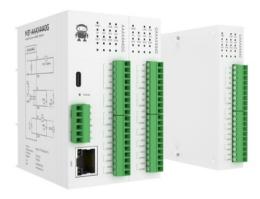
Number of acquisition channels: 2~4 channels

IInterface type: RS485 Control channels: 2~8 channels

Functional features: With power reverse connection protection, support ModBus protocol, built-in watchdog. Convert the analog/switch signals of scattered field data points into RS485 communication standard, transmit to the host or control the remote master site by PC.

53 EBYTE TECHNOLOGY 54

### Ethernet distributed IO



Host model: Expansion module model: M31-AAAX4440G GAAAX4440 M31-AXXX8000G GAXXX8000 M31-XXAX0080G GXXAX0080 M31-AXAX4040G GAXAX4040 M31-AXXXA000G GAXXXA000 M31-XXAX00A0G GXXAX00A0 M31-AXAX8080G GAXAX8080 M31-XAXX0800G GXAXX0800 M31-XXXA0008G GXXXA0008 M31-XAXA0404G GXAXA0404 M31-XFXX0800G GXFXX0800 M31-XGXX0800G GXGXX0800

## M31 Series Ethernet distributed IO

Communication interface: RS485/network port Working voltage: DC9~36V

Baud rate: 9600bps (optional) Communication protocol: standard ModBus TCP, Modbus RTU protocol

Functional features: Support standard ModBus, Ethernet and RS485 dual control acquisition; wet node (NPN/PNP) input, 0-20mA/4-20mA analog input, relay output; adopts expandable design, can connect up to 16 IO expansion modules.

### Wireless Distributed IO



Product model: M31-AXXX8000G-L M31-XAXX0800G-L M31-XXAX0080G-L M31-XXXA0008G-L M31-AAAX4440G-L

M31-XAXA0404G-L

M31-AXAX8080G-L

## M31 Series Wireless Distributed IO

Communication interface: LoRa/RS485/Ethernet port Working voltage: DC9~36V

Baud rate: 9600bps (optional) Communication protocol: Standard ModBus TCP, Modbus RTU protocol

Functional features: Supports LoRa wireless transmission in the 433MHz free frequency band, with a maximum transmission distance of 10km, and supports arbitrary combinations of switch input and output, analog input and output. Adopts an expandable design, and can connect up to 16 IO expansion modules. Can be used with wireless data transmission radio.

## High-performance Ethernet distributed IO



Host model:

M31-AFAX4440G-U M31-AXAX8080G-U

Expansion Module Model: GAFAX4440-U GAXAX8080-U

### M31 Series High-performance Ethernet distributed IO

communication interface: RS485/Ethernet port Wor

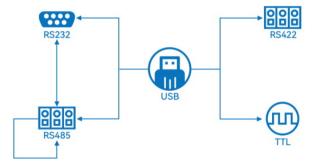
Working voltage: DC 9~36V

Baud rate: 9600bps (optional) Communication protocol: ModBus RTU, ModBus TCP

Functional features: High-performance distributed IO, faster polling cycle, more powerful performance; support standard ModBus, Ethernet and RS485 dual acquisition control; wet node (NPN, PNP) input, support counting function; differential current (0-20/4-20-mA) input, accuracy can reach 1/1000; relay output, support device communication interruption output reset; scalable design, can connect up to 16 IO expansion modules (including the host itself); CE certification standards.

## **Industrial Converters**

Industrial converters are devices that convert various bus signals. Users do not need to care about the internal conversion process. They only need to make simple connections to achieve data communication of different industrial bus types without changing the original message. They are widely used in equipment debugging and data conversion between different buses.



#### Product selection table

Product Model	Category	Data interface 1	Data interface 2	Number of input channels	Number of input channels	Chip Solution	Baud rate(bps)	Isola- tion	Installation
E810-RS-U01	USB to serial port	USB	RS485/RS232	1	1	CH340	RS485:300~460800	-	
E810-U15M	USB to serial port	USB	RS485/TTL	1	1	FT232-HL	RS485/TTL:110~12M	-	-
E810-U15	USB to serial port	USB	RS485/232/422、3.3/5V TTL	1	1	FT232-RL	RS485/422、TTL:300~1M	√	Guide rail + positioning hole
E810-U15C	USB to serial port	USB	RS485/232/422、3.3/5V TTL	1	1	CH340	RS485/422、TTL:300~460800	√	Guide rail + positioning hole
E810-U15H	USB to serial port	USB	RS485/232/422、3.3/5V TTL	1	1	FT232-HL	RS485/422、TTL:110~12M	√	Guide rail + positioning hole
E810-U21	USB to serial port	USB	RS485	1	2	FT2232H	RS485:300~12M	√	Guide rail + positioning hole
E810-U21S	USB to serial port	USB	RS485	1	2	FT2232H	RS485:300~12M	-	Guide rail + positioning hole
E810-U21C	USB to serial port	USB	RS485	1	2	CH342F	RS485:300~3M	√	Guide rail + positioning hole
E810-U21CS	USB to serial port	USB	RS485	1	2	CH342F	RS485:300~3M	-	Guide rail + positioning hole
E810-U41	USB to serial port	USB	RS485	1	4	FT4232H	RS485:300~12M	√	Guide rail + positioning hole
E810-U41S	USB to serial port	USB	RS485	1	4	FT4232H	RS485:300~12M	-	Guide rail + positioning hole
E810-U41C	USB to serial port	USB	RS485	1	4	CH344Q	RS485:1200~6M	√	Guide rail + positioning hole
E810-U41CS	USB to serial port	USB	RS485	1	4	CH344Q	RS485:1200~6M	-	Guide rail + positioning hole
E810-R11	RS485 repeater	RS485	RS485	1	1	-	300~230400	√	Guide rail + positioning hole
E810-R11M	RS485 repeater	RS485	RS485	1	1	-	300~230400	√	Guide rail + positioning hole
E810-R12	RS485 repeater	RS485	RS485	1	2	-	300~230400	√	Guide rail + positioning hole
E810-R12M	RS485 repeater	RS485	RS485	1	2		300~230400	√	Guide rail + positioning hole
E810-R14	RS485 repeater	RS485	RS485	1	4	-	300~230400	√	Guide rail + positioning hole
E810-R18	RS485 repeater	RS485	RS485	1	8		300~230400	√	Guide rail + positioning hole
E810-R21	RS485 hub	RS485	RS485	2	1	-	1200~115200	√	Guide rail + positioning hole
E810-R41	RS485 hub	RS485	RS485	4	1	-	1200~115200	√	Guide rail + positioning hole
E810-Z01	RS232 to RS485	RS232	RS485	1	1	-	300~460800	√	Guide rail + positioning hole
E810-Z01M	RS232 to RS485	RS232	RS485	1	1	-	300~460800	√	Guide rail + positioning hole

#### Industrial Converters









E810-U15M

### USB to serial port E810 high speed series

Chip solution: FT232H

Communication interface: RS485/232/422, TTL

Communication rate: 110~12Mbps

Installation method: positioning hole + guide rail installation

Functional features: FTDI imported solution, high speed, low bit error rate, 2500V electromagnetic isolation between input and output ends, and EMC3 level protection ensure reliable operation of the equipment.



### Industrial Converters



E810 repeater 485 hub

Expansion channels: 1/2/4/8 channels Communication interface: RS485 Communication rate: 300~230400bps

Installation method: positioning hole + guide rail installation

Functional features: It adopts 485 automatic flow control circuit solution, a purely domestic solution, which is independently controllable. The input and output ends are 2500V electromagnetic isolation, and EMC3 level protection ensures reliable operation of the equipment.







#### USB to serial port E810 domestic series

Chip solution: CH340/CH344Q Communication interface: RS485/232/422, TTL Communication rate: RS485/422

TTL:300~460800/1200~6Mbps RS232:300~230400bps

Functional features: Adopting domestic solutions, independent control, 2500V electromagnetic isolation between input and output ends, and EMC3 level protection to ensure reliable operation of the equipment.

#### Industrial Converters





E810-R41

## E810 Cache Hub 485 Hub

Number of lines: 2/4
Communication rate: 1200~115200bps

Communication interface: RS485
Installation method: Positioning hole+guide rail installation

Functional features: It adopts chip pin enable, purely domestic solution, self-controllable, independent cache for each link, stable operation without packet loss. 2500V electromagnetic isolation between input and output, EMC3 level protection ensures reliable operation of the equipment.

#### Industrial Converters





E810-Z01M

E810-Z01

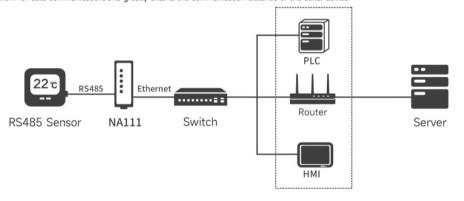
**E810** RS232 to RS485

Communication interface 1: RS232 Communication rate: 300~460800bps Communication interface 2: RS485 Installation method: Positioning hole+guide rail installation

Functional features: Automatic flow control circuit, purely domestic solution, independent and controllable. 2500V electromagnetic isolation between input and output, EMC3 level protection ensures reliable operation of the equipment.

## **Serial Device Server**

The serial device server provides the function of serial port to network, which can convert RS485/RS232/RS422 serial port into TCP/IP network interface, and realize the two-way transparent transmission of data between RS485/RS232/RS422 serial port and TCP/IP network interface. It enables the serial device to immediately have the TCP/IP network interface function, connect to the network for data communication, and greatly extend the communication distance of the serial device.



#### Product selection table

Product model	Transmission Type	Serial port type	Operating voltage(V)	Installation	POE	Isolation	switch	Features
NA111	Single Serial Port Server	RS485	DC 8~28	Guide rail	-	-	-	10M Ethernet
NA111-A	Single Serial Port Server	RS485	AC 85~265	Guide rail	-	-	-	10M Ethernet
NA111-E	Single Serial Port Server	RS485	DC 8~28	Guide rail	√	-	-	10M Ethernet
NA111-M	Single Serial Port Server	RS485	DC 8~28	Guide rail+ positioning hole	-		-	10M Ethernet
NB114	Single Serial Port Server	RS485/232/422	DC 8~28	positioning hole	-	1-1	-	10M Ethernet
NB124	Dual Serial Port Server	RS485/232/422	DC 8~28	positioning hole	-	√	-	10M Ethernet
NB124E	Dual Serial Port Server	RS485/232/422	DC 8~28	positioning hole	√	√	-	10M Ethernet
NB124S	Dual Serial Port Server	RS485/232/422	DC 8~28	positioning hole	-	1-0	-	10M Ethernet
NB124ES	Dual Serial Port Server	RS485/232/422	DC 8~28	positioning hole	<b>√</b>		-	10M Ethernet
NB144	4 Serial Port Server	RS485/232/422	DC 8~28	positioning hole	-	√	-	10M Ethernet
NB144E	4 Serial Port Server	RS485/232/422	DC 8~28	positioning hole	√	√	-	10M Ethernet
NB144S	4 Serial Port Server	RS485/232/422	DC 8~28	positioning hole	-			10M Ethernet
NB144ES	4 Serial Port Server	RS485/232/422	DC 8~28	positioning hole	√	37.0	-	10M Ethernet
NB183	8 Serial Port Server	RS485/232	DC 8~28	positioning hole	-	<b>√</b>		10M Ethernet
NB183S	8 Serial Port Server	RS485/232	DC 8~28	positioning hole	-	- :	-	10M Ethernet
NB1A1	16 Serial Port Server	RS485	DC 8~28	positioning hole	<b>√</b>	✓	√	10M Ethernel
NA611	Dual-band WiFi serial port server	RS485	DC 8~28	Guide rail	-	-	-	2.4G/5G WiF
NA611-A	Dual-band WiFi serial port server	RS485	DC 8~28	Guide rail	-		-	2.4G/5G WiF
NA611-S	WiFi Serial Device Server	RS485	DC 8~28	Guide rail	-		-	2.4G WiFi
NA611-SA	WiFi Serial Device Server	RS485	DC 8~28	Guide rail	-	-	-	2.4G WiFi

67 ERVTE TECHNOLOGY FBYTE TECHNOLOGY 68

#### Product selection table

Product model	Transmission Type	Serial port type	Operating voltage(V)	Installation	POE	Isolation		
NE2-D11	High performance single serial port	RS485	DC 8~28	Guide rail+ positioning hole	-	-	-	
NE2-D11P	High performance single serial port	RS485	DC 8~28	Guide rail+ positioning hole	1-1	√	-	
NE2-D11E	High performance single serial port	RS485	DC 8~28	Guide rail	√	-	-	
NEZ-DIIA single serial p	High performance single serial port	RS485	AC 85~265	Guide rail	121	-	-	
	High performance single serial port	RS232	DC 8~28	Guide rail+ positioning hole	-	-	-	
NE2-D12P	NE2-D12P High performance single serial port	RS232	DC 8~28	Guide rail+ positioning hole	6.7%	√	-	10/100M Ethernet SSL certificate
NE2-D12E	High performance single serial port	RS232	DC 8~28	Guide rail	√	-	-	encryption, 2-way Socket
NE2-D14	High performance single serial port	RS485/232/422	DC 8~28	Positioning hole	(-)	-	-	ė.
NE2-D14E	High performance single serial port	RS485/232/422	DC 8~28	Positioning hole	<b>√</b>	-	-	
NE2-D14P	High performance single serial port	RS485/232/422	DC 8~28	Positioning hole	- 2	√	-	
NE2-D14PE	High performance single serial port	RS485/232/422	DC 8~28	Positioning hole	√	<b>√</b>	-	
NE2-H14	High performance single serial port	RS485/232/422	DC 8~28	Positioning hole	-	-	<b>√</b>	
NE2-H14P	High performance single serial port	RS485/232/422	DC 8-28	Positioning hole	-	<b>√</b>	√	

Data Transfer Unit NE2-D14

NE2-D14



**NE2-D14** 

Power supply voltage: DC 8~28V Serial interface: RS485/232/422

Network interface: RJ45

Installation method: Positioning hole

Functional features: It has three serial port standards: RS485/232/422, which is used to realize two-way transparent transmission of data from the serial port to the Ethernet port. It has multiple ModBus gateway modes and MQTTC/HTTPC IoT gateway modes, which can meet the networking functions of various serial port devices/PLCs.



NE2-H14

Chip solution: CC3235S Dual Ethernet ports

NE2-H14

Wi-Fi frequency band: 2.4G/5.8G

Communication interface: RS485

Communication protocol: 802.11 a/b/g/n

Functional features: It has three serial port standards: RS485/232/422, and dual network port design, which is used to realize two-way transparent transmission of data from serial port to Ethernet port. It has multiple ModBus gateway modes and MQTTC/HTTPC IoT gateway modes, which can meet the networking functions of various serial port devices/PLCs.

### Serial Device Server





NA611 WiFi Serial Device Server

Chip solution: CC3235S Communication protocol: 802.11 a/b/g/n

Communication interface: RS485 Wi-Fi frequency band: 2.4G/5.8G

Functional features: NA611 is a high-performance, highly reliable dual-band Wi-Fi serial port server (RS485-Wi-Fi). It enables RS485 data to interact with device networking data via Wi-Fi.

### Serial Port Server





NA611-S Wi-Fi Serial port server

Antenna interface: SMA-K

Communication protocol: 802.11b/g/n

Communication interface: RJ45

Wi-Fi frequency band: 2.4G

Functional features: NA611-S is a cost-effective Wi-Fi serial port server that can realize data interaction between RS485 data and the server via Wi-Fi.

### Serial Port Server



### NA111-A Serial Port Server

Power Supply Voltage: DC 8~28V Serial Interface: RS485/RS232/RS422

Network Interface: RJ45 Installation: Positioning Hole

Functional features: NA111-A is a serial port server that realizes bidirectional transparent transmission of serial Ethernet data, supports ModBus gateway function, supports MQTT, and supports AC power supply.

### Serial Device Server



### NA111 Serial Device Server

Power supply voltage: DC 8~28V Serial port: RS485

Network interface: RJ45 Installation mode: guide rail installation

Functional features: NA111 is a serial port server that realizes bidirectional transparent transmission of serial Ethernet data, supports ModBus gateway function, and supports MQTT.

### Serial Device Server





### Serial Device Server



NB114

## NB124/NB144 Serial Device Server

Power Supply Voltage: DC 8~28V Serial Interface: RS485/RS232/RS422

Network Interface: RJ45 Installation: Positioning Hole

Functional features: NB124/NB144 is a serial port server that realizes bidirectional transparent transmission of serial port - Ethernet data, supports ModBus gateway function, supports MQTT, and supports RS485/RS232/RS422 full terminal interface.

# NB114 Serial Device Server

Power Supply Voltage: DC 8~28V Serial Interface: RS485/RS232/RS422

Network Interface: RJ45 Installation: Positioning Hole

Functional features: NB114 is a serial port server that realizes serial port data 

Ethernet data conversion. The product comes with an RJ45 Ethernet interface and is installed with a positioning hole. It has a variety of Modbus gateway modes to meet the networking functions of various serial port devices/PLCs.

### Serial Device Server



NB183

## NB183 Serial Device Server

Power supply voltage: DC 8~28V Serial interface: RS485/RS232

Network port: RJ45 Installation mode: positioning hole

Functional features: NB183 is an eight-serial port server that realizes bidirectional transparent transmission of serial Ethernet data, supports ModBus gateway function, and supports MQTT.

### Serial Device Server



# NB1A1 Serial Device Server

Power supply voltage: DC 8-28V Serial port: RS485

Network interface: RJ45 Installation mode: guide rail installation

Functional features: NB1A1 can realize bidirectional transparent transmission of data from 16 serial ports to Ethernet ports. Support ModBus protocol conversion, multi-host gateway, storage gateway and other data conversion functions. At the same time, it also supports the upload of on-site data to the cloud server to achieve cloud monitoring.

### Serial Device Server



### NE2-D11 Serial Device Server

Power supply voltage: DC 8~28V Serial port: RS485

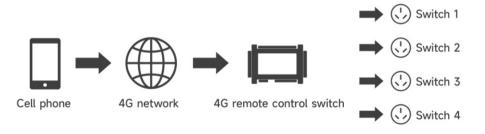
Network interface: RJ45 Installation mode: guide rail installation

Functional features: The NE2-D11 single-serial port server is used to implement bidirectional transparent data transmission from the RS485 serial port to the Ethernet port. It has a variety of ModBus gateway modes and MQTTC/HTTPC iot gateway modes, which can meet the networking functions of various serial devices/PLCS.

79 EBYTE TECHNOLOGY 80

# Wireless remote control switch

The use of mobile phones, remote control and other equipment to realize remote control relay on and off and collect field signals to achieve remote control and monitoring. The mobile phone can view and control the device anytime and anywhere. It has been applied to smart agriculture, smart industry, and smart fishery.



Product model	Operating voltage	Maximum load current (V)	Antenna interface	Analog input	Digital input	Output channels	Output method	Current Sensing	Mobile phone control	Button control	Remote control
CE31-K01	AC 85~265	63	Onboard	0	0	1	Comminicate	√	<b>√</b>	√	×
CE31-K01T	AC 85~265	63	SMA	0	0	1	Comminicate	√	✓	√	×
CE31-K02	AC 85~265	63	Onboard	0	0	1	Comminicate	√	√	√	×
CE31-K02T	AC 85~265	63	SMA	0	0	1	Comminicate	√	<b>√</b>	√	×
CE31-S01	AC 85~265	10	Onboard	0	0	1	Relay	×	√	×	×
CE31-S01T	AC 85~265	10	SMA	0	0	1	Relay	×	√	×	×
CE31-S01A	AC 85~265	10	Onboard	0	0	1	Comminicate	×	√	×	×
CE31-S01AT	AC 85~265	10	SMA	0	0	1	Comminicate	×	√	×	×
CE31-SD02	DC 5~28	2	Onboard	0	0	2	Relay	×	√	×	×
CE31-SD01T	DC 5~28	6	SMA	0	0	1	Relay	×	√	√	×
CE31-M01	AC 85~250	5	Onboard	0	0	1	Relay	×	<b>√</b>	×	×
CE31-M01A	AC 85~250	5	Onboard	0	0	1	Comminicate	×	<b>√</b>	×	×
CE31-MD01	DC 5~28	5	Onboard	0	0	1	Relay	×	√	×	×
CE31-J01	AC 100~250	10	Onboard	0	0	1	Relay	×	<b>√</b>	√	×
CE31-J01A	AC 100~250	10	Onboard	0	0	1	Comminicate	×	<b>√</b>	√	×

81 ERVTE TECHNOLOGY **FBYTE TECHNOLOGY 82** 

#### Product selection table

Product model	Operating voltage(V)	Maximum load current(A)	Antenna interface	Analog input	Digital input	Output channels	Output method	Current Sensing	Mobile phone control	Button control	Remote control
CE31-B01A	AC 85~265	30	Onboard	0	0	1	Comminicate	×	√	√	×
CE31-B01AT	AC 85~265	30	SMA	0	0	1	Comminicate	×	√	√	×
CE31-B01R	AC 85~265	10	SMA	0	0	1	Relay	×	√	<b>√</b>	√
CE31-B02R	AC 85~265	10	SMA	0	0	2	Relay	×	√	√	√
CE31-B04R	AC 85~265	10	SMA	0	0	4	Relay	×	√	√	√
CE31-BD01R	DC 8~28	10	SMA	0	0	1	Relay	×	√	<b>√</b>	√
CE31-BD02R	DC 8~28	10	SMA	0	0	2	Relay	×	√	<b>√</b>	√
CE31-BD04R	DC 8~28	10	SMA	0	0	4	Relay	×	√	✓	√
CE31-B22	AC 85~265	7	SMA	0	2	2	Relay	×	√	×	×
CE31-BD22	DC 8~28	7	SMA	0	2	2	Relay	×	√	×	×
CE31-02R-V2	AC 85~265	30	SMA	0	0	2	Relay	×	√	√	√
CE31-04R-V2	AC 85~265	30	SMA	0	0	4	Relay	×	√	√	√
CE31-08R	AC 85~265	10	SMA	0	0	8	Relay	×	√	✓	√
CE31-44R	AC 85~265	10	SMA	0	4	4	Relay	×	√	<b>√</b>	√
CE31-242R	AC 85~265	10	SMA	2	4	2	Relay	×	√	<b>√</b>	√
CE31-TD04	DC 4.6~9	-	IPEX	0	4	4	Open collector drain	×	√	×	×
CE31-C01P	AC 100~265	10	Onboard	0	0	1	Comminicate	√	√	√	×



CE31-B04R

#### Standard EDITION

Transmission mode: wireless transmission

Control distance: Unlimited distance (mobile APP)/4km(remote control)

Operating voltage: AC 85~265V/DC 8~28V CE31-BxxR Control mode: mobile APP/remote control/local button/Tmall Genie

Functional features: Support a variety of control, support multiple switch output, each switch output supports a maximum of 1kW power load. Has self-locking/point-moving/interlocking mode. Support multiple remote control, support multiple simultaneous click. Support automatic control function, can share

multi-person control, support timing and other functions.



CE31-C01P

4G mobile remote control switch

Transmission mode: Relay switch

Control distance: Unlimited distance (mobile APP)

Operating voltage: AC 100-250V

CE31-C series Control mode: mobile APP/ local button/Tmall Genie

Functional features: Using industrial design standards, based on Alibaba Cloud platform, remote control switch through 4G mobile phone, real-time display of the corresponding data on the phone. It has the advantages of low delay, fast response, simple operation and stable control. Capable of carrying resistive loads of 2500W, the current collection version supports current overload protection, over and under voltage protection and other protection functions.

83 ERVTE TECHNIQUOSV FBYTE TECHNOLOGY 84

### Wireless remote control switch



CE31-J series

# 4G mobile cloud intelligent remote control switch Transmission

type: 4G network Working voltage: AC 85~265V Control distance: unlimited distance (mobile phone APP) Control method: mobile phone APP/local button/Tmall Genie

Functional features: Based on Alibaba Cloud platform, it transmits signals through 4G network, with low latency, fast response and unlimited distance. It comes with a data card and can be used for free for life. It supports different types of switch outputs, and each switch output supports a maximum load of 1kW. It supports sharing function and can realize multi-person control.

### Wireless remote control switch





CE31-K series 4G mobile remote control switch

Transmission type: 4G network Operating voltage: AC 85~265V Control distance: unlimited distance (mobile APP) Control mode: mobile APP/ local button/Tmall Wizard

Functional features: Based on Alibaba Cloud platform, remote control switch through mobile phone, support AC 85-265V working voltage, maximum support 63A current, can carry 14000W resistive load, 6500W inductive load, with current protection, overvoltage/undervoltage protection, short circuit protection, reclosing and other protection functions.

85 ERVTE TECHNIQUOSY FRYTE TECHNOLOGY 86

### Wireless remote control switch



CE31-MD01

4G Mobile Cloud Intelligent Remote Control Switch

CE31-M series

Transmission Type: 4G Network

Working Voltage: AC 85~250V/DC 5~28V

Control Distance: Unlimited Distance (Mobile APP)

Control Method: Mobile APP/Tmall Genie

Functional features: CE31-M series supports remote control of relay switch output via mobile phone APP. Supports AC/DC power supply, supports 1 switch output (relay output) port, and has 220V AC output version.



CE31-S01/CE31-S01T CE31-SD02 CE31-SD017

4G Mobile Cloud Intelligent Remote Control Switch

**CE31-S** 

Transmission type: 4G network

Working voltage: AC 85~265V/DC 5~28V

Control distance: unlimited distance (mobile phone APP)

Control method: mobile phone APP/local button/Tmall Genie

Functional features: CE31-S series supports mobile phone APP remote control relay switch output. Supports AC 85~265V power supply, supports 1 dry contact output (relay output) or 1 wet contact output (220V AC output) port.

### Wireless remote control switch



CE31<sub>series</sub>

Flagship Edition

CE31-04R

Transmission mode: wireless transmission

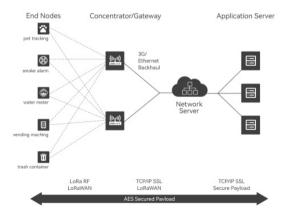
Working voltage: AC 85~265V Control distance: unlimited distance (mobile phone APP) / 4km (remote control)

Control mode: mobile phone APP/remote control/local button/Tmall Genie

Functional features: It adopts industrial standard design, based on Alibaba Cloud platform, transmits through 4G network signal/wireless superheterodyne transmission, has built-in temperature and humidity detection, power failure alarm, low latency, fast response, and mobile phone APP control without distance limit. It comes with a data card, which users can use for free for life.

# LoRaWAN

The LoRaWAN network consists of nodes, gateway network servers, and APP servers. Through the node access to the gateway, the gateway can upload data to the remote server, realizing the entire process of uploading terminal data to the server.



Product model	Transmission type	Transmission type(MHz)	Power(dBm)	Operating voltage(V)	Device type
E870-L470LG11	Full-duplex LoRaWAN Gateway	470~510	27	DC 8~28	Support 4G/Ethernet network supply, support CN470 regional files
E870-L470LG12	Full-duplex LoRaWAN Gateway	470~510	27	DC 8~28	Support Ethernet network, support CN470 regional files
E870-L868LG12	Half-duplex LoRaWAN Gateway	850~925	27	DC 8~28	Support Ethernet network, support EU868, RU864, IN865 regional files
E870-L915LG12	Half-duplex LoRaWAN Gateway	850~925	27	DC 8-28	Support Ethernet network, support US915, AU915, AS923, KR920 regional files

LoRaWAN



E870-Lseries LoRaWAN gateway

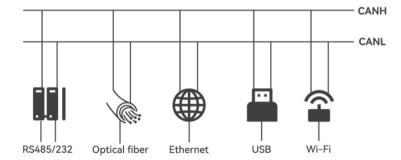
Network access mechanism: 4G+Ethernet Communication distance: 3km

Chip solution: SX1302 Working frequency band: CN470/EU868,IN865,RU864/US915,AU915,AS923,KR920

Functional features: Adopt SX1302 chip solution, hardware full-duplex design, built-in PA+LNA, guide rail + positioning hole installation method.

# CAN

CAN device protocol converter provides CAN2.0 protocol conversion to RS485/RS232, optical fiber, USB, Ethernet, WiFi and other types of data. It has the characteristics of fast transmission speed, strong anti-interference ability, support for multi-channel concurrency, etc. It is widely used in industrial ready-made control, automobile manufacturing, medical electronics and other industries.



Product model	Communication interface	CAN channels	Isolation	Functional characteristics
ECAN-U01	CAN to USB	DC 8~28/Type-B	√	Desktop analyzer, compatible with CAN2.0A/B protocol; supports CANID filtering; message storage; 2 CAN interfaces, 1 USB interface, DC socket power supply and
ECAN-U01S	CAN to USB	DC 8~28/Type-B	×	Type-B interface power supply.
ECAN-U01M	CAN to USB	Type-C	√	Small size rail-mounted analyzer, compatible with CAN2.0A/B protocol; supports CANID filtering; message storage; 2 CAN interfaces, 1 USB interface, and Type-C
ECAN-U01MS	CAN to USB	Type-C	×	interface for power supply.
ECAN-E01	CAN to Ethernet	DC 8~28	<b>√</b>	Desktop converter, with internal integration of 2 CAN-bus interfaces and 1 10M EtherNet interface, supports TCP/UDP protocol; compatible with CAN2.0A/B
ECAN-E01S	CAN to Ethernet	DC 8~28	×	protocol; supports CANID software filtering and hardware filtering.
ECAN-E02	CAN to Ethernet	DC 8~28	<b>√</b>	The small-size DIN-rail converter integrates 1 CAN-Bus interface and 1 10M/100M EtherNet interface, supports TCP/UDP protocol; is compatible with CANZ.0A/B protocol; supports CANID software filtering and hardware filtering.
ECAN-401	CAN to RS485/RS232/RS422	DC 8~28	<b>√</b>	Adam shell; five data conversion modes: transparent conversion, transparent conversion with identification, protocol conversion, ModBusRTU conversion, and user-defined (user);
ECAN-401S	CAN to RS485/RS232/RS422	DC 8~28	×	compatible with CAN2.0A/B protocol; supports CANID software filtering, which can be configured by host computer or serial port AT command.
ECAN-S01	CAN to TTL	DC 2.3~5.5	-	CAN to TTL module, transparent transmission, protocol conversion, transparent conversion with identification, custom protocol conversion, ModBus conversion, compatible with
ECAN-S01-TB	CAN to TTL	Micro USB	-	CAN2.0 A/B, support CANID software filtering, ECAN-S01-TB is the test kit of ECAN-S01, MicroUSB 5V power supply.
ECAN-101	CAN to RS485	DC 8~28	-	CAN to RS485, guide rail + positioning hole installation, five data conversion modes, CAN 2.0 A/B, CANID filtering, host computer/AT command configuration.
ECAN-W01	CAN to Wi-Fi	DC 8~28	<b>√</b>	2.4G Wi-Fi frequency band; metal housing; internally integrated with 2 CAN-bus interfac-
ECAN-W01S	CAN to Wi-Fi	DC 8~28	×	es and 1 EtherNet interface, supporting TCP/UDP protocol; compatible with CAN2.0A/B protocol; supporting CANID software filtering and hardware filtering.

### CAN

# CAN

ECAN-E01





401S ECAN-401



## ECAN CAN<=>Serial port

Communication interface: CAN

Communication interface: RS485/RS232/RS422

Working voltage: DC 8-28V

Installation method: guide rail installation

Functional features: CAN to serial protocol converter, using RS485/RS232/RS422 full terminal interface, Adam shell design, using high protection electrical isolation, industrial standards.

# **ECAN** CAN<=>Ethernet

Communication interface: CAN Communication interface: Ethernet

Operating voltage: DC 8 to 28V Installation method: Installation through positioning holes

ECAN-E01S

Functional features: CAN to Ethernet protocol converter, using RJ45 Ethernet interface, to realize the whole process of CAN bus data upload server, aluminum shell design, using high protection electrical isolation, industrial standards.

CAN



ECAN CAN<=>USB

Communication interface: CAN Communication interface: USB

Working voltage: DC 8~28V Installation: portable

Functional features: ECAN-U01 is a high-performance CAN-bus communication analyzer with integrated 2-way CAN interface. The analyzer is compatible with USB2.0 bus full-speed specification. The PC can be quickly connected to the CAN-bus network through the USB interface, forming a CAN-bus network control node for data processing and data acquisition in CAN-bus network fields such as fieldbus laboratories, industrial control, smart communities, and automotive electronic networks.

CAN





Communication interface: CAN

Communication interface: Wi-Fi

Operating voltage: DC 8 to 28V Installation method: Installation through positioning holes

Functional features: CAN to Wi-Fi, 2.4GWi-Fi band; Metal shell; Internal integration of 2 CAN-bus interfaces, 1 EtherNet interface, support TCP/UDP protocol, CAN interface communication isolation; Compatible with CAN 2.0A /B protocol; Supports CANID software filtering and hardware filtering.





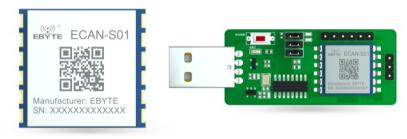
ECAN CAN<=>RS485

Communication interface: CAN Communication interface: RS485

Working voltage: DC 8~28V Installation: portable

Functional features: transparent conversion, transparent tape identification conversion, protocol conversion, Modbus RTU conversion, custom (user) five data conversion modes. Communication port isolation; Compatible with CAN 2.0A /B protocol; Support CANID software filtering, can be configured on the host computer or serial port AT command configuration.

### CAN



ECAN-S01 ECAN-S01-TB

## ECAN CAN<=>TTL

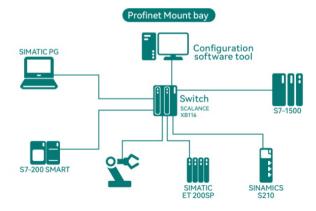
Communication interface: CAN Communication interface: TTL

Working voltage: DC 2.3~5.5V Installation mode: SMT

Functional features: ECAN-S01 is a small intelligent protocol conversion module independently developed by EBAite. The product CAN realize bidirectional conversion of data between CAN and TTL. ECAN-S01 intelligent protocol converter has the characteristics of small size and easy installation, which has a high cost performance in CAN-BUS product development and data analysis applications, and is a reliable assistant for engineering applications, project debugging and product development.

# Profinet

Profinet is an automation bus standard based on industrial Ethernet. It integrates Ethernet communication technology with the needs of the automation field. It has the advantages of strong real-time performance, fast transmission speed, and good compatibility. It can efficiently connect various industrial equipment and realize precise collaborative control of automation systems.



Product model	Communication interface	Operating voltage(V)	Functional characteristics	Product type	
PN1-D25P	RS485/RS422/Ethernet	DC 8~28	Profinet and ModBus RTU protocol conversion	Profinet Gateway	
PN1-D25PH	RS485/RS422/Ethernetx2	DC 8~28	Profinet and ModBus RTU protocol conversion, support switch function	Profinet Gateway	
PN1-S25	TTL	DC 3.3	Profinet and ModBus RTU protocol conversion	Profinet Gateway module	
PN1-S25-TB	RS485×2/RJ45/Tpye-C	DC 5	Profinet and ModBus RTU protocol conversion	Profinet Gateway Module Test Suite	

Product model	Communication interface	Operating voltage(V)	Switch input(DI)	Analog input(Al)	Switching output(DO)	Analog output(AO)	agreement	Product type
P31-AFAX4440G-U	RS485 / Ethernetx2	DC 9~36	4	4 Single- ended current	4		Profine	Profinet Distributed IO Master
P31-AXAX8080G-U	RS485 / Ethernetx2	DC 9~36	8	Differential Current	8		Profine	Profinet Distributed IO Master
GAFAX4440-U	-	DC 9~36	4	4 Single- ended current	4		-	High-performance distributed IO expansion module
GAXAX8080-U	-	DC 9~36	8	Differential Current	8		-	High-performance distributed IO expansion module

# Profinet







PN1-D25PH







**Profinet** 

P31-AFAX4440G-U

### Profinet Gateway

Communication interface: Ethernet port x2+RS485+RS422

Working voltage: DC 8~28V

Protocol type: Profinet/ModBus

Installation method: DIN rail installation

Functional features: Profinet and Modbus RTU protocol conversion; support Siemens PLC 200/300/1200/1500 full series, support Botu/SETP 7 host computer configuration; can be used as Modbus RTU slave or Modbus RTU master; dual network port 10/100M adaptive, support switch function; meet CE certification standards.

## Profinet Remote IO

IO type: switch input and output, analog input and output

Communication interface: RS485+network port\*2

Protocol type: Profinet/ModBus

Installation method: rail installation

Functional features: Supports the full range of Siemens PLC 200/300/1200/1500, supports Botu/SETP 7 host computer configuration, and has unlimited expansion; directly provides GSD files; dual network ports 10/100M adaptive, supports switch function; supports Profinet and Modbus RTU protocol conversion; meets CE certification standards.