Chengdu Ebyte Electronic Technology Co.,Ltd

Wireless Modem

User Manual



ECAN-W01/W01S

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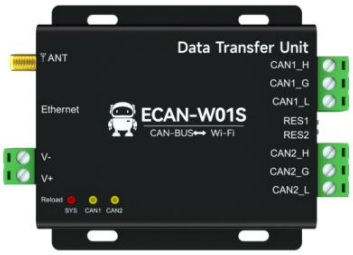
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1. Product Introduction



1.1. Product Introduction

The ECAN-W01/W01S is a high- performance industrial-grade data conversion device developed by ECBET , integrating two CAN-bus interfaces, one EtherNet interface, and one WiFi interface , enabling easy interoperability between CAN-bus and WiFi networks. The ECAN-W01 is the isolated version, while the ECAN-W01S is the non-isolated version.

The ECAN-W01/W01S features a built-in 120-ohm resistor, which can be enabled via a DIP switch; it supports operation within a temperature range of -40℃ to 85℃. It has one 10M Ethernet interface, allowing customers to connect to a PC via Ethernet cable to configure device parameters through the configuration software. The device supports both AP and STA modes for WiFi network setup, enabling quick network creation or access. Its two CAN ports support both fixed common CAN baud rates and custom CAN baud rates, with a maximum baud rate of 1Mbps . The device also features multiple operating modes including TCP Server, TCP Client, and UDP.

1.2. Features

- Integrated 2- channel CAN-bus The interface uses a pluggable terminal wiring method;
- Supports CAN2.0A and CAN2.0B Frame format, conforming to ISO/DIS 11898 specification;
- CAN-bus Communication baud rate is between 5Kbps and 1Mbps Programmable between any two ;
- Dual-channel CAN transceiver, supports dual-channel server, with each channel supporting up to 4 connections;
- It integrates a 2.4G WiFi interface, compliant with IEEE 802.11a/b/g standards ;
- Supports WiFi AP/STA mode; in AP mode, up to 5 STA devices can be connected .
- Maximum data transmission rate: 8000 frames/second; Maximum data reception rate: 14000 frames/second ;
- Supports registration packages and heartbeat packages ;
- Supports DHCP and DNS;
- Supports restarting after network disconnection/restarting after timeout;
- Supports host computer configuration;
- Supports online baud rate modification;
- Contains a 120-ohm resistor;
- Built-in watchdog;
- Network port upgrade function;
- Operating temperature range: -40℃ to +85℃.

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2. Quick Start

You will need: ECAN-W01/W01S *1 , power adapter *1 , network cable *1, 2.4G WiFi antenna *1, CAN analyzer *1;

1、 The device defaults to AP mode at the factory. SSID is ECAN-W01-XX, password: 12345678. After powering on the device , search for its WiFi network using a PC, as shown in the image below:



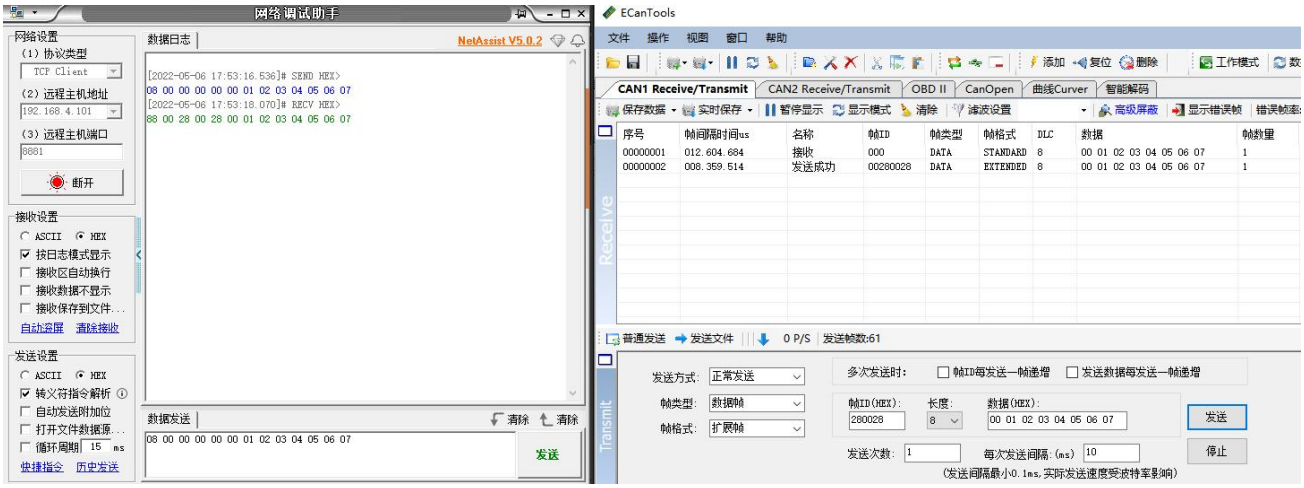
Click "Connect" to connect to the device's WiFi.

2、 Open the network debugging assistant on your computer, set it to TCP Client, set the remote host IP to 192.168.4.101, and set the remote host port number to 8881.



3、 Connect CAN1 of the ECAN-W01/W01S to the CAN decoder. When connecting the ECAN-W01/W01S to the CAN bus, simply connect CAN_H to CAN_H and CAN_L to CAN_L. (Note that the default CAN baud rate is 100K .)

4、 You can use a network assistant to enable communication between your device and peripherals.

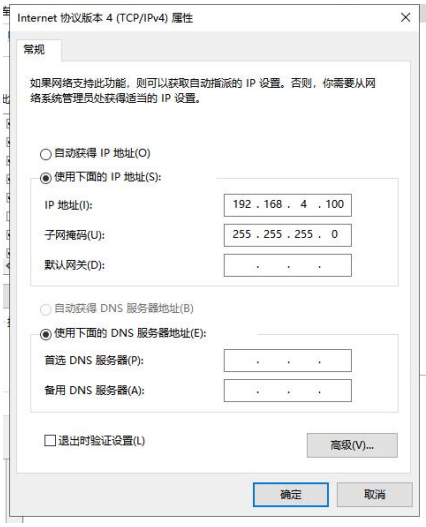


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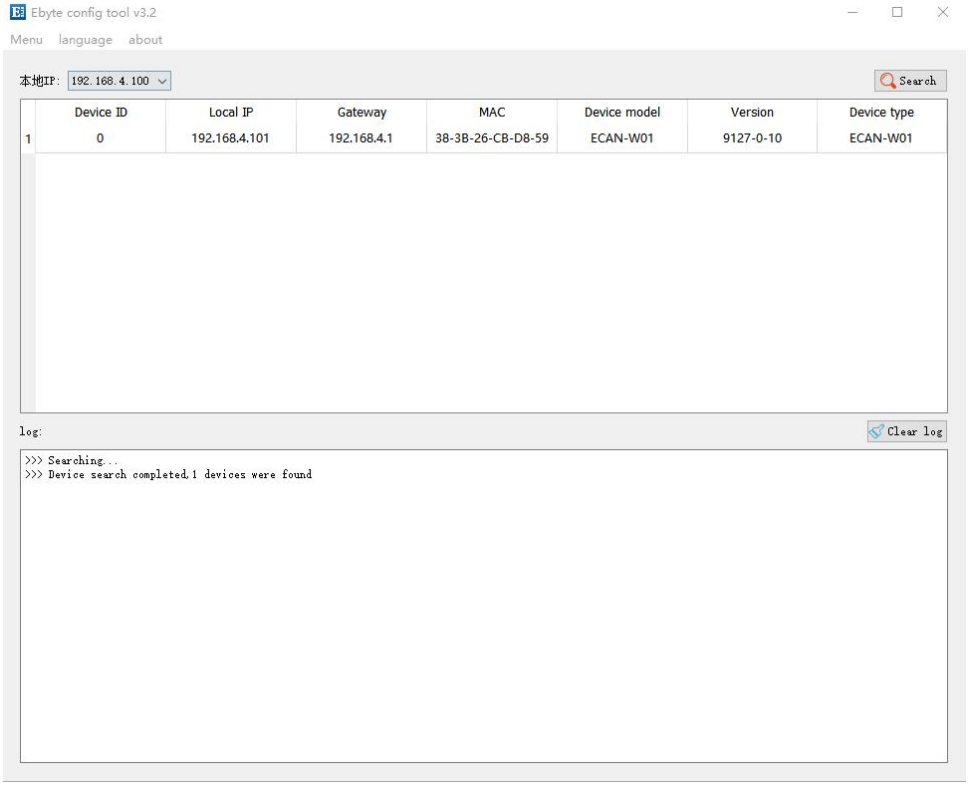
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Host computer configuration method

1. Connect the device directly to the computer using a network cable, and change the computer's local IP address to 192.168.4.100.



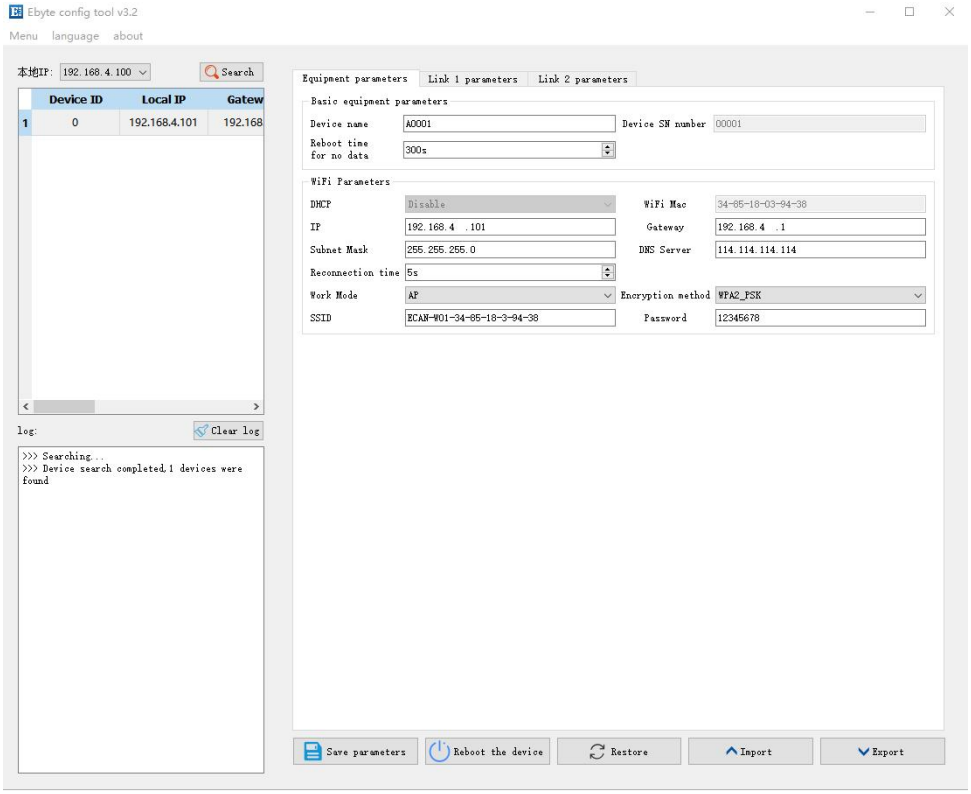
2. Power on the device, open the configuration host computer, select the local IP: 192.168.4.100, and click search.



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3. Click on the device that appears below to enter the device configuration interface.



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3. Technical indicators

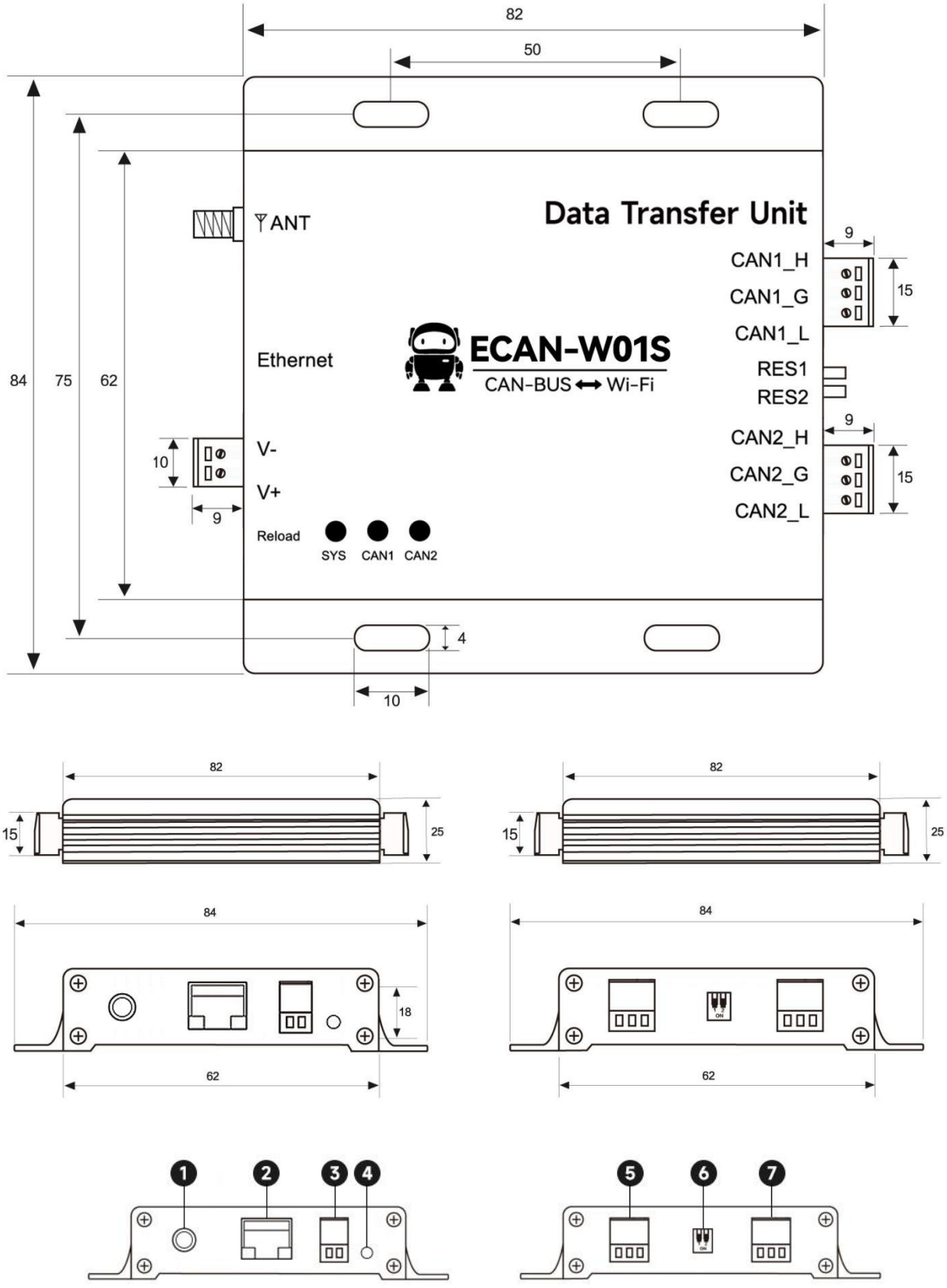
3.1. General Specifications

Serial Number	Parameters	Specification
1	power supply voltage	8V~28VDC, exceeding 28V may burn it out, 12V or 24V power supply is recommended.
2	Network port specifications	Standard RJ45, supports 10Mbps
3	WiFi specifications	IEEE 802.11a/b/g standards
4	Network Protocol	IP, TCP/UDP, WiFi
5	Simple pass-through method	TCP Server , TCP Client , UDP Server , UDP Client
6	TCP Server Connection	A single connection can support up to 4 TCP connections.
7	IP Acquisition Method	Static IP, DHCP
8	Domain name resolution	support
9	User Configuration	Host computer configuration
10	Operating temperature	-40 ~ +85℃, industrial grade
11	Operating humidity	10% ~ 90% relative humidity, non-condensing
12	Size	See dimension drawing
13	Average weight	120 g
14	Storage temperature	-40～+ 85 ℃, industrial grade

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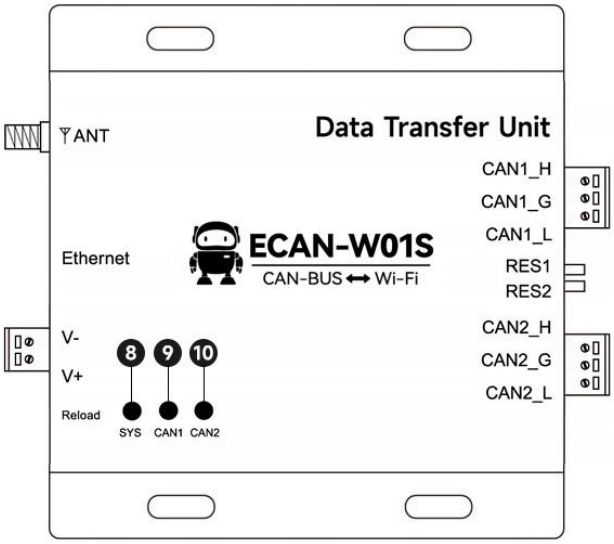
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3.2. Mechanical dimension drawings and pin definitions



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Serial Number	Identifier Name	Function Description
1	ANT	WiFi antenna SMA interface
2	ETHERNET	Ethernet interface, standard RJ45 interface, for connecting to a PC.
3	V+	Positive power connector, 5.08mm Phoenix head (default 8-28V), 12V/24V recommended.
	V-	5.08 Phoenix head power supply negative terminal
4	Reload	Press and hold the Reload button for more than 5 seconds to restore factory settings.
5	CAN2 _ H	CAN2 channel bus height, 5.08mm (phoenix head)
	CAN2 _ G	CAN2 channel bus ground, 5.08 Phoenix connector
	CAN2 _ L	CAN2 channel bus low, 5.08 Phoenix head
6	DIP switch RES1	CAN1 channel 120 ohm resistor DIP switch
	DIP switch RES2	CAN2 channel 120 ohm resistor DIP switch
7	CAN 1_H	CAN1 channel bus height, 5.08mm (phoenix head)
	CAN1 _ G	CAN1 channel bus ground, 5.08 Phoenix connector
	CAN 1_L	CAN1 channel bus low, 5.08 Phoenix head
8	SYS	Power indicator light (red), network connected (red light flashing)
9	CAN1/ERR	CAN1 data indicator (green), data error indicator (red)
10	CAN2/ERR	CAN2 data indicator (green), data error indicator (red)

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4. Product Function Introduction

4.1. WiFi function

4.1.1. AP mode

Access Point (AP) mode, similar to a router, allows wireless devices to connect and establish TCP/IP-based server, client, and UDP communication. This mode supports up to four stations, with each TCP server supporting a maximum of four TCP socket transmissions. The device defaults to AP mode at the factory, with an SSID of ECAN-W01 -XX-XX-XX-XX (followed by the device's MAC address) and a default key of 12345678 .

4.1.2. STA mode

Station mode, abbreviated as STA, is a role in which the device does not provide connectivity and can only connect to an Access Point or router. In the Station role, this device supports TCP server, TCP client, and UDP . Under the TCP server role , each socket can support up to 4 sockets. When the device switches from other roles to STA mode, it can enable DHCP to obtain an IP address and automatically configure the gateway, subnet mask, and DNS domain name server . It can also be configured with a static IP address for networking.

4.2. Basic functions

→Ethernet section

4.2.1. SOCKET function

The ECAN-W01/W01S can establish two sockets, namely Socket A1 and Socket B1. Both sockets support all types of TCP Client, TCP Server, UDP Client, and UDP Server.

Two sockets can operate simultaneously. They can connect to different networks at the same time to transmit data.

When the device socket is a TCP server, each socket can connect to a maximum of 4 connections simultaneously, and two sockets can connect to a maximum of 8 connections.

4.2.2. TCP Client Functions

(1) TCP Client provides client connections for TCP network services. It actively initiates connection requests to the server and establishes a connection to realize the interaction of CAN data and server data. According to the relevant provisions of the TCP protocol, TCP Client has the distinction between connection and disconnection, thereby ensuring reliable data exchange. It is usually used for data interaction between devices and servers and is the most commonly used network communication method.

(2) When ECAN-W01/W01S attempts to connect to the server in TCP Client mode and the local port is 0, it initiates the connection with a random port each time.

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(3) Under the same local area network, if the ECAN-W01/W01S is set to static IP, please keep the IP of ECAN-W01/W01S and the gateway in the same network segment, and set the gateway IP correctly, otherwise communication will not be possible.

4.2.3. TCP Server Functionality

(1) TCP Server. In TCP Server mode, ECAN-W01/W01S listens on the local port. When a connection request is sent, it accepts it and establishes a connection for data communication. When ECAN-W01/W01S receives data, it will send the data to all client devices that have established a connection with ECAN-W01/W01S .

(2) It is typically used for communication between a local area network (LAN) and a TCP client. It is suitable for scenarios where there is no server within the LAN and multiple computers or mobile phones request data from the server. Like TCP Client, it has the distinction between connection and disconnection to ensure reliable data exchange.

(3) When ECAN-W01/W01S is used as a TCP server, it can support up to 8 clients with dual sockets and up to 4 clients with single sockets . The local port number is a fixed value and cannot be set to 0.

4.2.4. UDP Client Function

(1) UDP Client is a connectionless transport protocol that provides a simple, unreliable, transaction-oriented message delivery service. There is no connection establishment or termination; you only need to specify the IP address and port to send data to the other party. It is usually used in data transmission scenarios where there are no requirements for packet loss rate, the data packets are small and the transmission frequency is relatively fast, and the data needs to be transmitted to a specified IP address.

(2) In UDP Client mode, ECAN-W01/W01S will only communicate with the target port of the target IP. If the data does not come from this channel, the data will not be received by ECAN-W01/W01S .

(3) In UDP Client mode, the target address is set to 255.255.255.255, which can achieve the effect of UDP broadcasting across the entire network segment. At the same time, it can also receive broadcast data. The ECAN-W01/W01S module supports broadcasting within the network segment, such as the broadcasting mode of xxx.xxx.xxx.255.

4.2.5. UDP Server Function

(1) A UDP server is a server that does not verify the source IP address on the basis of ordinary UDP. After receiving a UDP data packet, it changes the destination IP to the source IP and port number and sends the data to the IP and port number of the most recently communicated data packet.

(2) This mode is usually used in scenarios where multiple network devices need to communicate with the module and do not want to use TCP for data transmission due to the high speed and frequency.

Note: A UDP server cannot send data proactively; it can only send data to the IP address and port with which it recently exchanged data after receiving data.

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→CAN section

4.2.6. CAN function

category	name	default	illustrate
CAN Configuration	CAN baud rate	100 K	from 5K~1000K common 10 This option is optional. Users can also enter any baud rate value.
	CAN Work mode	normal	Normal: CAN The mouth can respond normally to the received CAN frame;
	Packet Frames	50	The possible values are: 1 to 50 . CAN When the port continuously receives data (with intervals shorter than the packet interval) , the received data... CAN When the number of frames reaches the " packet frame count," the received data is encapsulated into an Ethernet packet and sent to the network interface. The packet frame count refers to the maximum number of frames in a packet. If, during reception, the packet frame count has not been reached , but the frame interval exceeds the packet interval, the received data will also be encapsulated into an Ethernet packet and sent. If the packet frame count is set to... 1 indicates that no packets are split, and each CAN... Sending a frame as a single Ethernet packet offers the
	Subcontracting time interval (ms)	1	The possible values are: 1 to 255. CAN The "subcontracting time interval" (unit: ...)If no new data frames are received within the time defined by ms and the number of packets has not been reached, then all previously received but not yet sent data frames will be encapsulated into an Ethernet packet and sent to the network interface.

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category	name	default value	illustrate
CAN Configuration	Standard frame limit	7FF (HEX)	User-defined standard frame reception ID The upper and lower limits together determine the standard frame to be received. ID scope.
	Standard frame lower limit	000 (HEX)	
	Extended frame limit	1F FFFFFF (HEX)	User-configured receive extended frames ID The upper and lower limits together determine the extended frame to be received. ID scope.
	Extended frame lower limit	0 00000000 (HEX)	
	CAN Send buffer Number (1024 frames)	Not configurable	Because Ethernet speed is much higher than CAN Transmission speed; if the amount of data received via Ethernet is too large, CAN... Buffered transmission is necessary to prevent frame loss, but such a large buffer may degrade real-time performance, meaning that data currently being transmitted via Ethernet may not be received until a certain time has elapsed. The CAN interface sends the data. In this case, the customer needs to control the Ethernet transmission speed to ensure that it matches the input speed. CAN Port sending speed matching.

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4.2.7. CAN protocol conversion format

Multiple data of CAN-Bus is in one Ethernet data.

Definition of Ethernet & CAN-Bus data flow:

One frame data contains 13 bytes.



Frame information include length & type, 1 byte in length.

BIT7							BIT0
FF	RTR	Reserved	Reserved	B3	B2	B1	B0

FF: Standard frame & Extended frame identification bit, 1=Extended frame, 0=Standard frame.

RTR: Remote frame & data frame identification bit, 1=Remote frame, 0=data frame.

B3~B0: data length, the length of CAN frame.

Frame ID: 4 byte in length, standard frame has 11 bits,Extended frame has 29 bits.

High byte			Low byte
12h	34h	56h	78h

Extended frame ID: 0X12345678

High byte			Low byte
00h	00h	01h	23h

Extended frame ID: 0X123

Frame data: 8 byte in length, the valid length decide by frame information B3~B0

DATA1							DATA8
11h	22h	33h	44h	55h	66h	77h	88h

As above is the valid data of 8 bytes.

DATA1							DATA8
11h	22h	33h	44h	55h	66h	77h	88h

As above is the valid data of 5 bytes.

For example:

A extend frame data: 8 byte in length, frame ID 0×12345678, valid data of 8 bytes(11h,22h,33h,44h,55h,66h,77h,88h).

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Note: Every frame must be 13 bytes, must complement 0 if don't have enough 13 bytes in both case: frame ID is less than 4 bytes or frame data is less than 8 bytes.

4.3. Special features

4.3.1. CAN Filtering

CAN filtering is divided into software filtering and hardware filtering.

4.3.1.1. Software Filtering

The upper and lower limits of the received extended frame IDs set together determine the range of extended frame IDs to be received ; a total of three sets of ID filtering can be set.

4.3.1.2. Hardware filtering

The module has up to 28 filter groups (14 per channel). By configuring the filter groups, each CAN node can receive messages that conform to the filtering rules, while messages that do not conform to the filtering rules are discarded by hardware without software intervention. Each filter group consists of two 32-bit registers, CAN_FxR0 and CAN_FxR1. The bit width of each filter group can be configured as one 32-bit filter or two 16-bit filters. Each filter group can be configured in mask bit or identifier list mode, and each filter group can be enabled or disabled.

In masked mode, the two registers are the identifier register and the mask register. They need to be used together. Each bit in the identifier register indicates whether the expected value of the corresponding bit is dominant or recessive, and each bit in the mask register indicates whether the corresponding bit needs to have the same expected value as the bit in the identifier register.

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32-bit mask mode

Identifier Register	CAN_FxR1[31:24]	CAN_FxR1[23:16]		CAN_FxR1[15:8]	CAN_FxR1[7:0]			
Mask bit register	CAN_FxR2[31:24]	CAN_FxR2[23:16]		CAN_FxR2[15:8]	CAN_FxR2[7:0]			
Mapping	STID[10:3]	STID[2:0]	EXID[17:13]	EXID[12:5]	EXID[4:0]	IDE	RTR	0

In identifier list mode, both registers are used as identifier registers, and each bit of the received message identifier must match one of the registers to pass the filtering.

32-bit identifier list

Identifier Register	CAN_FxR1[31:24]	CAN_FxR1[23:16]		CAN_FxR1[15:8]	CAN_FxR1[7:0]			
Mask bit register	CAN_FxR2[31:24]	CAN_FxR2[23:16]		CAN_FxR2[15:8]	CAN_FxR2[7:0]			
Mapping	STID[10:3]	STID[2:0]	EXID[17:13]	EXID[12:5]	EXID[4:0]	IDE	RTR	0

In 16-bit mode, the register set is split into four registers. In mask mode, each filter group can have two filters, each containing a 16-bit identifier register and a 16-bit mask register. In identifier list mode, all four registers are used as identifier registers.

16-bit mask mode

Identifier register n	CAN_FxR1[15:8]	CAN_FxR1[7:0]			
Mask bit register n	CAN_FxR1[31:24]	CAN_FxR1[23:16]			
Identifier register n+1	CAN_FxR2[15:8]	CAN_FxR2[7:0]			
Mask bit register n+1	CAN_FxR2[31:24]	CAN_FxR2[23:16]			
Mapping	STID[10:3]	STID[2:0]	RTR	IDE	EXID[17:15]

16-bit identifier list mode

Identifier register n	CAN_FxR1[15:8]	CAN_FxR1[7:0]			
Mask bit register n	CAN_FxR1[31:24]	CAN_FxR1[23:16]			
Identifier register n+1	CAN_FxR2[15:8]	CAN_FxR2[7:0]			
Mask bit register n+1	CAN_FxR2[31:24]	CAN_FxR2[23:16]			
Mapping	STID[10:3]	STID[2:0]	RTR	IDE	EXID[17:15]

When a message can pass through multiple filters, the filter number stored in the receiving mailbox is determined by the filter priority rules, which are as follows:

- All 32-bit filters have higher priority than 16-bit filters.
- For filters of the same width, filters with identifier lists have higher priority than filters with mask bit patterns.
- For filters with the same width and pattern, the filter with the smaller number has higher priority.

4.3.2. Custom baud rate

Users can set a custom baud rate through the host computer, select time period 1, time period 2, and prescaler coefficient, and calculate the baud rate according to the provided calculation table.

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1.BRP应尽量小，以保证Tq尽可能小，减少误差;
2.SJW默认为：1;
3.采样点推荐范围:75-87.5%;
波特率>800kbps时，推荐采样点75%;
波特率>500kbps时，推荐采样点80%;
波特率<=500kbps时,推荐采样点87.5%;
4.应尽量保证总线上所有节点采样点一致，CANFD仲裁域和数据域采样点不要求一致;

$$Baud = \frac{72000000}{brp(1 + 1 + tbs1 + 1 + tbs2)}$$

tbs1,tbs2: CAN_BS1/2_Ntq = N-1，例: CAN_BS1_13tq，则 tbs1 = 12；CAN_BS2_3tq，则 tbs2 = 2

$$\textbf{sampling point} = \frac{2 + tbs1}{1 + 1 + tbs1 + 1 + tbs2}$$

4.3.3. Modify baud rate online

The device supports online baud rate adjustment via Ethernet in TCP Server mode, without the need to access the configuration software.

The instruction format is as follows:

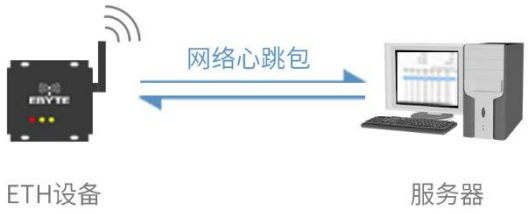
instruction	CAN baud rate
3F 00 FF 00 00 00 00 FF 00 00 00 00 FF	1000K
3F 01 FF 00 00 00 00 FF 00 00 00 00 FF	800K
3F 02 FF 00 00 00 00 FF 00 00 00 00 FF	500K
3F 03 FF 00 00 00 00 FF 00 00 00 00 FF	250K
3F 04 FF 00 00 00 00 FF 00 00 00 00 FF	125K
3F 05 FF 00 00 00 00 FF 00 00 00 00 FF	100K
3F 06 FF 00 00 00 00 FF 00 00 00 00 FF	50K
3F 07 FF 00 00 00 00 FF 00 00 00 00 FF	20K
3F 08 FF 00 00 00 00 FF 00 00 00 00 FF	10K
3F 09 FF 00 00 00 00 FF 00 00 00 00 FF	5K

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4.3.4. Heartbeat Packet Function

In network pass-through mode, users can choose to have the ECAN-W01/W01S send heartbeat packets. These heartbeat packets can be sent to a network server . Sending them to the network is primarily for maintaining a connection with the server and only works in TCP Client and UDP Client modes. The ECAN-W01/W01S module supports custom heartbeat packet content up to 128 bytes. Custom heartbeat packets are supported .

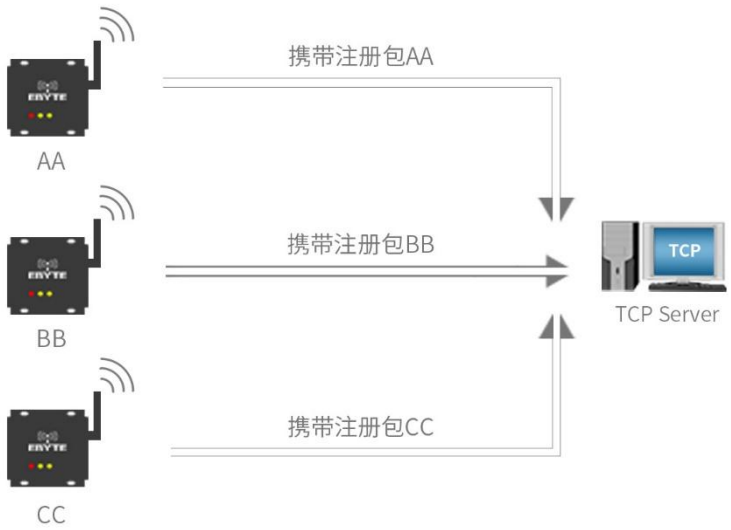


4.3.5. Registration package function

In network pass-through mode, users can choose to have the DTU send a registration packet to the server. The registration packet is used by the server to identify the data source device or as a password to obtain server authorization. The registration packet can be sent when the DTU establishes a connection with the server, or it can be sent before each data packet. The registration packet data can be a MAC address or custom registration data, with custom registration packet settings having a maximum length of 128 bytes. Custom registration packets are supported.

Establishing a connection and sending a registration packet is mainly used when connecting to a server that requires registration.

The registration packet mechanism only applies to TCP Clients and UDP Clients, and is invalid under TCP Servers and UDP Servers.



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4.3.6. Timeout restart function

The timeout restart (no data restart) function is primarily used to ensure the long-term stable operation of the ECAN-W01/W01S . If the link has not transmitted or received data for an extended period , the ECAN-W01/W01S will restart after the set time has elapsed, thus preventing abnormal situations from affecting communication. The timeout restart period can be set via the host computer. The normal operating time for this function is set to 60~65535 seconds, with a default value of 300 seconds. 0 indicates it is off .

4.4. Supports DHCP and domain name resolution

4.4.1. D HCP

The device can automatically obtain an IP address through the router and automatically configure the gateway, subnet mask, and DNS server. Modification of the subnet mask and DNS server is not supported.

4.4.2. DNS (Domain Name Resolution)

When a user enters a domain name, the system automatically queries the DNS server. The DNS server then retrieves the corresponding IP address from its database. In static IP mode, the user can customize the DNS server used to resolve private domain name server data. In dynamic IP mode, the device automatically follows the DNS server configured on the router. The user only needs to modify the DNS server on the router and does not need to configure the device itself.

4.5. Disconnection Reconnection

Disconnection reconnection: The device periodically requests a connection after a disconnection to ensure that the connection can be restored in the event of an unexpected disconnection (note that this is not a device restart).

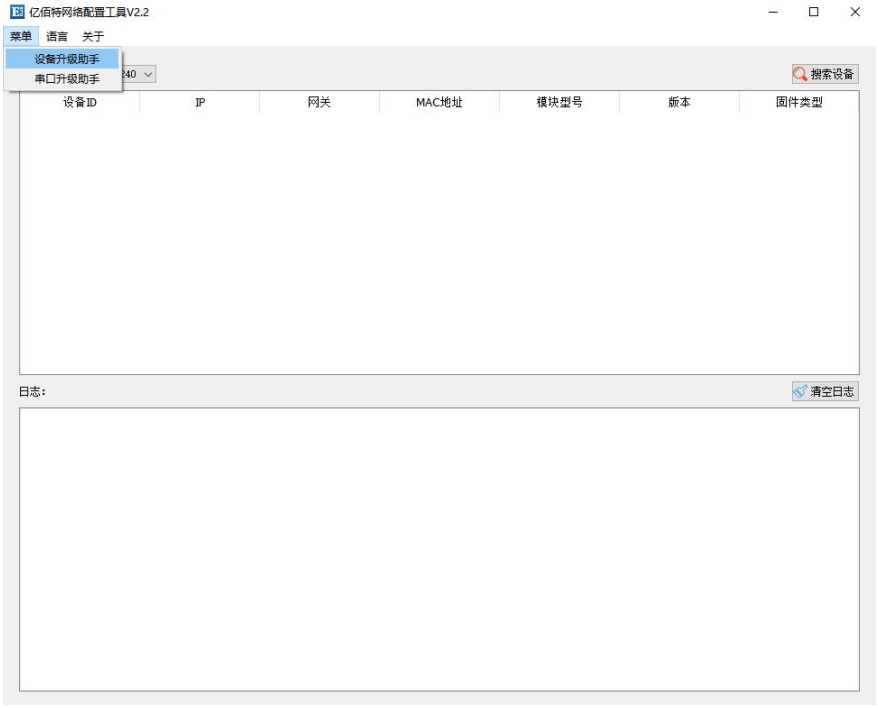
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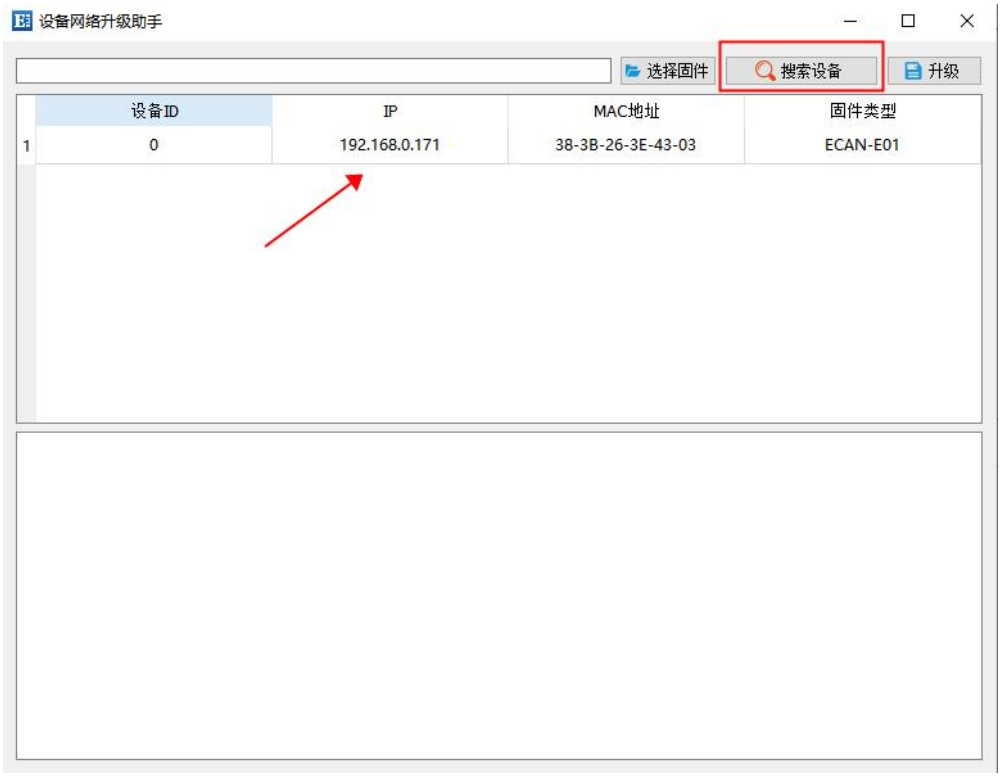
4.6. Network port upgrade

Firmware upgrades and maintenance of the device can be performed using the serial port upgrade tool provided by our company.

Step 1: Open the software, open the configuration host computer, and click on the menu bar.



Step 2: Select Device Upgrade Assistant and click Search Device.



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Step 3: After selecting the firmware, click "Upgrade" to proceed with the upgrade.



4.7. Factory reset

The device has a button-based factory reset function. To perform a hardware factory reset, you need to press and hold the reload button for more than 5 seconds.

5. Important Announcement

1. Ebyte reserves the right to the final interpretation and modification of all contents in this manual.
2. As the hardware and software of the product continue to improve, this instruction manual may be subject to change without notice. The latest version of the instruction manual shall prevail.
3. Protecting the environment is everyone's responsibility: To reduce paper usage, this instruction manual is only printed in Chinese. The English instruction manual is only available as an electronic document, which can be downloaded from our official website if needed. In addition, unless specifically requested by the user, we will only provide product manuals for a certain percentage of the order quantity when placing a bulk order. We do not provide manuals for every data radio. Thank you for your understanding.

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6. Revision History

Version	Revision Date	Revision Notes	maintainer
1.0	2022-06-10	first edition	LM
1.1	2024-12-24	Fixed partial display issues	ZYD

7. Contact Us

Technical support: support@cdebyte.com

Documents and RF Setting download link: www.cdebyte.com

Thank you for using Ebyte products! Please contact us with any questions or suggestions: info@cdebyte.com

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Phone: +86 028-61399028

Web: www.cdebyte.com

Address: B2, Mould Industrial Park, 199# Xiqu Ave, Gaoxin West District, Sichuan, China

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