

CANFDDTU-400EWGR User Manual

CANFD Bus Message Recording and Wireless Data Transmission Equipment

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| Category | Contents |
|----------|--|
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| Abstract | Product User Guide |

Revision History

| Version | Date | Description |
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| V1.1 | 2020/04/13 | Created |
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1. Product Introduction

1.1 Product Overview

In CANFD bus troubleshooting, the biggest difficulty is occasional faults, which makes engineers or even CANFD experts unable to accurately identify the fault cause. For example, the pitch system of the wind turbine had a CANFD data transmission interruption in 72 hours; the dashboard of a new energy vehicle appeared "blank" once during a 10,000 km drive, but this fault could not reoccur; the high-speed train experienced an emergency deceleration due to abnormal CANFD communication during a 2,000 km journey. These occasional CANFD communication exceptions have troubled engineers like time bombs. If one CANFD bus data recorder is installed on an occasion prone to faults, it is equivalent to a "black box" to record CANFD data, which helps analyze the fault cause.

Guangzhou ZLG Electronics Co., Ltd., as a leading manufacturer of the domestic CANFD bus, has developed CANFDDTU series products for troubleshooting CANFD buses, which can record CANFD messages offline. The products can easily complete the message recording and on-site monitoring for applications such as vehicles, ships, elevators, wind turbines, and construction machinery.

CANFDDTU-400 series products are storage-type 4-channel CANFD bus data recorders, which can run independently from PC and store CANFD message data for a long time, which facilitates analysis and troubleshooting. The recorder can send the recorded data to a PC via an SD memory card on the Ethernet. After format conversion of the raw data, users can analyze and evaluate the recorded data offline by using CANFDoe, INCA, and CANFDscope.



1.2 Features

Table 1.1 Product features

| | |
|---------------|--|
| CANFD channel | Number of channels: four user-configurable CANFD channels |
| | Interface type: high-speed CANFD |
| | Baud rate: any programmable value between 40 Kbps and 5 Mbps |

| | |
|-------------------------------|---|
| | Maximum receive data flow: 4,000 frames/s(One way) |
| | Surge protection: 1 kV (Class B) |
| | Isolation voltage: 2,500 V |
| Standard Ethernet interface | 100M/1000M adaptive |
| Vehicle Ethernet interface | Meet 100base-T1, OPEN Alliance BroadR-Reach specification |
| Wireless 4G transmission | Support Unicom, Telecom, Mobile 4G |
| Digital output | Two digital outputs |
| Digital input | Two digital inputs |
| LIN channel | Four independent LIN channels |
| Message recording and storage | Storage Capacity: supports SD memory cards of a maximum of 64 GB |
| | Storage mode: all storage, timing storage |
| | Full mode: rolling record, full stop |
| | Trigger mode: conditional trigger, external trigger |
| | Find and location: Manual time stamping |
| | Data export: supports multiple data formats, such as .frame, .csv, .txt, and .asc for software analysis |
| Real-time clock | Built-in rechargeable lithium battery |
| Software resources | Supports the general configuration function library, which helps users develop application programs with VC, VB, Delphi and C++ Builder |
| | Supports the configuration tool CANDTU |
| Power supply voltage | DC 9 - 36V |
| Power consumption | 8.6W(Max) |
| Range of temperature | Operating temperature: -40°C to +85°C |
| | Storage temperature: -40°C to +85°C |
| External dimension | 179 mm x 131.5 mm x 50.4 mm |

1.3 Typical Applications

- High-speed train operation fault detection and troubleshooting
- Subway train operation fault detection and troubleshooting
- Train control system operation fault detection and troubleshooting
- Wind turbine CANFD communication fault detection
- Multi-channel CANFD communication recording and fault analysis for traditional vehicles and new energy vehicles
- Ship CANFD communication fault detection and troubleshooting
- Coal mine CANFD communication fault analysis
- Elevator operation fault detection and troubleshooting
- Construction machinery operation fault detection and troubleshooting
- Aerospace vehicles and ancillary equipment detection and troubleshooting

2. Product Specifications

2.1 Electrical Specifications

Table 2.1 Product features

| Item | Conditions | Rating | | | Unit |
|-------------------|------------|---------|---------------|---------|------|
| | | Minimum | Typical Value | Maximum | |
| Operating voltage | DC | 9 | 24 | 36 | V |
| Power consumption | | 4.2 | 5.1 | 8.6 | W |

2.2 Operating Temperature

Table 2.2 Operating temperature

| Parameter Name | Rating | | | Unit |
|-----------------------|---------|---------------|---------|------|
| | Minimum | Typical Value | Maximum | |
| Operating temperature | -40 | - | 85 | °C |
| Storage temperature | -40 | - | 85 | °C |

2.3 Protection Level

Warning: Operation of this equipment in a residential environment could cause radio interference.

Table 2.3 Protection level-electrostatic discharge immunity test (IEC61000-4-2)

| Interface | Test Level | Test Voltage (kV) | Test Result | Remarks |
|---------------------|------------|-------------------|-------------|-------------------|
| Power supply | Level 4 | 6 | Class A | Contact discharge |
| CANFD bus | Level 4 | 6 | Class A | Contact discharge |
| Ethernet | Level 4 | 6 | Class A | Contact discharge |
| Buttons, Indicators | Level 4 | 15 | Class A | Air discharge |

Table 2.4 Protection level-electrical fast transient pulse group immunity test (IEC61000-4-4)

| Interface | Test Level | Test Voltage (kV) | Test Result | Remarks |
|--------------|------------|-------------------|-------------|---------------------|
| Power supply | Level 3 | 2 | Class A | Capacitive coupling |
| CANFD bus | Level 3 | 1 | Class B | Capacitive coupling |
| Ethernet | Level 3 | 2 | Class A | Capacitive coupling |

Table 2.5 Protection level-surge (impact) test (IEC61000-4-5)

| Interface | Test Level | Test Voltage (kV) | Test Result | Remarks |
|--------------|------------|-------------------|-------------|-------------|
| Power supply | Level 3 | 1 | Class A | Line-line |
| | Level 3 | 2 | Class A | Line-ground |
| CANFD bus | Level 3 | 1 | Class B | Line-line |
| | Level 3 | 2 | Class B | Line-ground |
| Ethernet | Level 3 | 1 | Class A | Line-line |
| | Level 3 | 2 | Class A | Line-ground |

3. Mechanical Dimensions

The mechanical dimensions are shown in the following figure (unit: mm)

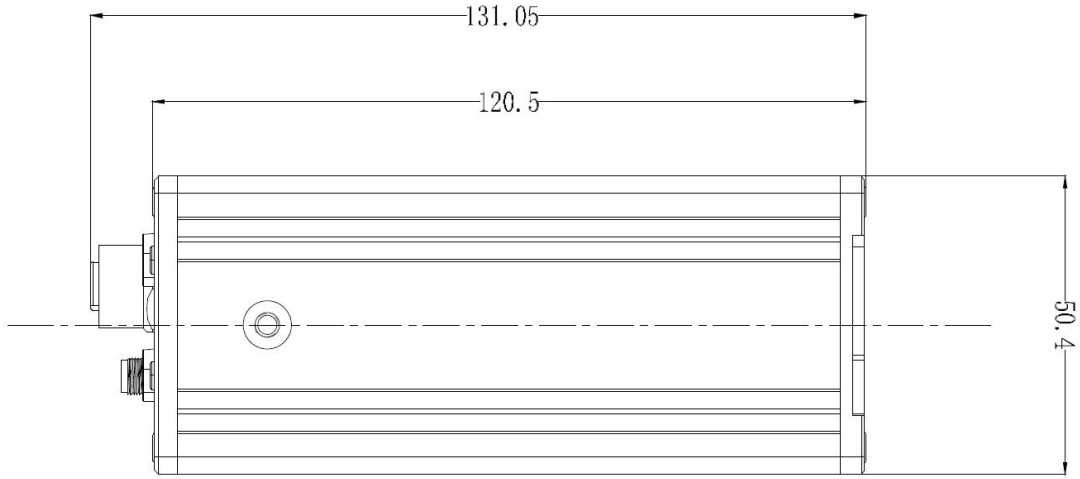


Figure 3.1 Host dimensions diagram 1

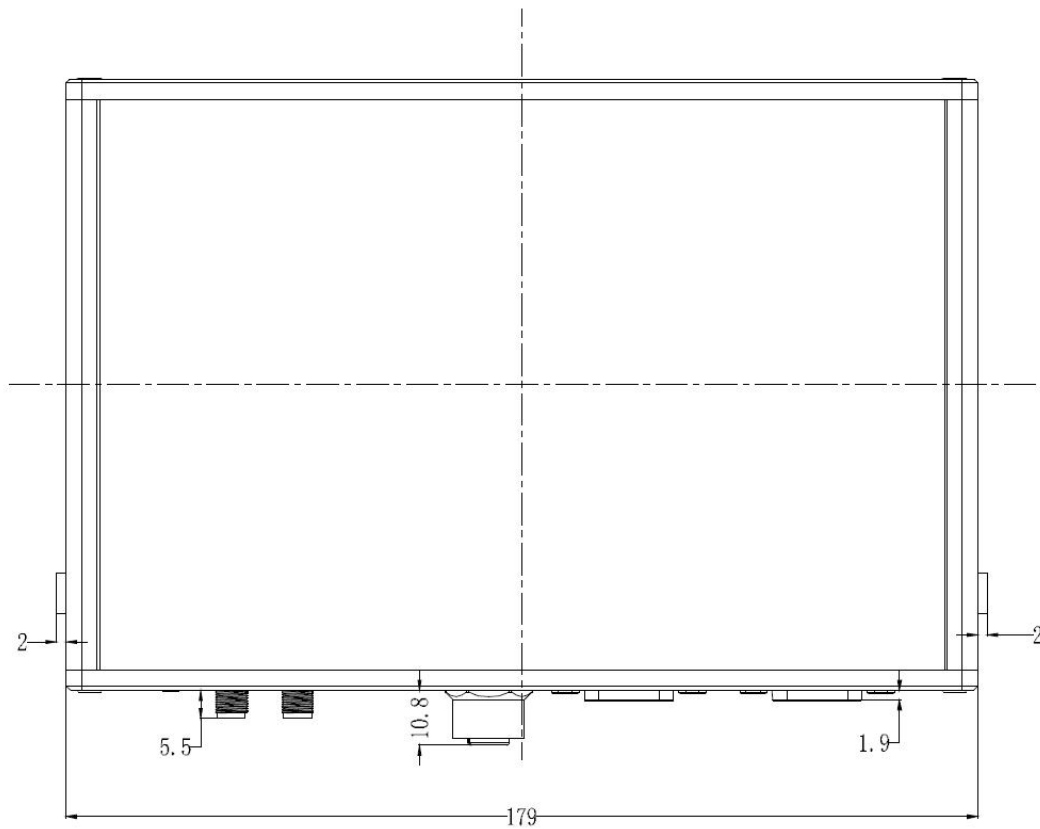


Figure 3.2 Host dimensions diagram 2

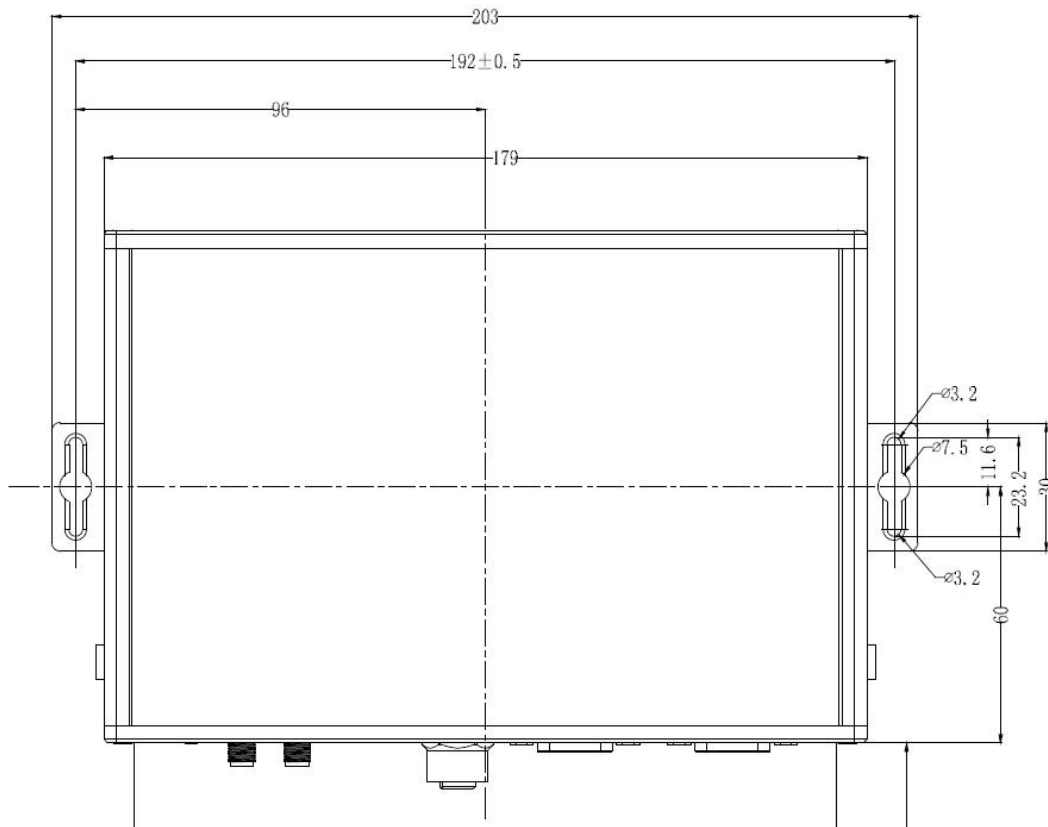


Figure 3.3 Installation method

4. Hardware Interfaces

This section describes the hardware interfaces of CANFDDTU-400 series devices.

4.1 Panel Layout

Figure 4.1 shows the panel layout.



Figure 4.1 Panel layout

4.2 Indicators

Table 4.1 LED indicators

| Silkscreen | Function | Status | Status Description | Flash Description |
|------------|--------------------|--------------------|---|---|
| PWR | Power indicator | Light off | The device is not powered on | - |
| | | Red | The device is powered on properly | - |
| SYS | System indicator | Green heartbeat | System running | 100 ms cycle, after ON twice, wait for 500 ms |
| | | Always red | Device reset and restart | - |
| | | Flashing red light | Card removed not properly | Flash at an interval of 200 ms |
| LAN0 | Ethernet indicator | Light off | Ethernet no connected | - |
| | | Green normally on | Ethernet connected | - |
| | | Green flashing | The application has data transmission and reception | Flash at an interval of 200 ms |
| | | Flash in red | Received data parsing error | Flash at an interval of 200 ms |
| LAN1 | Vehicle Ethernet | Light off | Ethernet no connected | - |

| | | | | |
|---------------|--------------------------|------------------------------|---|---|
| | Indicator | Green normally on | Ethernet connected | - |
| | | Green flashing | The app has data transfer | 200 ms periodic blink - |
| CAN0~ CAN3 | CAN channel indicator | Light off | Channel not open | - |
| | | Green normally on | Channel open | - |
| | | Green flashing | The CAN channel sends and receives data properly | Flash at an interval of 200 ms |
| | | Flash in red | CAN bus error | Flash at an interval of 200 ms |
| | | | | |
| REC | Record indicator | Light off | No record | - |
| | | Continuous green light | The recording status is normal | - |
| | | Green flashing light | Recording/formatting SD card | Flash at an interval of 200 ms |
| | | Flashing red light | SD card abnormal | Flash at an interval of 200 ms |
| 4G | 4G indicator | Light off | Not started | - |
| | | Continuous green light | 4G connection normal | - |
| | | Green flashing light | Data communication | Flash at an interval of 200 ms |
| | | Continuous red light | No connection | - |
| | | Flashing red light | No SIM card | Flash at an interval of 200 ms |
| GPS | GPS indicator | Light off | Not started | - |
| | | Continuous green light | Connection normal | - |
| | | Green flashing light | Connecting | Flash at an interval of 200 ms |
| WiFi | WiFi indicator | Light off | Not started | - |
| | | Continuous green light | AP mode | - |
| | | Green flashing light | Station connecting | Flash at an interval of 200 ms |
| | | Green indicator heartbeat | Station connected | The heartbeat flashes with the SYS indicator |

4.3 Buttons

The device provides two buttons. One is a trigger button, with the silkscreen "Trigger". It marks the CANFD message data, so that users can locate the data recorded in the SD card. The other one is RST, used to reset the device and restore factory settings.

Table 4.2 Trigger button functions

| Silkscreen | Function |
|------------|---|
| RST/DEF | Resets the device (press) |
| | Restores factory settings (5s) |
| Trigger | Starts the firmware upgrade mode (press and hold to power on) |
| | Records the text markup (press) |
| | Removes the SD card (5s) |

Table 4.3 Trigger button functions

| Silkscreen | Function |
|------------|---|
| RST/DEF | Resets the device (press) |
| | Restores factory settings (5s) |
| Trigger | Starts the firmware upgrade mode (press and hold to power on) |

| | |
|--|---------------------------------|
| | Records the text markup (press) |
| | Removes the SD card (5s) |

4.4 Power Interface

The rated voltage of the power input is 9-36 V DC, and the shell is marked as "9V~36V". The physical form of the interface is a 5.08 terminal. Table 4.4, Table 4.5 and Table 4.6. list the interface diagram, signal definition, and interface specifications.

Table 4.4 Power interface

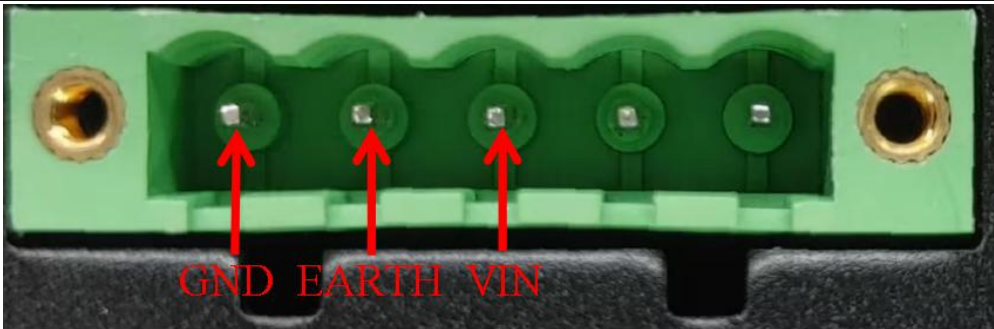
| Type | Schematic Diagram |
|---------------|--|
| 5.08 terminal |  |

Table 4.5 5.08 terminal signal definition

| Function Interface | Signal Definition | Signal Description | Interface Type |
|--------------------|-------------------|-----------------------------|----------------|
| | | | 5.08 Interface |
| Power supply | VIN | positive electrode of power | √ |
| | GND | negative electrode of power | √ |

Table 4.6 Specifications of power interfaces

| Item | Conditions | Rating | | | Unit |
|-------------------|------------|---------|---------------|---------|------|
| | | Minimum | Typical Value | Maximum | |
| Working voltage | DC | 9 | 12 | 36 | V |
| Power consumption | | | 5.1 | | W |

4.5 CANFD-bus Interfaces

The device provides four isolated CANFD-Bus interfaces: "CAN0", "CAN1", "CAN2", and "CAN3". The physical form of the interface is a DB9 terminal. Table 4.7, Table 4.8 and Table 4.9. list the interface diagram, signal definition, and interface specifications.

Table 4.7 Pin definitions

| Type | Schematic Diagram |
|------|-------------------|
| | |

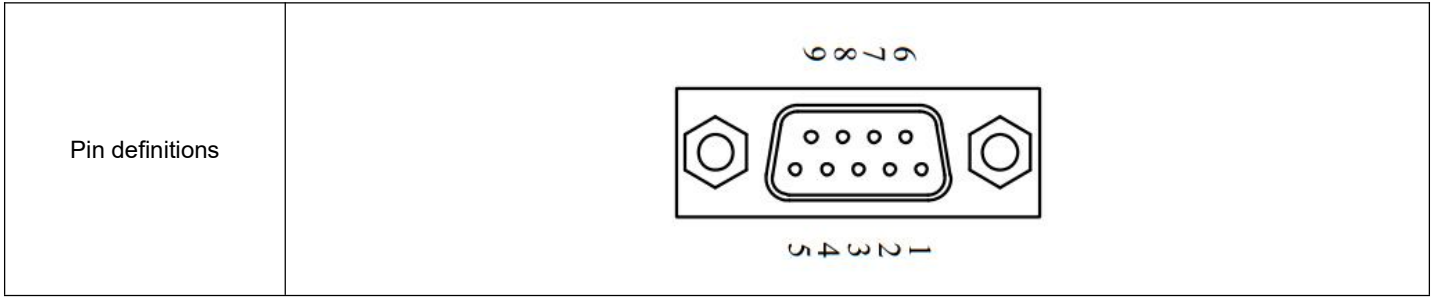


Table 4.8 Signal definitions

| Function Interface | Signal Definition | Signal Description | Pin Number |
|--------------------|-------------------|---|------------|
| CANFD0~CANFD3 | CANFD_L | CANFD data transceiver differential inverted signal | 2 |
| | CANFD_GND | CANFD isolation ground | 3, 6 |
| | CANFD_H | CANFD data transceiver differential positive phase signal | 7 |
| | CANFD_FG | Shielding ground | 5 |
| | NC | Not connected | 1, 4, 8, 9 |

Table 4.9 CANFD-Bus interface specifications

| Parameter | Minimum | Typical Value | Maximum | Unit | |
|--|---------------------|---------------|---------|------|---|
| Communication baud rate | 5k | | 1M | bps | |
| Number of nodes | | | 110 | pcs | |
| Dominant level (logic 0) | CANFDH | 2.75 | 3.5 | 4.5 | V |
| | CANFDL | 0.5 | 1.5 | 2 | |
| Recessive level (logic 1) | CANFDH | 2 | 2.5 | 3 | |
| | CANFDL | 2 | 2.5 | 3 | |
| Differential level | Dominant (logic 0) | 1.2 | 2 | 3.1 | |
| | Recessive (logic 1) | -0.5 | 0 | 0.05 | |
| Maximum withstand voltage of the bus pin | -18 | | 18 | | |
| Instantaneous voltage of the bus | -100 | | +100 | | |
| Isolation voltage (DC) | 3500 | | | V | |

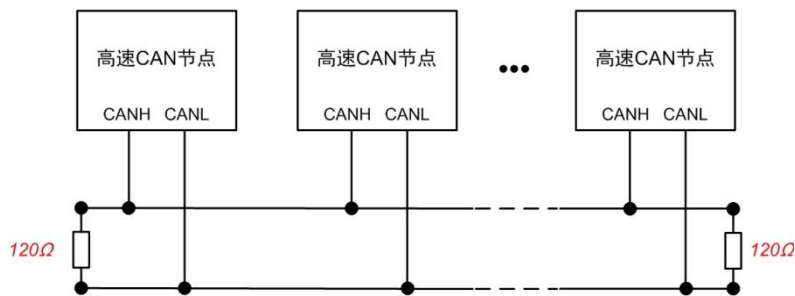


Figure 4.2 Typical network connection diagram of high-speed CANFD

Balanced transmission is adopted for the CANFD bus. According to ISO11898-2: In the high-speed CANFD, a 120 ohm terminal resistor needs to be connected to the network terminal node to eliminate signal reflection on the bus and avoid signal distortion. Figure 4.2 shows the high-speed CANFD network topology.

The device has a built-in 120 ohm terminal resistance, which can be turned on or off by using the configuration tool CANFDDTU. For operation details, see 5.4.1.

Note: The bus communication distance and communication rate are related to the field application and can

be designed according to the actual application and related standards. CANFD-Bus cable can be ordinary twisted pair, shielded twisted pair or standard bus communication cable. In long-distance communication, the terminal resistance value needs to be selected according to the communication distance, cable impedance and number of nodes.

4.6 Switching Value Input Interface

The device provides 2-channel digital input. The shell is identified as "DI0(1)P(N)". The physical form of the interface is a 3.81 terminal. Table 4.10, Table 4.11, and [错误!未找到引用源。](#) list the interface schematic diagram, signal definition, and interface specification.

Table 4.10 DI interface

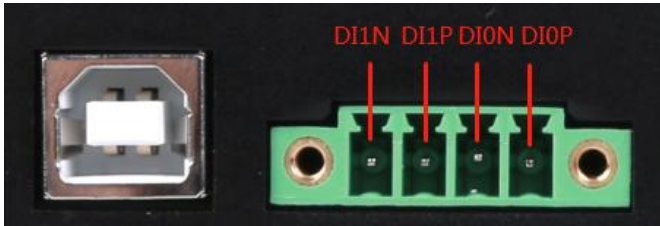
| Type | Schematic Diagram |
|---------------|--|
| 3.81 Terminal |  |

Table 4.11 OPEN, 3.81 signal definition

| Function Interface | Signal Definition | Signal Description | Interface Type | |
|--------------------|-------------------|----------------------------------|----------------|----------------|
| | | | OPEN Interface | 3.81 Interface |
| DI | DI0_P | Digital input channel 0 positive | | √ |
| | DI0_N | Digital input channel 0 negative | | √ |
| | DI1_P | Digital input channel 1 positive | | √ |
| | DI1_N | Digital input channel 1 negative | | √ |

Table 4.12 DI interface specifications

| parameter | Conditions | Minimum | Typical Value | Maximum | Unit |
|-------------------|-------------|---------|---------------|---------|------|
| Logic 0 signal | DC | 0 | | 3 | V |
| Logic 1 signal | DC | 5 | | 24 | V |
| Isolation voltage | Valid value | | 3750 | | V |

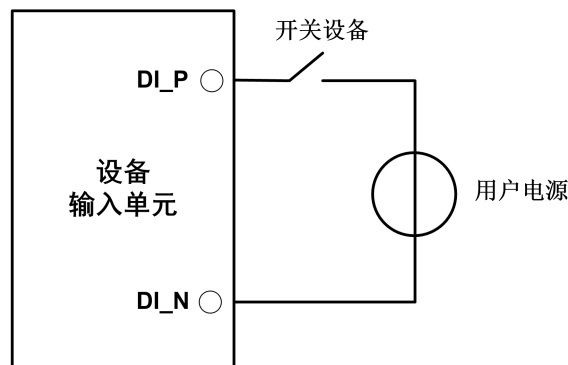


Figure 4.3 DI network connection

By using the configuration tool, the switch input interface can be configured as timing recording mode and analog key-pressing mode.

- 1) The timing recording mode is used to regularly collect the switching status of external equipment, such as valve closing and opening, motor start and stop, and contact connection and disconnection. Figure 4.3 shows the connection diagram.
- 2) The analog key-pressing mode can be used to simulate on-board buttons, including message marking, pause recording, resume recording, and user upgrades.

4.7 Switch Output Interfaces

The device provides two digital outputs. The shell is marked as "DO0(1)P(N)". The physical form of the interface is a 3.81 terminal. Table 4.13, Table 4.14, and Table 4.15 list the interface schematic diagram, signal definition, and interface specifications.

Table 4.13 DO interface


| Type | Schematic Diagram |
|---------------|---|
| 3.81 Terminal |  |

Table 4.14 OPEN, 3.81 signal definition

| Function Interface | Signal Definition | Signal Description | Interface Type | |
|--------------------|-------------------|-----------------------------------|----------------|----------------|
| | | | OPEN Interface | 3.81 Interface |
| DO | DO0_P | Digital output channel 0 positive | | √ |
| | DO0_N | Digital output channel 0 negative | | √ |
| | DO1_P | Digital output channel 1 positive | | √ |
| | DO1_N | Digital output channel 1 negative | | √ |

Table 4.15 DO interface specifications

| Parameter | Conditions | Minimum | Typical Value | Maximum | Unit |
|--------------------|------------------|---------|---------------|---------|------|
| Contact load | DC 3A, resistive | | | 30 | V |
| Contact load | AC 3A, resistive | | | 250 | V |
| Contact Resistance | DC 1A, 24V | | 0.1 | | Ω |
| Isolation voltage | Valid value | | 4000 | | V |

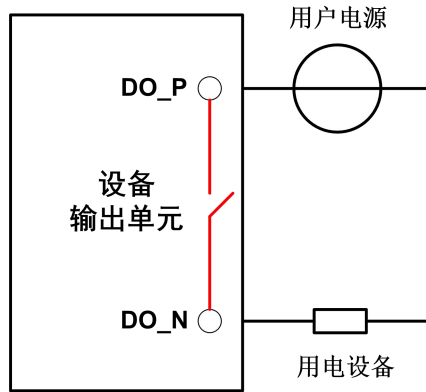


Figure 4.4 DO network connection

The switch output interface is a relay output type, and the interior is a relay contact. The output control circuit is not limited by voltage and polarity, and can be 24 V DC or 220 V AC. Since it is a dry contact output, users need an external power supply to supply power to alarm devices (such as buzzers). Figure 4.4 shows the connection.

The switch output interface is used to output the alarm signal. Through the configuration tool, configurable trigger events include record full, CAN bus error, and SD card status abnormality. In addition, the relay can be configured to be normally open or normally closed based on user needs.

4.8 LIN-Bus Interface

The device provides four independent LIN-Bus interfaces. The shell is identified as "LIN". The physical form of the interface is a 3.81 terminal. Table 4.16, Table 4.17, and Table 4.18 list the interface schematic diagram, signal definition, and interface specification.

Table 4.16 LIN interface

| Type | Schematic Diagram |
|---------------|---|
| 3.81 Terminal | <p>A photograph of a green 3.81 terminal block. The terminals are labeled from left to right: Vbat, GND, LIN3, LIN2, LIN1, LIN0. There are two larger circular terminals on the far left and far right.</p> |

Table 4.17 OPEN, 3.81 signal definition

| Function Interface | Signal Definition | Signal Description | Interface Type | |
|--------------------|-------------------|--------------------|----------------|----------------|
| | | | OPEN Interface | 3.81 Interface |
| LIN | Vbat | LIN DC voltage | √ | √ |
| | GND | LIN DC GND | | |
| | LIN | LIN bus signal | √ | √ |
| | GND | Digital ground | | √ |

Table 4.18 LIN-Bus interface specifications

| Parameter | | Minimum | Typical Value | Maximum | Unit |
|-----------|-----------------------------------|---------|---------------|---------|------|
| LIN line | Communication baud rate | | | 20k | bps |
| | DC voltage | -36 | | 36 | V |
| | Dominant output level (logic 0) | | | 0.75 | V |
| | Receiver dominant level (logic 0) | | | 2 | V |
| | Receiver stealth level (Logic 1) | 3 | | | V |

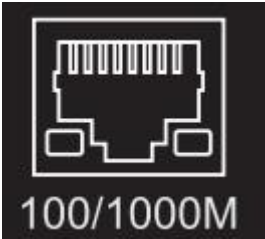
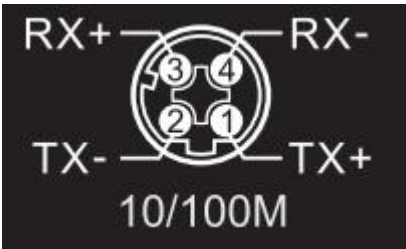
4.9 USB Interface

The device provides one USB interface. The device communicates with the PC over the USB cable. The interface conforms to the high-speed USB2.0 protocol specification and can communicate with PCs compliant with USB1.1 and USB2.0 standards. The physical form of the interface is a Type-B USB port.

4.10 Ethernet Interface

The device provides one Ethernet interface. The physical form of the interface is RJ45 or M12 terminal, which realizes the communication between the device and the PC. The interface 100/1000M specification, interface schematic diagram and signal definition are shown in [错误!未找到引用源。](#).

Table 4.19 Ethernet interface

| Type | Schematic Diagram |
|---------------|--|
| RJ45 terminal |  |
| M12 terminal |  |

4.11 Vehicle Ethernet Interface

The device provides one on-board Ethernet interface, which meets the OPEN Alliance BroadR-Reach specification. The physical form of the interface is the OPEN terminal, which realizes on-board Ethernet communication. This interface meets the 100M specification. Table 4.20, Table 4.21, and Figure 4.5 show the interface diagram and signal definition.

Table 4.20 Vehicle Ethernet interface

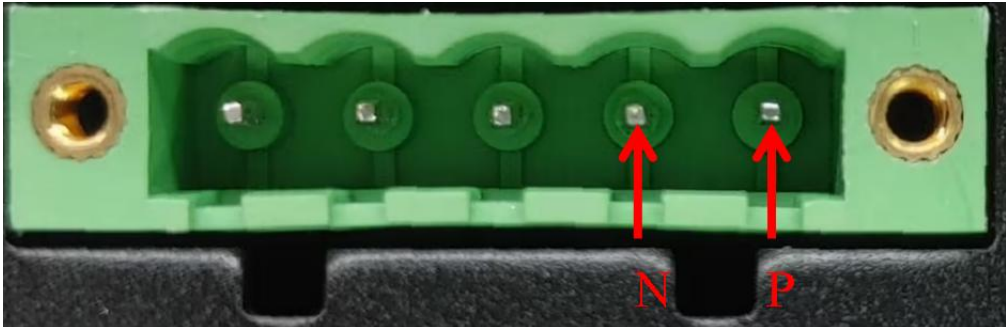
| Type | Schematic Diagram |
|---------------|--|
| 5.08 terminal |  |

Table 4.21 Signal definition

| Function Interface | Signal Definition | Signal Description | Pin Number |
|--------------------|-------------------|--|------------|
| LAN1 | P | LAN1 data transceiver differential positive phase signal | 1 |
| | N | LAN1 data transceiver differential inverted signal | 2 |

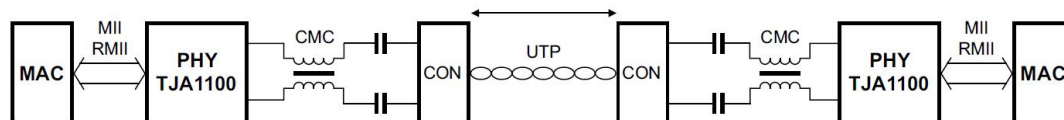


Figure 4.5 Typical network connection of on-board Ethernet

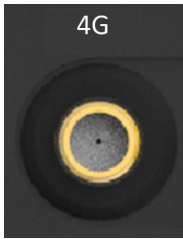
4.12 SD Card Interface

The device provides one SD card interface, which supports a maximum of 64 GB SD memory card for storing CANFD bus message data. The interface adopts a self-locking card slot, and the SD card can be locked after the card is inserted according to the direction of the shell logo to prevent accidental falling off during use. When pulling out the card, just push it inwards to eject the SD card.

4.13 4G Interface

The device provides one 4G interface. Table 4.22 lists the physical form of the interface.

Table 4.22 4G interface

| Type | Schematic Diagram |
|--------------|--|
| 4G interface |  |

| | |
|-------------------|--|
| <p>4G antenna</p> |  |
|-------------------|--|

4.14 GPS Interface

The device provides one GPS interface. The physical form of the interface is shown in Table 4.23.

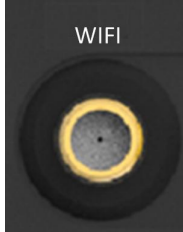

Table 4.23 GPS interface

| Type | Schematic Diagram |
|---------------------|--|
| <p>4G interface</p> |  |
| <p>GPS antenna</p> |  |

4.15 WiFi Interface

The device provides one WiFi interface. The physical form of the interface is shown in Table 4.24.

Table 4.24 WiFi interface

| Type | Schematic Diagram |
|--------------|--|
| 4G interface |  |
| WiFi antenna |  |

5. Quick Guide

5.1 Device Connection

Connect the hardware by referring to the interface instructions in the "Hardware Interfaces" chapter, and power on the device.

5.2 Configuration Tool Installation

Double-click the "CANDTUCfgSetup_Vxx.xx.xx.exe" configuration tool installation package. Follow the installation instructions to install the configuration tool. After the installation is complete, start the "CANDTU" configuration tool.

5.3 Device Search

After starting the configuration tool, click the "Device Model" area in the upper left corner of the configuration tool to display a list of devices. Click "CANDTU-Network Device" in the list. The "Search Devices" interface appears.

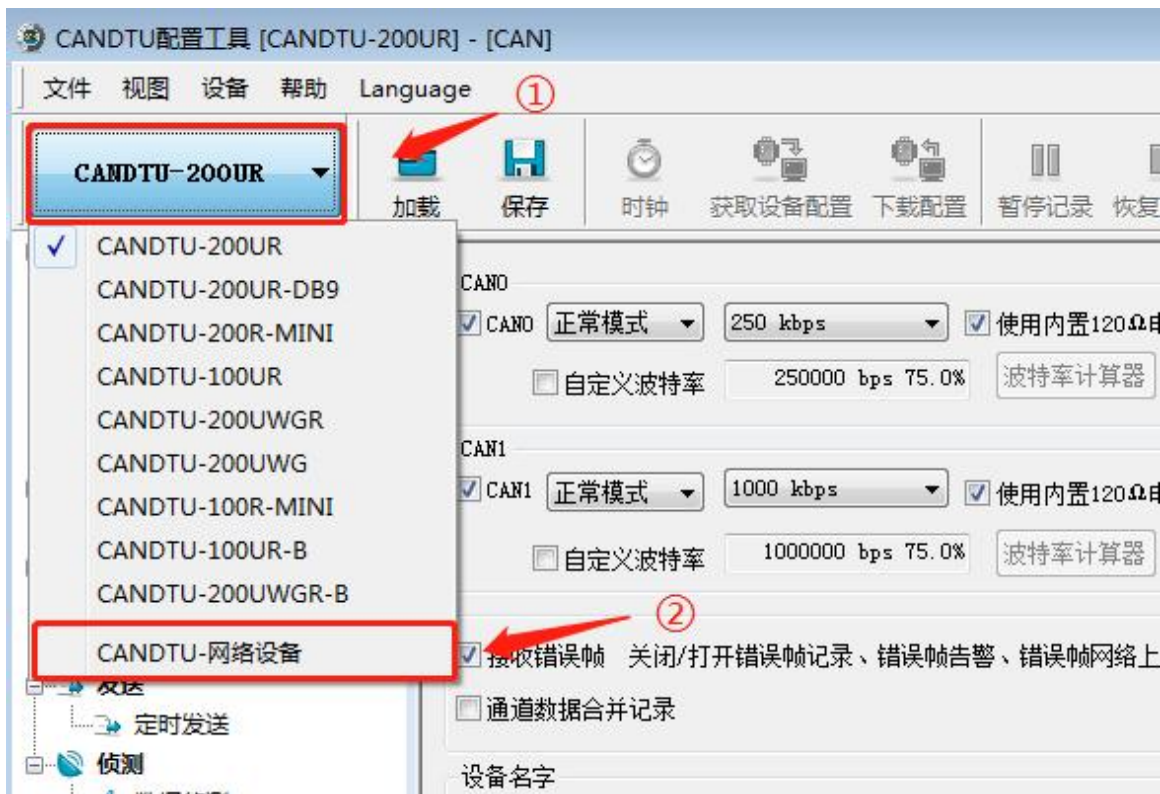


Figure 5.1 Starting the configuration tool



Figure 5.2 Searching devices

When the "Search Device" interface appears, it will automatically search for devices. If there is no device in the device list, click "Search Device" to refresh the device list. If the device cannot be found after several manual searches, try to "Bind NIC" and then manually search for the device.

After selecting the device in the device list, click "OK" to display the "Device Configuration" interface.

5.4 Basic Configurations

When using the device for the first time, configure the channel's baud rate parameter and termination resistance ¹ switch as required.

5.4.1 Modifying Configurations

In the left menu bar of the configuration tool, click "CAN (FD)" to display the CAN (FD) channel configuration interface, as shown in Figure 5.3. After clicking the corresponding channel, configure the baud rate parameters and terminal resistance control of the channel.

¹Theoretically, each CAN bus only needs two terminal resistors at the near end and the far end.

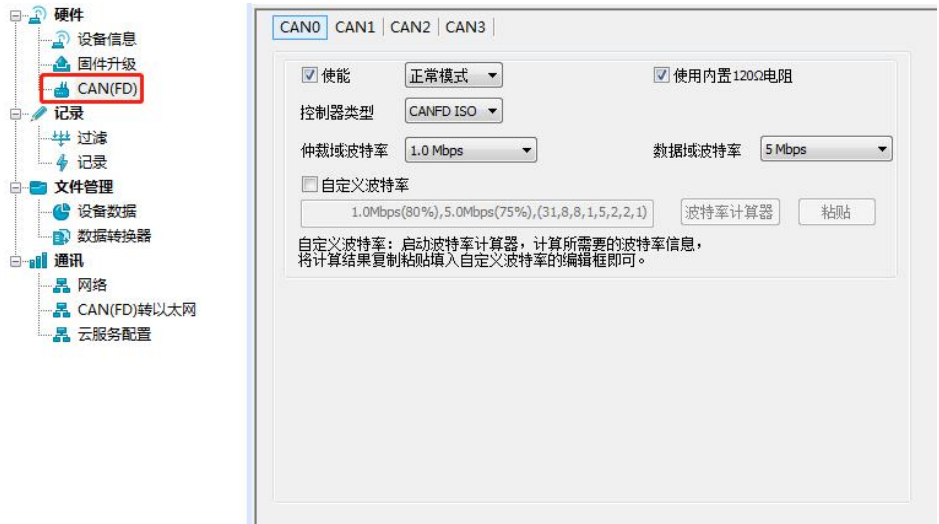


Figure 5.3 CAN (FD) channel configuration interface

After modifying the configuration parameters, click "Download Configuration" in the menu bar in the upper part of the configuration tool. Enter the password 88888 as prompted (modification is not supported). Click "OK" to start downloading the configurations, as shown in Figure 5.4. When downloading the configurations, the "Wait for device configuration to complete" interface appears, as shown in Figure 5.5. After the device is successfully configured, the interface disappears automatically.

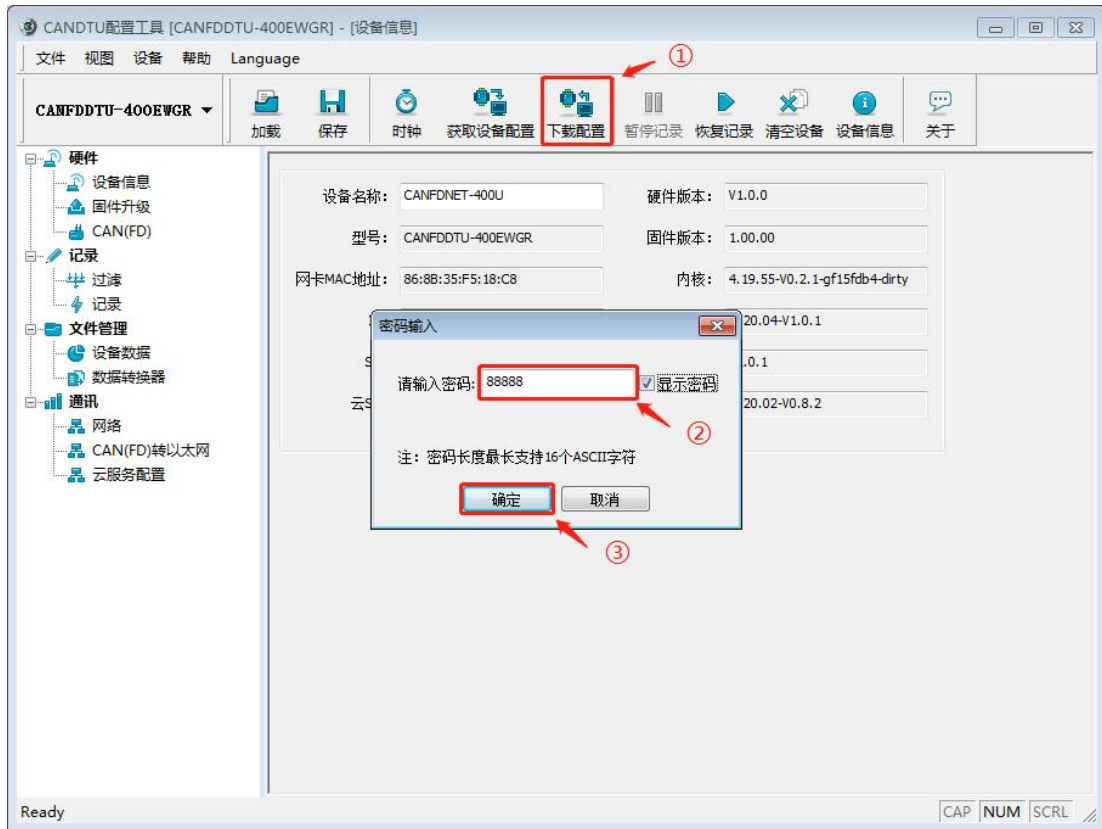


Figure 5.4 Downloading configurations



Figure 5.5 Waiting for configuration to complete

After the download is complete, click "Get Device Configuration" in the upper menu bar of the configuration tool to view the device configurations.

6. Disclaimer

Based on the principle of providing better service for users, Guangzhou Zhiyuan Electronics Co., Ltd. (hereinafter referred to as "Zhiyuan Electronics") will try to present detailed and accurate product information to users in this manual. However, due to the certain timeliness of this manual, Zhiyuan Electronics cannot fully guarantee the timeliness and applicability of this document at any time. Zhiyuan Electronics shall reserve the right to update this manual without prior notice. To get the latest version, please visit the official website of Zhiyuan Electronics regularly or contact Zhiyuan Electronics. Thank you for your tolerance and support!

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