4G DTU-Data Transmission Module

USER'S MANUAL

Please read this user’ s manual carefully before use
Please keep this user’ s maunal properly

User Privacy Instructions

We take your privacy very seriously and we promise to inform you how we use the data. Users' private data, such as mailboxes, address, before uploading to the cloud, we will get your permission, and we will work hard to protect your data security.

Description

- Receive data signal from cloud server and transmit to the main device;
- Receive data signal from main device and transmit to cloud server;
- DTU remote up-grade throught cloud server;
- LED light shows DTU status and mobile network signal status.

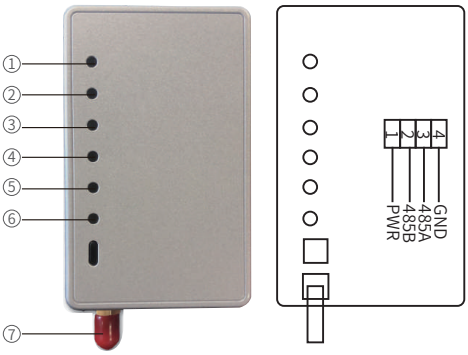
Technical Parameters

OPERATING VOLTAGE: DC80V~26V (Recommended value 12V)
OPERATING CURRENT: Max. recurrent peak 1A, average standby current 40mA, sleep current 3mA
TEMP. RANGE: Operating Temp.: -30°C~+70°C; Storage Temp.:-40°C~+85°C
MOISTURE RESISTANCE: IPX0
RS485 COMMUNICATION RATE: up to 10Mbps
RS485 NUMBER OF NODES: up to 32 nodes
LED INDICATOR LIGHT: 6 lights, power indicator,Network exception indicator,communication indicator, signal indicator(Strong-mid-weak)
DIMENSION(L×W×H): 90mm×56mm×23mm

Installation

- There is a magnet on the back of the WIFI module, it can be installed indoors or outdoors, and avoid direct sunlight;
- Please scan the following QR code to download APP;

Functional Description



①LED power indicator: light on, when the power is switched on;

②LED exception indicator: light on, when fail to communicate with server, mainboard or base station;

③LED communication indicator: light on, when normal communicate with server; flicker, when communicating occurs; light off, when fail to communicate;

④ ⑤ ⑥LED signal indicator: Strong-Mid-Weak:
⑥ light on: weak signal;
⑤ ⑥ light on: intermediate signal;
④ ⑤ ⑥ all light on: strong signal;

④ ⑤ ⑥all light off: fail to communicate. DTU fail to connect with base station, SIM card or antenna problem;

⑦: antenna, to send or receive signal.

Account Login

Use email address and password to register, login or reset the password.

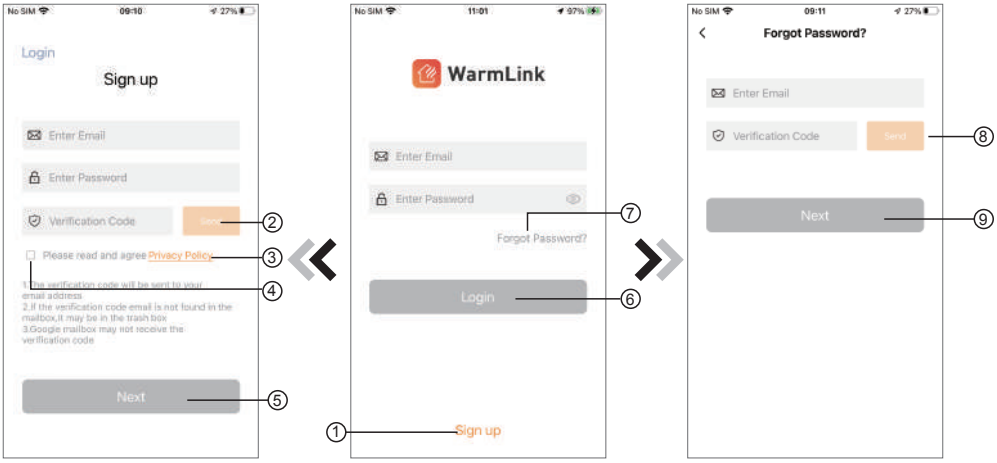


Fig.2 Account Registration interface

Fig.1 Login interface

Fig.3 Forgot Password interface

1. Account Registration: To register an account, click ① (Fig.1) to jump to the Account Registration interface, fill in the relevant information and click ② to receive verification code, while completed the application information, click ③ to read the details of the Privacy Policy, then click ④ to agree, and click ⑤, registration is done.

   Please note, the valid time of one verification code is 120s, please fill in the verification code within 120s, otherwise you need to ask for a new one.

2. Log in: Follow the instructions on the page(Fig.1), enter your registered email address and password, click ⑥ and jump to device list;

3. Forgot Password: While forget your password, click ⑦ (Fig.1), jump to the Forgot Password interface (Fig.3). Follow the instructions on the page, fill in the relevant informations, click ⑧ to receive verification code from your mailbox, click ⑨ to comfirm and password reset is done.

Bond DTU

After log in, displays My Device interface (Fig. 4) , follow the instruction to add DTU.

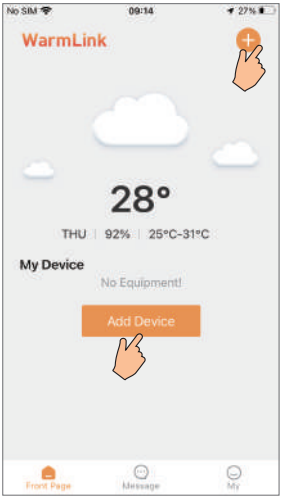


Fig.4 My Device interface

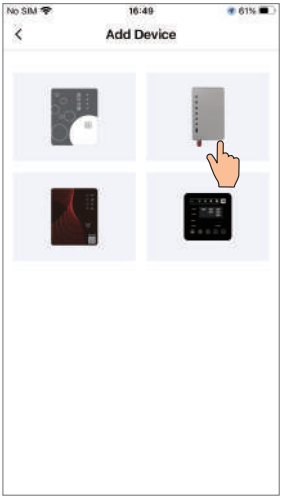


Fig.5 Add Device interface

Fig.6 Bond device interface

1. Scanning the WF code on the fuselage (Fig.7) or manual input to enter the WF code(Fig.8);
2. Bond the IMEI code on the device body, the steps are the same as bonding the WF code;
3. Click “Pair the device” jump to the My device interface.

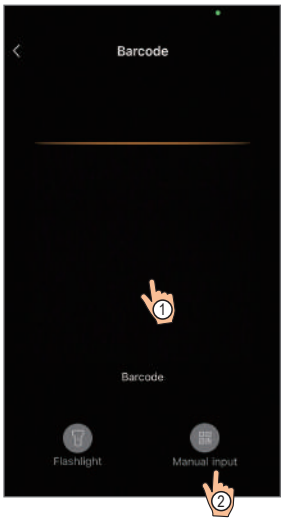


Fig.7 Scanning WF barcode

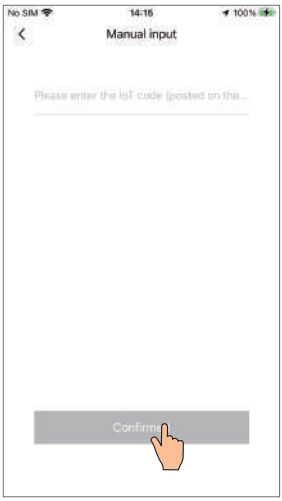


Fig.8 Manual input interface

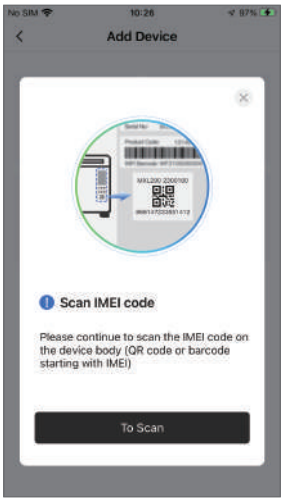


Fig.9 Scanning IMEI barcode

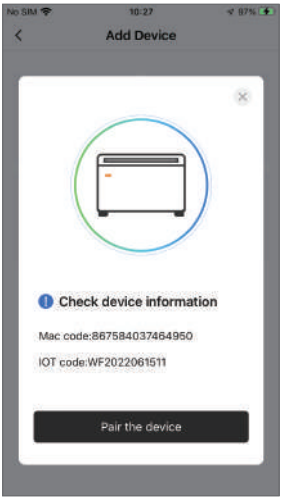


Fig.10 Bond device done interface

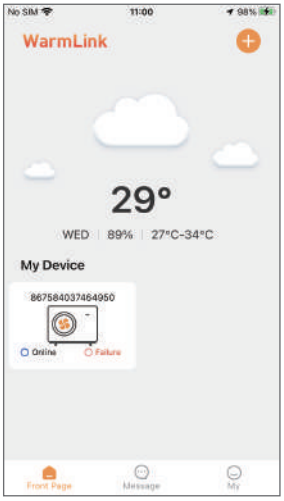


Fig.11 Device management interface

Device Management

Device management operations are as below :

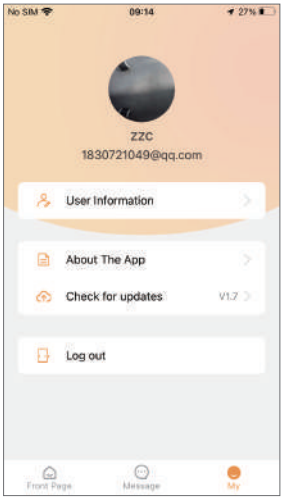


Fig.13 My information interface

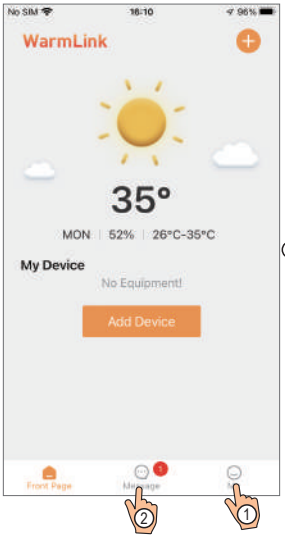


Fig.12 Device management interface

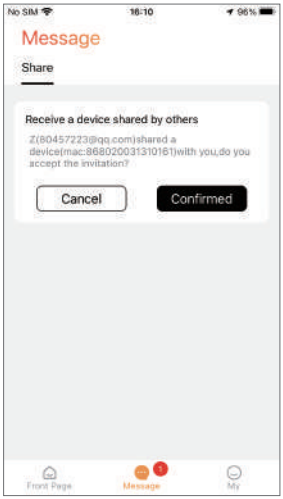


Fig.14 Share invitation data interface

Heating Device Control

Guidelines for interface jumps

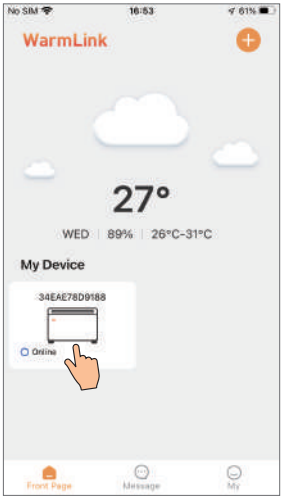


Fig.15 Device management interface

Fig.16 Device Main interface

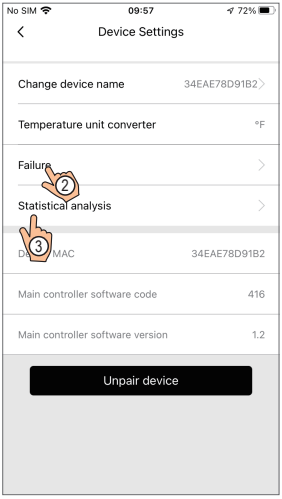


Fig.17 Setting interface

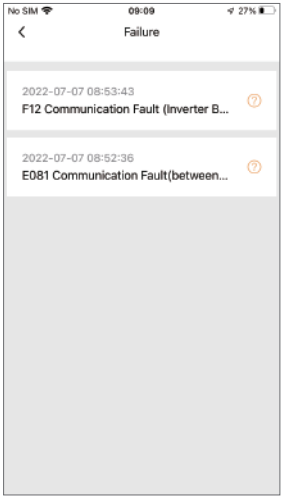


Fig.18 The failure interface

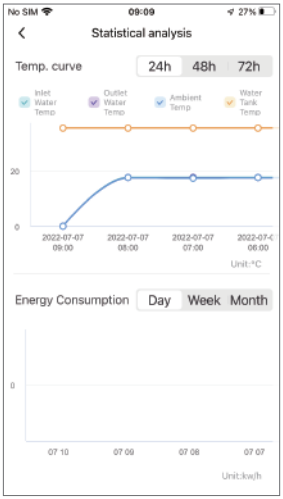


Fig.19 Statistical analysis interface

Heating Device Control

Guidelines for interface jumps

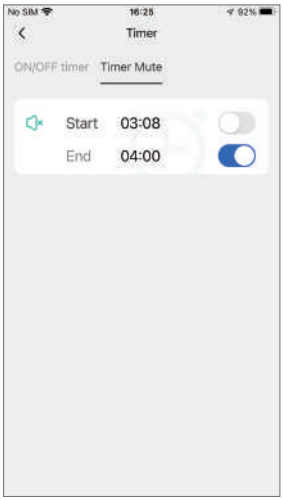


Fig.25 Time Mute interface

Fig.20 Device Main interface

Enter email account for device sharing

Fig.21 Device share interface

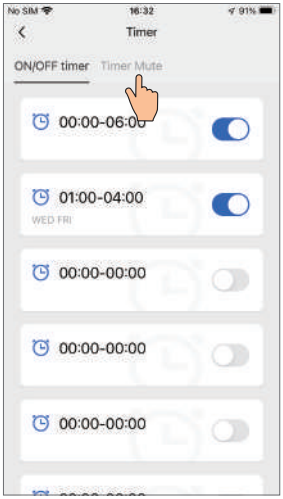


Fig.24 Timer Setting interface

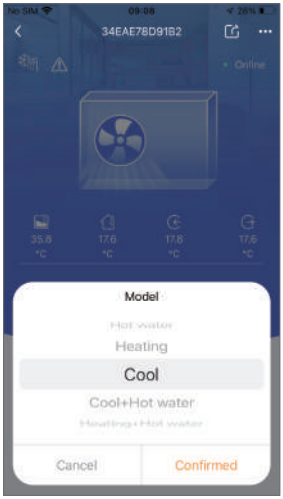


Fig.23 Mode switching interface

Fig. 22 Mute Setting interface

Fan Coil Device Control

Guidelines for interface jumps

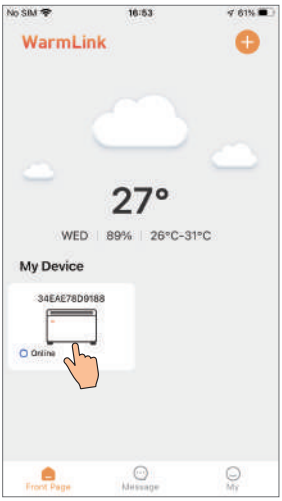


Fig.26 Device management interface

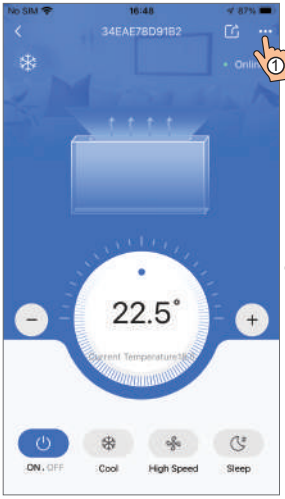


Fig.27 Device Main interface

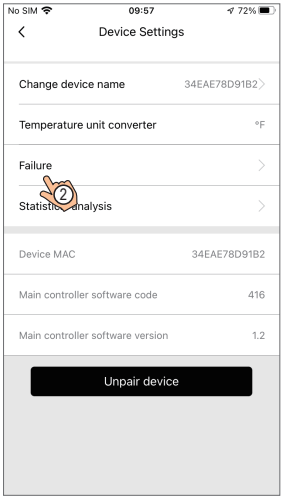


Fig.28 Setting interface

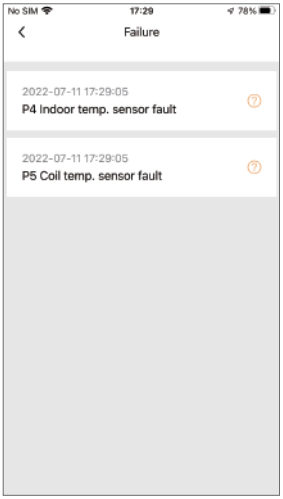


Fig.29 The failure interface

Fan Coil Device Control

Guidelines for interface jumps

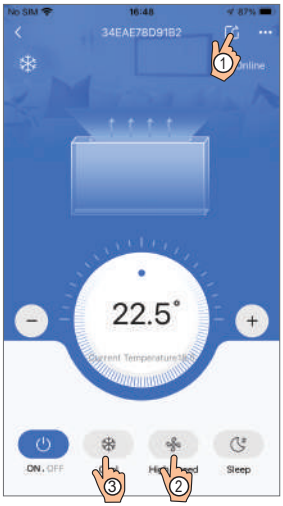
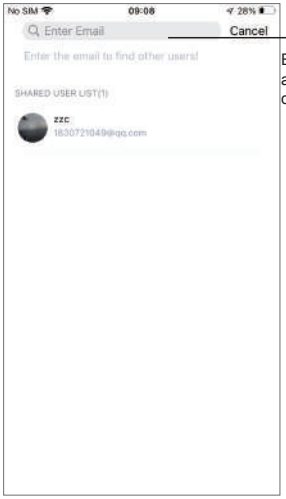


Fig.30 Device Main interface



Enter email account for device sharing

Fig.31 Device share interface

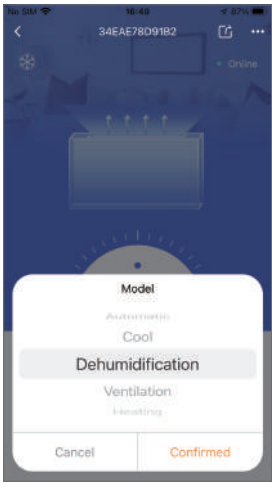


Fig.33 Mode switching interface

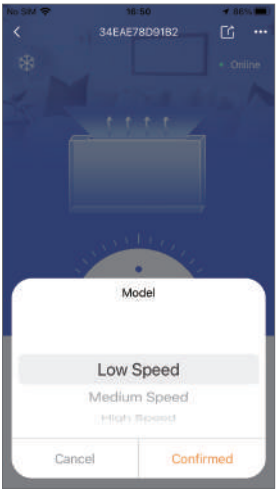


Fig. 32 Speed setting interface

ICON	NAME	FUNCTIONS
	ON/ OFF	Click it to turn on/ off the unit
	Silent Mode Off/on	Displays mute mode. Click to switch mute mode
	Timers settings	Click to enter timer on/off
	Troubleshooting	Click to view device failure information
	heating and hot water	Select Save to change the working mode
	hot water	Select Save to change the working mode
	heating	Select Save to change the working mode
	refrigeration	Select Save to change the working mode
	refrigeration and hot water	Select Save to change the working mode
	Electric heating condition	Display electric heating status
	Defrost status	Display defrost status
	Water flow	Display water flow
	The environment temperature	Display ambient temperature
	water inlet temperature	Display inlet temperature
	Tank temperature	Display tank temperature
	Indoor temperature	Display room temperature (room temperature)
	hot water temperature	Display outlet water temperature
	Setting	Click to change the functions setting of unit