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℃~+70℃; Storage Temp.:40℃~+85℃

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

Tear off the back glue, paste it inside the electrical box or lead out to install indoor, and wire it according to the circuit diagram.

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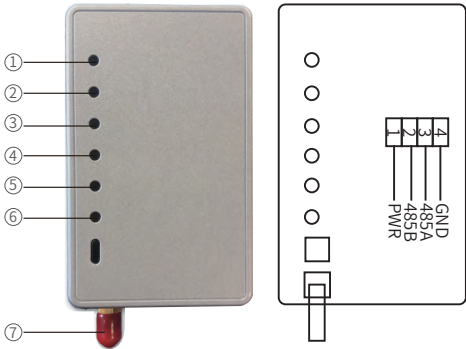
① LED power indicator: light on, when the power is switched on;

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

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

④ ⑤ ⑥ LED 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 ⑥ all 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.
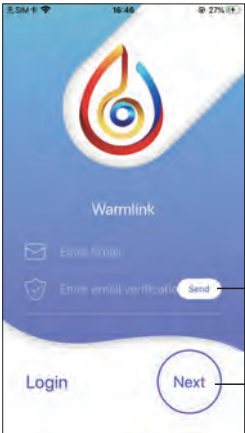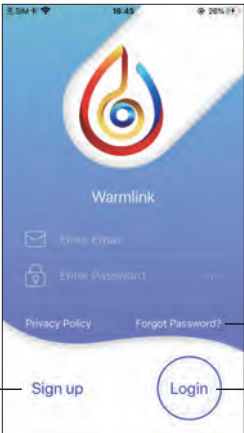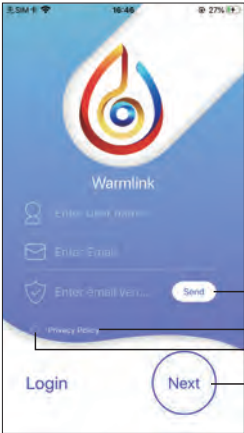

Fig.2 Account Registration interface   Fig.1 Login interface   Fig.3 Forgot Password interface

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 15min, please fill in the verification code within 15min, 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.

Add Device

After log in, displays My Device interface (Fig. 4) , follow the instruction to add WIFI or DTU.
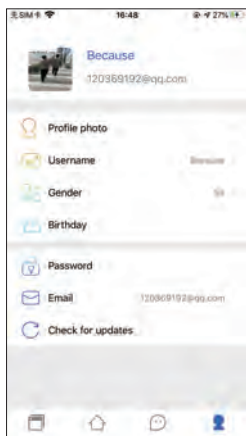
Fig.5 Personal information	Fig.4 My Device interface	Fig.6 Add Device interface
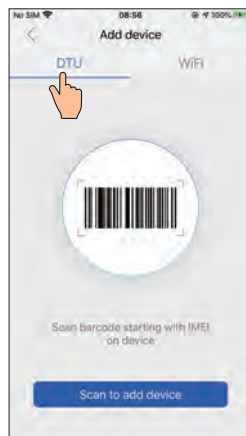
Bond DTU

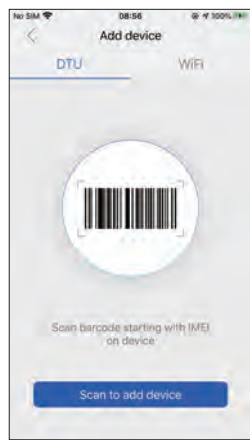Following the instruction on the page to bond DTU.

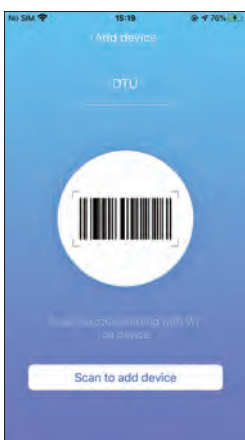

Fig.7 Scanning IMEI barcode   Fig.8 Scanning WF barcode   Fig.9 Bond device done interface

Device Management
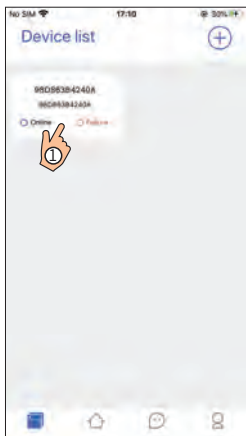
Device management operations are as below :
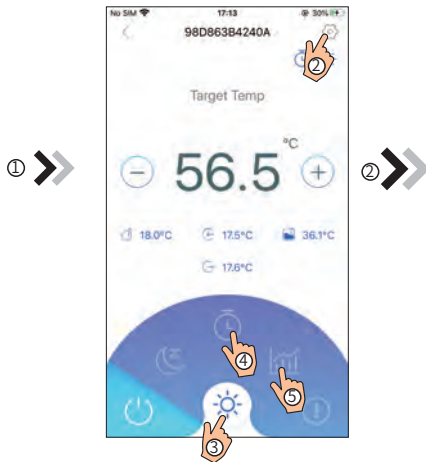

Fig.10 Troubleshooting interface

Fig.11 Device Main interface

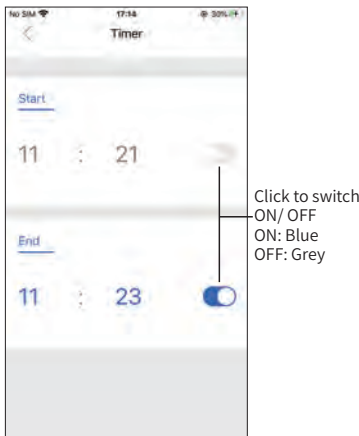Fig.12 Setting interface
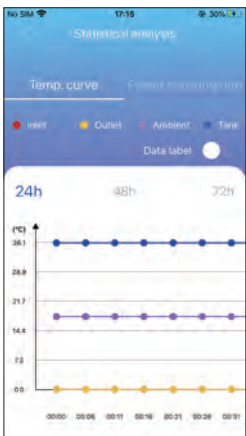

Fig.13 Mode switching interface

Click to switch
ON/ OFF
ON: Blue
OFF: Grey

Fig.14 Timers settings interface

Fig. 15 Temperature curve

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
	Temperature curve	Click to view device curve information
	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