

Edge Computing Gateway

EG8200 Series Quick Start Instruction



CONTENTS

- 1、 Power and Connection 4
 - 1. Power and light status 4
 - 2. Ethernet /WiFi connection 5
- 2、 Basic 6
 - 1. Login screen 6
 - 2. DIY configuration 6
 - 3. System Information 8
 - 4. WWAN (4G) Property 10
 - 5. WiFi configuration 10
 - 6. WAN configuration 12
 - 7. LAN configuration 13
 - 8. Senior 13
 - 9. Visual programming 15
 - 10. Instructions for nodes 15
- 3、 Visual programming – Process import and export 16
 - 1. Process import 16
 - 1.1 Enter the import function page 16
 - 1.2 Select the process and import it 17
 - 1.3 Deployment process 18
 - 2. Case import 18

2.1. Enter the import function page	19
2.2. Select a case	19
2.3. Import a case	20
2.4. Deployment Cases	21
3. Process export	22
3.1. Enter the export page	22
3.2. Select the process and export	23
4. Remote management (instructions for IOTClient)	23
1. Software download and installation	23
2. Login In	24
3. Add a device	24
4. Group management	26
5. Device sharing	27
6. Remote configuration and programming	27
7. NAT traversal	29
5. WEB CONFIGURATION	31

1、Power and Connection

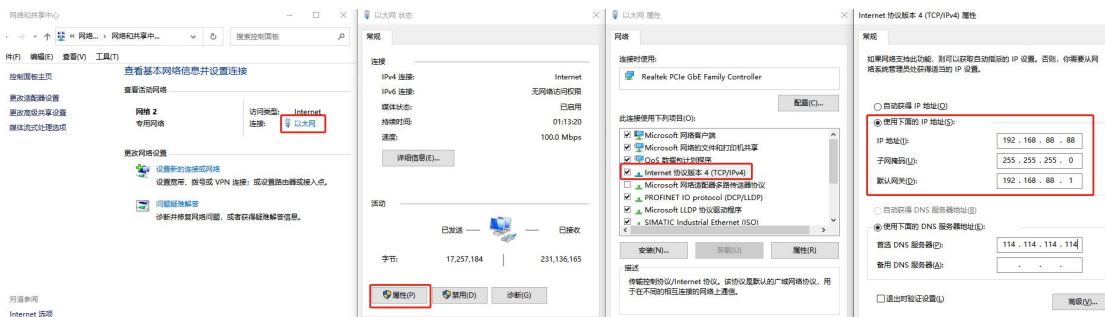
1. Power and light status

Use DC12V to connect to the power supply terminal of the device, and you will see the power light always on.

Name	Function	State	Description
POW/PWR	Power light	Always off	The power supply is abnormal
		Always on	The power supply is normal
SYS/RUN	System working status light	Always extinguished	The internal program is not running
		600ms ON / 600ms OFF	The program is running, but not connected to the Internet (the Internet address is the configured detection address)
		100ms ON / 2800ms OFF	Run the program and connect to the Internet
4G	Module status light	200ms ON / 1800ms OFF	Finding the network
		1800ms ON / 200ms OFF	Standby
		125ms ON / 125ms OFF	Data transferring
WIFI	STATION connection status light	Always off	Disabled state
		Always on	Enabled state, connected to an external hotspot
		flashing	Enabled state, not connected to an external hotspot
GPS	STATION connection status light	Always off	Location not be obtained
		flashing	Location be obtained
LED1-2	Customize light	0	Always off
		1	Always on
		2	Slow flashing
		3	Quick flashing

2. Ethernet /WiFi connection

- Connect the computer network port to the LAN port of the device with an Ethernet cable, and the **default IP address of the LAN port of the device is 192.168.88.1**. Need to set the LAN port IP of the computer and the device to the same IP address range, otherwise the device and the computer can not communicate. As shown in the figure below:



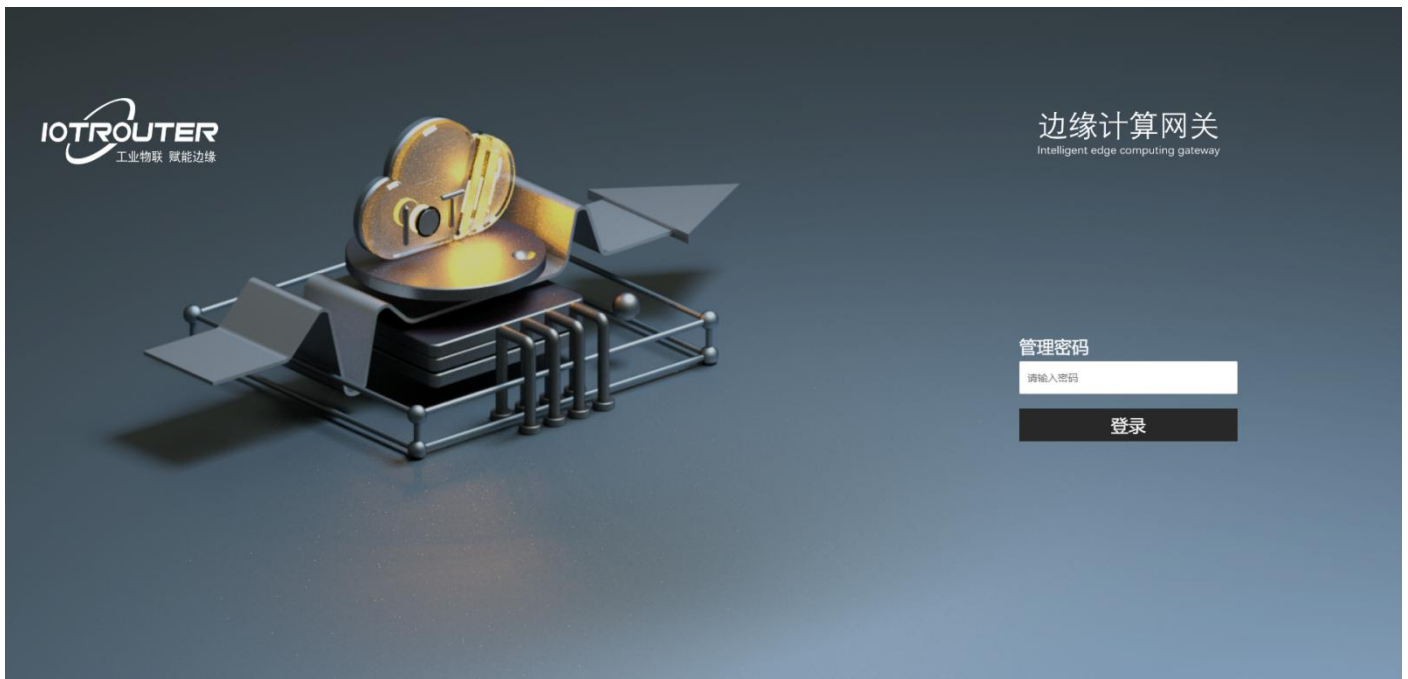
- The computer connects to the hotspot of the device through the WiFi function, WiFi name: (device model - Last 4 digits of the SN number), Password: EG12345678, the default IP of WiFi is 192.168.88.1 (the same as the IP of LAN), as shown in the figure:



2、 Basic

1. Login screen

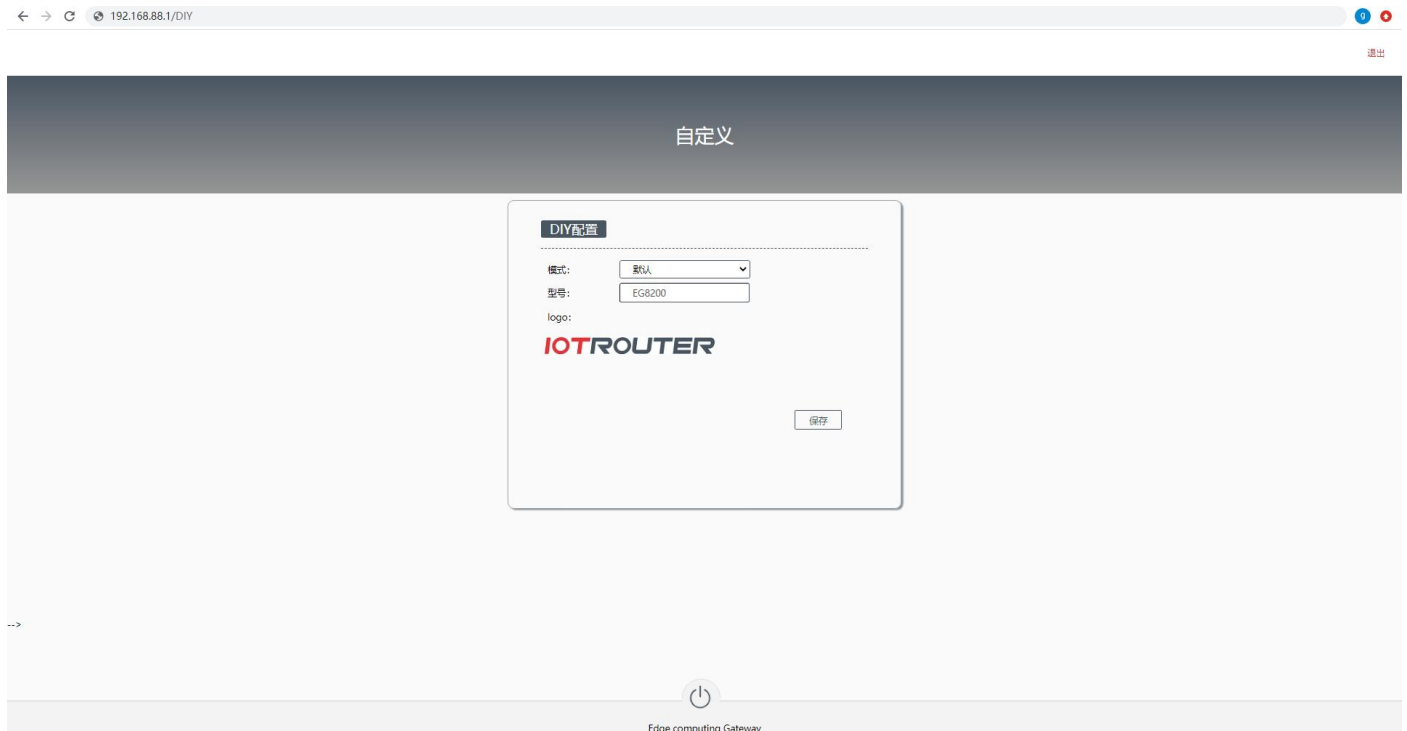
Open your browser and type 192.168.88.1 in the address bar, enter the login interface, and manage the **default password EG12345678** (you can change it yourself after logging in).



- Manage password: Enter the management password EG12345678 enter the device management page.

2. DIY configuration

After logging in to the configuration page, you can enter the device access IP: 192.168.88.1/DIY to enter the device DIY configuration page.



- Default: Factory default mode, Model (EG8200) /LOGO (IOTROUTER) 。
- Neutral: Model (IOT8200) , without any logo.
- White label: The LOGO can be customized and uploaded, and it will be saved and effective after modification.

3. System Information

系统信息

型号: EG8200
版本: 2001.23072601
设备SN: 820000002C7B158F
系统时间: 2023/8/29 下午 2:52:23 [校准] [时区]
联网模式: AUTO [设置]
远程管理:

设备负荷

3% CPU负荷
31% 内存负荷

Edge computing Gateway

联网配置

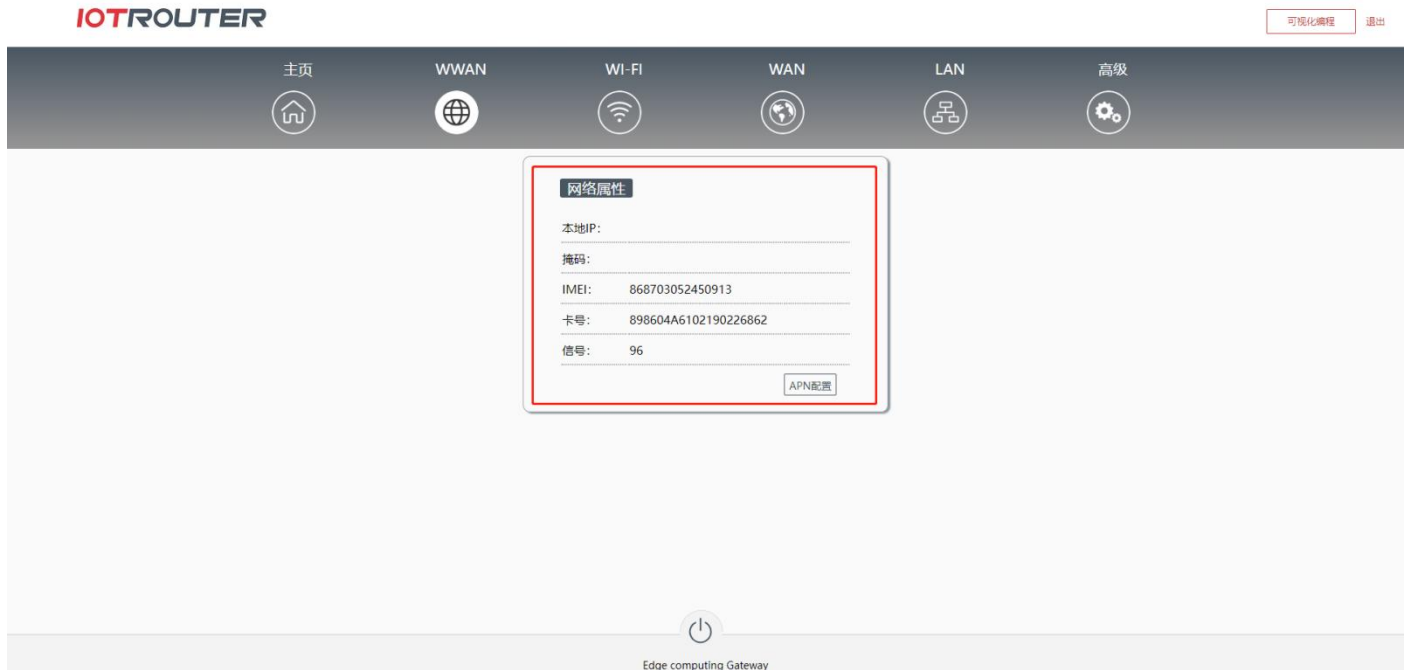
联网模式: AUTO WAN WWAN WIFI
嗅探地址1: www.baidu.com
嗅探地址2: www.alibaba.com
嗅探间隔(s): 20
嗅探次数: 3
[保存] [返回]

Edge computing Gateway

- Model: EG8200 (Note: Any configuration modification on the homepage will take effect after reboot).

- Version: 2001.23072601 (may change as the upgrade).
- Device SN: the unique number of the device, which is required for remote management.
- System time: RTC clock, click to Calibrate, time zone customization (UTC/GMT+08:00).
- Network mode: default AUTO (automatically switch the networking mode according to the network environment), and at the same time, the priority networking order is WAN/WiFi/WWAN (4G), and the other options are fixed for a certain mode of networking.
- Network sniffer: Ping the default sniffing address (the address and period can be modified as you need), determine the current network status, and automatically switch the network mode (AUTO), and if the network mode is fixed, the sniffing function is replay and reconnection.
- Remote management: used for remote access to configure the device, support to turn off it by clients (note: after turned off remote management, remote configuration will not be possible, and all consequences will be borne by yourself).

4. WWAN (4G) Property



- Local IP: IP address that is automatically obtained by the cellular network.
- Mask: Automatic Generation.
- IMEI: IMEI of the cellular module.
- Card number: SIM card number.
- Signal: current signal intensity (range 0-100, the higher the value, the stronger the signal).
- APN: support APN setting, click to enter the APN Configuration page.

5. WiFi configuration



- Mode: AP mode is used to create a Wi-Fi hotspot and allow other devices to connect to the hotspot, and STATION mode (**manually enabled by default, only the 2.4GHz band is supported**) is used for devices to connect to an existing Wi-Fi network.
- AP-WiFi name: a combination of numbers, letters, and symbols, up to 32 characters (the default is Device Model - last 4 digits after SN number).
- AP-WiFi Password: A combination of numbers, letters, and symbols, at least 8 characters.
- STATION - CONNECTION NAME: MANUALLY ENTER THE NAME OF THE CONNECTED HOTSPOT.
- STATION - CONNECTION PASSWORD: MANUALLY ENTER THE PASSWORD OF THE CONNECTED HOTSPOT.
- STATION-IP MODE: DHCP / STATIC (MANUALLY SET IP).

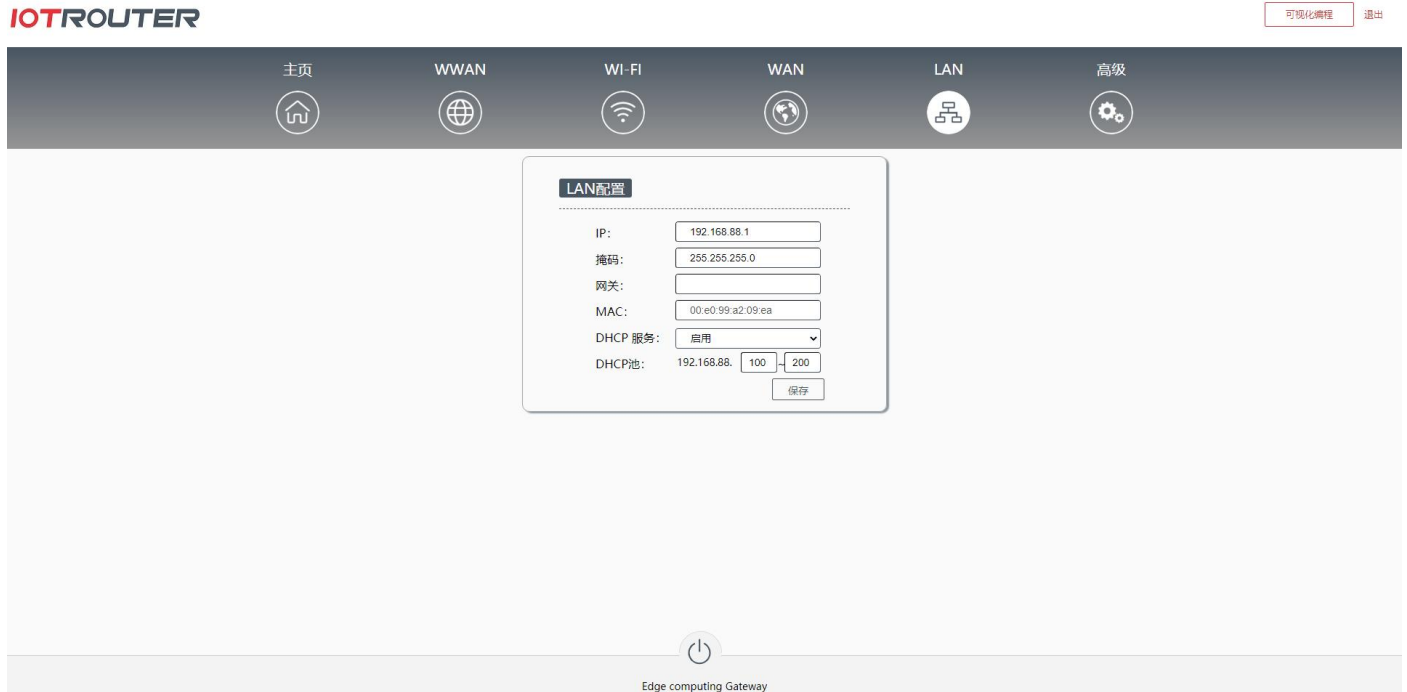
Note: The AP hotspot needs to enable the DHCP service of the LAN before the device can assign IP to other devices connected to the hotspot.

6. WAN configuration



- IP Mode: Default DHCP.
- Static mode: You need to set the IP address you want to fix, and click Save to restart to take effect.
- MAC: MAC address of the WAN port.

7. LAN configuration



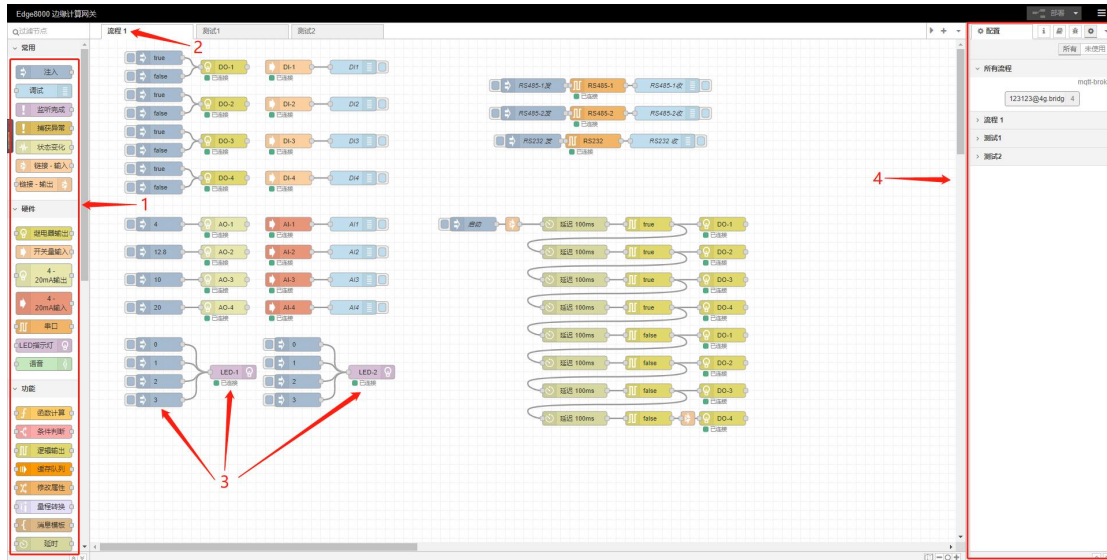
- IP: Default 192.168.88.1 (support change after log in to the configuration page).
- Mask: Automatic Generation.
- Gateway: Not set by default.
- MAC: MAC address of the LAN port.
- DHCP service: You can set a DHCP pool (shared WiFi and LAN) for external network supply, and set the save and restart to take effect.

8. Senior



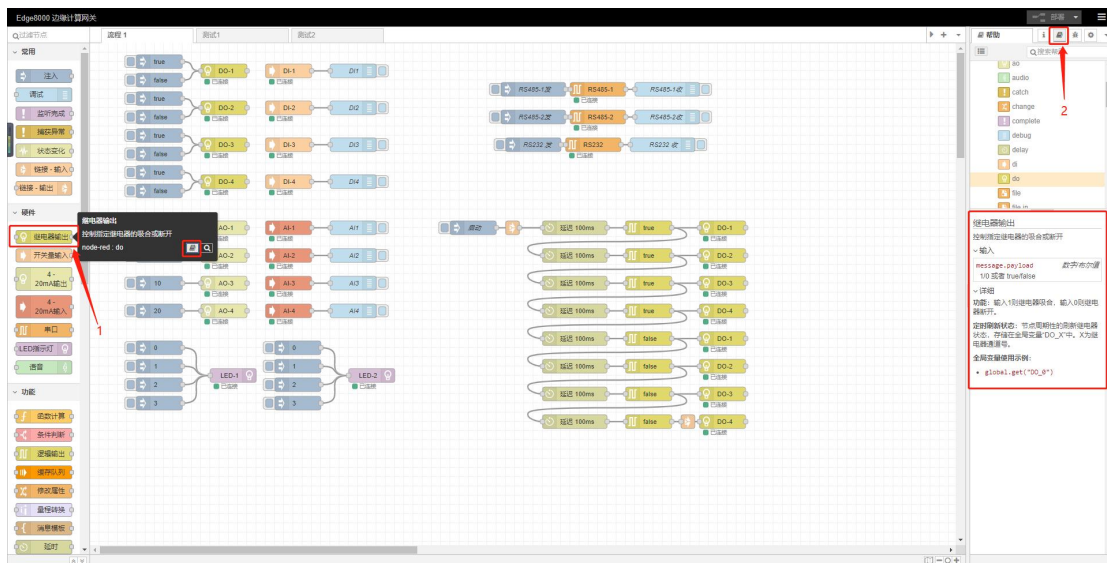
- Administrator Password: Change the login password.
- Factory reset: Restore to the factory configuration of the device, also support reset through the RESET button.
- DNS: domain name resolution, you can modify the DNS server by yourself.
- NTP: The time of the NTP server is synchronized with the network, and the NTP server with the * sign is preferred, and the private network can change the * address by itself.
- Visual Programming: Click Visual Programming to enter the programming page.

9. Visual programming



- 1: Function nodes
- 2: Process tab
- 3: Node
- 4: Sidebar

10. Instructions for nodes



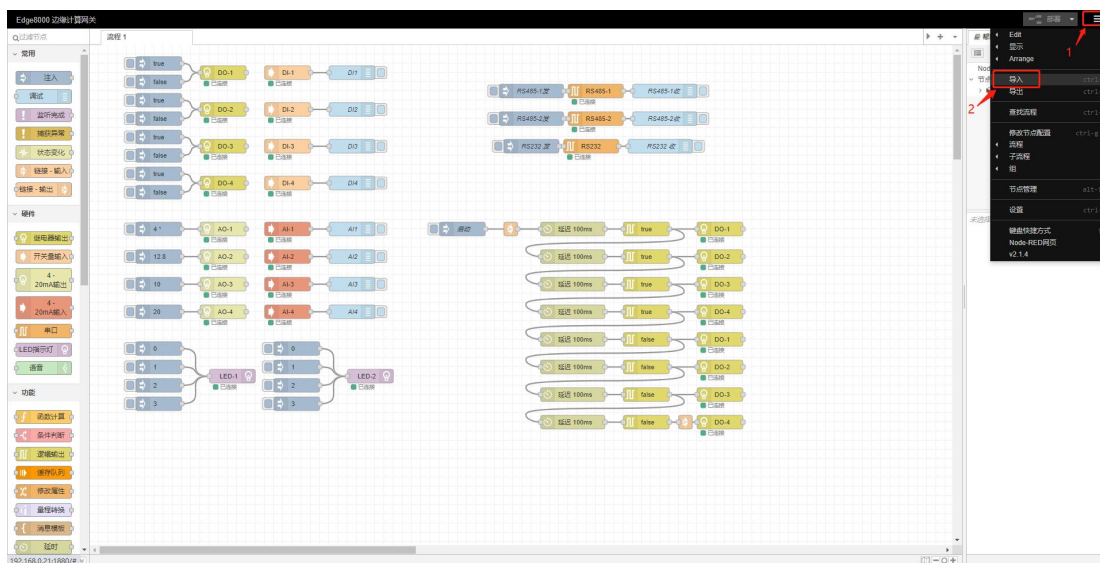
- 1: Click the node
- 2: Click Help to view the corresponding instructions of the node
- 3: For more details about nodes, please refer to the *Yuque documentation*

<https://iotrouter.yuque.com/org-wiki-iotrouter-rlzww5/eg8000>

3、 Visual programming – Process import and export

1. Process import

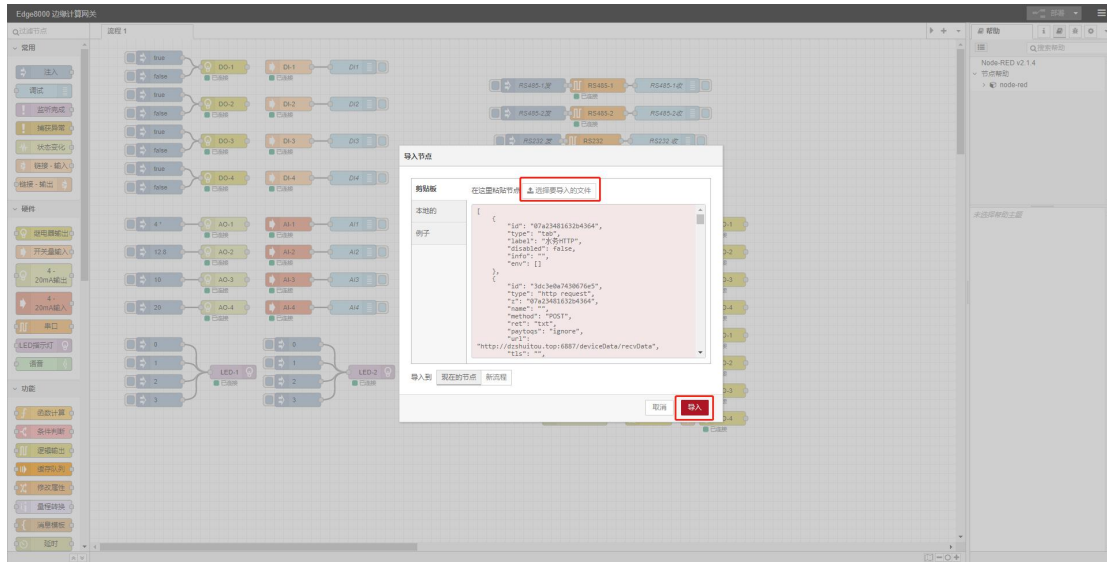
1.1 Enter the import function page



As shown above:

- 1) Click the icon in the top right corner
- 2) Click the Import button

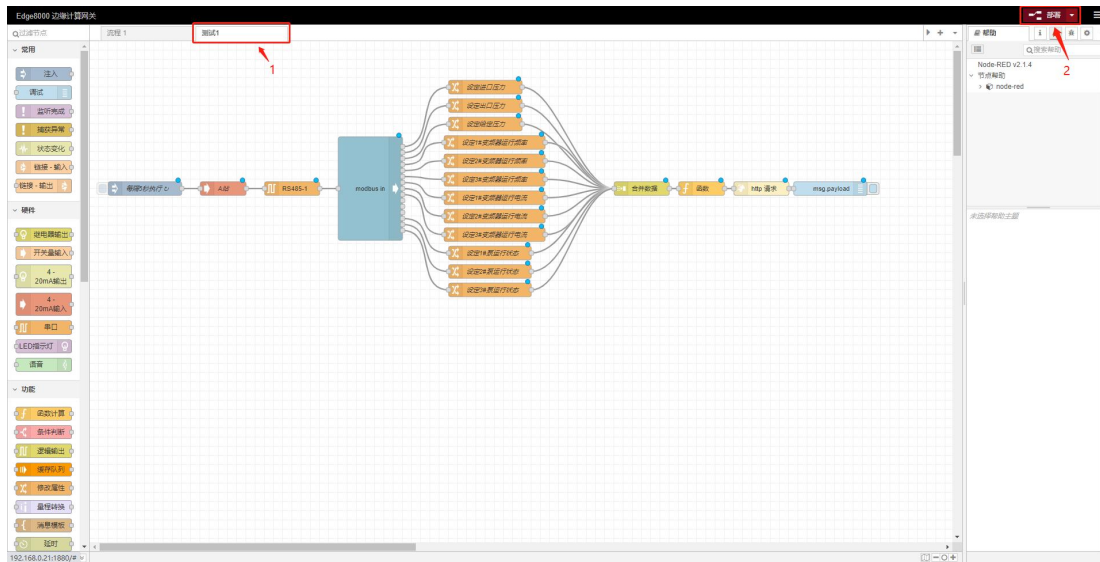
1.2 Select the process and import it



As shown above:

- 1) Select the files you want to import
- 2) Click Import

1.3 Deployment process



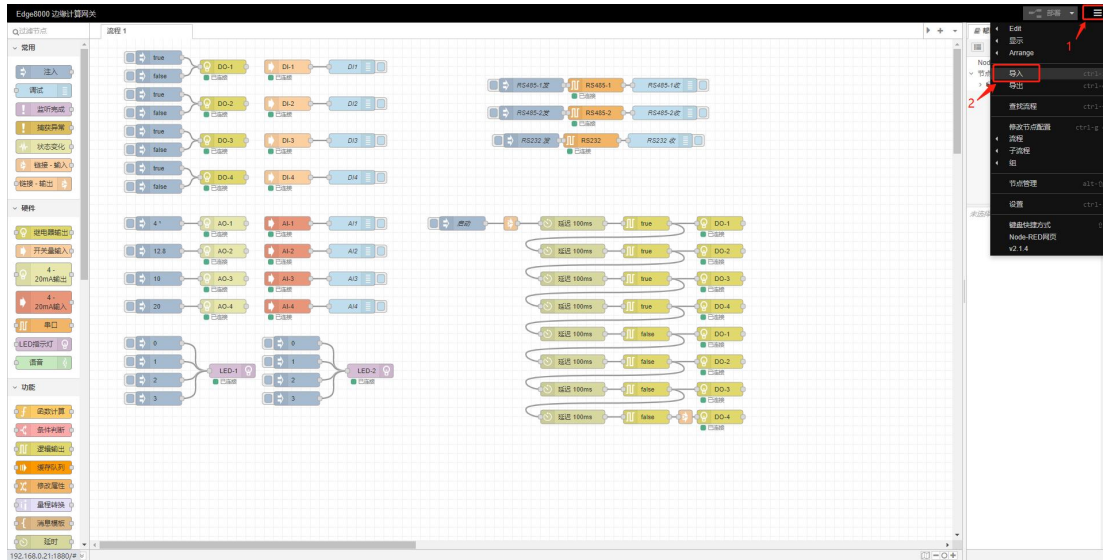
As shown above:

- 1) *Test 1* is the imported process file
- 2) Click Deploy to import successfully

2. Case import

The device has a variety of built-in commonly used process cases, and users can select the required cases according to the classification for reference or calling, helping you build powerful applications more efficiently!

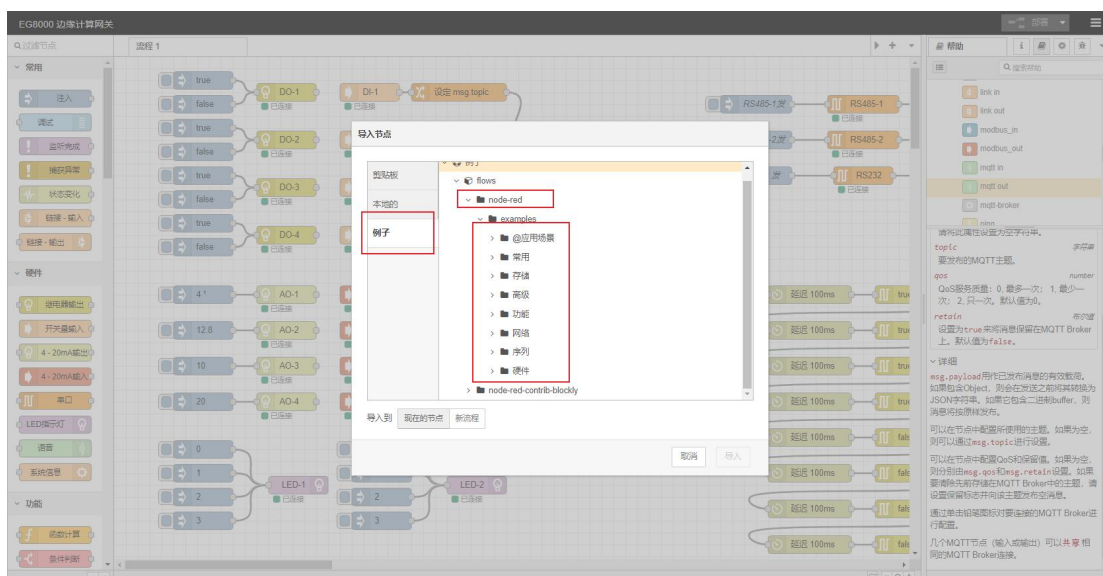
2.1. Enter the import function page



As shown above:

- 1) Click the icon in the top right corner
- 2) Click the Import button

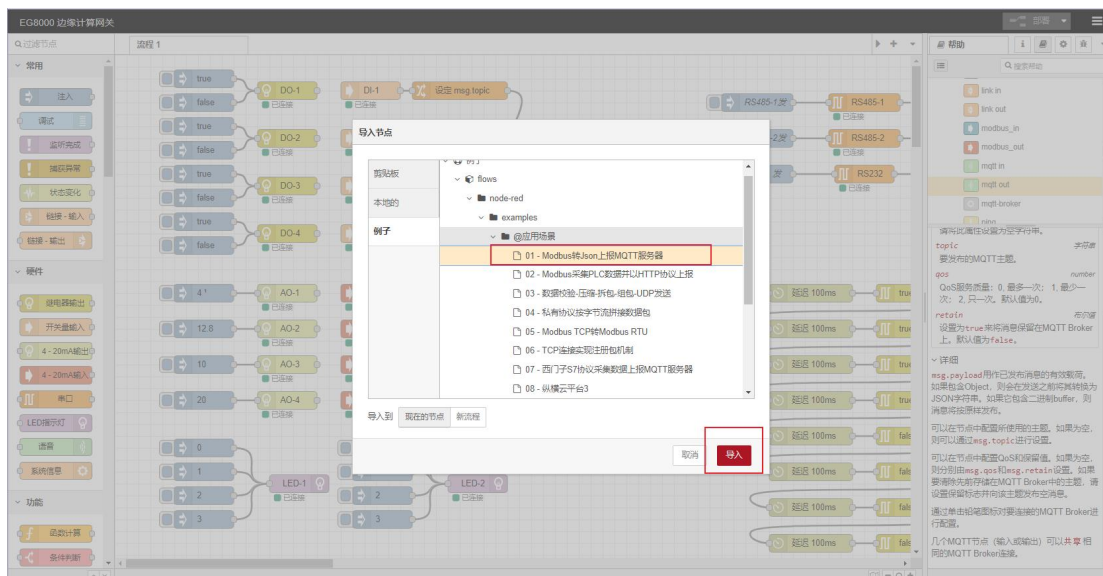
2.2. Select a case



As shown above:

- 1) Click on the example
- 2) Select examples in node-red
- 3) Select the desired example based on the folder name

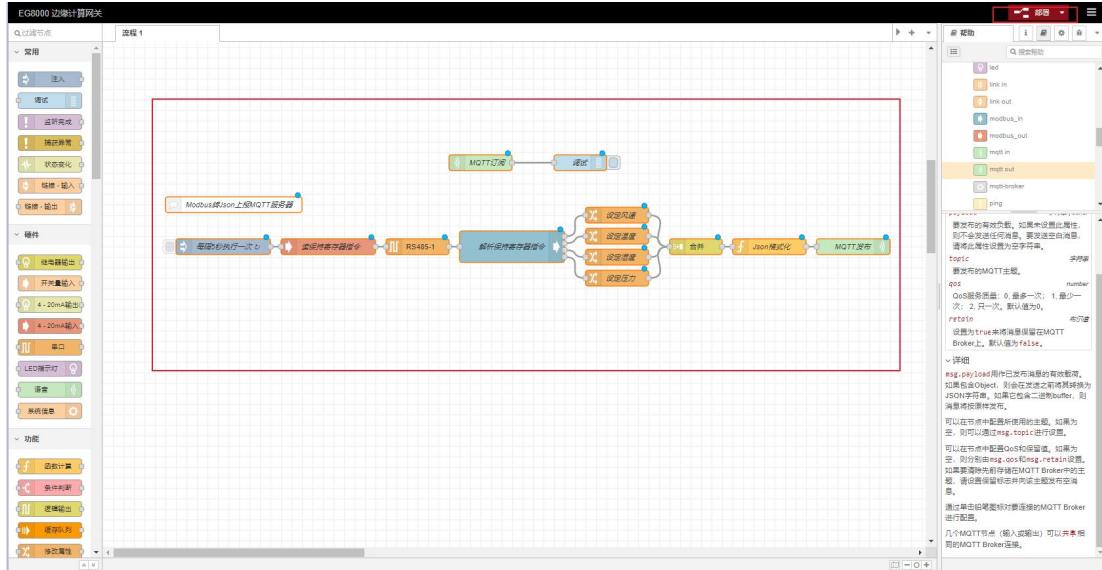
2.3. Import a case



As shown above:

- 1) Click on the corresponding example
- 2) Click Import

2.4. Deployment Cases

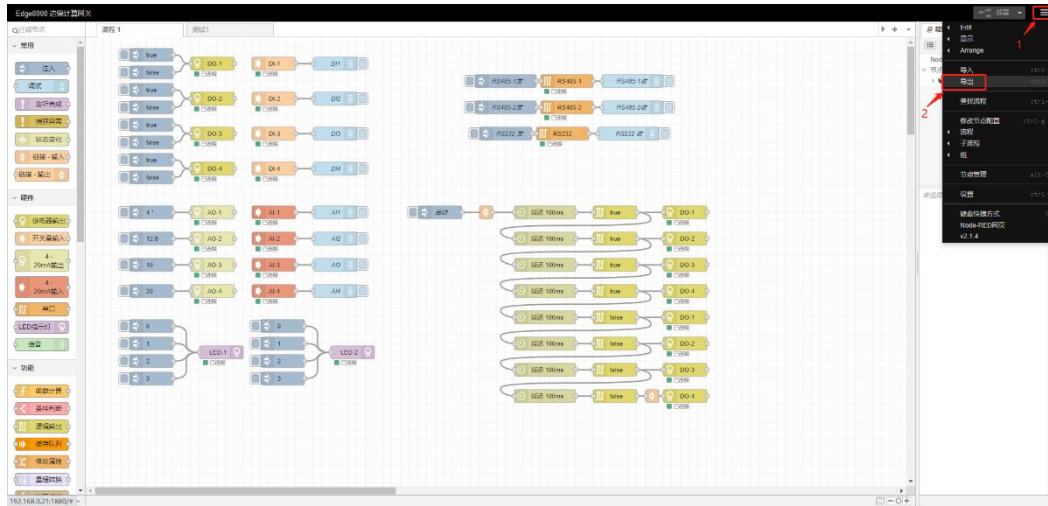


As shown above:

- 1) After importing, the imported case will appear on the canvas
- 2) Click Deploy to take effect

3. Process export

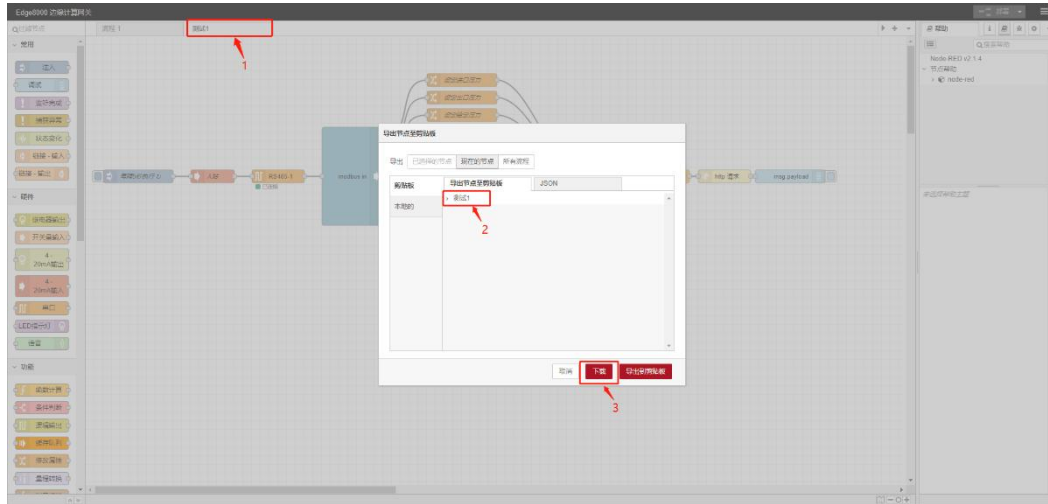
3.1. Enter the export page



Here we take the export of *Test 1* as an example, as shown in the figure above:

- 1) Click the icon in the top right corner
- 2) Click the Export button

3.2. Select the process and export



As shown above:

- 1) Select the process you want to export
- 2) Confirm that the export node is the required process
- 3) Click Download to generate the corresponding file

4、 Remote management (instructions for IOTClient)

1. Software download and installation

Go to the <https://www.iotrouter.com/product/> website and click "Data Download" to enter the download page, where you can download the remote management software of EG8200 series products.

2. Login In

Open the remote software and log in via account. If a new user uses SMS to log in, the system will automatically create an account, and the password will be empty (can be reset).



3. Add a device

After log in, click Add Device in the lower left corner, where SN is viewed in the login of the device, the password is the login password of the web page, the name is user-defined, and click Finish after fill in. (Each device has a unique SN and password, and after the device is bound, no one else can bind it again, unless the owner delete the device under the corresponding account.)

IOTROUTER 1.5.1.0

搜索分组
Search for the group...

当前分组：默认分组

状态	SN	名称	型号	版本号	操作
----	----	----	----	-----	----

添加设备

SN

设备密码

名称

请选择...

取消

刷新分组 新建分组 **添加** 删除 移动 分享 撤销分享 共 0 条 10条/页 首页 上一页 1/0 下一页 前往 跳转

IOTROUTER 1.5.1.0

搜索分组
Search for the group...

当前分组：默认分组

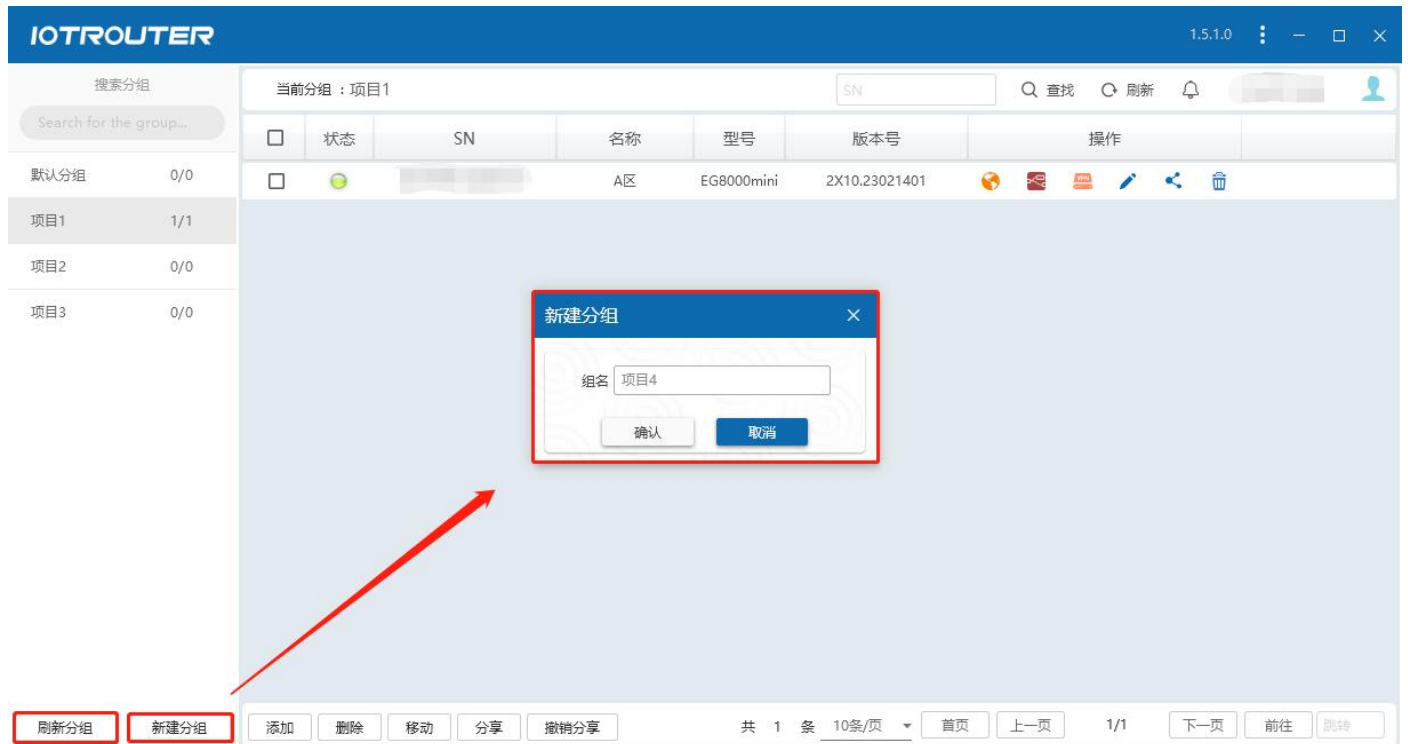
状态	SN	名称	型号	版本号	操作
		A区	EG8000mini	2X10.23021401	

刷新分组 新建分组 添加 删除 移动 分享 撤销分享 共 1 条 10条/页 首页 上一页 1/1 下一页 前往 跳转

在离线状态

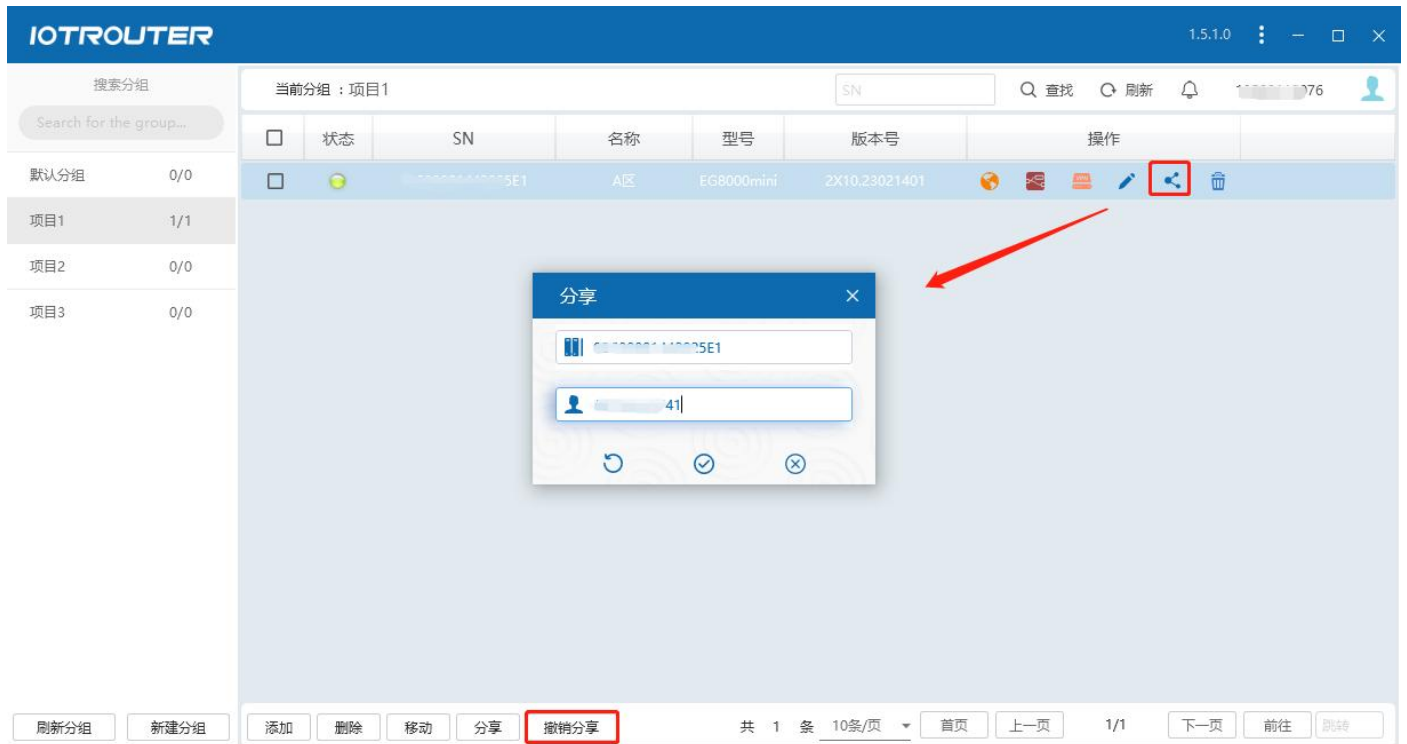
远程配置 远程编程 内网穿透 分享设备

4. Group management



- You can create multiple groups to manage devices by group, and if the corresponding group is not refreshed on the left after the new group, you can click Refresh Group.

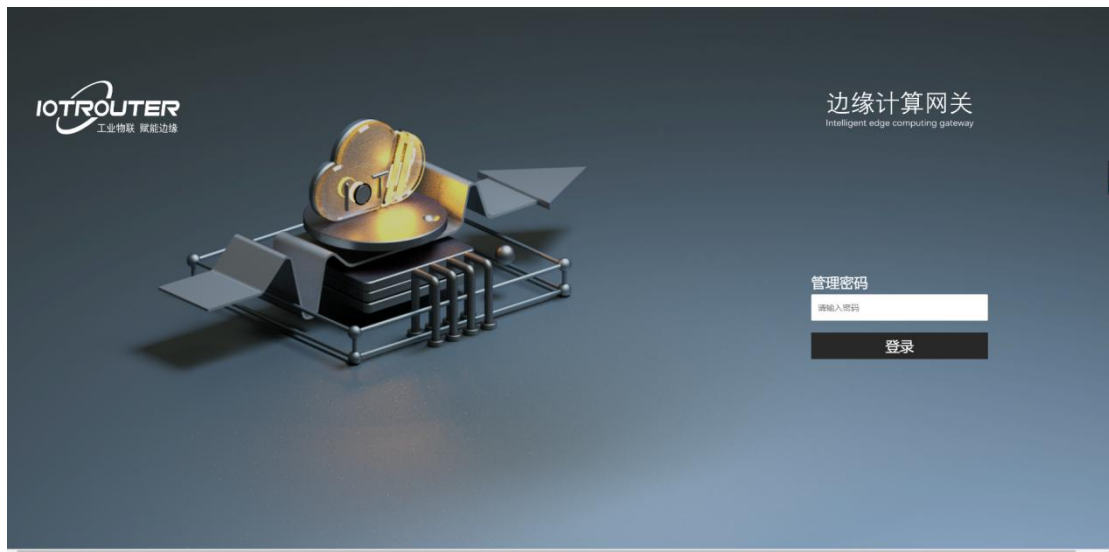
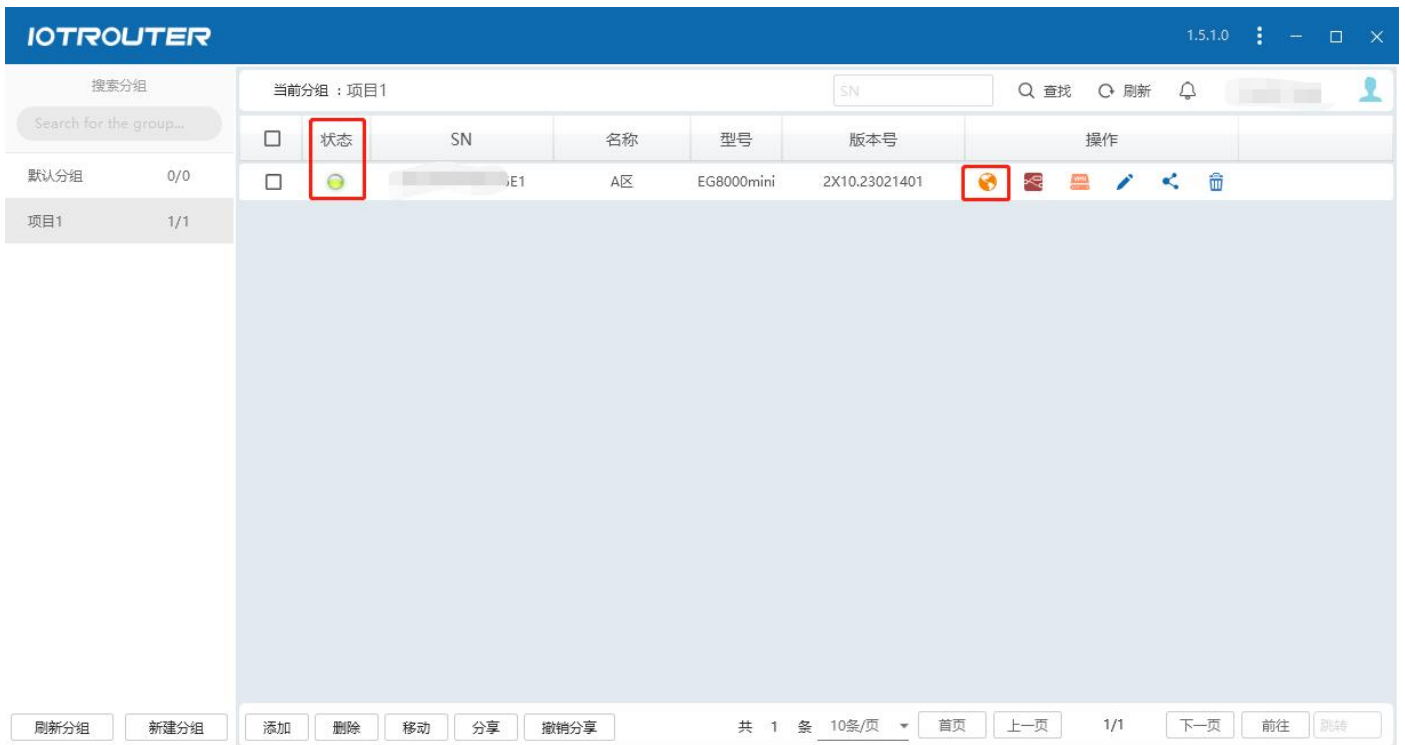
5. Device sharing



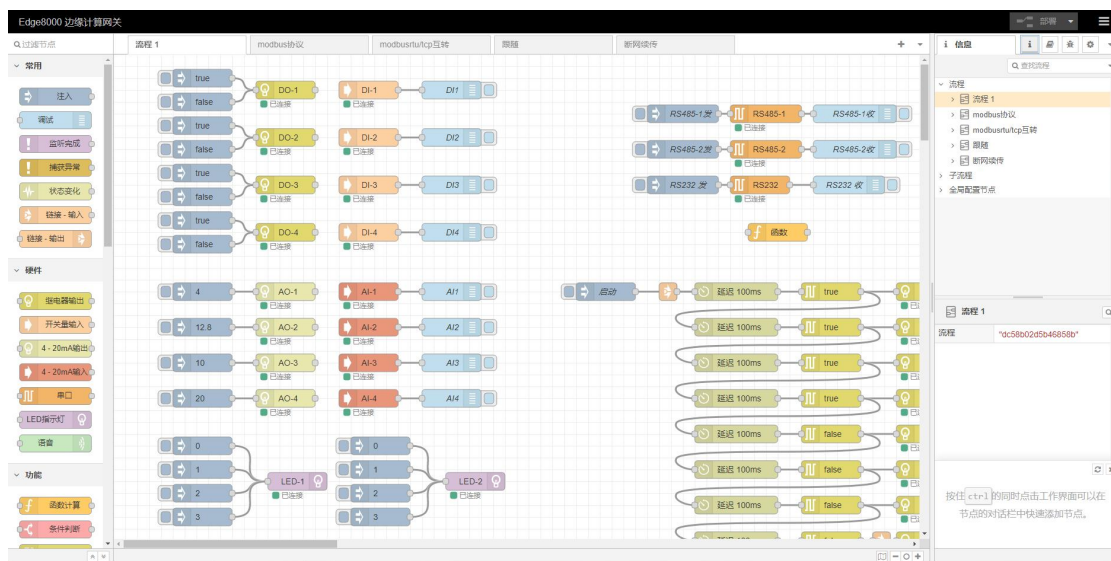
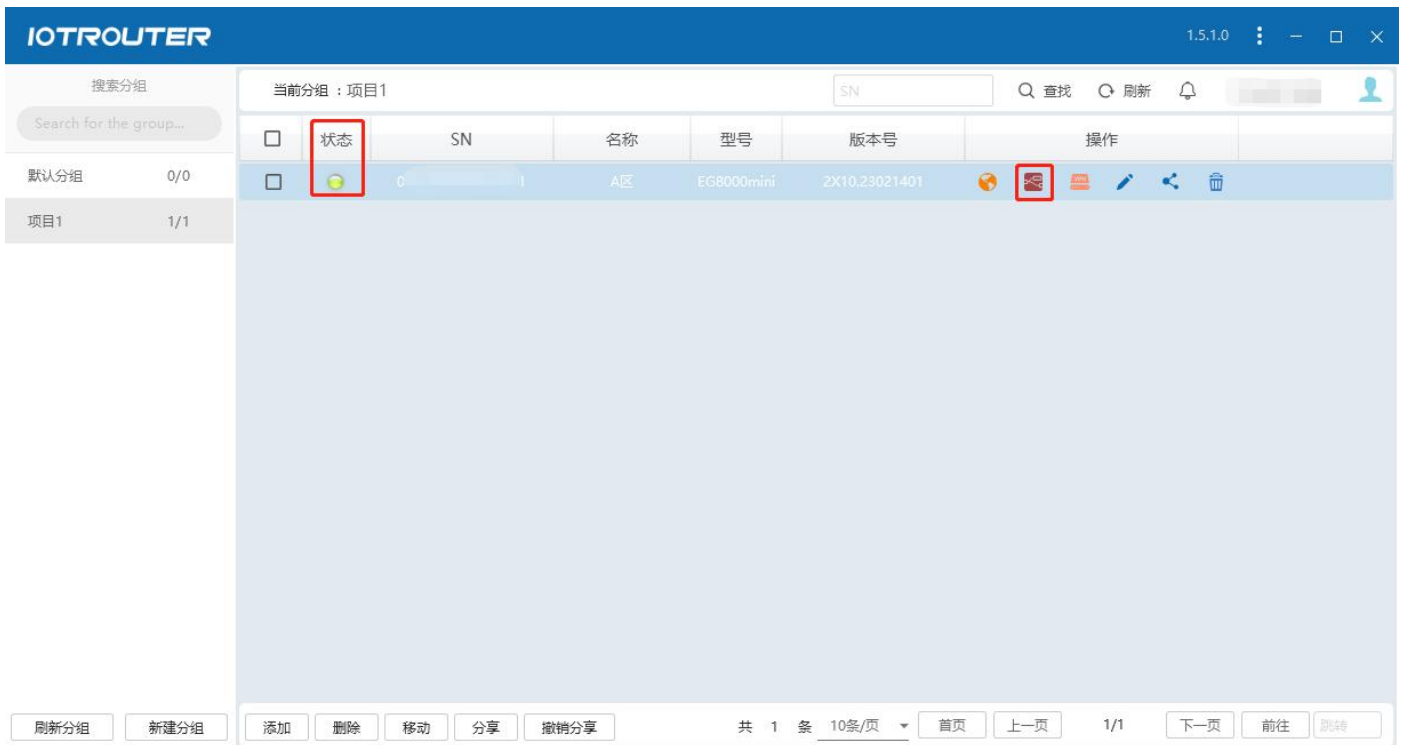
- Share the device: You can share the device added to the root account with a sub-account (a device can only be shared with one sub-account), and the sub-account can remotely configure and program the device.

6. Remote configuration and programming

- Remote configuration: Firstly, make sure the device is online, the light is green, and click remote configuration will automatically open the browser to jump to the web configuration page.



- Remote Programming: Click the remote programming button to automatically jump to the programming page. (can't click the visual programming to enter the programming page when do Remote Assistance, only can work when you click remote programming in the software)



7. NAT traversal

Click the remote LAN to enable NAT traversal, the software will automatically install a virtual network card on the computer, and the device will assign an IP to this computer, and the network segment assigned IP and the LAN port of the device (LAN port IP can be

changed) are the same network segment.



```
Microsoft Windows [版本 10.0.19044.1586]
(c) Microsoft Corporation. 保留所有权利。

C:\Users\14771>ipconfig

Windows IP 配置

未知适配器 本地连接:

    连接特定的 DNS 后缀 . . . . . :
    本地连接 IPv6 地址. . . . . : fe80::4595:5e7f:6e87:15ba%25
    IPv4 地址 . . . . . : 192.168.88.240
    子网掩码 . . . . . : 255.255.255.0
    默认网关. . . . . : 192.168.88.1

以太网适配器 以太网:

    连接特定的 DNS 后缀 . . . . . :
    本地连接 IPv6 地址. . . . . : fe80::643a:8480:b973:6f02%10
    IPv4 地址 . . . . . : 192.168.0.15
    子网掩码 . . . . . : 255.255.255.0
    默认网关. . . . . : 192.168.0.1

C:\Users\14771>
```

If the IP is assigned successfully, the Computer can directly access the LAN where the device is located.

Note: The network segment used by the computer cannot be the same as the device, otherwise it may lead to the failure of the remote LAN.



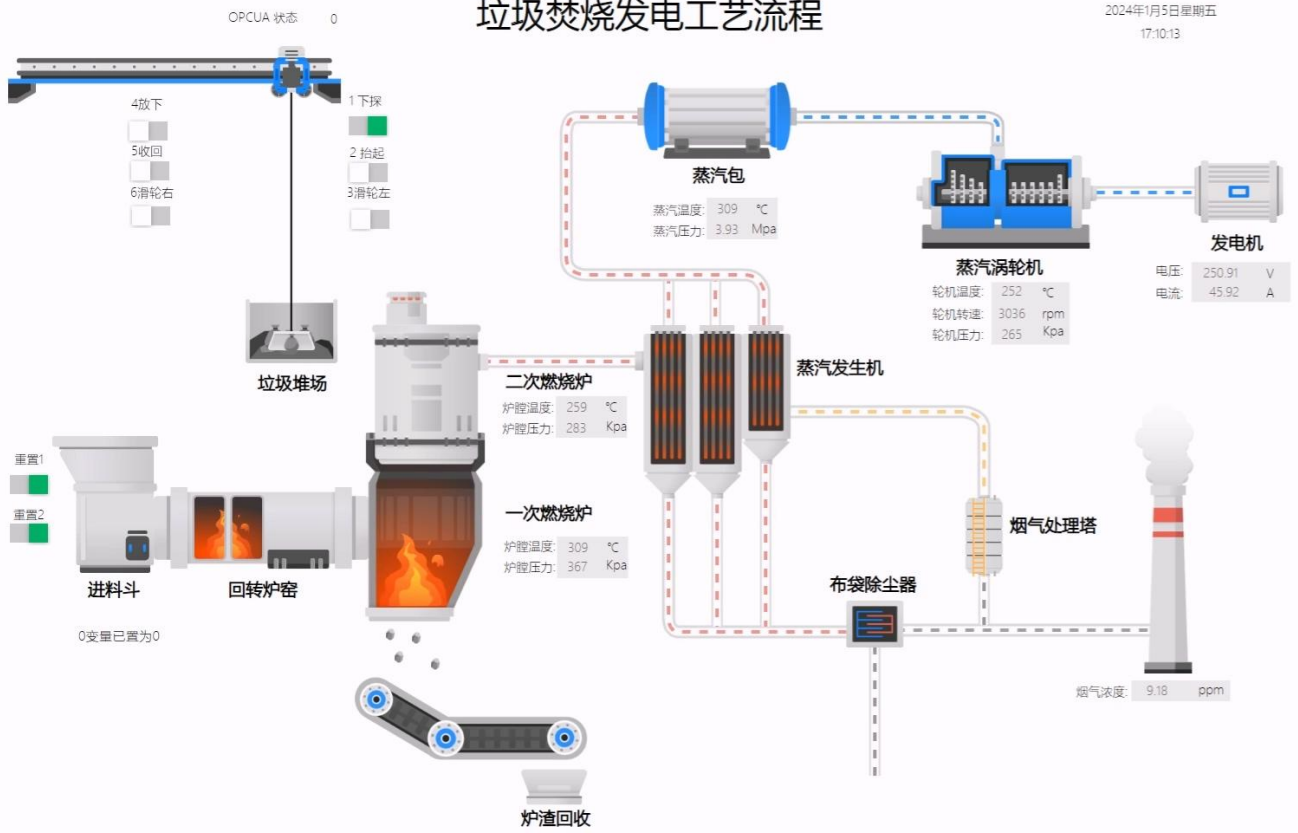
5、WEB CONFIGURATION

EG8200Pro supports [WEB configuration] function, which can be output through HDMI interface, please refer to the *Yuque document* for details

<https://iotrouter.yuque.com/org-wiki-iotrouter-rlzww5/eg8000/tfgsb6r6d13xrels>.

垃圾焚烧发电工艺流程

2024年1月5日星期五
17:10:13



Version: 1.0

LEADING IOT DATA COMMUNICATION EQUIPMENT PROVIDER

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WhatsApp