

Cloud Control P804 manual

1、 Features of cloud control:

4G/5G Smart Cloud Control System: Leveraging internet technology and cloud platforms, this system integrates lighting control systems with network connectivity. It enables remote monitoring, control, and adjustment of lighting effects, scheduling, and interactive lighting operations—all through a single interface. This represents a groundbreaking advancement in LED lighting control applications. The P804 Cloud Control System differs from traditional counterparts by incorporating practical features including LAN configuration, real-time synchronization, video transmission, and drawing uploads. Its support for UDP transmission protocol significantly enhances operational efficiency while resolving synchronization challenges at construction sites. Furthermore, multiple security optimizations have been implemented to substantially improve both software and hardware robustness.

2、 Cloud control parameters:

Working mode: Cloud control platform, LAN, support secondary development UDP, TCP/IP protocol

Buckling mode: 4G network real-time transmission, LAN transmission, USB transmission

Supporting chips: Lianxin UC, Mingwei SM, Tianwei TM, Junlue GS, Zhixing HI

Supported protocols: DMX512, TTL, SPI, breakpoint resume

Support channels: RGB, RGBW, RGBCW

Load point: 80,000 *4=320,000 pixels

Input voltage: AC110-220V

Working temperature: -20°C--60°C

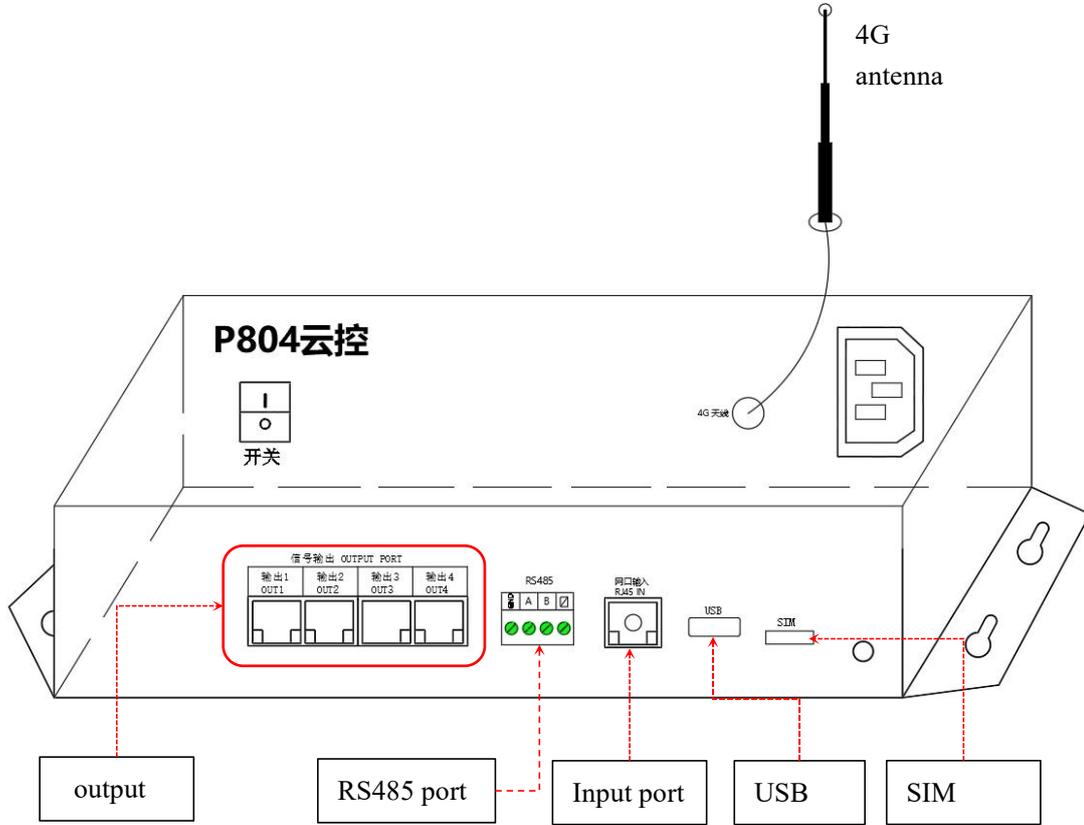
Working humidity: ≤50% RH

Power: ≤5W

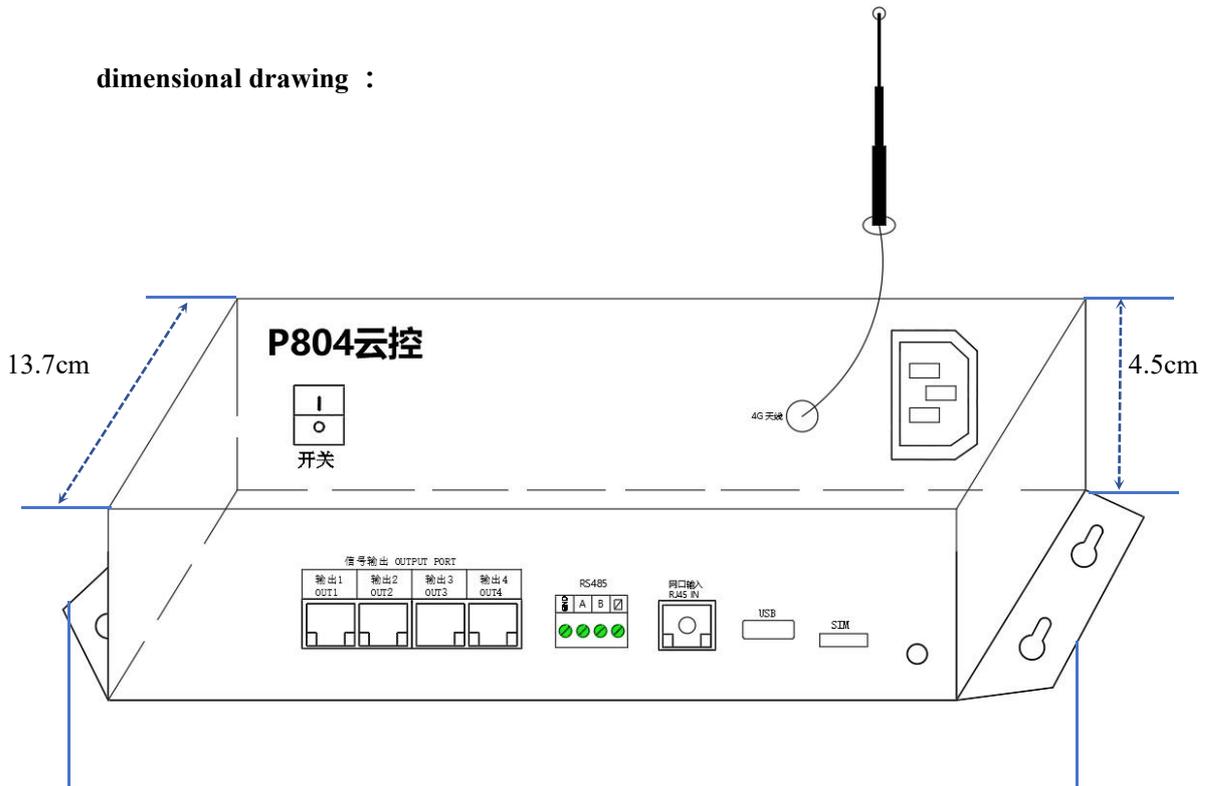
Function: touch screen, LAN synchronization, upload video material, 4G cloud server synchronization

Interface: Output RJ45*4, USB*1, RS485 terminal*1, SIM*1, Input RJ45*1, 4G antenna*1

3. The port diagram is as follows:

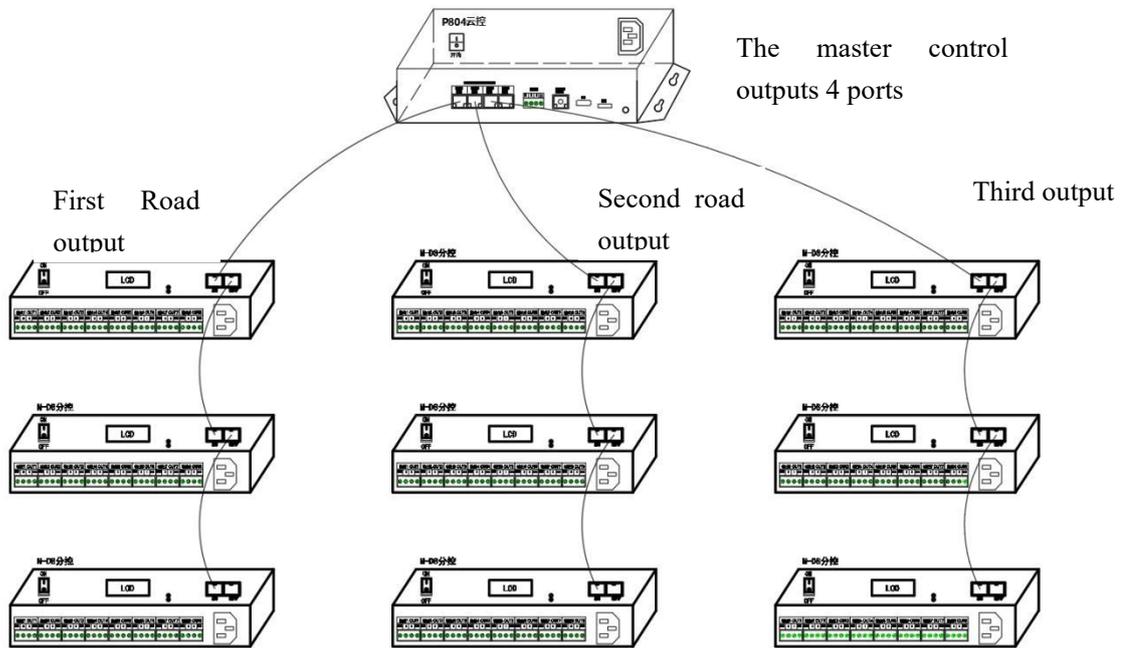


dimensional drawing :

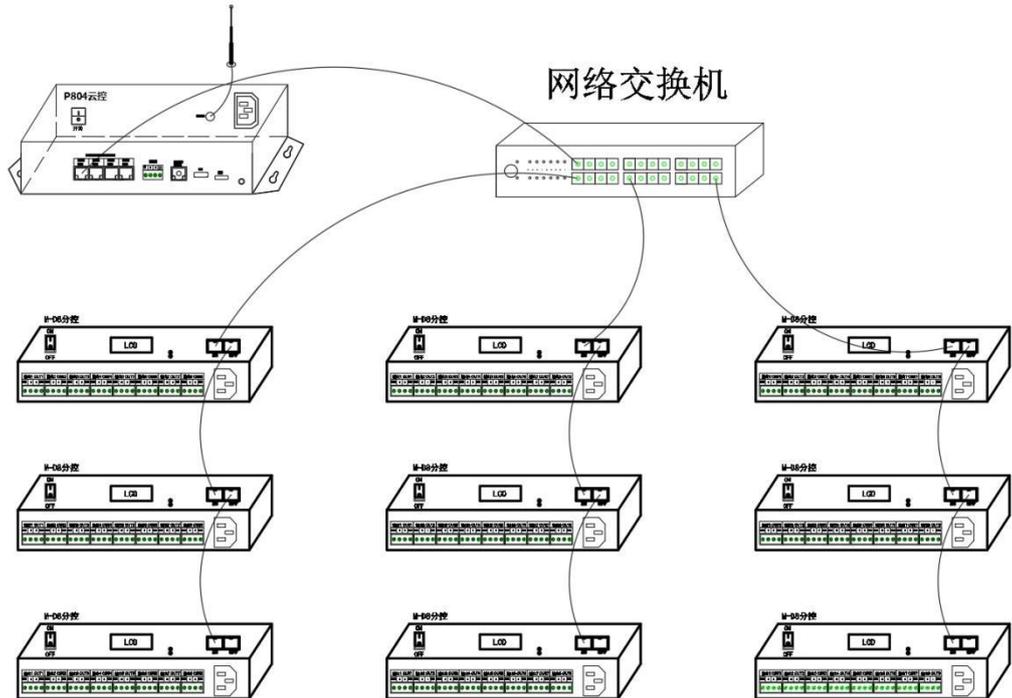


←----- 28.1cm -----→

IV. Cascading diagram is as follow



The diagram of the hierarchical switch is as follows:



There are 4 output channels in total: single output + switch, and the remaining output can also be signal output through switch. The implementation scheme can be determined according to the actual field situation.

5、 Basic interface operations:

Home page shows:



Home screen menu:

- 1、 Speed Press the key "< >" to adjust the speed value; 1--8, the higher the value, the faster the speed
Speed Press the key "< >" to adjust the speed value; 1--8, the higher the value, the faster the speed
- 2、 Effect mode Press "< >" to switch between built-in effects and SD card effects (display interface)
- 3、 Play mode Press the "< >" button to switch between individual loops and all loops
- 4、 Effect Switch Press the "Previous" and "Next" keys to switch between effect lists
- 5、 Playlists Click "Playlists" to enter the file selection interface (showing a list of files)
- 6、 SET Click "Settings" to enter the Settings menu, adjust the corresponding options in the Settings menu according to the field requirements and save them.

Options 1, 2, 3 and 4 above can be directly operated on the main interface, while options 5 and 6 need to be selected in the sub-menu.

6、SET Settings Menu Operation:

Interface display: Main interface Click "SET Settings" button to enter the sub-menu



Set the option list:

- Chip setting: Select the chip model corresponding to the lamp, and the lamp can be controlled.
- Decentralized control configuration: configure or delete the decentralized control.
- Network port configuration: 4 output ports are set as network ports, and the ID number sequence of each channel is divided.
- IP configuration: LAN setup IP address, subnet mask, gateway setting and MAC address setting.
- Time server: LAN synchronization Settings, main IP address Settings ("Restore factory Settings" and "Set through IP").
- 4G network information: network information (network address, signal strength, location, etc.).
- English: English interface switch

- About: Software basic information

6.1 Chip Settings

Step 1: Click "SET Settings" on the main interface to enter the sub-menu

Step 2: Select the "Chip Settings" menu in the sub-menu to enter the chip selection interface as shown below:



Click the button "Next page" to switch the list as shown below:



Click the button "Next page" to switch the list as shown below:



Step 3: Select the chip model----Click the "OK" button to save and return to the main interface.

6.2. Sub-control configuration

Step 1: Click "SET Settings" on the main interface to enter the sub-menu

Step 2: Select the sub-menu "Sub-control Configuration" to enter the parameter selection interface as shown below:



Step 3: Parameter selection (start configuration, delete parameters)

configuration parameter :

❶, Start ID: Click the number in the box, and pop up the keyboard to select the corresponding number "OK"

❷, channel order: the channel definition of the lamp usually has the following options RGB, RBG, BRG, BGR, GRB, GBR, RGBW (four-channel lamp)

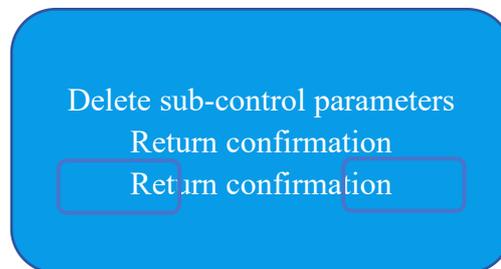
❸, chip type: Click the chip in the box, pop up the chip list selection, the chip list is shown in 6.1 above, select the click "OK" to return to the configuration interface; the button "Return" returns to the previous interface.

❹, brightness value: click the number in the box, pop up the keyboard to select the corresponding number "OK"

⑤ Gamma value: Click the number in the ■ box to pop up the keyboard and select the corresponding number. "OK" is selected. The gamma value ranges from 1.0 to 5.0, so when selecting a number, directly choose two digits. For example, if you select gamma value 2.2, select 22 on the numeric keypad and click "OK".

Delete parameters:

Click the "Delete parameter" button, and the following interface will pop up:



To determine whether to delete the sub-control parameters or clear the original configuration parameters, click the "OK" button; otherwise, click the "Return" button to return to the configuration interface.

6.3 Network port configuration: Set the number of output port sub-control

Step 1: Click "SET Settings" on the main interface to enter the sub-menu

Step 2: Select the sub-menu "Network Port Configuration" to enter the port sub-control setting interface as shown below:



Port 1: Output 01 port with 15 sub-controllers

Port 2: Output port 02 is equipped with 5 sub-controllers

Port 3: Output port 03 is equipped with 20 sub-controllers

Port 4: Output port 04 is equipped with 20 sub-controllers

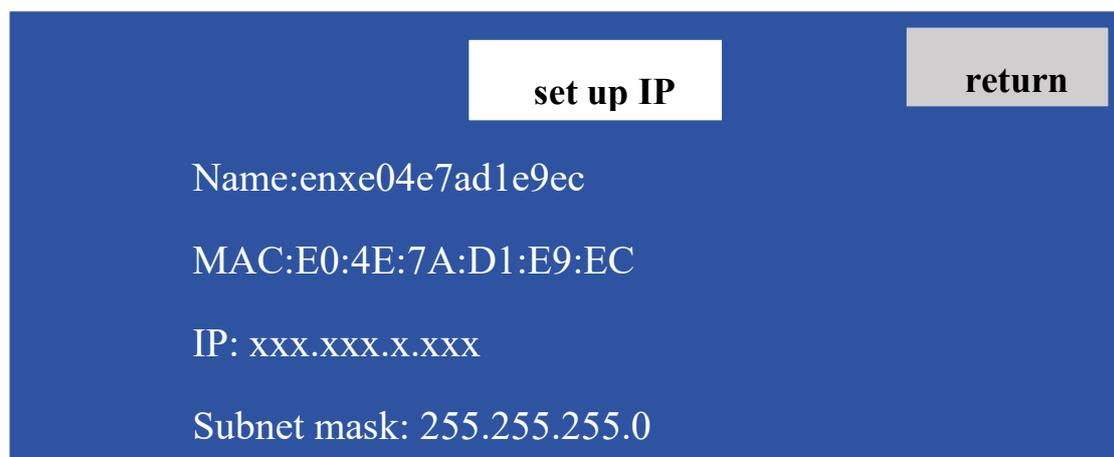
After the selection is completed, click the "Start configuration" button to complete the port configuration; click the "Return" button to return to the previous interface.

6.4 IP configuration:

Step 1: Click "SET Settings" on the main interface to enter the sub-menu

Step 2: Select the sub-menu "IP Configuration" to enter the IP address setting interface as shown below:

IP address setting is mainly used in the construction of LAN. Each device in LAN networking needs a MAC address, IP address, subnet mask and gateway (set automatic acquisition and set static IP).



Set it to automatic

Set a static IP

Set up automatic acquisition:

The device is connected to the router, and the router automatically assigns an IP address to the device

Set static IP:

Manually input the pre-designed IP address into the IP address bar in the figure above manually through the keyboard, and modify the other corresponding ones.

6.5, Time server

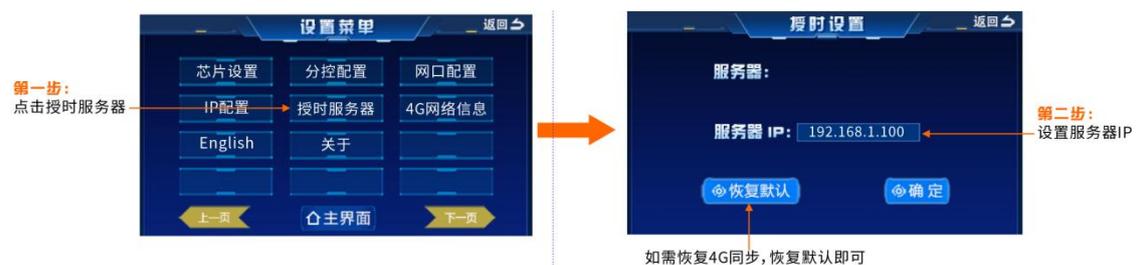
When multiple cloud control needs to synchronize the LAN, one of them can be defined as the master server, and the others can obtain the time synchronization of the cloud control server. The specific operation is as follows: (4G synchronization does not need to be set, automatic synchronization)

1. Configure the IP address of the main cloud control server:



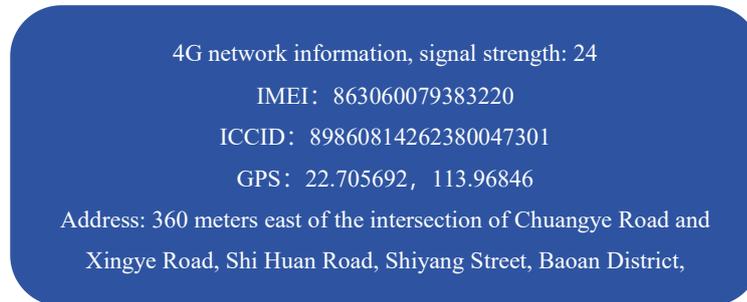
2、 Other cloud control connection server: Enter the main cloud control IP here

Other cloud control connection server: Enter the main cloud control IP here



6.6 4G network information

Mainly display network information, including: (IMEI, ICCID, GPS, ADDR)



Press the "Return" key to return to the Settings menu

6.7、 English

Chinese and English switching (currently only supports Chinese and English)

6.8, concerning

7、 Basic usage:

Step 1: Log in to the software



Step 2: Software Settings



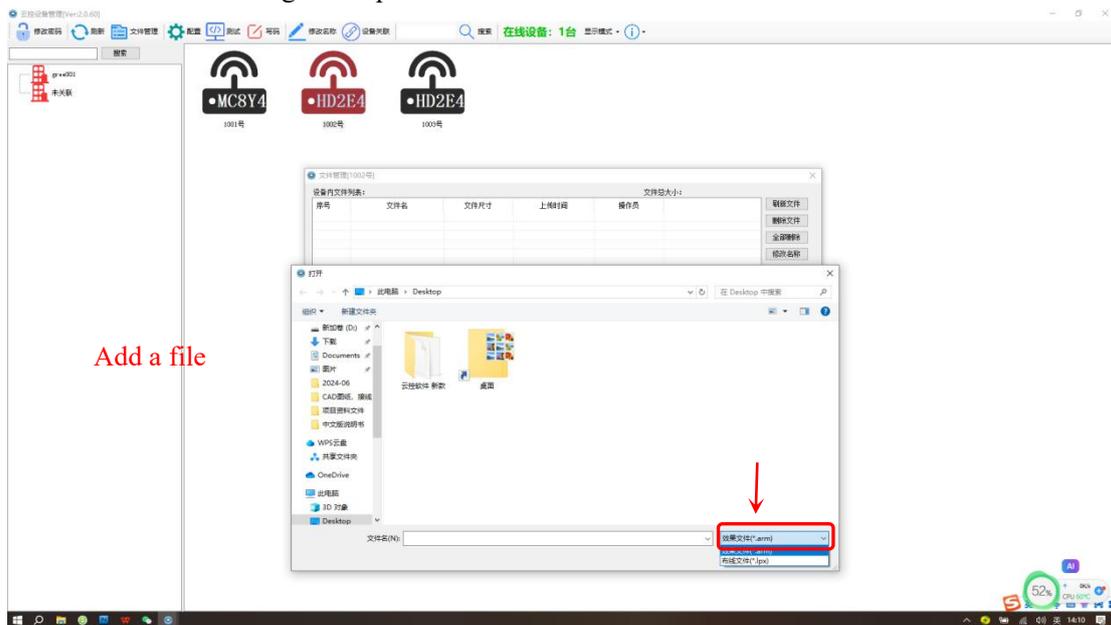
Login account: red shows online, black shows offline

Step 3: Upload the drawing file

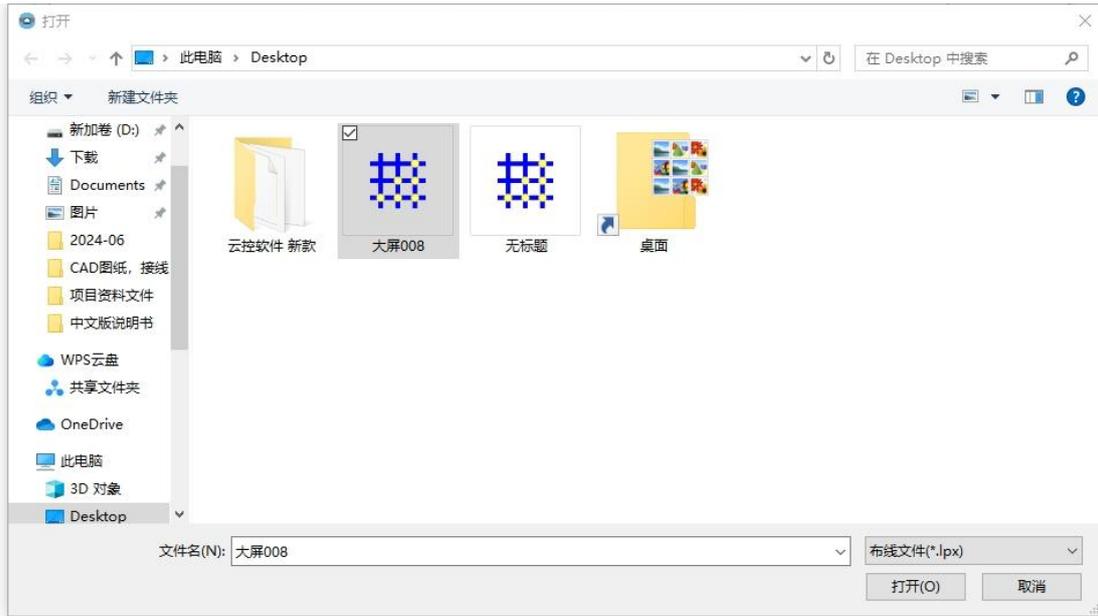


Click "Add File"

File format select "wiring file *.lpx"



Select the drawing file, suffix.lpx file; as shown below



Select the graphic file stored on the computer to upload



File uploaded successfully!!!!

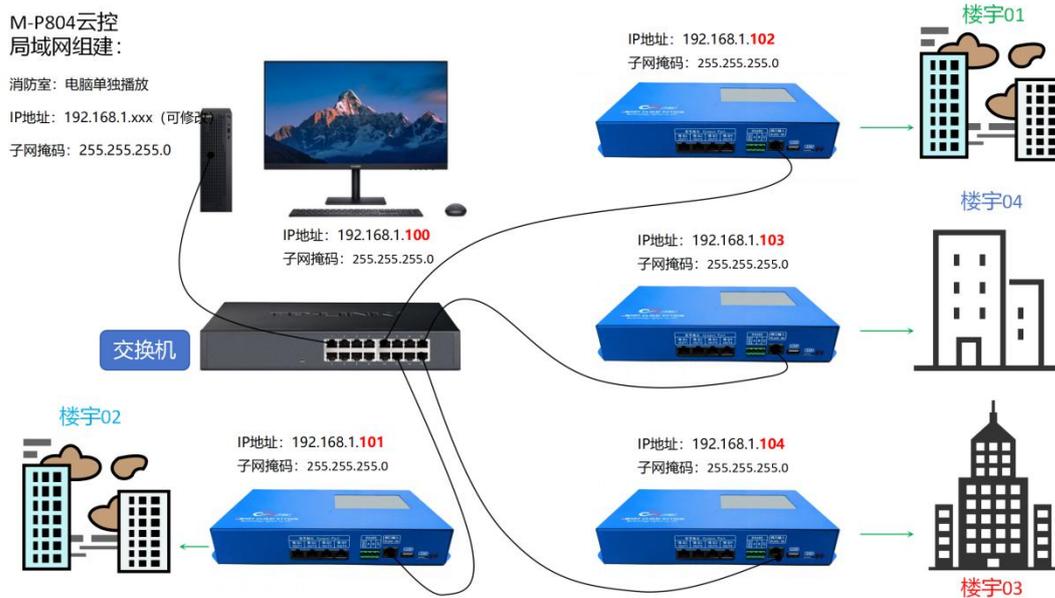
Click refresh page



The drawing file is displayed in the device list, indicating that it has been uploaded successfully.

8. LAN construction:

1、Wiring diagram:



All cloud control/computer use network cables converge to the switch or router, and the LAN physical connection is completed.

2、Cloud control IP configuration:

- ① Cloud control manual static IP configuration:



The first three paragraphs of the IP address must be consistent, and the fourth paragraph 2-254 can be configured at will but cannot be the same,

Example: The first one is 192.168.1.100, and the second one can be 192.168.1.101. The subnet mask and gateway are default. After configuration, you can check whether it has been updated on the home page.



② Bound router cloud control IP address:

If the cloud control is connected to the router, you can bind the IP through the router. The specific operation is as follows:

(Different routers have different login IP addresses and different configuration methods, which are only demonstrated here)

Step 1: Check the cloud control MAC address



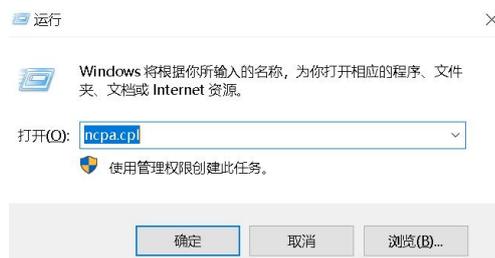
Step 2: The computer enters the router configuration interface to bind and set the IP address



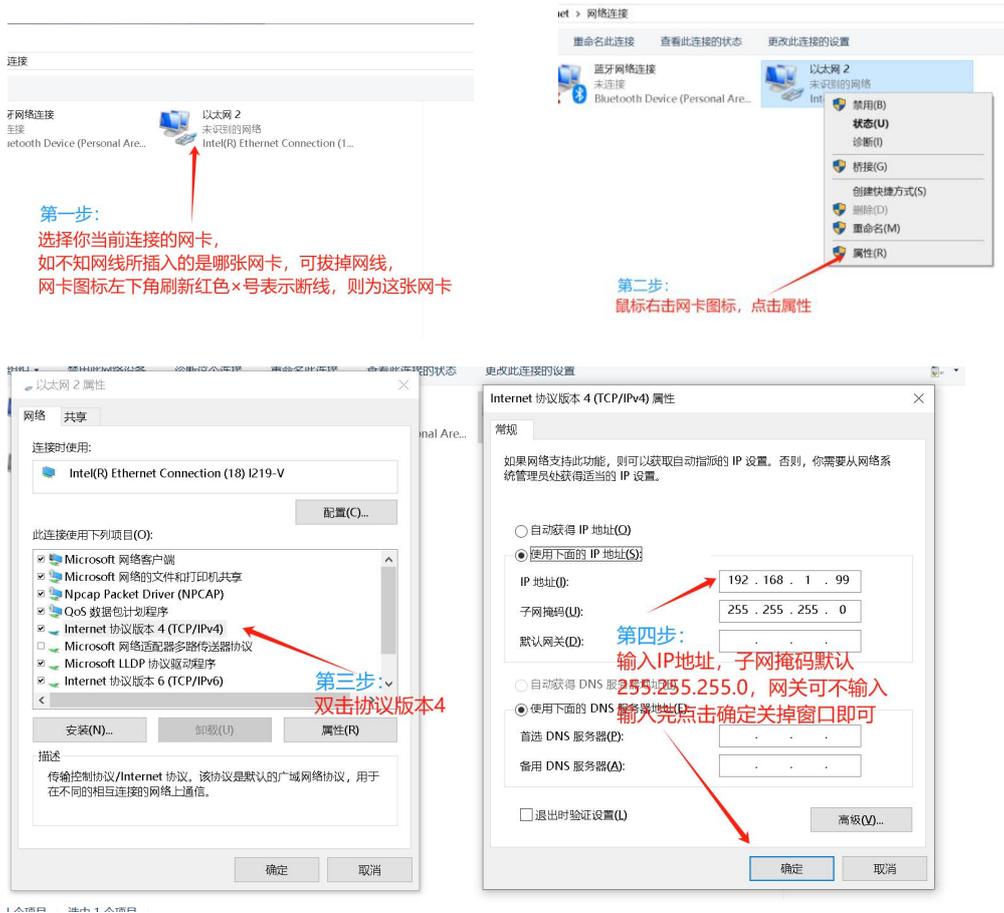
After the router configuration is completed, restart the cloud control. You can check whether the IP address is displayed in the upper right corner of the cloud control main interface.

3、Computer IP configuration:

- ① Open the network Settings of different computer systems in different ways. You can also open it directly through the command. Press the keyboard +R key and pop up the command input box to enter `ncpa.cpl` to open the network Settings. Open the network Settings of different computer systems in different ways. You can also open it directly through the command. Hold down the keyboard +R key and enter `ncpa.cpl` in the command input box to open the network Settings.



- ② Set up the computer IP



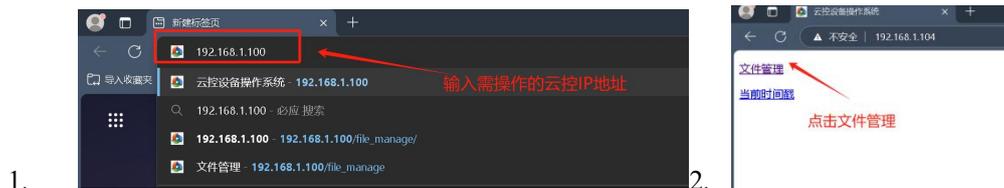
The IP address of the computer is consistent with the cloud control configuration requirements.

After the LAN is built, you can upload files and control the operation remotely.

9. File transfer over LAN:

① Connect cloud control:

Open the browser and enter the cloud control IP address to be operated:



文件数量: 9
支持文件类型: .arm,.mp4,.avi,.AVI,.swf,.png,.gif,.tcl,.lpx,.gri,
已用空间: 59.3 MB
设备当前时间: 2023-03-28 02:50:30

文件序号	文件名	文件大小	操作员	上传时间	操作IP	文件操作
1	1.jpg	1.3 MB	greecs	2025-03-22 15:20:56		下载 删除
2	1_01.avi	2.1 MB	greecs	2025-03-22 15:10:24	113.87.94.221	下载 删除
3	1_06.avi	221.0 KB	greecs	2025-03-22 15:10:22	113.87.94.221	下载 删除
4	22_01.avi	33.9 MB	greecs	2025-02-22 15:38:36	113.87.94.221	下载 删除
5	22_02.avi	14.8 MB	greecs	2025-03-22 15:38:41	113.87.94.221	下载 删除
6	6.avi	622.0 KB	root	2025-03-23 11:29:58		下载 删除
7	彩色右移.AVI	4.6 MB	root	2025-03-23 11:18:13	36.163.153.41	下载 删除
8	测试.AVI	352.5 KB	root	2025-03-23 11:18:13	36.163.153.41	下载 删除
9	测试2.AVI	702.5 KB	root	2025-03-23 11:18:13	36.163.153.41	下载 删除

3、

X. LAN timing synchronization configuration:

When multiple cloud control needs to synchronize the LAN, one of them can be defined as the server, and the rest can obtain the time synchronization of the cloud control server. The specific operation is as follows: (4G synchronization does not need to be set, automatic synchronization)

1. Configure the IP address of the main cloud control server:



3. Other cloud control connection server: Enter the main cloud control IP here

Other cloud control connection server: Enter the main cloud control IP here

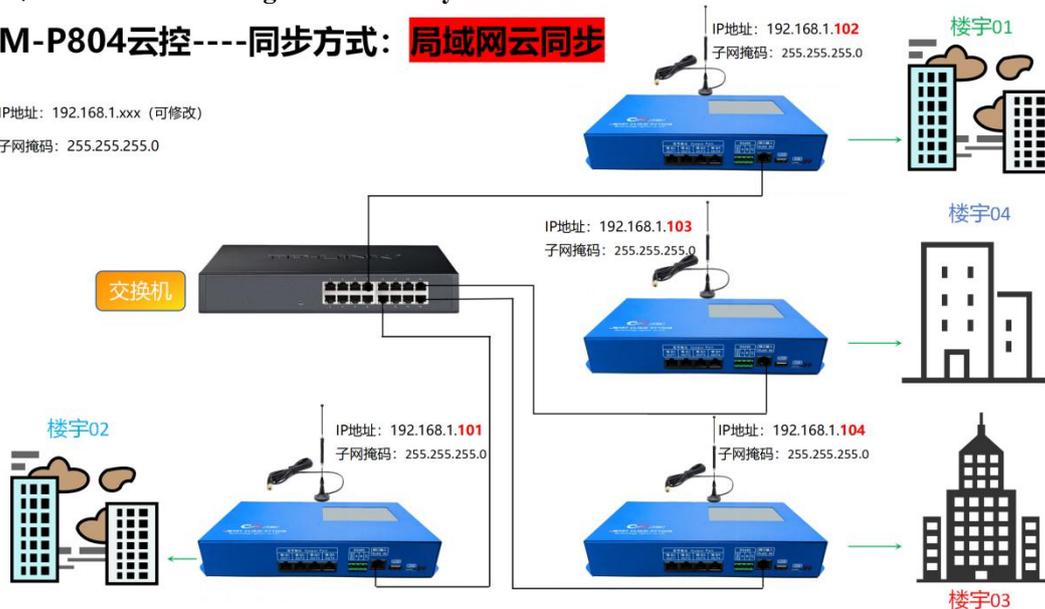


XI. Synchronization

①、The schematic diagram of LAN synchronization is as follows:

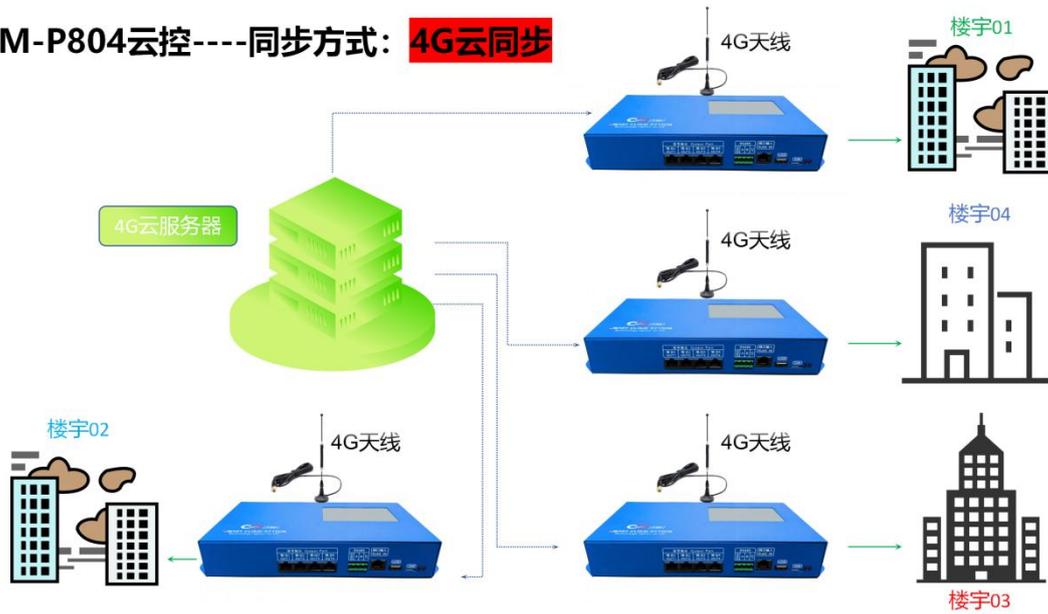
M-P804云控----同步方式: 局域网云同步

IP地址: 192.168.1.xxx (可修改)
子网掩码: 255.255.255.0



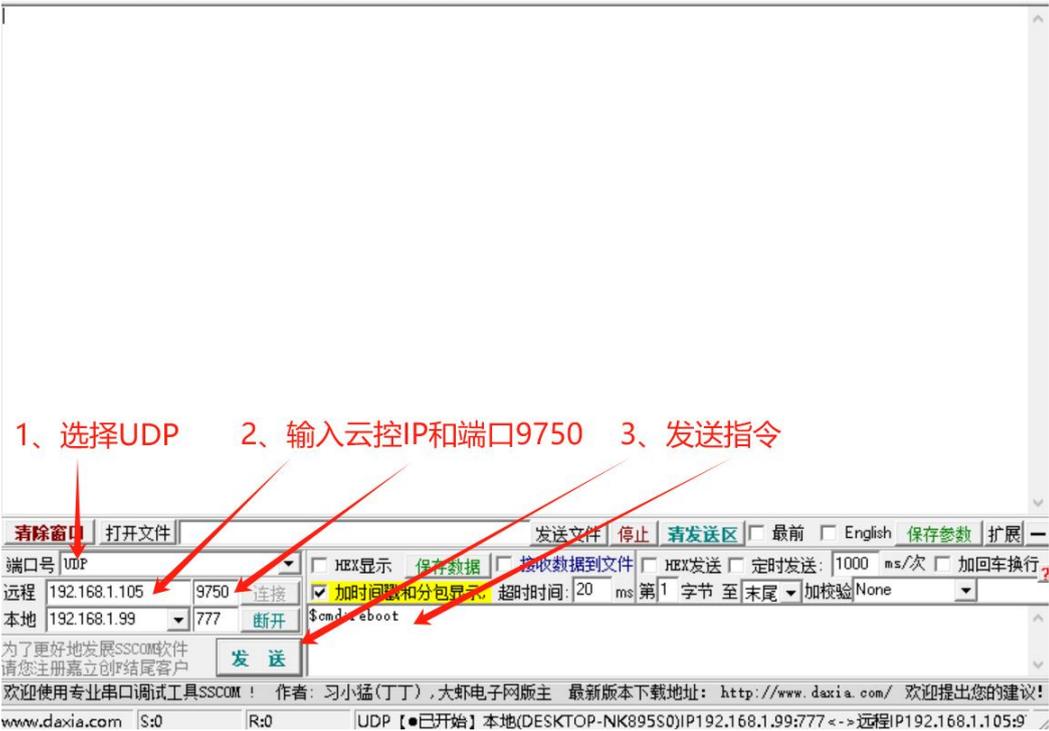
②, 4G cloud server synchronization diagram is as follows:

M-P804云控----同步方式: **4G云同步**



11. Cloud control secondary development:

The cloud controller supports the UDP protocol with port number 9750



Secondary development instruction set: