HNC H-BOX-M User Manual

Cloud BOX

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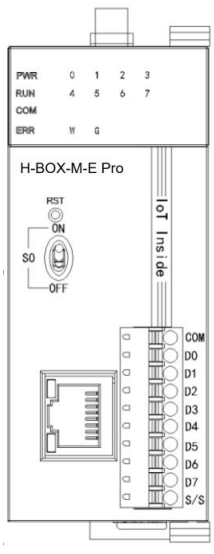
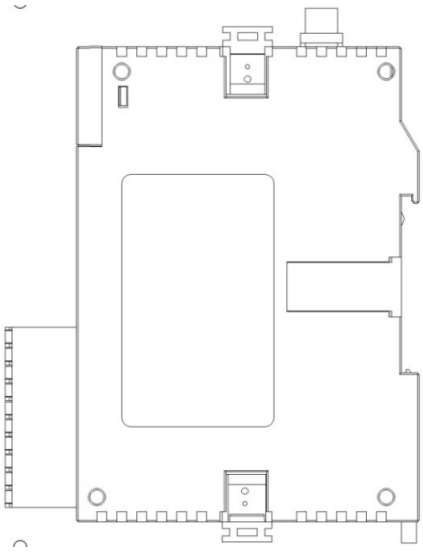




Content

一、 Product Description

1. Product Introduction

1.1 Main Functions

Cloud H-BOX-M is an Internet of things terminal. We call it " Cloud HMI without screen", which can be easily managed by mobile app and cloud website. It is an industrial automation monitoring and management equipment which runs in an embedded system software, HTCloud Designer. It monitors the industrial scene by accessing Cloud H-BOX-M running pictures from mobile APP and cloud website. It can also communicate with various industrial control devices, collect data and upload it to cloud for further application.

1.2 Functional Characteristics

- Built-in HNC cloud engine, integrated HNC cloud service, support cloud/mobile access control
- Integrated HMI function, which can directly monitor the display screen through the mobile phone/PC instead of the HMI screen. The control is flexible and convenient.
- Support A/B Key security mechanism, multi-unit network, database, multi-screen interaction, cloud camera remote monitoring, etc.
- Support MQTT protocol, support access to database server, easily realizing data acquisition and reporting, match with ERP/MES and other systems.
- Support HTCloud Designer cloud configuration software, embedded HNC cloud engine, HNC cloud service, support accessing through Mobile or cloud terminals.
- Built-in 1 RJ45 interface, 1 serial ports, WIFI, SIM card, optional 4G, DIN-Rail Mounting.

2. Product List

model	Memory	I/O interface	LAN	COM	WIFI	wireless network	Product size (mm) W× H × D
H-BOX-M	2G+256M	8 DI	1	1	Support		40×95×65mm
H-BOX-M-E	2G+256M	8 DI	1	1	Support	4G abroad	
H-BOX-M Pro	2G+256M	8 DI/DO customization	1	1	Support		
H-BOX-M-E Pro	2G+256M	8 DI/DO customization	1	1	Support	4G abroad	

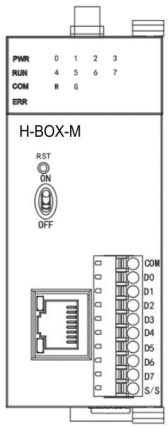
3. Specification of Product Parameters

Model		H-BOX-M	H-BOX-M-E	H-BOX-M Pro	H-BOX-M-E Pro
Power supply parameter	Input power	24VDC±20%			
	Power Consumption	<5W			
	Power Protection	Surge protection			
	Withstand voltage	500V AC			
Environmental parameter	Environmental temperature and humidity	Working temperature: 0 ~ + 55 ℃, storage temperature: - 25 ~ 70 +℃, humidity: 5 ~ 95% RH, no condensation.			
	Vibration resistance	10~57HZ amplitude 0.075mm, 57HZ 150HZ acceleration 1G, X, Y, Z 10 times in triaxial direction			
	Impact resistance	15G, 11 Ms, X, Y, Z, 6 times in the triaxial direction			
	Insulation impedance	500V DC between AC terminal and GND terminals, 5M Ω or more (all input / output points to ground 500V DC)			
	Using environment	Anti-dust, moisture-proof, corrosion-proof, protection from electric shock and external force impact, etc.			
	Protection Level	The complete machine is subjected to a salt spray test of 48 hours			
	Type of cooling	Natural air cooling			
Hardware parameter index	Memory	Flash 2G，RAM 256MB			
	Communication port	Support 1 isolated communication (RS232/RS485)			
	Ethernet	Ethernet port:1 * 10/ 100 Base-Tx			
	Hardware system reset	Support			
	Switch S0	Single-pole double-throw			
	WIFI	Support			
	4G	/	4G Abroad	/	4G Abroad
	SIM	/	1 self-elastic Micro SIM card interface	/	1 self-elastic Micro SIM card interface
	IO Port	8 way optoelectronic isolation digital point input		8 optoelectronic isolation digital point input/relay output can be configured	
	size of the whole machine	40mm*95mm*65mm（Width*height*deep）			
	Shell material	Engineering plastics ABC PC (flame retardant requirements: 94V0 grade, in line with ROHS requirements.			
	RoHS	In line with the RoHS			

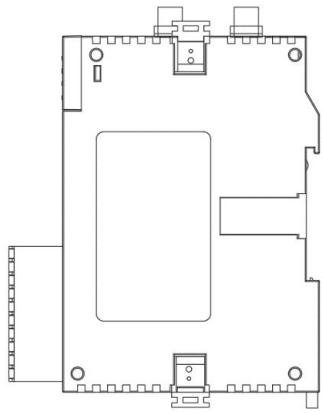
4. Cloud H-BOX-M Software

- The Cloud H-BOX-M needs to be used with the HTCloud Designer software. Please download it via the download center of the official website: www.hncelectric.com.
- HNC Cloud services can be used by visiting the HNC Cloud website http://www.iotbus.net/, and it is recommended that you download IoTbus.
- IoTbus (HNC Cloud) download:
  - Login HNC cloud website to download;
  - Directly scan the QR code below to download;
  - the IOS terminal can refer to the Apple App Store, search "IoTbus" and download.

5. Cloud H-BOX-M appearance and interface diagram

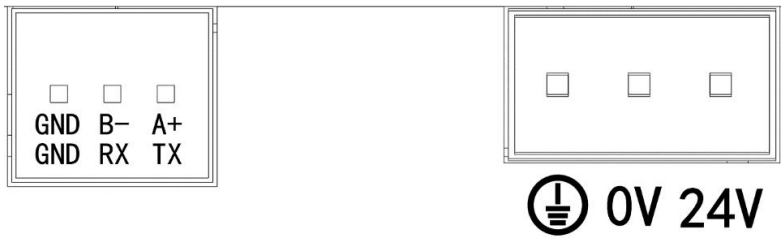


The Cloud H-BOX-M main view



The Cloud H-BOX-M right view

Interface definition:

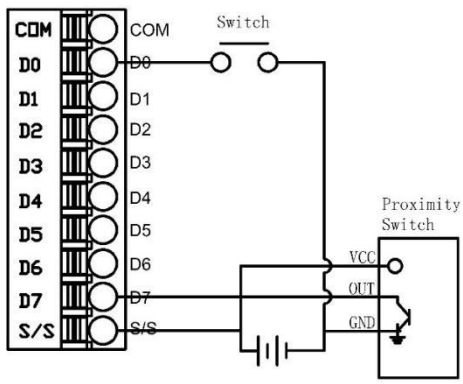


6. Cloud H-BOX-M device DI/DO interface

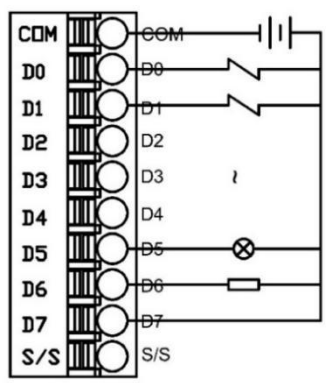
HNC Cloud Box H-BOX-M comes with 8 optically isolated digital IO points, which can be connected to external switch contacts. The DI interface supports source and sink input, and the DO interface is relay output. It supports AC/DC <250V, current <5A, indicating as follows:

Device model	I/O configuration
H-BOX-M	8 optically isolated digital point inputs
H-BOX-M Pro	Configurable 8 channels of photoelectric isolation digital point input/relay output

Wiring diagram:



Input



Output

二、 Software usage description

1. Mobile APP Quick Access to the Cloud H-BOX-M

1.1 Cloud H-BOX-M default Factory Information

- The PN code can be found on the label attached to the shell.
- The Wi-Fi hotspot is turned on by default. The mobile phone can be connected to the device through WIFI.
- The default hotspot name is H-BOX-M-(front 6 digits PN code) - (last 5 digits PN code). The default password is empty.

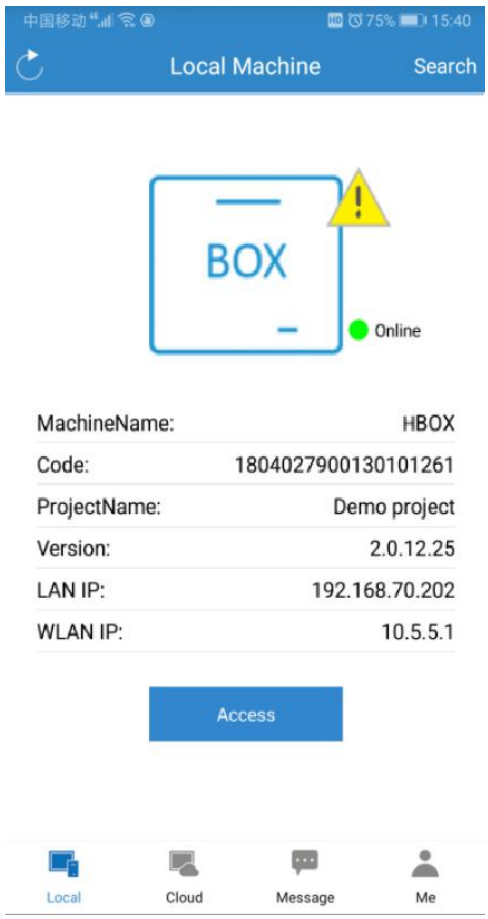
For example: PN code 18012630070100001, then hotspot name is H-BOX-M-180126-00001.

1.2 Mobile APP Connect Cloud H-BOX-M Hot spot

Switch on the mobile phone WIFI network to search the Cloud H-BOX-M hot spot, the network signal show once connection success.

1.3 Mobile APP access Cloud H-BOX-M

After mobile phone connected to the Cloud H-BOX-M hotspot successfully, open cloud APP, choose "local device", drop-down to refresh, till Cloud H-BOX-M device information show.



Click to access, enter the Cloud H-BOX-M project interface.

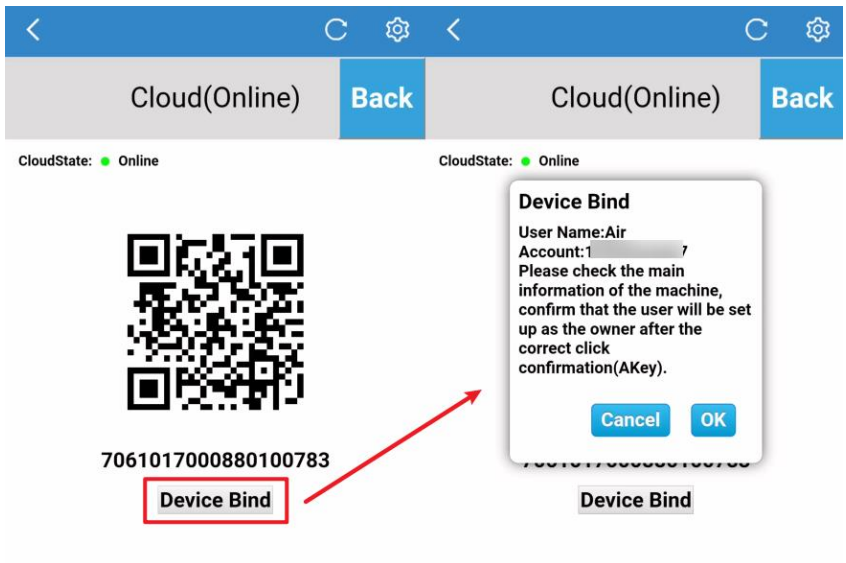
1.4 Cloud H-BOX-M background settings through mobile APP

Enter the project interface of access Cloud H-BOX-M, click  , you can enter the background setting interface of Cloud H-BOX-M and set the background information.

2. Cloud access

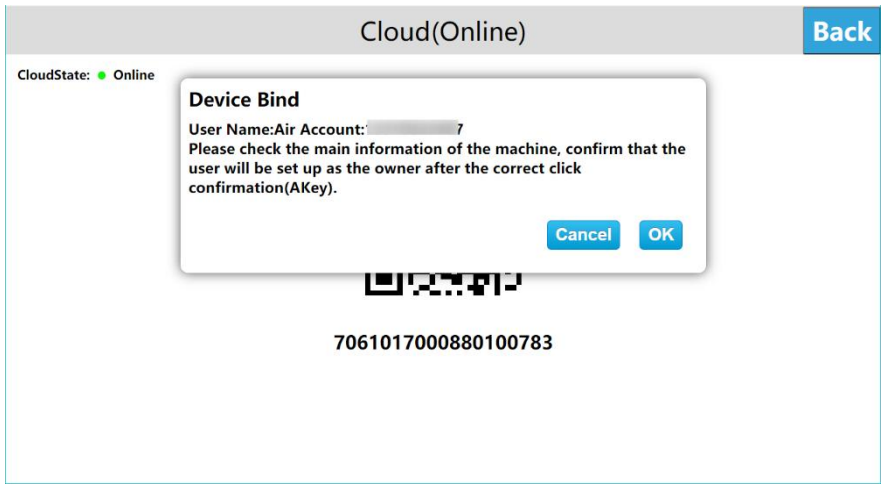
2.1 Cloud binding machine owner

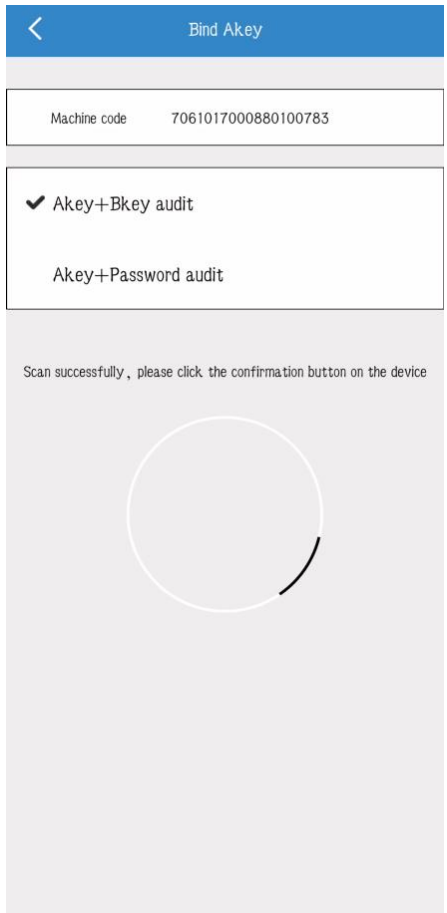
Both Cloud H-BOX-M can be connected to the Internet through a network cable connection. You can search for the local machines in cloud app after mobile phone connecting to Cloud H-BOX-M hotspot, and display Cloud H-BOX-M device which connected to hotspot, then enter Cloud H-BOX-M background setting interface, click [cloud], then click [Device Bind], the binding Information confirmation prompt H-BOX-M is displayed then click [OK] to bind as owner successfully or click [Cancel] to unbind as owner.



2.2 Scan QR code binding machine owner

After the Cloud H-BOX-M connected to the Internet, enter the [Cloud] interface to scan the QR code, click the button  in the upper left corner of the main interface on the cloud APP, and scan the QR code to add the device. The cloud setting interface pops up the device bind confirmation prompt H-BOX-M, click [OK] to bind the owner successfully， click [Cancel] to cancel the binding as the owner. Then click to return to the cloud app.





- Ordinary users

Log in the cloud app, enter the [Cloud] interface, click the button in the upper left corner of the main interface, scan the QR code and add the device.

- Binding whitelist

After a normal user adds a device and apply for binding, also the application is approved, it can become a whitelist.

The binding application needs to be approved by the auditor. The auditor is the owner and any administrator. Only when they pass at the same time, the audit is passed. If one party refuses, the audit will not be passed.

- Binding visitors

After applying for binding, you can apply for access devices. After the application is approved, then you will become a visitor. Visitors have time limit.

The access application needs to be approved by the auditor. The auditor is the owner or any administrator. Only when one of them pass, the audit is passed. If all of them refuse, the audit will not be passed.

- Administrator

1. When applying for binding, the machine owner can select the mode of "owner + administrator", then the applied account can become the administrator of the device.

2. The owner can select the non-administrator and owner account in the device management interface, also can long press and pop-up menu bar, click to upgrade to administrator, then the account becomes administrator.

- Visitors

The owner can select the administrator account in the device management interface, long press and pop-up menu bar, click to upgrade to administrator, then the account becomes administrator.

- Cloud access

Visitors, administrators, and machine owner can click [Cloud] to enter the device interface and click [access] to access the project.

3. Reset

During the use of the device, you can restore the Cloud H-BOX-M to the initial state by restoring the factory settings. The operation method is as follows:

Click on the RST button of the Cloud H-BOX-M and hear the “beep” sound, indicating that the button is normal.

- Reset network configuration

Reset the network configuration and the password of entering the system settings interface as initial state.

Step: Press and hold the [RST] button for 5 seconds, the three lights flash slowly, enter the network configuration reset mode, release the [RST] button, wait for the buzzer to make a “beep” sound, then the reset can be successful.

- Reset factory settings

Reset the network configuration and the password of entering the system settings interface to initial state; reset all the information of system settings to the initial state.

Step 1: Press and hold the [RST] button 5 seconds, the three lights flash slowly, enter the factory reset network configuration mode, release the [RST] button;

Step 2: After releasing the [RST] button, press the [RST] button 3seconds again in 3 seconds, the three lights flash quickly, enter the factory reset mode, release the [RST] button, and the buzzer sounds 3 beeps., can be restored successfully.

4. Cloud H-BOX-M connection settings

Cloud H-BOX-M communicates with PLC through RS232 serial port, RS485 serial port or Ethernet. In hardware connection process, it will briefly introduce Cloud H-BOX-M to communicating with PLC through RS232 serial port, and connecting static Ethernet network.

4.1 Notes and hardware installation steps

- Notes

①The installation direction must be in accordance with the provisions of this manual, strictly in accordance with the direction of the terminal wiring, otherwise it will cause product failure or burnout.

②The product and other components on the bottom must be kept in sufficient space to avoid equipment damage caused by poor heat dissipation.

- Hardware installation steps

Rail mounting: Use a standard of 35mm rail.

4.2 Hardware wiring

- Device connection power

Cloud H-BOX-M, PLC connected to the power supply.

- Device connection

Connect the Cloud H-BOX-M's COM-232 interface to the PLC's 232 interface;

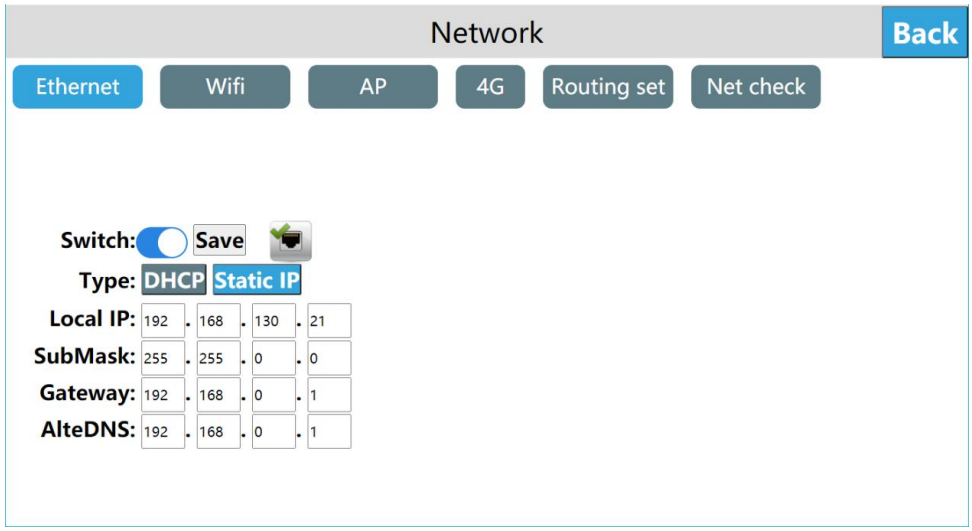
4.3 Connect Network

The factory default IP address is “192.168.1.112”。

Step 1: Connect the mobile phone or computer to the cloud H-BOX-M hotspot. After connecting the hotspot successfully, access the cloud H-BOX-M trough the local device of IoTbus. Click  access the background setting interface; or access the Cloud H-BOX-M through the browser, input “192.1681.112/setting” to access the background setting interface;

Steps: 2: Click [Network] to access the Ethernet setting interface;

Step 3: Select [Static IP] or [DHCP] as needed. When [Static IP] is selected for the network type, set the network parameters: input the correct IP address, subnet mask, default gateway and DNS, click [Save]



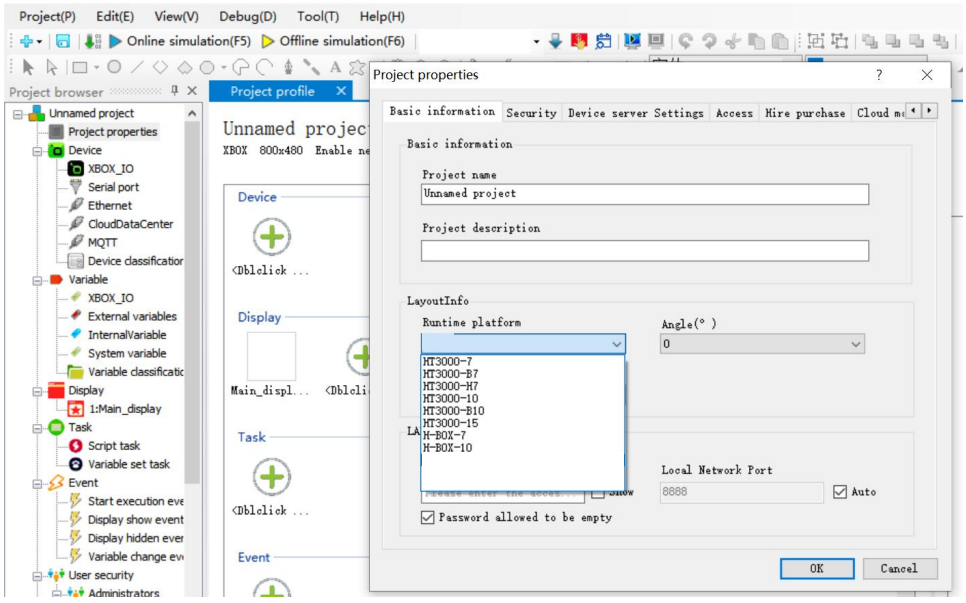
5. Project operation

- Select device model

Step 1: Open the HTCloud Designer software and create a new project;

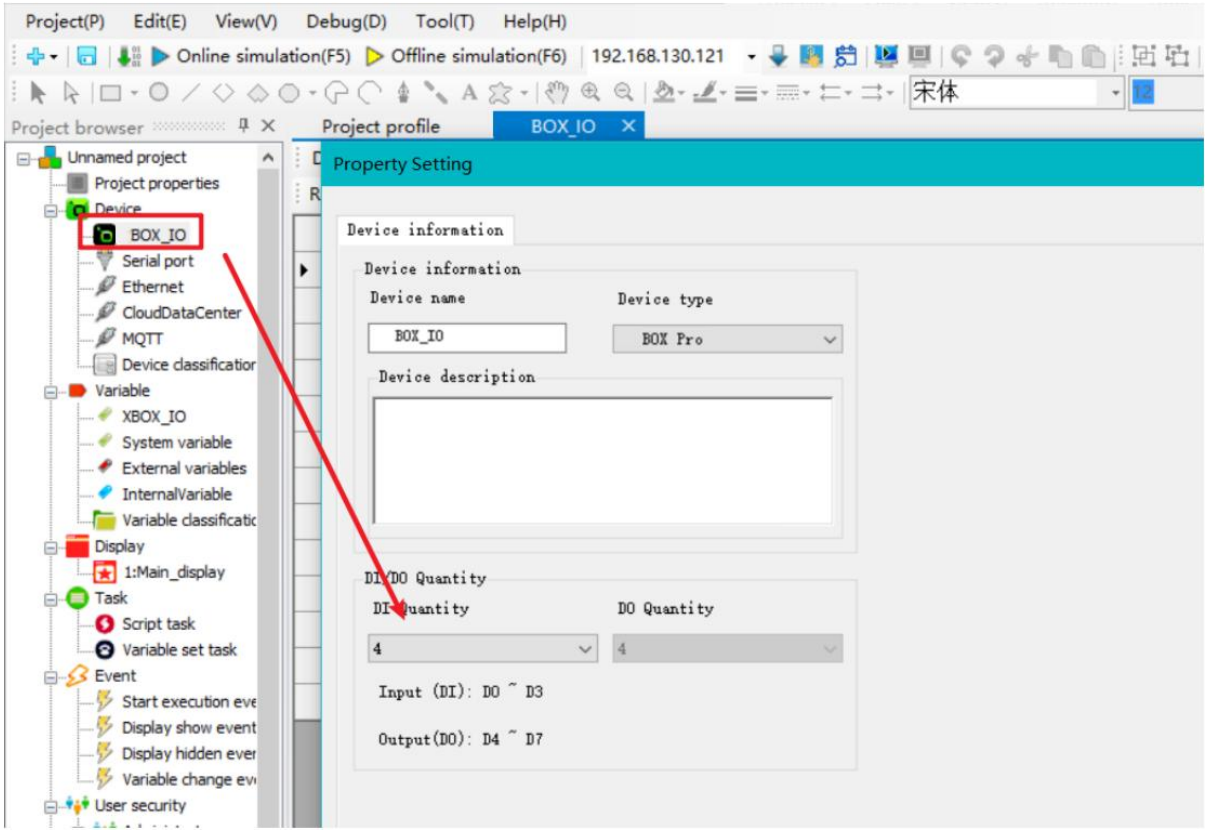
Step 2: In the pop-up New Project dialog box, select the operating platform. Since the H-BOX-M has two models, the H-BOX-M and the H-BOX-M Pro, the project type in this example is the H-BOX-M, so choose the H-BOX-M.

Step 3: Select the screen resolution, there are 800*480 and 1024*600 options. In this example, select the default 800*480, and click [OK].

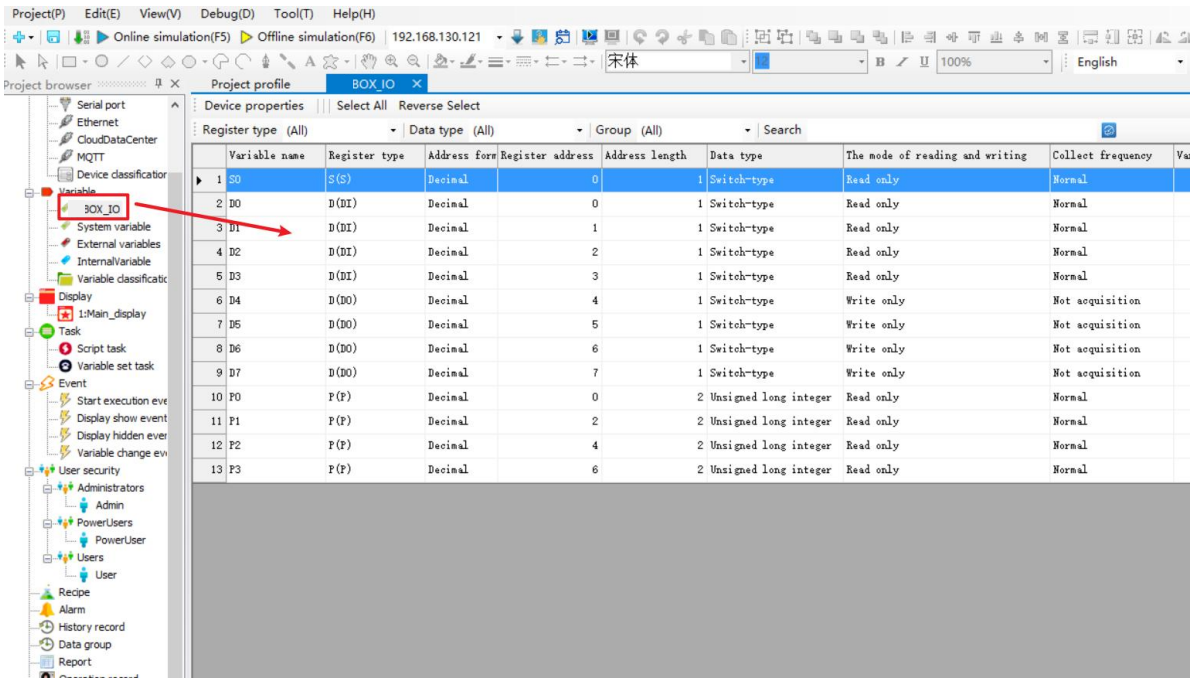


- IO equipment

After creating a new H-BOX-M running platform project, the device column will automatically generate H-BOX-M_IO devices, which are used to configure the device information of the H-BOX-M. H-BOX-M comes standard with 8 digital point inputs (not configurable), and H-BOX-M Pro is configurable 8 digital point inputs/relays Output, after configuring the DI input quantity, the DO output quantity will be automatically calculated;



H-BOX-M_IO variables will also be generated in the variable column to manage the relevant point variables of H-BOX-M;



Among them:

S: Is the variable associated with the SPDT switch on the front of the H-BOX-M fuselage;

D: IO point associated variable, read-only when used as input, and write-only when used as output;

P: Frequency register, when I/O point is input, the corresponding P variable can be used to monitor the input frequency of D;

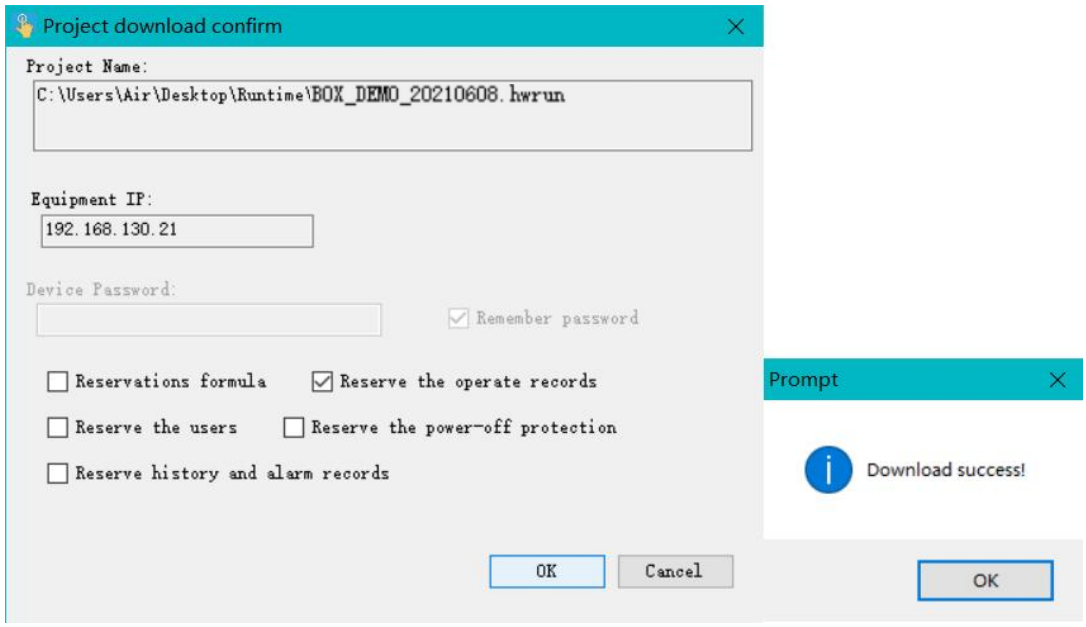
- Download project

Project Step 1: Enter the device manager, you can choose to use the local manager or cloud manager;

Step 2: Click [Download Project] to enter the confirmation download interface.

Step 3: In the confirmation download interface, you can choose whether to keep power outage, whether to keep operation record, whether to keep users, whether to keep the history and alarm records and whether to keep the recipe. After the setting is completed, click [OK];

Step 4: Wait for the pop-up prompt "Download successful!", click [OK] to run the project on the device



- Operational project

After the project is successfully downloaded, wait for the Cloud H-BOX-M to reboot. After the reboot is successful, the start-up screen is automatically displayed. The user can access the Cloud H-BOX-M and operate the project through the IoTbus application or browser.

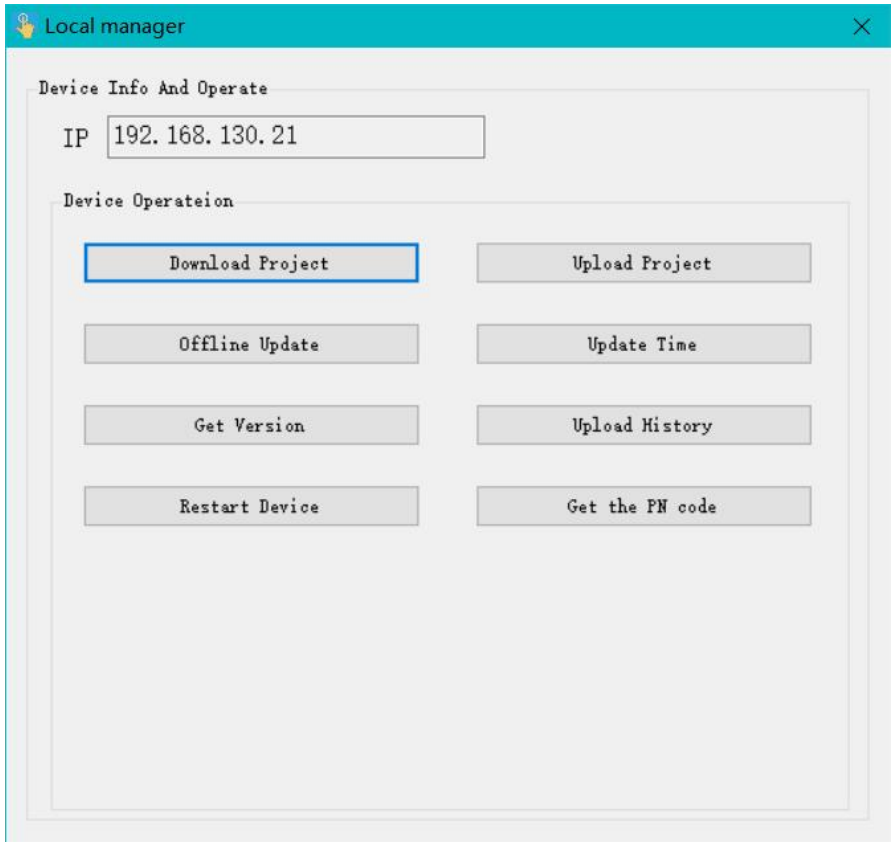
6. Device Manager

Open the configuration design of the computer, click the device manager icon  in the menu bar to enter the device manager; or click [Programs], expand the [HTCloud Designer] installation file, and click [Device Manager] to enter the device manager. Support local operations and cloud management to effectively perform operations on Cloud H-BOX-M

6.1 Entering the Device Management Interface

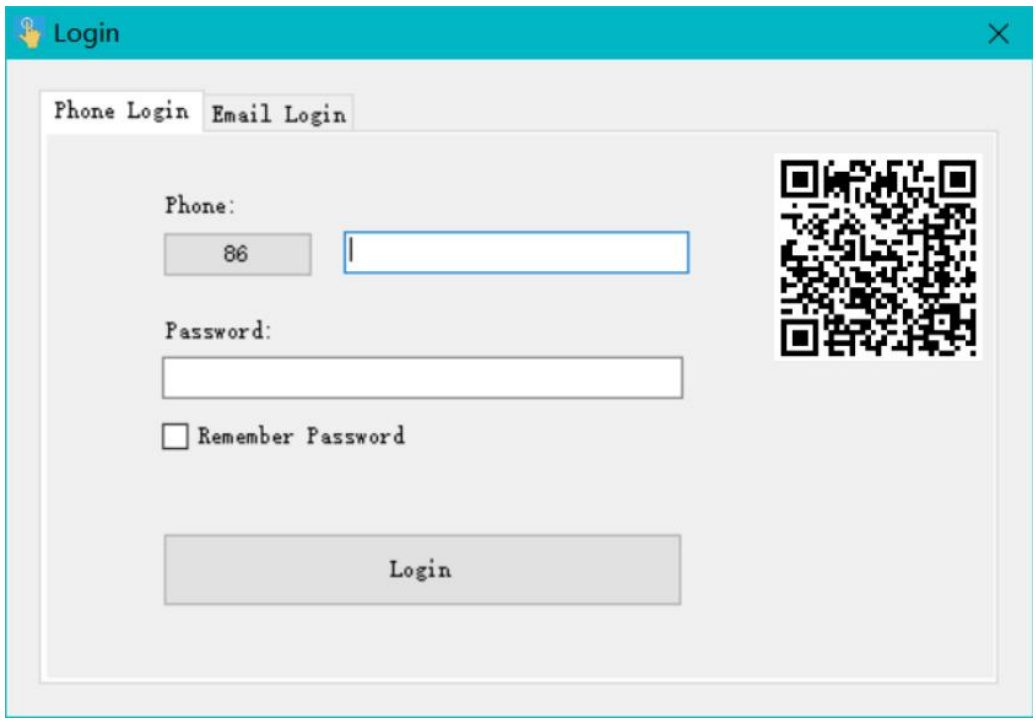
- Local manager

Enter the device manager, click [Local Manager, select the device according to the IP address set by the device, click [Manage], enter the current device manager, you can operate the current device, as shown below:

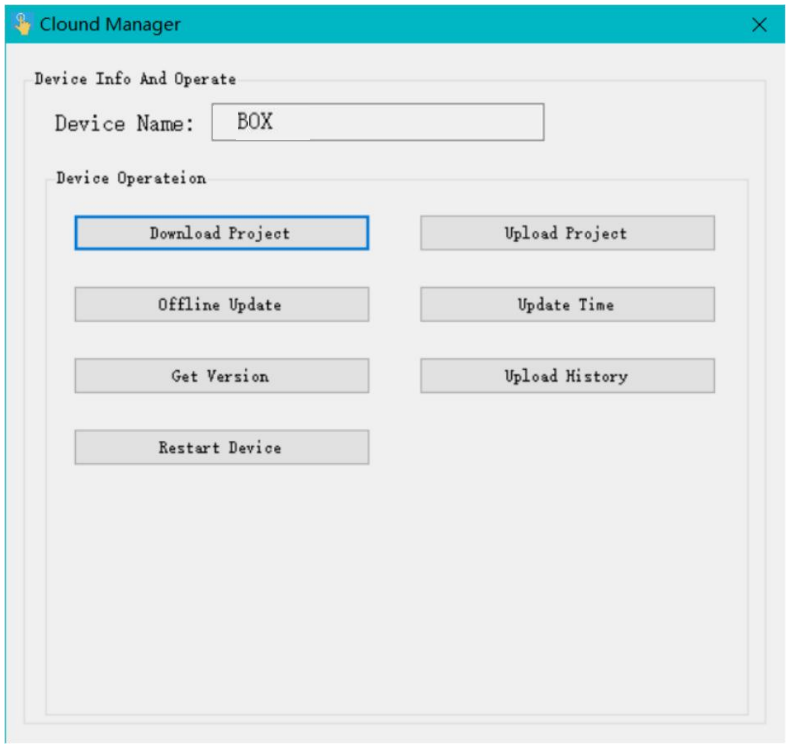


- Cloud Manager

Step 1: Enter the device manager and click [Cloud Manager] to select the phone login and email login. Tip: Device administrators and owners can manage current devices through the cloud manager. Normal users do not have device management rights.



Step 2: The user enters the correct account number and password. Click [Login] to enter the device manager, select the device, click [Manage], enter the current device manager, and operate the current device, as shown below:



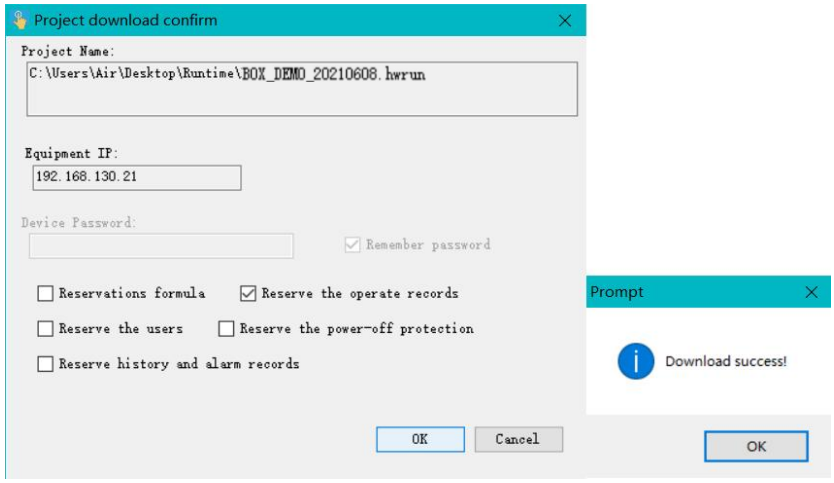
6.2 Performing Device Management

- Download project

Step 1: Click [Download Project] to enter the confirmation download interface.

Step 2: In the confirmation download interface, you can choose whether to keep power outage, whether to keep operation record, whether to keep users, whether to keep the history and alarm records and whether to keep the recipe. After the setting is completed, click [OK];

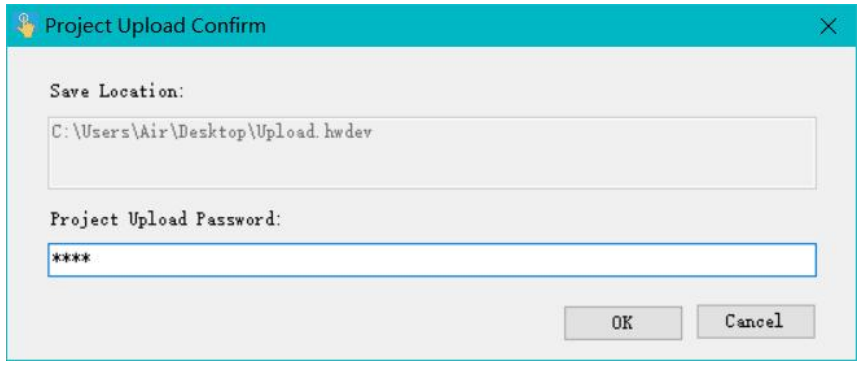
Step 3: Wait for the pop-up prompt “Download success!”, click [OK] to run the project on the device.



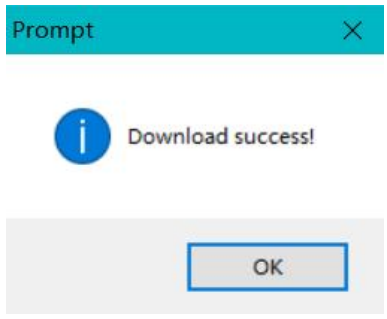
- Upload project

Step 1: Click [Upload Project], select the project upload path and project name, and click Save.

Step 2: Enter the project upload confirmation page. If the project settings upload password, you need to enter the upload password in [Project Upload Password]; if the project does not set the upload password, you do not need to enter the password here;



Step 3: Click [Upload], wait for the pop-up prompt "Project uploading success", click [OK], you can run the project on the device on the PC side.

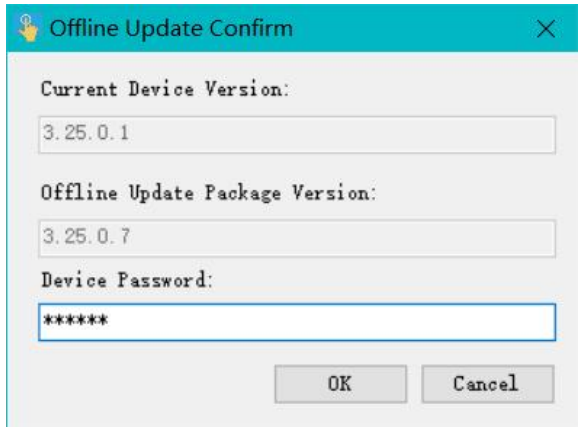


- Offline update

Step 1: Click [Offline Update], select the firmware package, and click [Open];

Step 2:Enter the offline update confirmation page and click [Update];

Step 3: Wait for the update to complete, the prompt H-BOX-M "Update Successed" pops up, click [OK].

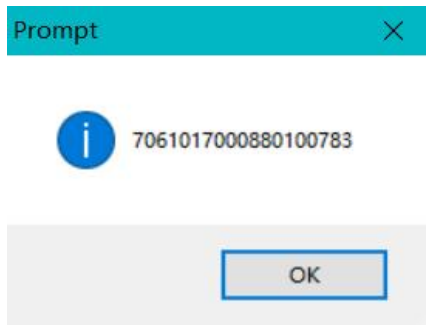


- Update device time

Click [Update Device Time] to update the system time of the device. After the update is successful, check the device time. The time is the same as the system time on the PC.

- Get the PN code

Click [Get PN Code] to view the PN of the current device.

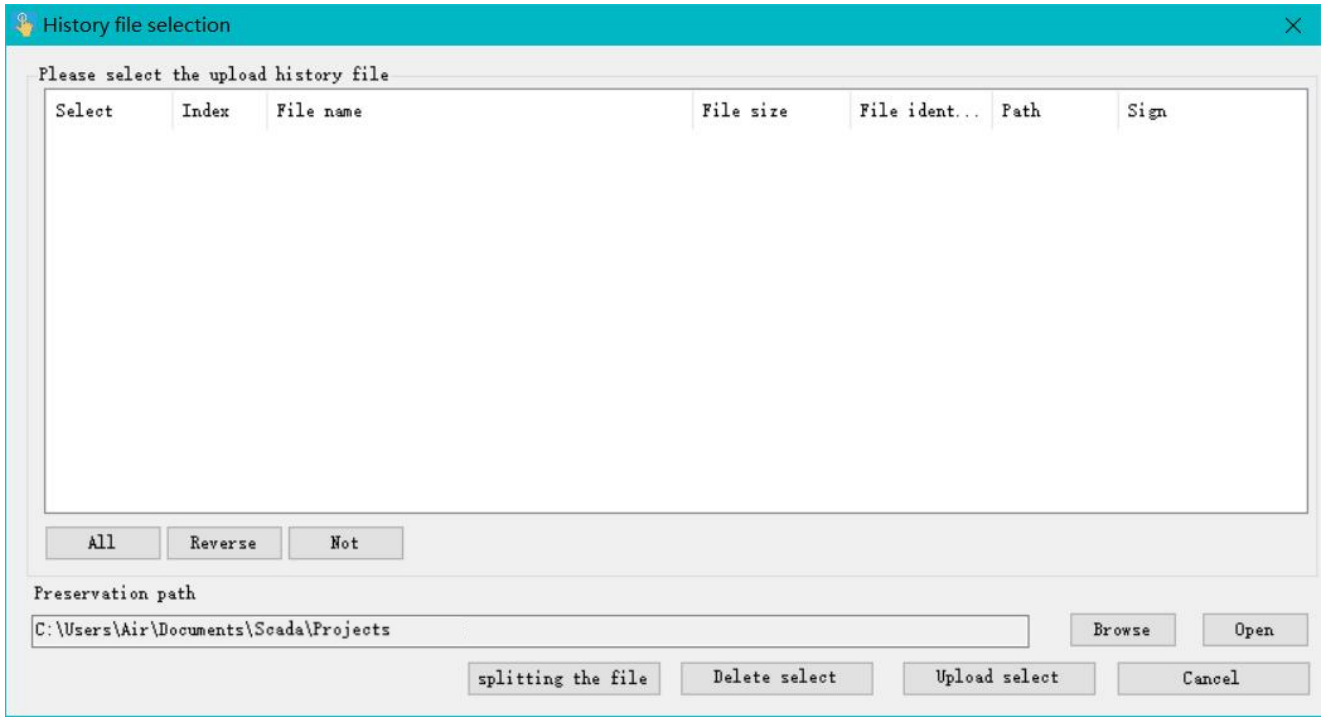


- Detecting device version

Click 【Detecting device version】. It can to check the software and hardware information of device currently.

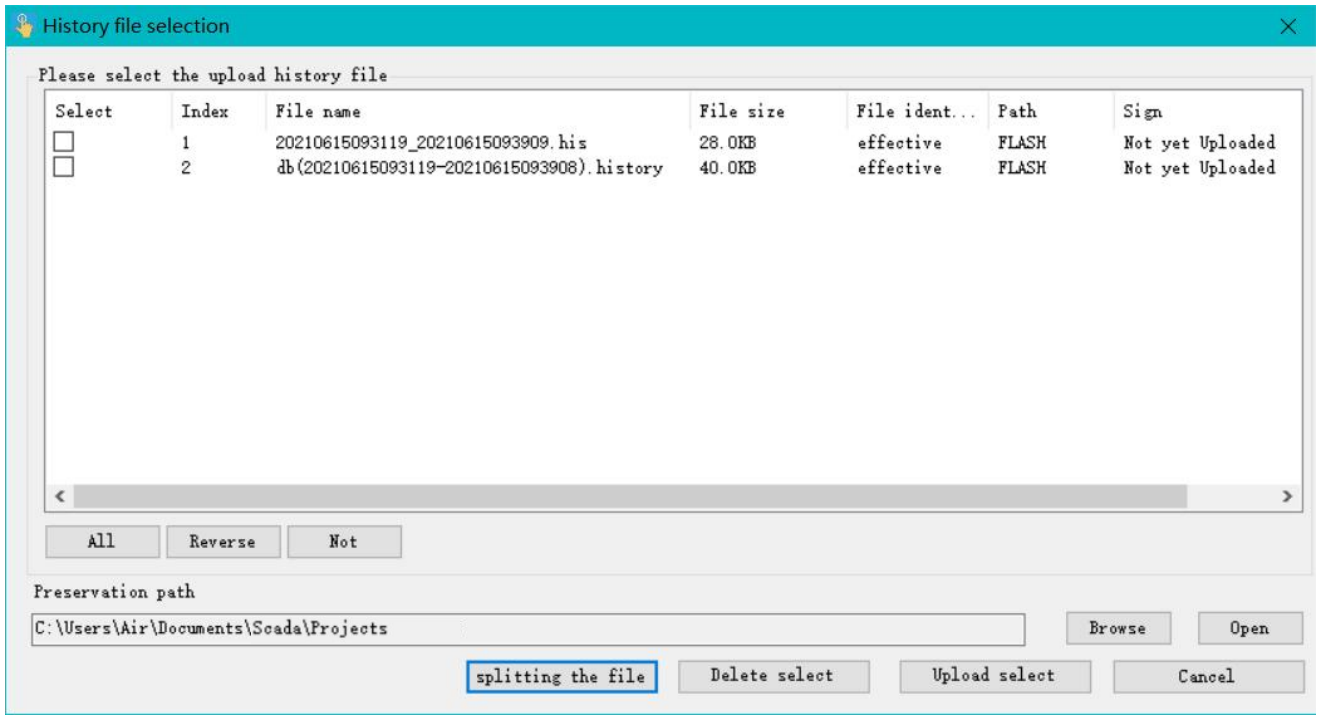
- History record upload

Click [history record upload]. enter the history record upload interface.



① Split the history file

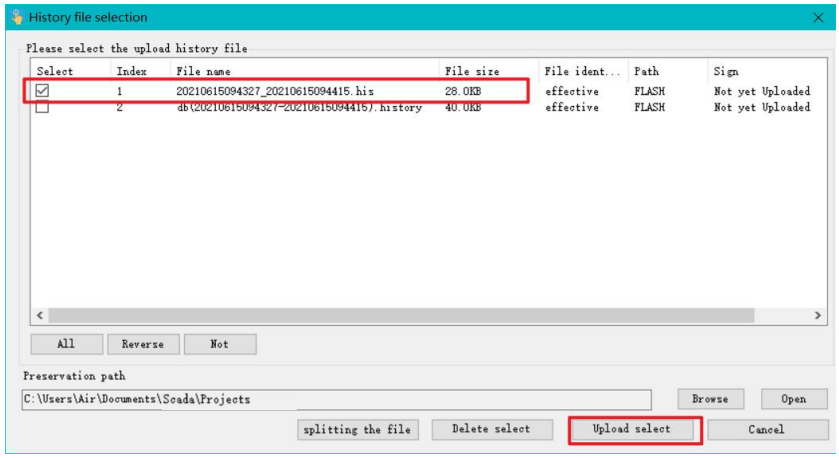
Step 1: click [splitting the file], it can split the history record file for most recent period of time.



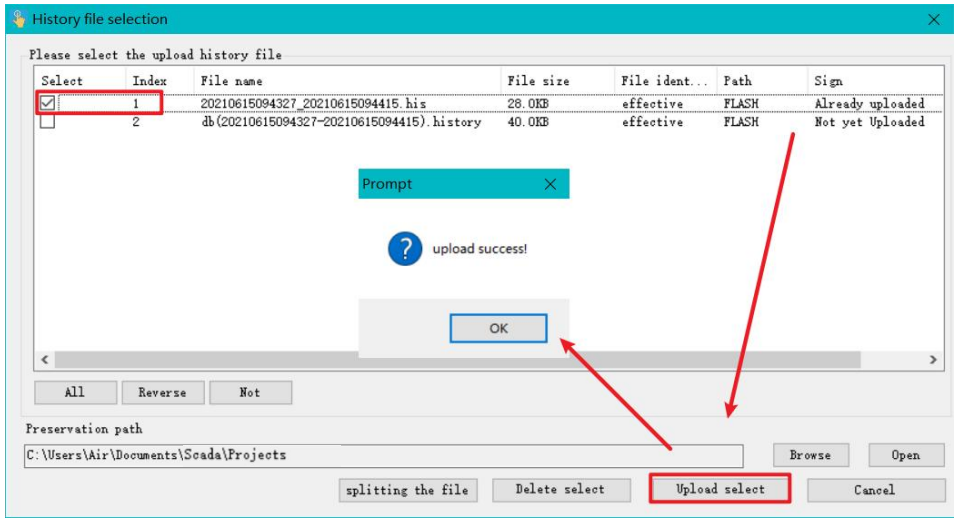
Step 2： waiting for history record file successfully and pop up the “ split success” prompt H-BOX-M. Then click the [OK], there will add new split history file currently in history record file list.

② Upload history file

Step 1: Select the history file in the history file list, enter the history file storage path, and click [Upload Select File];



Step 2: Wait for the history file to be uploaded successfully. The “History upload success” prompt H-BOX-M will pop up. Click [OK]. After the upload is successful, the current history file is marked as “Uploaded”.

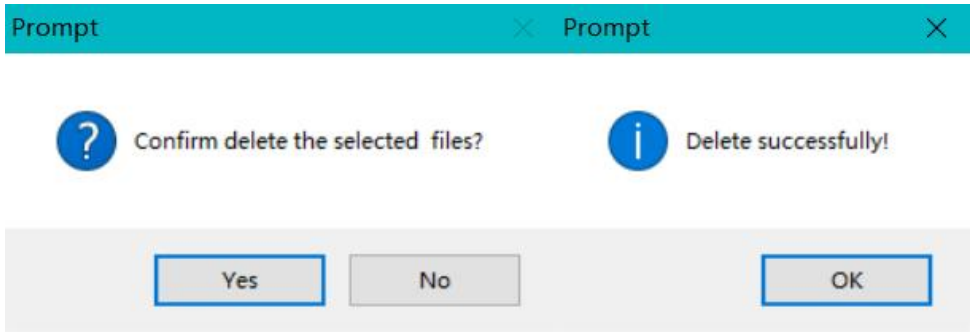


③ Delete history file

Step 1: Select the history file in the history file list and click [Delete Select]

Step 2: Pop up the Confirm Delete File prompt H-BOX-M and click [Yes]

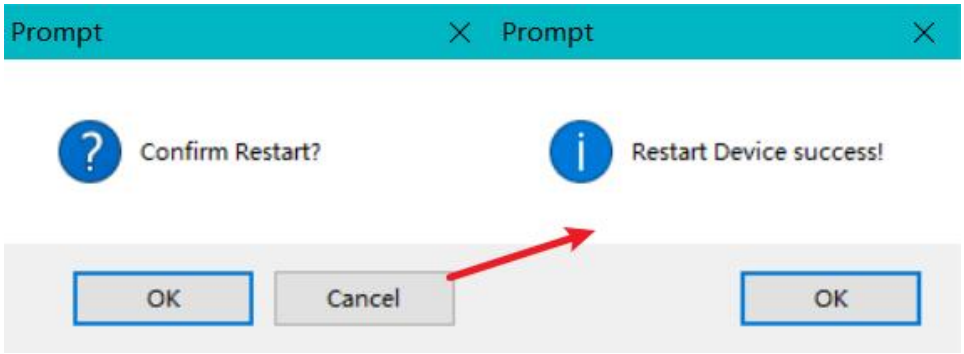
Step 3: Wait for the history file to be deleted successfully. The “Delete Successfully!” prompt H-BOX-M will pop up, click [OK].



- Restart device

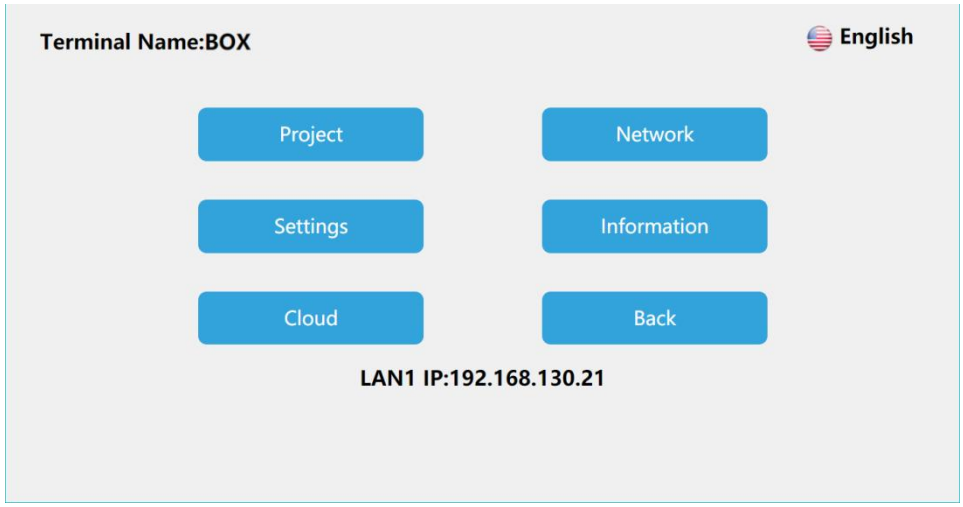
Step 1: Click [Restart Device], pop-up confirmation restart prompt H-BOX-M click [Yes];

Step 2: Wait for the device to restart. After the restart is successful, the “Restart device success!” prompt H-BOX-M is displayed, and click [OK].



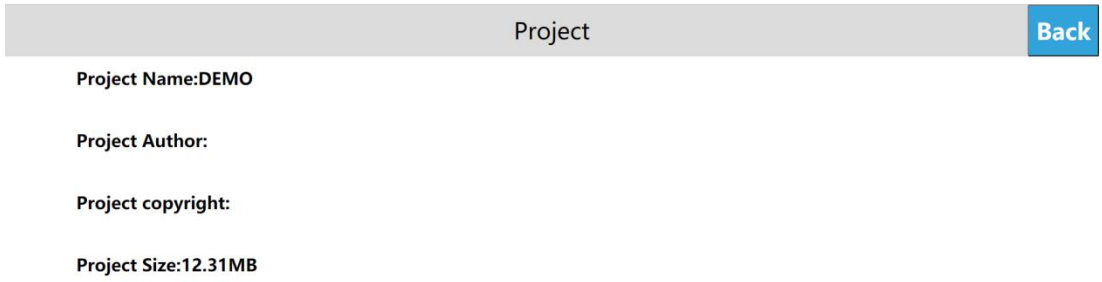
7. Background setting

Through the local device of IoTbus to visit Cloud H-BOX-M and click the  to enter the background setting interface; or through the browser to visit the Cloud H-BOX-M and input the IP/setting then enter the background setting interface.



7.1 Project

Click on the project settings, the project name, author, copyright, and project size of the current device will be displayed.



7.2 Network

- Ethernet connection

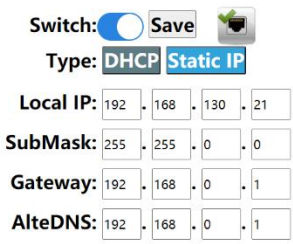
Enter the Cloud H-BOX-M background setting interface, click [Network Settings], enter the Ethernet setting interface, open [Network Switch], and the network type includes DHCP and Static IP.

①Dynamic IP

Select [DHCP] for the network type and click [Save], the device will automatically obtain the IP.

②Static IP

Select [Static IP] for the network type, enter the correct IP address, subnet mask, default gateway, and DNS, click [Save]. After the verification is passed, the cloud H-BOX-M Cloud H-BOX-M device can connect to the network through Ethernet.



- WIFI Settings

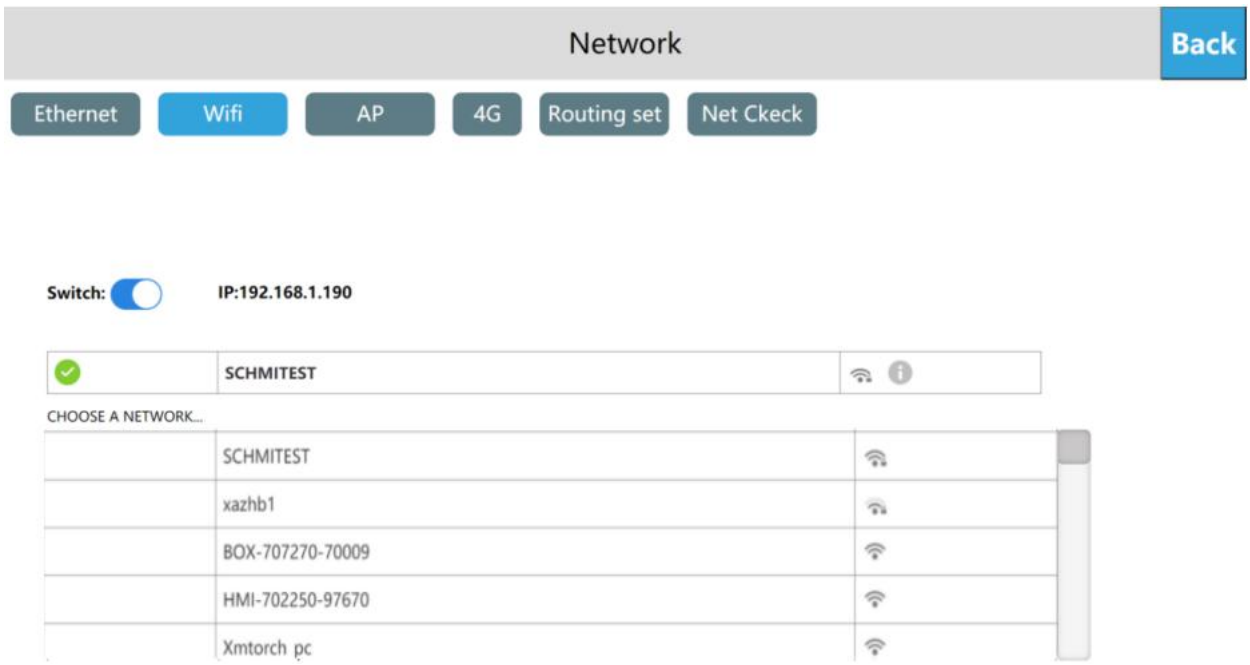
Click [WIFI Settings] to enter the WIFI settings interface to support network connection via WIFI. At the same time, the Cloud H-BOX-M built-in network card can also share WIFI hotspots for other users.

① WIFI connection

Enter the WIFI settings interface, open the WIFI switch, select the target WIFI account, enter the correct WIFI password, and then connect to the WIFI network after verification.

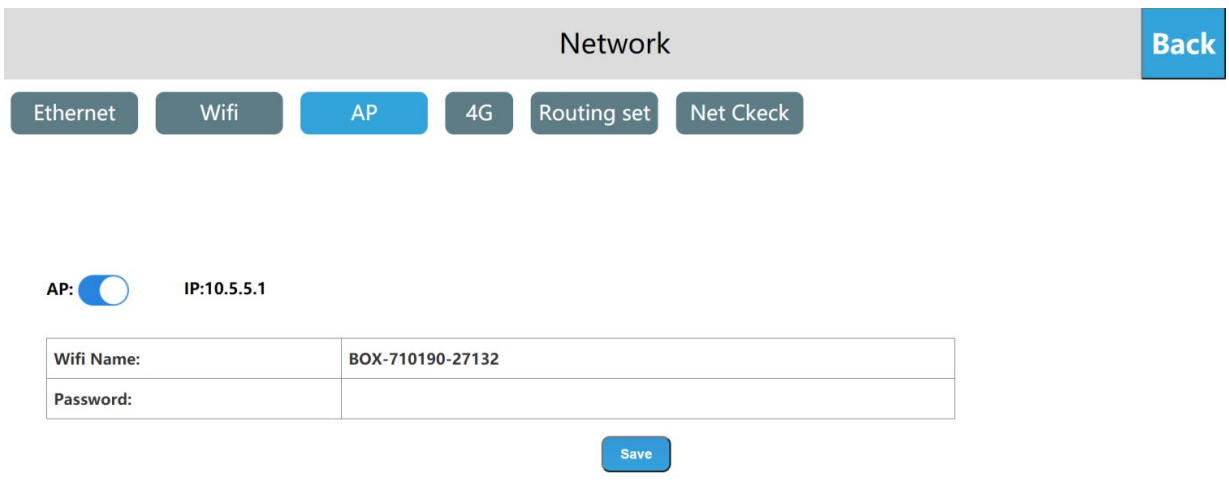
② WIFI sharing

Enter the WIFI settings interface, open the personal hotspot switch, set the hotspot name and password, and then share the WIFI hotspot for other users.

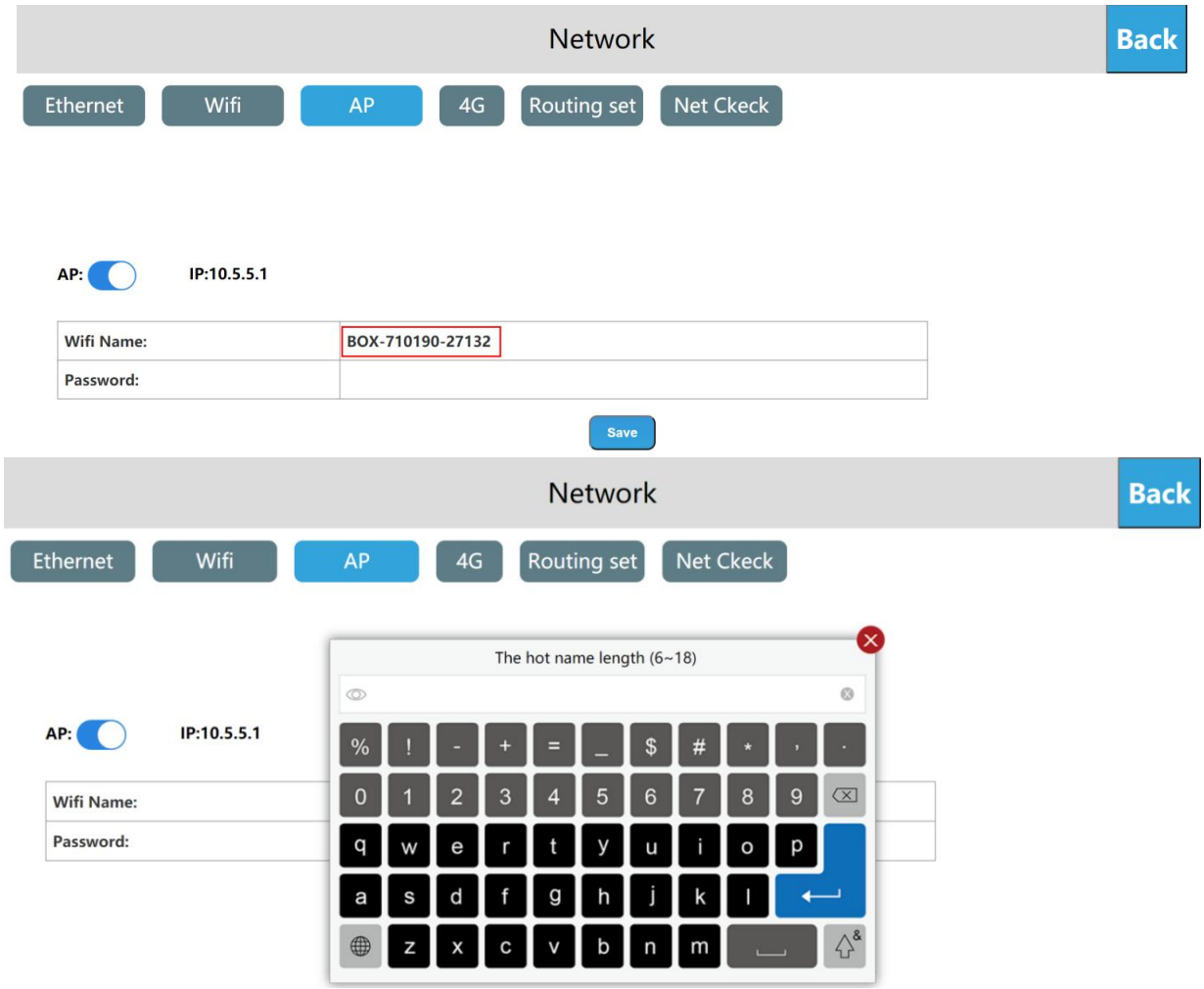


- Personal Hotspot

Turn on the personal hotspot switch, set the hotspot name and password, and then it can share the WIFI hotspot for other users.

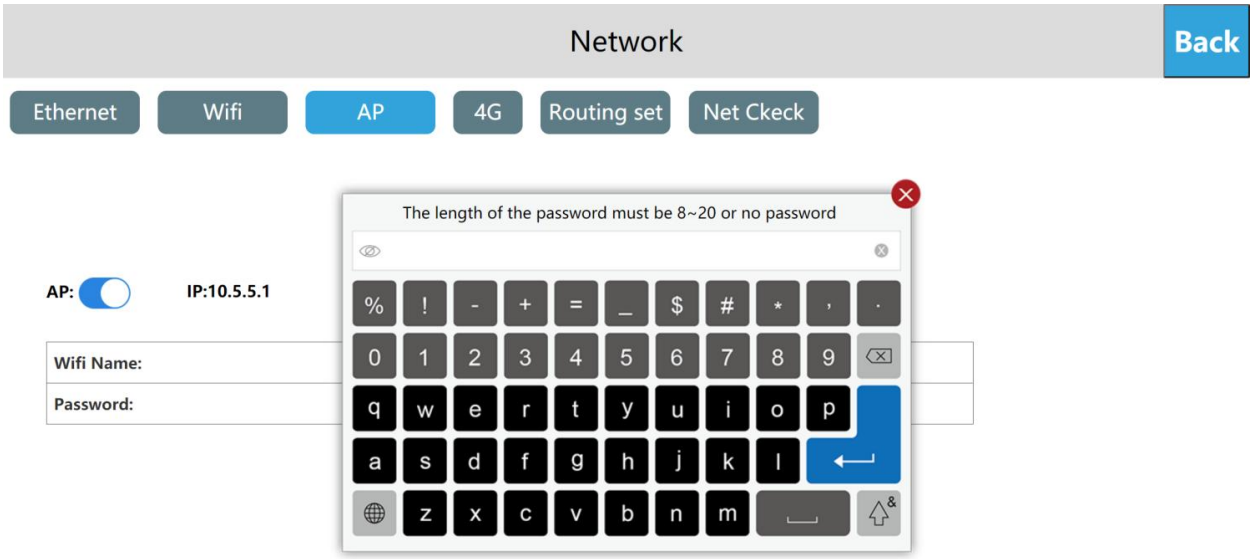


Set the hotspot name, click “WIFI name”, a hotspot name input H-BOX-M pops up.



Set password, click “Password”, a password input H-BOX-M pops up, click the upper left corner of the input H-BOX-M  to switch between the plain-text and cipher-text of the password.

Enter the password, click [Enter], and click [Save] to save the added password information.



The factory default WIFI password of H-BOX-M is empty.

Note: The length of the hotspot name is 6 to 18 bits, and the password can be empty or set to 8 to 20 bits. When it exceeds the range, the entered hotspot name and password will not be displayed in the corresponding location and a prompt will pop up.

- **4G network Settings**

4G network function is optional

No 4G

Enter the Cloud H-BOX-M background setting interface, click [Network Settings], enter the Ethernet setting interface, open [4G switch], prompt "no 4G module".

With 4G

The switch of 4G function is off by factory default.

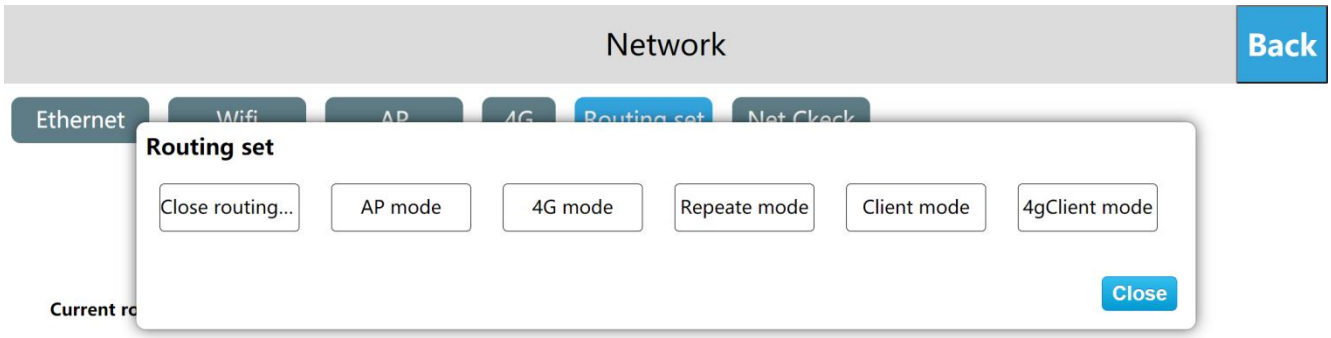
Enter the Cloud H-BOX-M background setting interface, click [network setting], enter the Ethernet setting interface, and open [4G switch], then 4G function can be normally used.

1、Turn on the WIFI hotspot, turn off the 4G wireless routing, and connect the hotspot to the mobile phone，the cloud app can access the local device normally , but cannot access the cloud device or access the external network.

2、Turn on the WIFI hotspot, turn off the 4G wireless routing, and connect the hotspot to the mobile phone, the cloud app can use the LAN device and the cloud device normally, and can be connected to the external network.

- Routing configuration

The routing modes include: close routing / AP point mode / 4G routing mode / The repeate mode / client mode/ 4G client mode, the defaut is "Close routing"



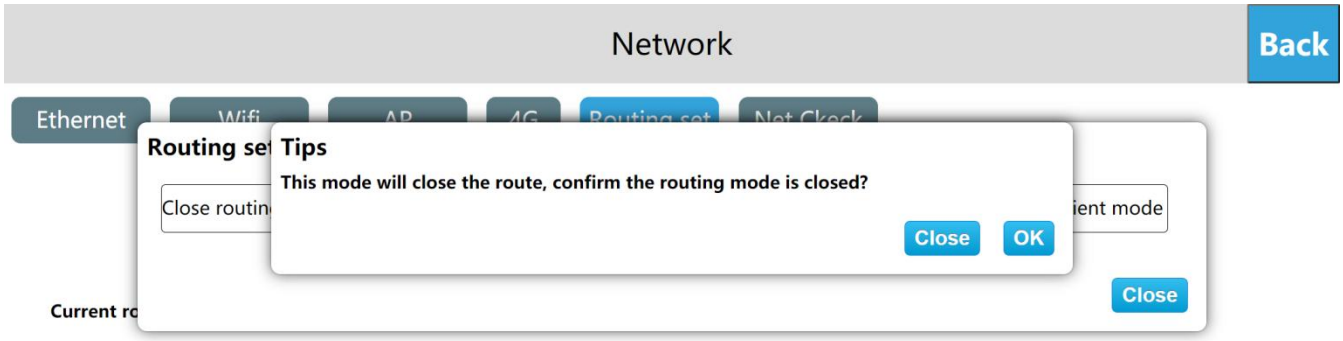
Comparison of various routing modes and network types:

	Close routing (Routing switch)	AP MODE	4Grouting mode	Repeate mode	Client mode	4G client mode
Ethernet	LAN / Internet	LAN / Internet	LAN	LAN	unsupported	unsupported
WIFI	LAN / Internet	unsupported	unsupported	Connect to the Internet	Connect to the Internet	unsupported
Hotpot	LAN	LAN / Internet	LAN / Outer net	LAN / Internet	unsupported	unsupported
4G	Outer net	unsupported	Internet	unsupported	unsupported	Outer net
Network provided	Ethernet/WIFI/4G	Ethernet	4G	WIFI	WIFI	4G

- Close routing mode

Enter the Cloud H-BOX-M background settings interface, click [Network], enter the route configuration interface, click "Settings", click "Close routing", a prompt "This mode will close the route, confirm the routing mode is closed" Click "OK", it is set to close routing

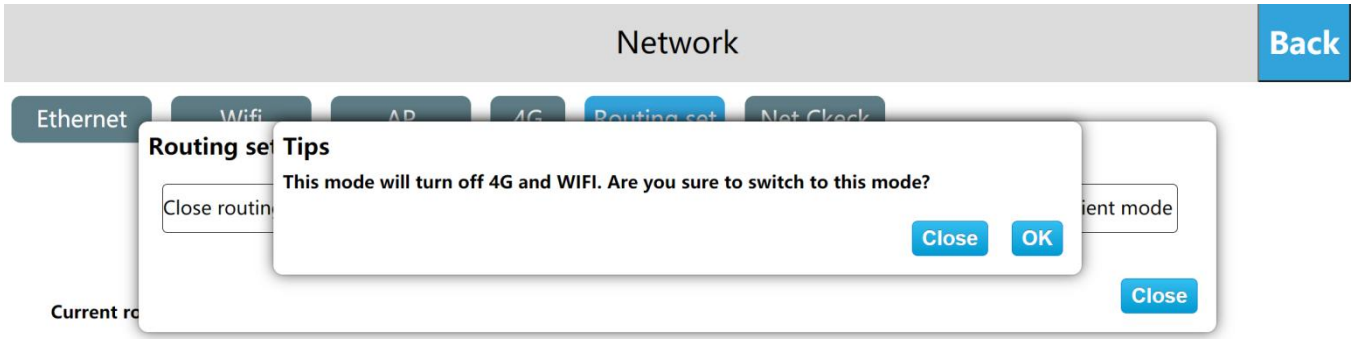
"Close routing" mode, only turn off the Ethernet, WIFI, 4G routing function. The hotspots open in this mode only support LAN networks, and do not support Internet access. The function settings of Ethernet, WIIF and 4G remain unchanged.



- AP mode

Enter the Cloud H-BOX-M background settings interface, click [Network], enter the routing configuration interface, click "Settings", click "AP Mode", a prompt "This mode will turn off 4G and WIFI, are you sure to switch to this mode?", Click "OK" to set to wireless access point mode.

In the "AP" mode, only the wired network provides the network, and Other devices can access LAN and internet by connecting to the personal hotspot of the device.



➢ 4G routing mode

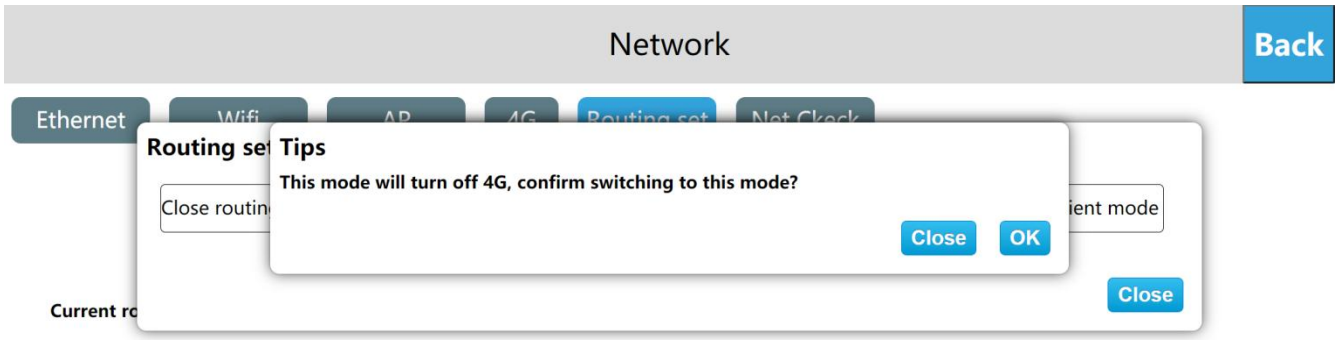
Enter the Cloud H-BOX-M background settings interface, click [Network], enter the routing configuration interface, click "Settings", click "4G Routing Mode", a prompt "Will this turn off WIFI, confirm switching to this mode?", click "ok" to set the 4G routing mode.

In "4G routing" mode, only 4G provides the network to the device, and other devices can connect to the local area network and external network by connecting the personal hotspot of the device. The wired network in this mode only supports LAN networks.

➢ Repeater mode

Enter the Cloud H-BOX-M background settings interface, click [Network], enter the routing configuration interface, click "Settings", click "Repeater", a tips shown "This mode will turn off 4G, confirm switching to this mode?", Click "OK", set to repeater mode.

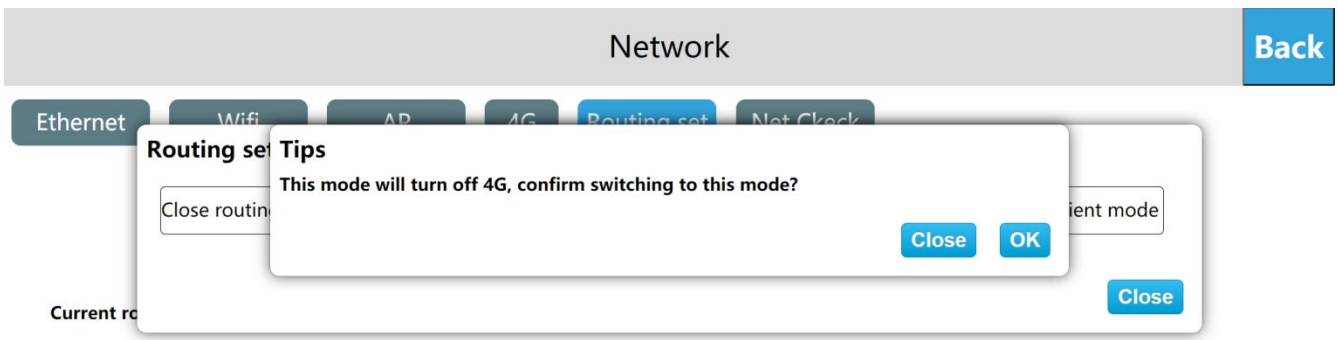
In "Repeater" mode, only connected hotspots of WIFI provide the network. First, connect a hotspot that can be connected to the Internet, and then provide network to other devices through the personal hotspot of this device, supporting both local area network and extranet. The wired network in this mode only supports LAN networks.



➢ Client mode

Enter the Cloud H-BOX-M background settings interface, click [Network], enter the routing configuration interface, click "Settings", click "Client mode", a tips shown "This mode will turn off personal hotspots and 4G, confirm switching to this mode?", Click "OK" to set the client mode.

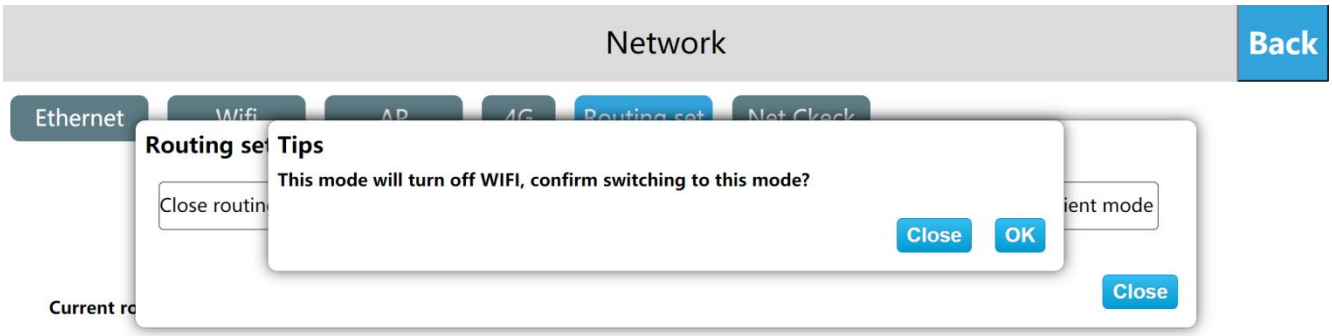
In the "Client" mode, the network is provided by the hotspot connected by WIFI. At this time, the Cloud H-BOX-M is equivalent to a router. The Cloud H-BOX-M is connected to the wired network, and then connected to the device through the wire to provide the network to the device. In this mode, personal hotspot function is not supported.



➢ 4G client mode

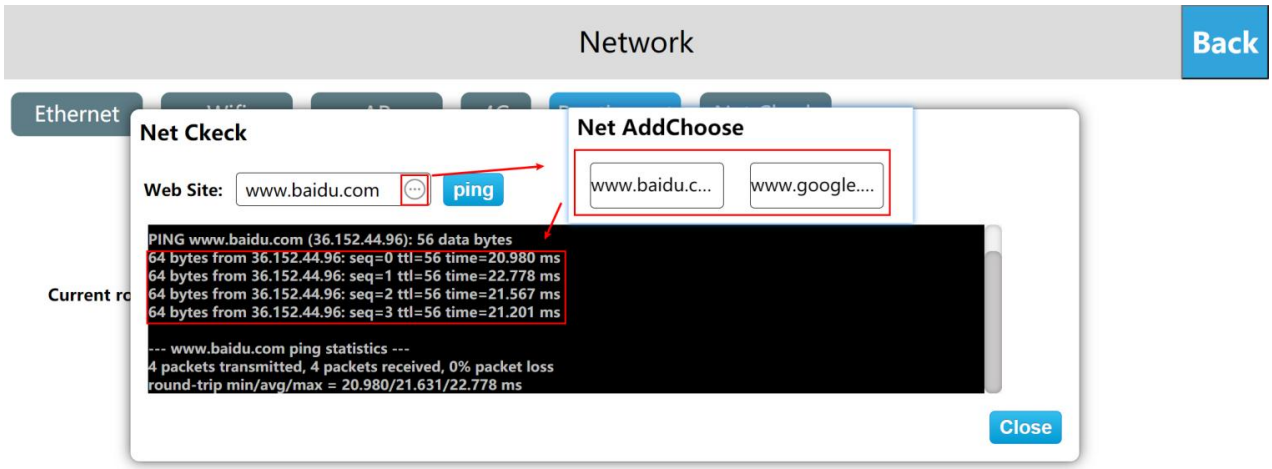
Enter the Cloud H-BOX-M background settings interface, click [Network], enter the routing configuration interface, click "Settings", click "4G Client Mode", a tips shown "This mode will turn off personal hotspots and WIFI, confirm switching to this mode?", Click "OK" to set to 4G client mode.

In the "4G client" mode, 4G provides the network. The Cloud H-BOX-M at this time is equivalent to a router. The Cloud H-BOX-M connects to the wired network, and then connects to the device through the wire to provide the network to the device. In this mode, personal hotspot function is not supported.



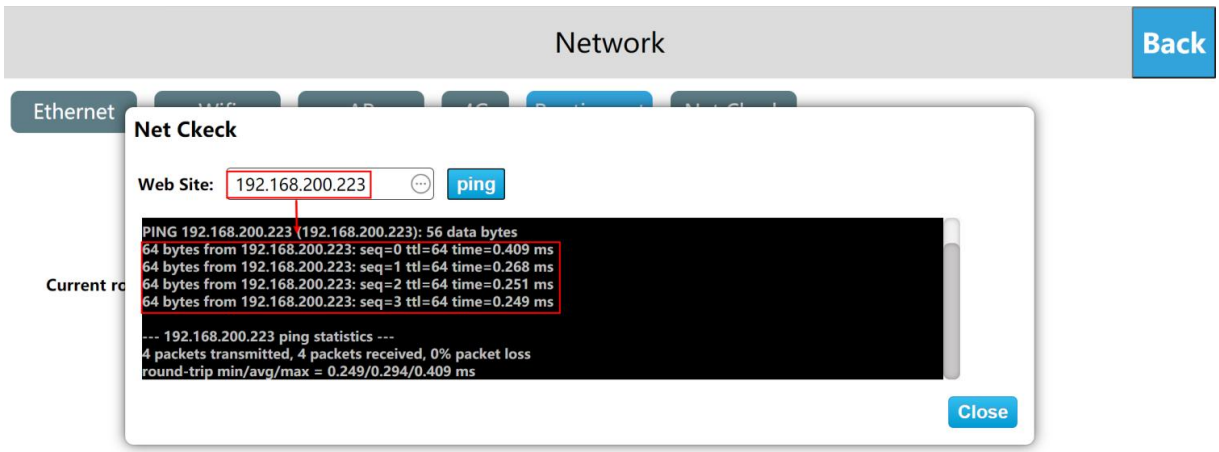
- Network diagnosis
  - Internet access

Use Net check, click the website  , select the website to visit, if the returned information means that the device is connected to the network.



  - LAN access

Use Net check, click the website, enter the appropriate IP address for the advice you want to access, if the returned information means that the device is connected to the network.

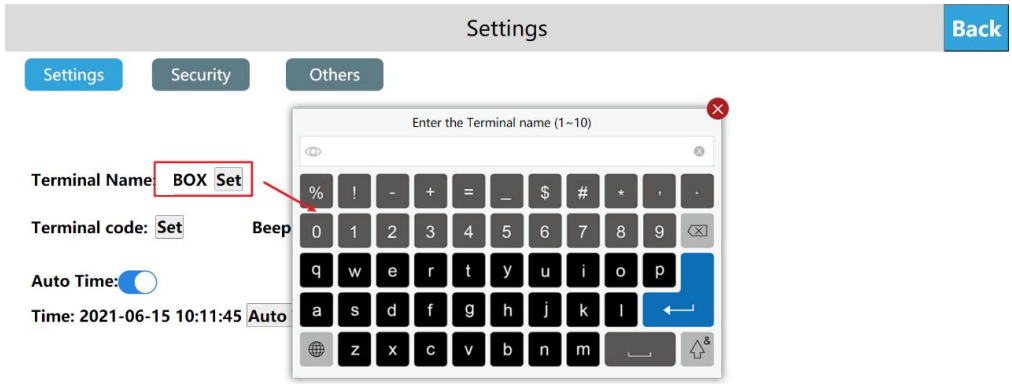


7.3 Settings

- Settings

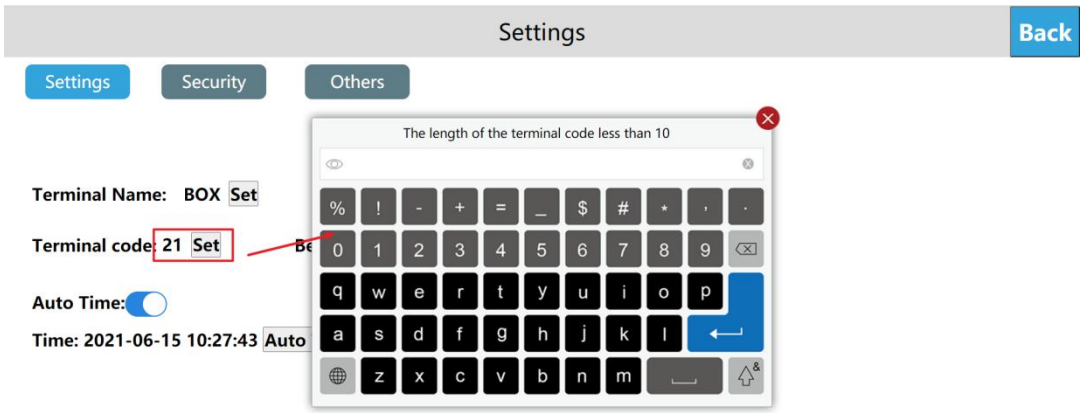
➢ Terminal name setting

Enter the Cloud H-BOX-M background setting interface, click [Settings], in the [Settings] interface, you can see [Terminal name], click [Set], enter the new machine name, and click [Save].



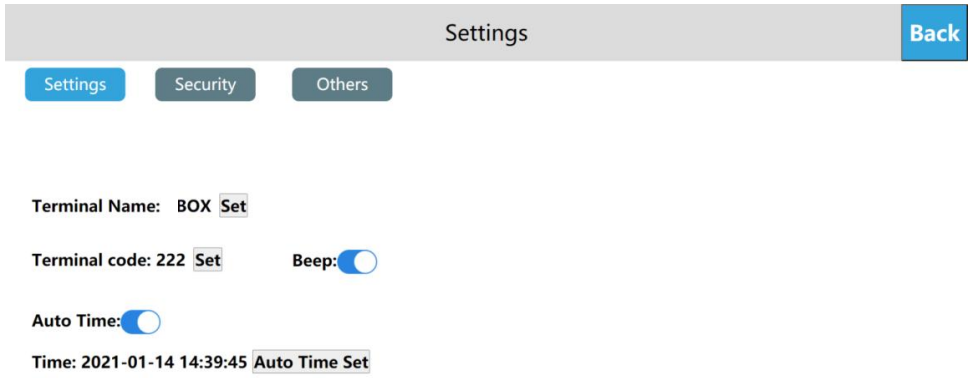
➢ Terminal code setting

Enter the Cloud H-BOX-M background setting interface, click [Settings], in the [Settings] interface, you can see [Terminal name], click [Set], enter the new machine name, and click [Save].



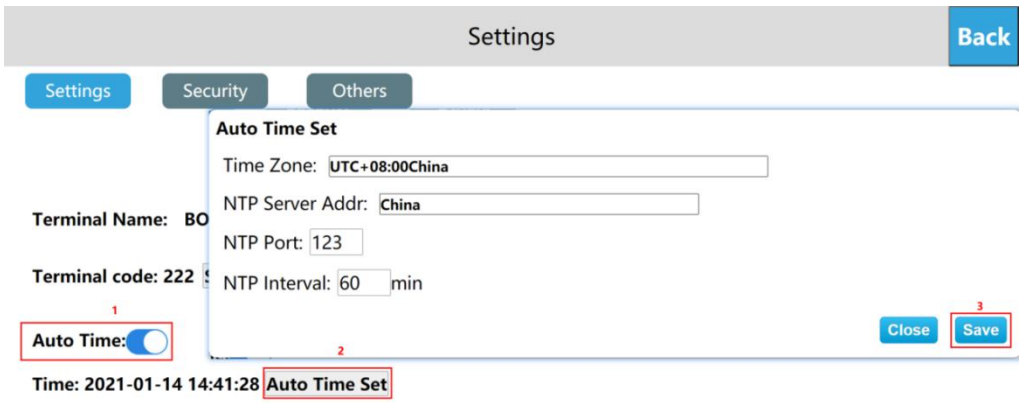
➢ Beep setting

Enter the Cloud H-BOX-M background setting interface, click [Settings], and open the [Beep] function in the [Display and Sound] interface. After the setting is successful, the buzzer will respond when the user clicks the Cloud H-BOX-M button.



➢ Time setting

Enter the Cloud H-BOX-M background setting interface, click [Settings], click [Modify] in the [Time Settings] interface, enter the time and date setting interface, after completing the setting, click "ok" to set the system time.



- Security

➢ Set the Cloud H-BOX-M download password

Enter the Cloud Box background setting interface, click [Settings], open the [Download project Password] function in the [Settings] interface, and set the Cloud Box download password. the user needs to verify the password when downloading the project and updating the firmware after the setting is successful, otherwise, the related operation cannot be performed.

➢ Set the Cloud H-BOX-M background password

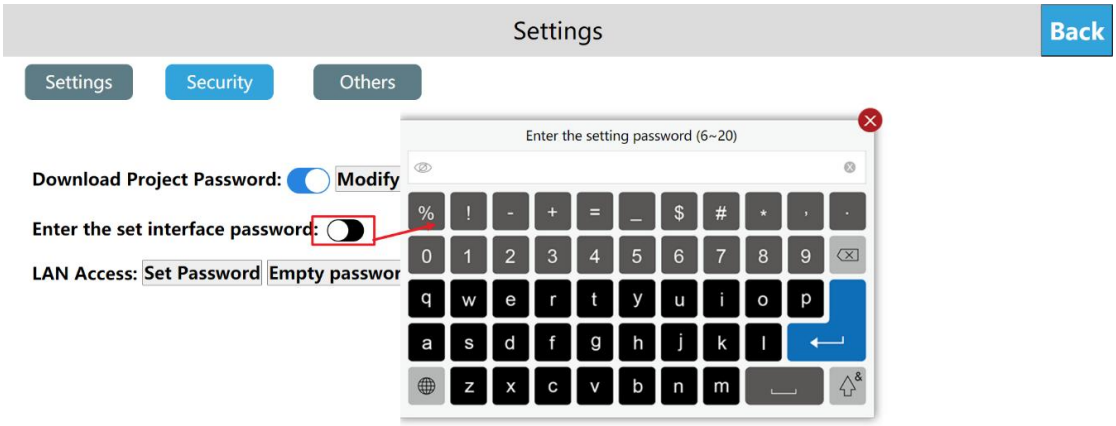
Add the password validation into entering background. It can avoid the potential safety hazard and economic losses cause by

misuse of unrelated personal.

Step 1: enter the Cloud H-BOX-M background setting interface and click the [hardware setting]

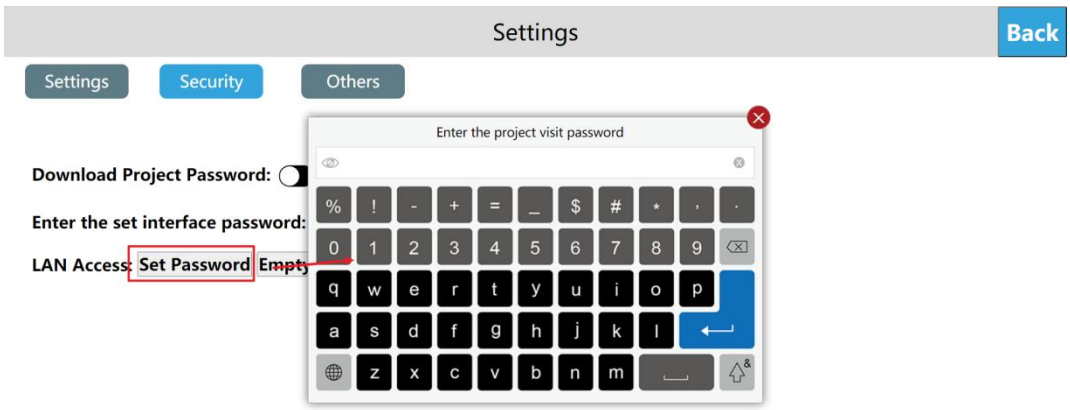
Step 2: Open the [Enter the setting password] function in [setting] interface

Step 3: Set the entering background password. Set successfully after, user needs the validation password for entering the background setting.



➢ Set up the H-BOX-M LAN access password

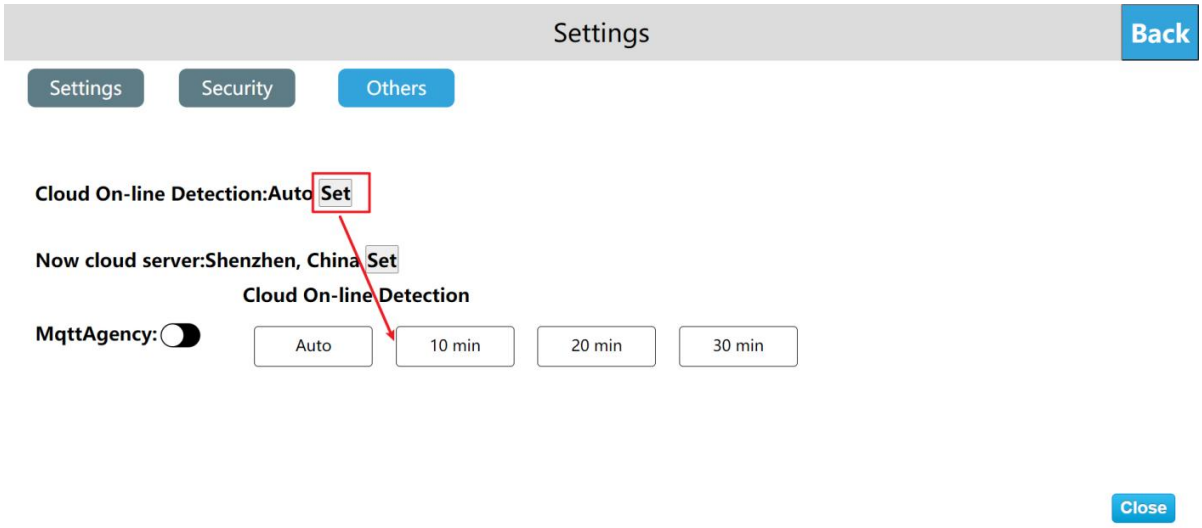
Enter the H-BOX-M background setting interface of the cloud box, click [Local Settings], and click [Set Password] under the LAN access of the [Security Settings] interface to set the LAN access password. After the setting is successful, the user can use the mobile phone cloud APP and the LAN PC terminal Password verification is required to access and use the connection network engineering function.



- Others

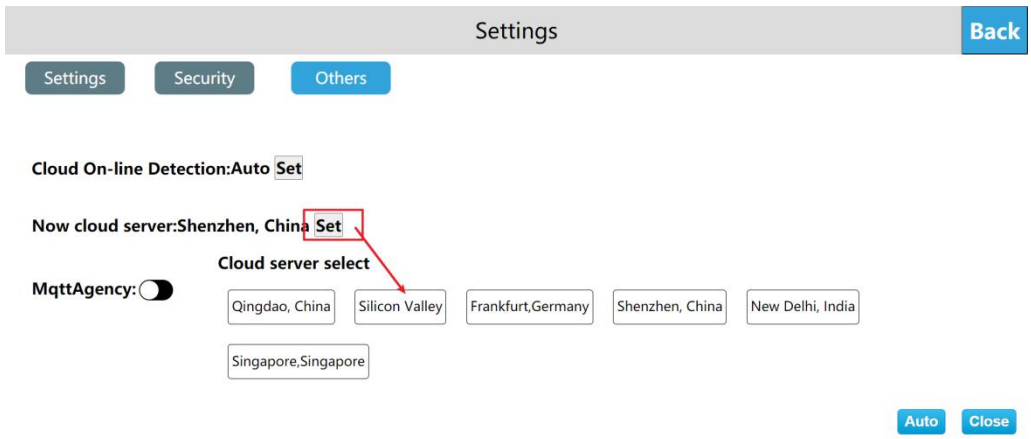
➢ Device cloud online detection frequency setting

Enter the cloud box H-BOX-M background setting interface, click [Local Settings], in the [Other Settings] setting interface, you can see [Device Cloud Online Detection Frequency], click [Settings], you can set the frequency of cloud online detection: automatic selection (120s b once), 10min/once, 20min/once, 30min/once.



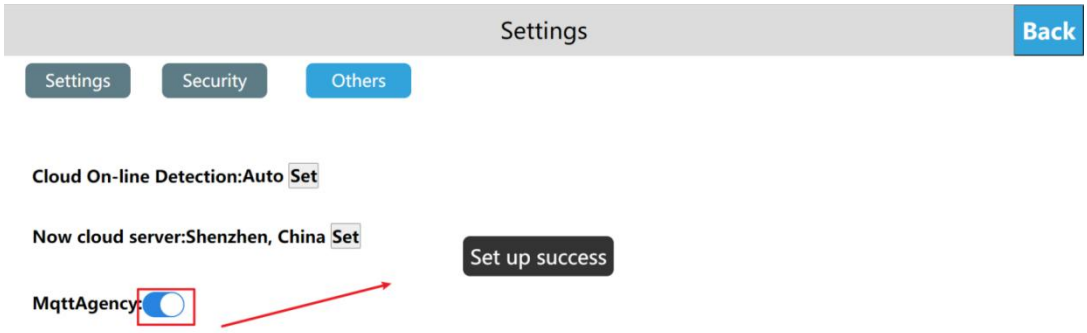
➢ Cloud server settings

Enter the cloud box H-BOX-M background setting interface, click [Local Settings], in the [Other Settings] setting interface, you can see [Current Cloud Server], click [Settings], you can choose the cloud server by yourself. Servers include: Qingdao, China, and the United States Silicon Valley, Frankfurt, Germany, Shenzhen, China, India, Singapore.



➢ MQTT Proxy

Enter the H-BOX-M background setting interface of the cloud box, click [Local Settings], and click [MQTT Proxy] function under the LAN access of the [Other Settings] interface. After enabling, the terminal device can be used as a small MQTT server. For specific usage, please refer to MQTT user manual.



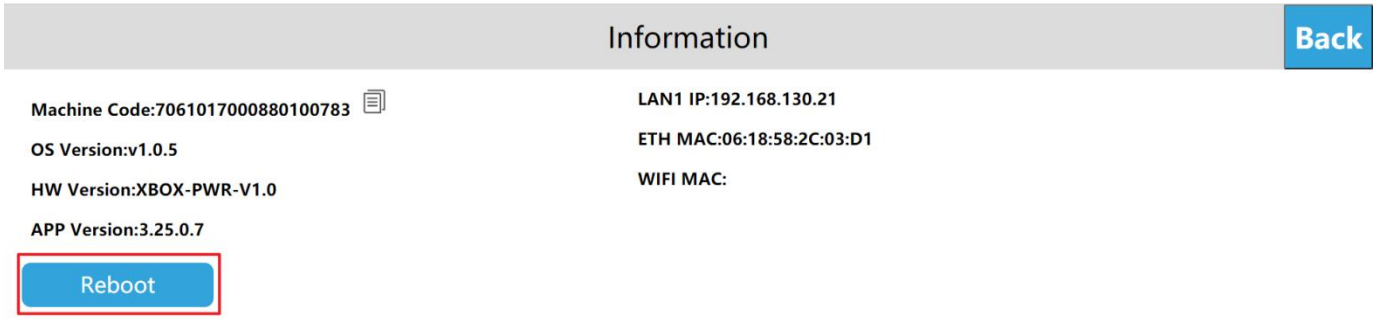
7.4 Information

Enter the system information, you can view the current device related parameters.

- Reboot the device

The user enters the Cloud H-BOX-M background setting interface, click [Information], select [Reboot], and then reboot the Cloud H-BOX-M device. You can also reboot the device through the Device Manager. For the operation method, please refer to the Device Manager. - Instructions for reboot the device.

Related topic: How to reboot Cloud H-BOX-M devices via device manager



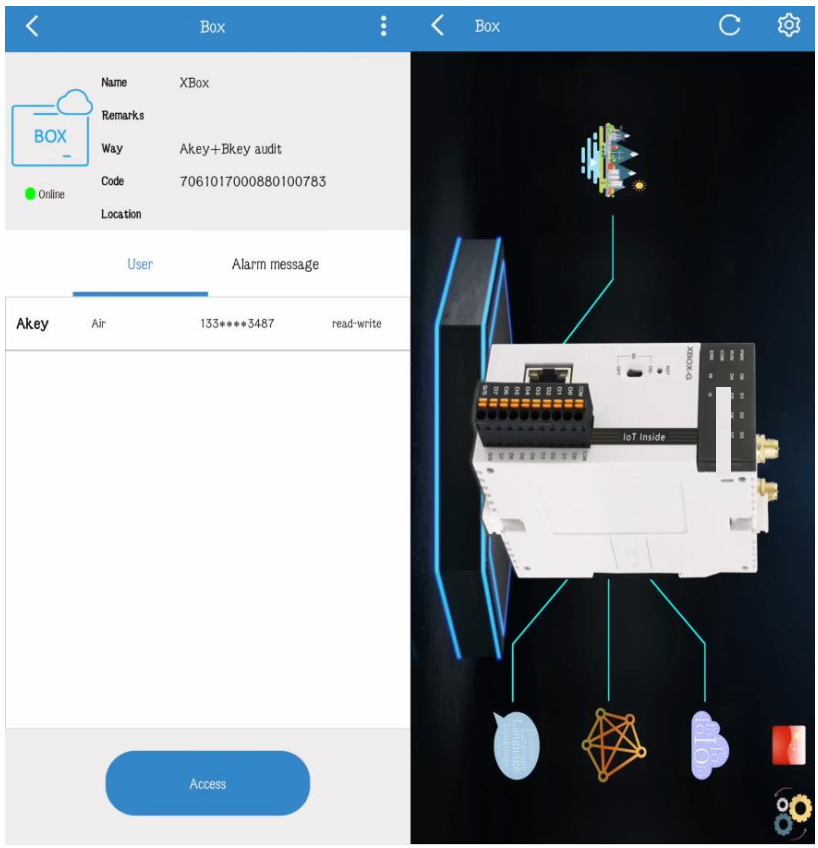
7.5 Cloud settings

Enter the Cloud H-BOX-M background setting interface, click [Cloud (Online)], open the cloud switch, and pop up the QR code and machine code.

Log in to the cloud app, go to the [Device] interface, click the button in the upper left corner  of the main interface, and scan the QR code to add the device. The confirmation binding prompt H-BOX-M pops up on the device. Click [OK], the device is added successfully, and the user can access the device remotely.

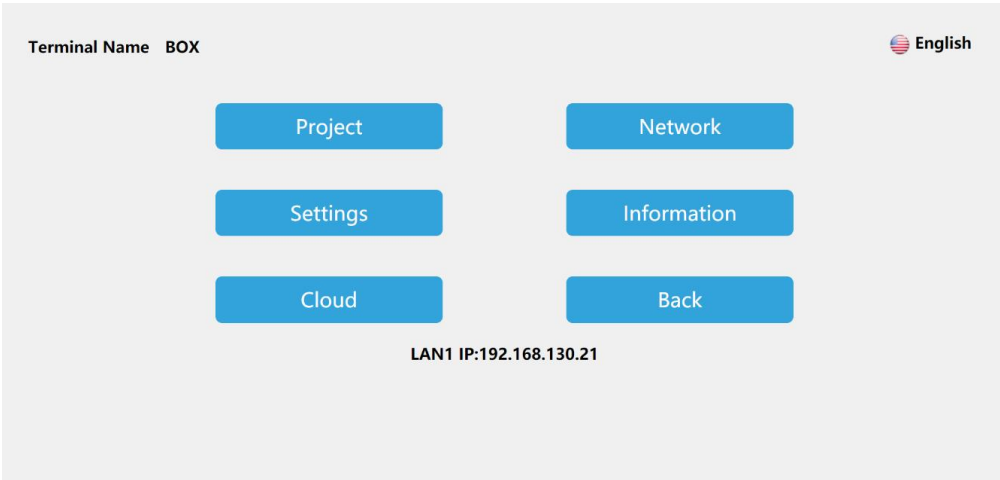
- Remote control

The mobile phone enters the APP and enters the device; click [Access] to access the device. If the current project allows remote operation, the user can remotely control the device through the mobile phone.



7.6 Multi-language setting

Enter the Cloud H-BOX-M background setting interface. Click the Language Settings button at the top right of the screen to switch the system language. The device supports both Simplified Chinese and English.



7.7 Exit background settings

In the Cloud H-BOX-M background setting interface, click [Back] to exit the background setting and enter the project running interface.

Thanks for choosing HNC Products, If you have any questions about our products or services, please let us know!

Website: www.hncelectric.com