



MICORemote Monitoring System Brochure

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Shenzhen Hexin Automation Technology Co., Ltd.

statement

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Precautions

CO-TRUST CP6453The installation, operation and maintenance of the remote gateway module should only be performed by qualified personnel. Hexin is not responsible for any consequences arising from the use of this information.

Before attempting to use this equipment, please read the relevant precautions carefully, and be sure to observe the safety precautions and operating procedures for installation and commissioning.

Refer to the following symbol descriptions for the possible hazards and damages caused by misuse of this equipment.



warn

This mark means

"Danger of personal injury or death due to failure to operate as required"



Notice

This mark means

"Minor or moderate personal injury and equipment damage may result due to the hazard caused by failure to operate as required"



hint

This mark means

"Make necessary additions or clarifications to the description of the operation"

foreword

Thank you for purchasing and using Shenzhen Hexin Automation Technology Co., Ltd. (CO-TRUST) of MiCoRemote monitoring system and CP6453 Remote Gateway Products!

Before using our company's products, please read this manual carefully, so as to understand the characteristics of the product more clearly, apply it more safely, and make full use of the rich functions of this product.

This manual mainly describes MiCo Typical applications of remote monitoring systems, client software functions and remote gateway module specifications, features, and installation and use methods, as well as user application examples, product order numbers, etc. for reference.

Suitable

This manual provides information on MiCo User guide and FAQ for remote monitoring system, designed for Hexin company system administrators, customer administrators and customer company users.

Online support

In addition to this manual, related product information and technical services can also be obtained on the Internet.

<http://www.co-trust.com>

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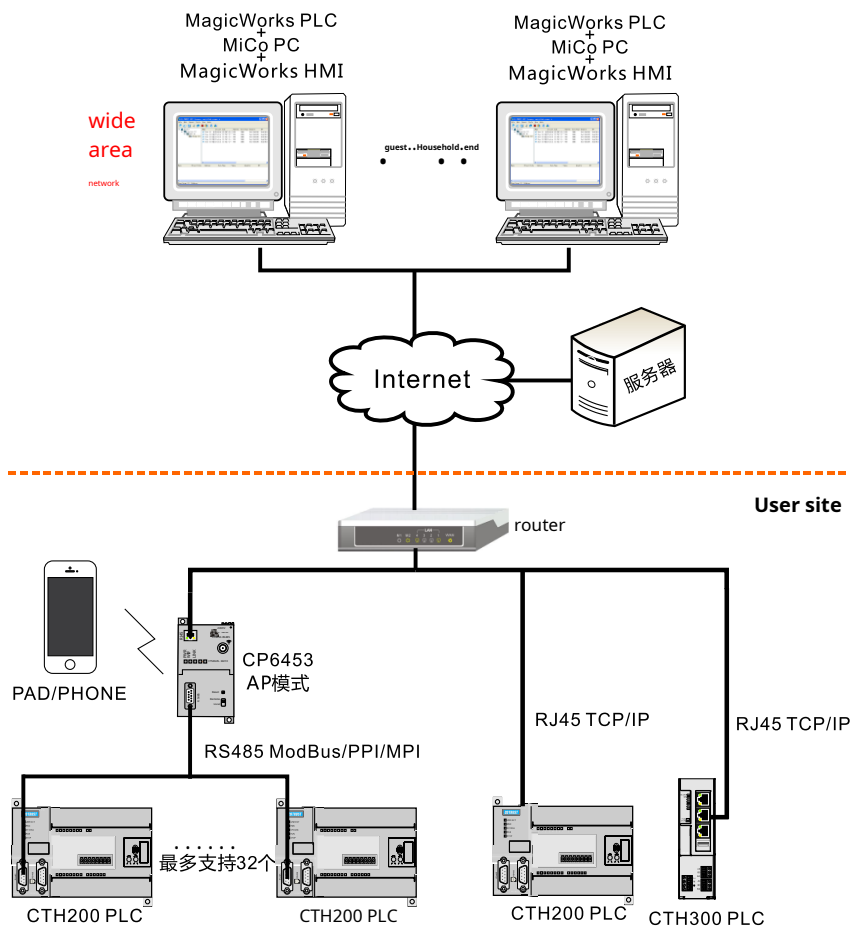
1 System Overview

- Hexin Technology Maikong Nebula Platform adopts 128bits The dynamic data encryption mode is an open, stable and secure IoT platform launched by Hexin Technology. device can pass PLC (CTH200, CTH300), gateway module or TP-iThe series of intelligent human-machine interfaces are conveniently connected to the McKonnebula platform. where the gateway module provides RS485 or Ethernet interface and embedded multiple protocols, which can connect different devices securely, quickly and easily (CTSC-100, CTSC-200 and third-party products) to realize remote monitoring and maintenance of equipment. At the same time, the Hexin Technology Maikong Nebula platform provides Android and iOS, PC client and provides an open interface with ERP. Wait for the third-party software to realize the connection, so that every device can be connected to the Internet of Things anytime, anywhere.
- MiCo The remote monitoring system includes server software, client software (supports Windows, Android and iOS versions for three platforms), CP6453 The gateway module (hereinafter referred to as the gateway module) and PLC, smart device. Supporting software MagicWorks PLC programming software (V2.08 and later) for remote PLC remote programming and monitoring; MagicWorks HMI Configuration Software (V3.8.0 and later) for configuration MiCo Local scene file.

1.1 Typical architecture of the system

MiCo The remote monitoring system can be used in local area network / wide area network, according to the system connected CP6453 The setting mode of the gateway module has the following four typical network architectures:

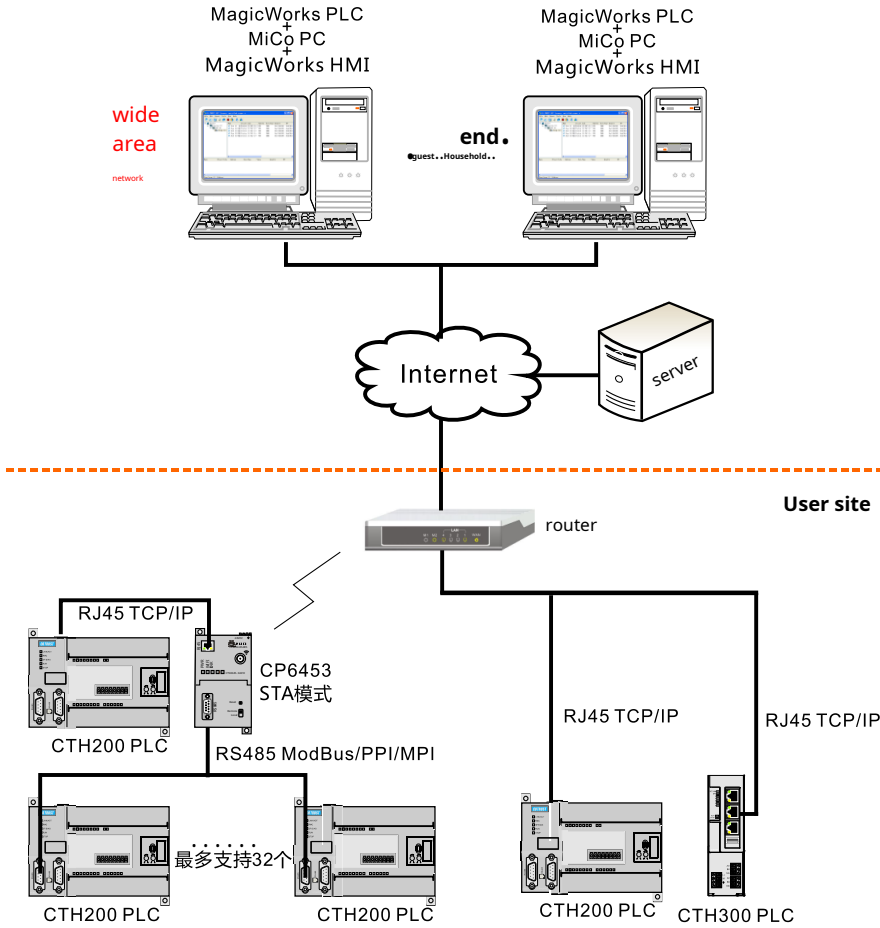
- gateway under wide area AP Mode Communication Network Topology



Main function description:

- 1)MiCo PCClient to Ethernet within WANPLCRemote programming/monitoring (not throughCP6453gateway);
- 2)MiCo PCClient to WAN throughCP6453Serial communication for gateway connectionPLCdata monitoring;
- 3)pass throughCP6453Gateway wirelessly connected mobile phoneMiCoClient-to-local serial communicationPLCdata monitoring;

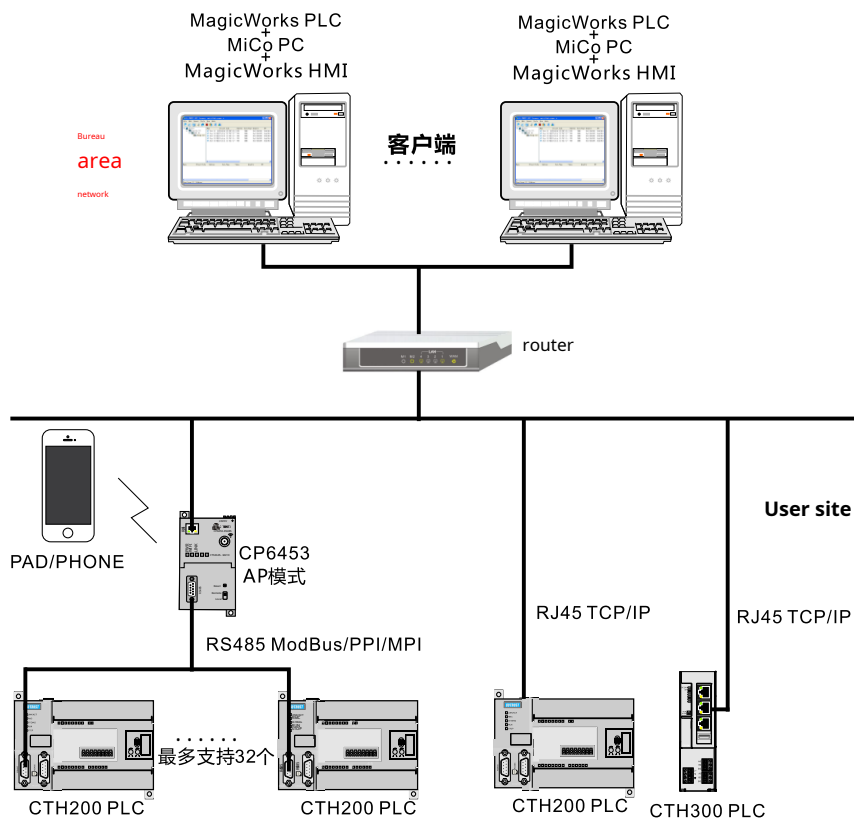
- Gateway under WANSTAMode Communication Network Topology



Main function description:

- 1)MiCo PCClient-to-Ethernet communication in the WANPLCRemote programming/monitoring (not throughCP6453gateway);
- 2)CP6453The gateway connects wirelessly under the WANMiCo PCClient, so as to communicate with serial port and Ethernet port through client softwarePLCdata monitoring;

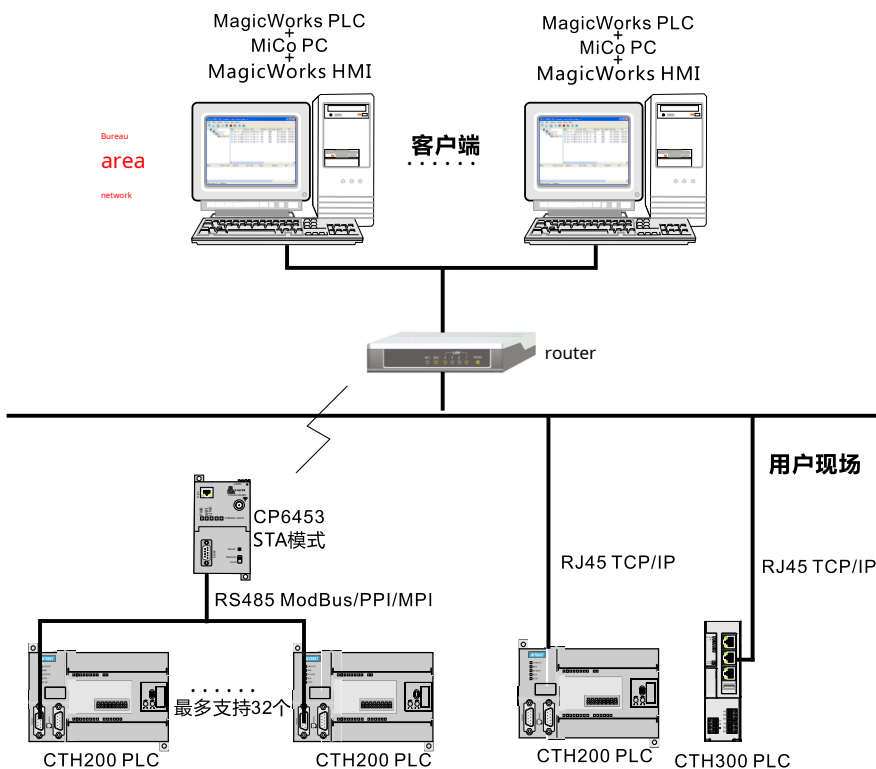
- Gateway under LANAPMode Communication Network Topology



Main function description:

- 1) MiCo PC client-to-LAN Ethernet PLC remote programming/monitoring (not through CP6453 gateway);
- 2) MiCo PC client to LAN through CP6453 serial communication for gateway connection PLC data monitoring;
- 3) pass through CP6453 Gateway wirelessly connected mobile phone MiCo client-to-local serial communication PLC data monitoring;

Gateway under LAN STA Mode Communication Network Topology



Main function description:

1) MiCo PC client-to-LAN Ethernet PLC Remote programming/monitoring (not through CP6453 gateway);

2) CP6453 The gateway is connected wirelessly under the LAN MiCo PC client, so as to communicate with the serial port through the client software PLC data monitoring;

Notice:

1) AP In mode, the gateway module uses a standard network cable to connect to the router;


2) STA In mode, the gateway connects to the router wirelessly WiFi Signal;

3) The gateway module uses RS485 Communication line connection PLC of RS485 mouth;

4) The gateway module is connected using a standard crossover cable PLC of RJ45 network port;

5) Cotronix with network port PLC can be directly connected to the system, please refer to the chapter for detailed product information 1.3;

6) must ensure that the gateway module, router LAN mouth, host computer IP The addresses are in the same network segment; related modification IP address method, see appendix C.

 **hint**

- in the network architecture diagram MiCo PC and MagicWorks HMI can be in the same LAN PC or different PC.
- You can download this manual and the configuration package for free from the following URL (MiCo PC/MagicWorks PLC/MagicWorks HMI): <http://www.co-trust.com>.

1.2 CP6453 Gateway module

CP6453 The gateway module can be based on RS485 The communication protocol of the interface is converted to the Ethernet communication protocol, through the Ethernet and wireless WiFi Network and connect after connecting to the Internet MiCo cloud server, MiCo connected to the gateway PLC Local/remote monitoring operations. For the detailed hardware specification of the gateway module, please refer to the appendix of this document B.



- RS485 The maximum number of sites on the port is 32, support for third parties PLC connect
- Support serial protocol: PPI/MPI, MODBUS RTU and third-party communication agreements
- Support serial port baud rate: 1.2Kbps to 115.2Kbps
- Provide a reset switch to restore the gateway factory settings
- Provides a mode control switch for local only control or remote/local control
- supply WiFi The antenna interface can be used as a wireless hotspot (for connecting wireless site devices such as mobile phones) or as a wireless site (connecting with wireless hotspot devices such as routers)
- RJ45 mouth can be LAN mouth/WAN port (switch by modifying the working mode in the configuration parameters), the factory default is WAN mouth, IP for 192.168.1.210
- Support user-configured parameters to save when power off
- have NAT Penetration ability
- Support with MiCo The client communicates with the MiCo Local/remote monitoring

1.3 PLCproduct

According to the communication protocol supported by the gateway module, various models from Cotros PLC and third parties PLC are accessible. MiCo remote monitoring system, The following table lists the series to which the system can be connected PLC and related connection methods, communication protocols, and detailed PLC for passing MiCo Remote monitoring system for remote programming/monitoring support features.

surface1-1 MiCo remote monitoring system PLC Support Features

PLC Types of	MiCoconnect	communication port	Remote programming	Remote monitoring
Cotronix with network port PLC	direct connection, or via STA model CP6453 Gateway module access	RJ45 port	Yes	Yes
belt PPI Cotron PLC	pass through CP6453 Gateway module access	RS485 port	Yes	Yes
third party PLC	pass through CP6453 Gateway module access	FREE PORT	no	Yes

surface1-2 MiCo Cotrox Ethernet supported by remote monitoring system PLC Product and model

order number	PLC Specifications
CTH2 214-1AD33-0X24	CPU H224: 12KB program space/8KB data space, 24VDC power supply, 14DI/10DO Transistor source output, 0.5A, 1 individual PPI, 1a free communication port, 1 Ethernet communication port, 3 road 50KHz Operation control output
CTH2 214-1BD33-0X24	CPU H224: 12KB program space/8KB data space, 220VAC power supply, 14DI/10DO relay output, 2A, 1 individual PPI, 1a free communication port, 1 Ethernet communication port
CTH2 216-2AD33-0X40	CPU H226L: 12KB program space/8KB data space, 24VDC power supply, 24DI/16DO Transistor source output, 0.5A, 2 individual PPI/free communication port, 1an Ethernet communication port, 3 road 50KHz Operation control output
CTH2 216-2BD33-0X40	CPU H226L: 12KB program space/8KB data space, 220VAC power supply, 24DI/16DO relay output, 2A, 2 individual PPI/free communication port, 1 Ethernet communication port
CTH3 H35-000S1	CTH3 Standard CPU, 192KB program space, 512KB data space, 32KB Power-Retain Data Space, Dual PPI mouth, 1 individual TCP/IP MODBUS communication port
CTH3 H36-000S1	CTH3 Standard CPU, 256KB program space, 1MB data space, 32KB Power down maintains data space, 1 individual PPI port/free communication port, 1 individual TCP/IP, 1 individual EtherCAT communication port

For the above-mentioned Cotrox that supports remote Ethernet communication CTH200 and CTH300 series PLC, which can be configured to MiCo The remote monitoring system is used as a remote device. on how to configure PLC information, see the appendix of this document A.3.1.4.

1.4 MiCo Client software

MiCo software is MiCo Remote monitoring system client software, used to manage users and configure equipment, and manage, program, monitor equipment through scenarios, etc. MiCo Please refer to the appendix of this document for details on the use of software functions A. MiCo software has Windows, Android and iOS. There are three platform versions, and the download information of each version is shown in the following table:

MiCo Version	download link	Notes
MiCo PC	http://www.co-trust.com	--
MiCo Android	Major Android App Markets	The local scene needs to be saved to the Android device memory before adding and uploading
MiCo iOS	App Store	The local scene needs to be saved to iOS Add upload after device memory

2 Install

Introduction to this chapter CP6453 Gateway modules and server clients MiCo Software installation process and precautions.

2.1 Install CP6453 Gateway module

2.1.1 Installation Precautions

CP6453 The gateway module can be installed either on the back panel of the control cabinet or on the standard DIN rails; can be installed either horizontally or vertically. CP6453 The installation of the gateway module should pay attention to the following matters:

Will CP6453 Gateway module is isolated from heating, high voltage and electrical noise

As a general practice, when installing equipment components, always install equipment that generates high voltage and high electronic noise with equipment such as CP6453 Low-voltage electronic devices such as gateway modules are separated.

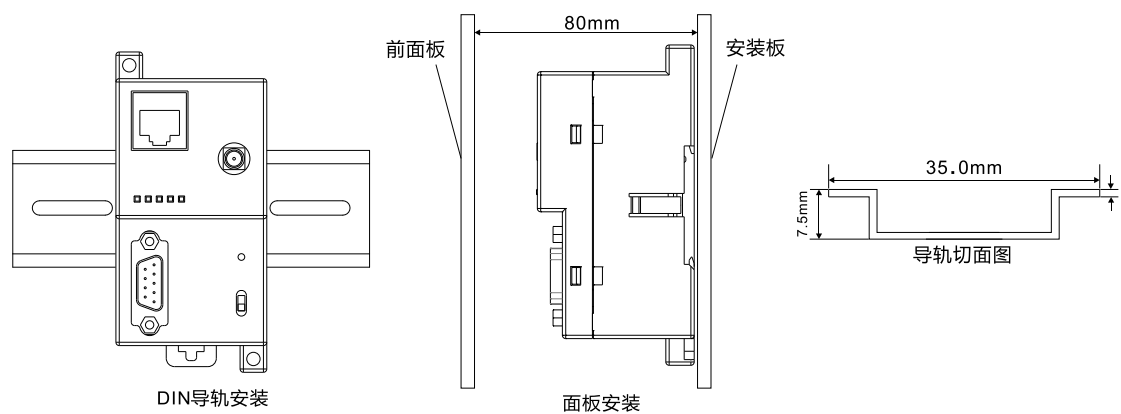
Mounting on the back panel of the control cabinet CP6453 When installing a gateway module, consider installing the electronics in a cooler area of the control cabinet. Long-term operation of electronic devices in a high temperature environment will shorten their trouble-free time.

Consider the backplane wiring of the control cabinet, and try to avoid designing the AC power supply line, the DC signal line with high energy and high switching frequency, the low-voltage signal line and the communication cable in the same trunking.

Allow proper space for heat dissipation and wiring

CP6453 The design of the gateway module adopts natural convection heat dissipation, and there must be at least 30mm space for normal heat dissipation. The distance between the front panel and the back panel should also be kept at least 80mm. during installation CP6453 When using the gateway module, allow enough space for wiring and connecting communication cables.

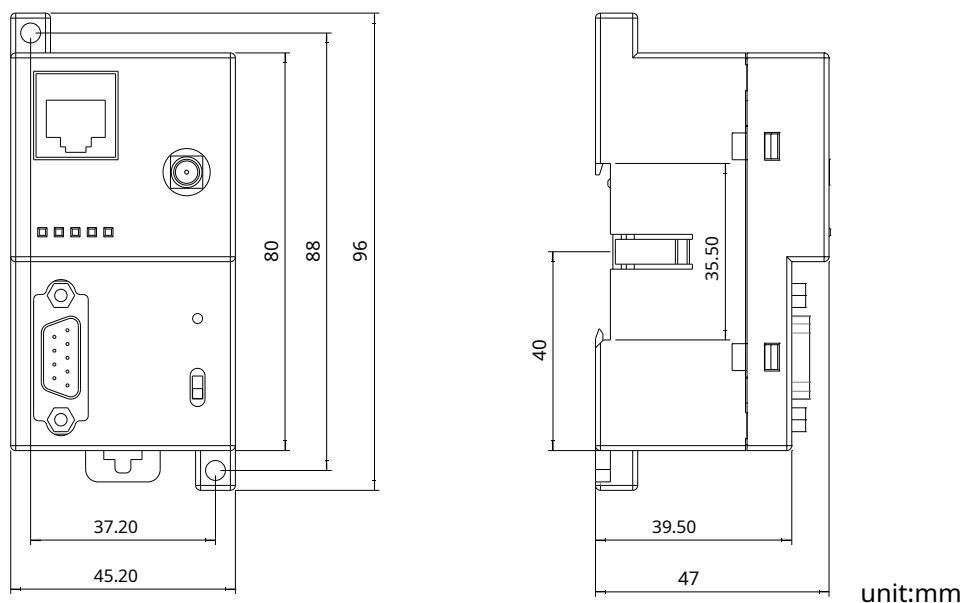
2.1.2 Installation diagram



picture2-4 Installation method

2.1.3 Installation dimension description

CP6453 There are mounting holes on the back of the gateway module, which can be easily installed on the backplane. The installation dimensions are shown in the following figure:



picture2-5Shape and installation dimensions


2.1.4

installation method

CP6453 Gateway modules can be installed in a standard DIN rails, or mounted on a panel.

prerequisites

Before installing or removing electronic components, make sure that the power supply to the equipment is disconnected. Also, make sure that the power to the equipment associated with the device has been cut off.

 warn
Attempt to install or remove with power CP6453 The gateway module and its related equipment may cause electric shock or malfunction of the equipment.
During installation and removal CP6453 Failure to cut off all power when connecting the gateway module and its related equipment may result in death or serious personal injury and equipment damage.

During installation and removal CP6453 When connecting the gateway module and its related equipment, appropriate safety measures must be taken in advance and CP6453 The power supply to the gateway module is cut off.

CP6453 Gateway Module Installation and Removal

Please install or remove as follows CP6453 Gateway module.

-installation panel

1) Position and punch holes according to the installation size requirements in the above figure;

2) Fix the module on the backplane with suitable screws;

-DIN Rail installation


1) to fix the rails on the backplane, keeping the distance 80mm.

2) pull down the bottom of the module DIN clip to snap the back of the module to the DIN on the rail.

3) rotate the module close to DIN rail, closed DIN clip.

4) double check on the module DIN clip with DIN whether the guide rail is tightly fixed.

5) To avoid damage to the module, do not press the front of the module directly, but press the part of the mounting hole.

 **Notice**

whenCP6453The gateway module should be used in a vibration environment or vertical installation.DINRail stop. If the system is in a high vibration environment, a higher vibration protection level can be obtained by using the backplane mounting method.

-disassembleCP6453Gateway module

Follow the steps below to disassembleCP6453Gateway module:

- 1)tear downCP6453The power supply of the gateway module;
- 2)tear downCP6453All wiring and cables on the gateway module;
- 3) remove the mounting screws or open theDINclip;
- 4) to remove the module.

2.2 InstallMiCoClient software

2.2.1 Installation Environment


MiCo PCThe installation environment requirements are as follows:

operating system

- MS Windows XP
- MS Windows 7 (32 bit / 64 bit)
- MS Windows 8
- MS Windows 10

Hardware Configuration

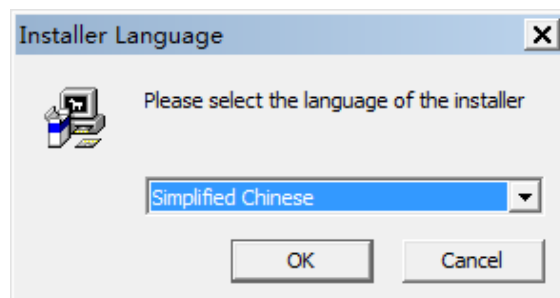
RAM512MBabove,256MBflash,WiFior Ethernet interface.

 **hint**

- please useMiCo PC V2.00or later.
- user is installingMiCoAfter the software, it needs to be added to the trust list of antivirus software to ensure the normal operation of the client software.

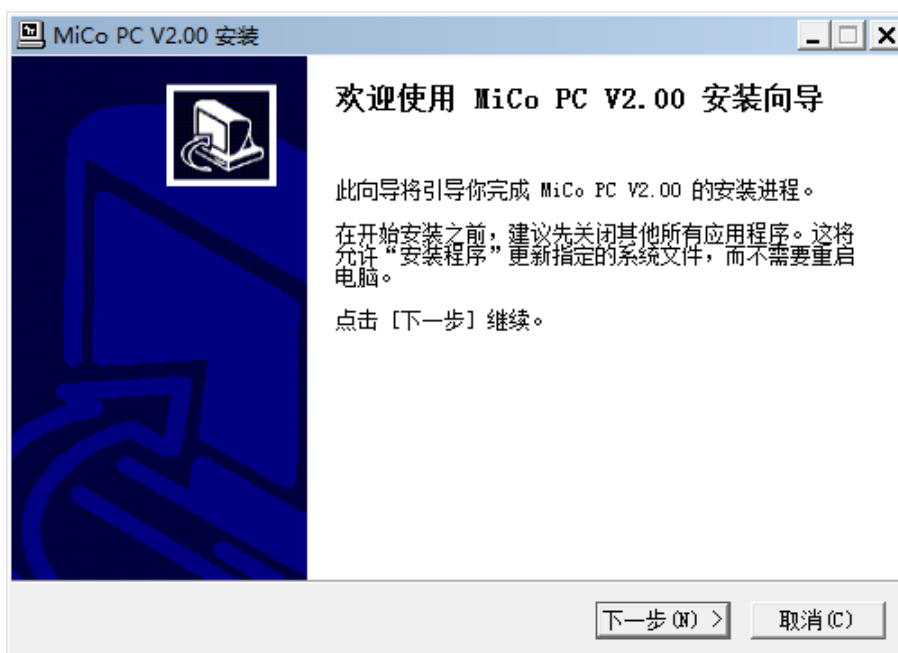
2.2.2 installation steps

1) double clickMiCo PCinstall icon  The following dialog box pops up:



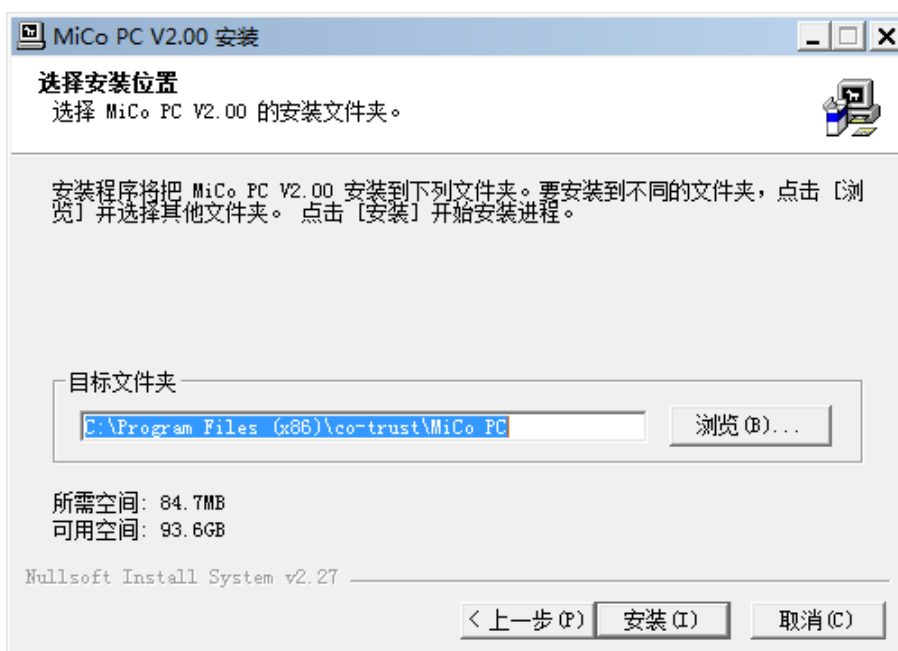
Select the installation language and click OK.

2) to open the installation wizard opens:

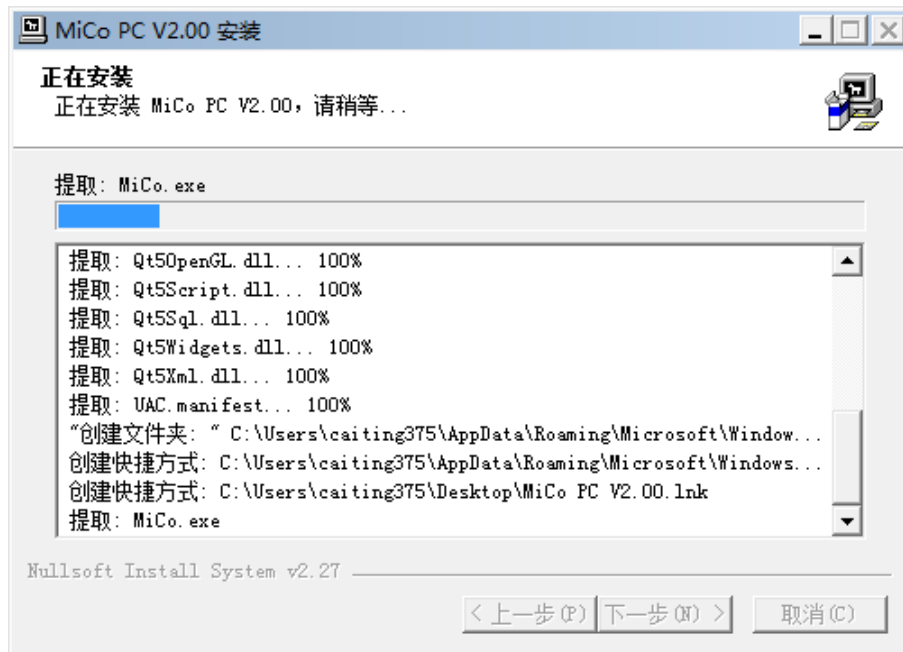


Click "Next" to continue the installation.

3) select the installation directory, click "Browse" to select the appropriate storage location, and click "Next" to continue the installation:



The installation process is as follows:



4) installation is complete, check the "RunMiCo PC", and then click "Finish" to open the software, otherwise complete the installation and exit if it is not checked.



3

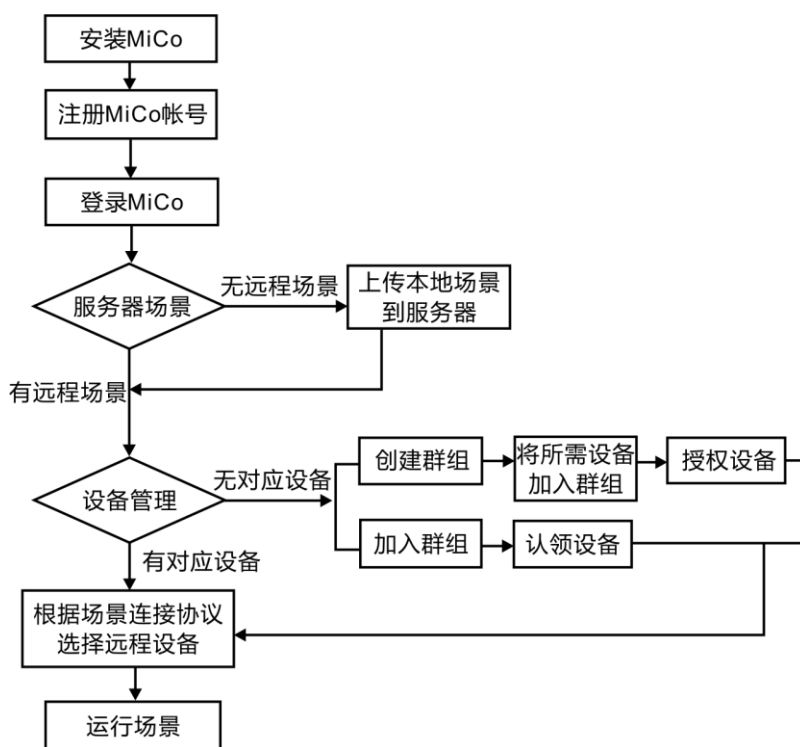
system applications

This section uses examples to introduce how to useMiCoRemote monitoring system, through whichPLCandCP6453 gateway module connectedPLCEquipment for local/remote monitoring and remote programming;MicoUnder the LAN/WAN,AP pattern andSTAMode Gateway module for communication and diagnostics.

3.1

Remote monitoring

In online login mode, users can useMiCoTo remote devices (supporting remote Ethernet communicationPLCand throughCP6453 gateway module connectedPLC) to monitor, the operation process is as follows:

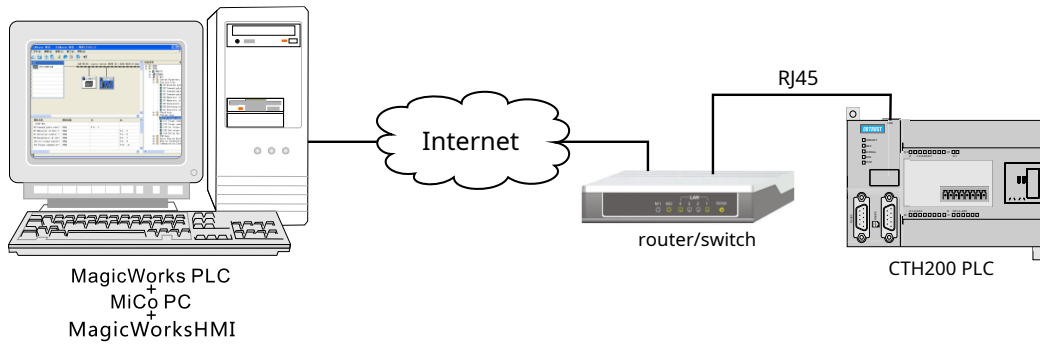


Below withCTH200seriesPLCTake an example to introduce the specific usage process of this function.

[Example component]

component name	describe
computer	equipped withMagicWorks PLC(V2.08and later),MagicWorks HM(I V3.8.0 and later) andMiCo PC(V2.00and later)
CTH200 CPU	useCPU H226L, to communicate with a computer over the Internet
Standard network cable	Connect the router withCPU H226LofRJ45network port
switch/router	Used to connect the host computer,CPUwait for the device to connect toInternetmiddle
power supply	use24VDCpower, giveCPUModule power supply

[Network Architecture Diagram]




[Main hardware connection]

- 1) switch or router using a communication cable to connect to Internet middle;
- 2) The host computer is connected with a communication network cable through a switch or router CPU H226L module RJ45 port;
- 3) Give CPU module power supply.

[operate]

- 1) installation, registration and login MiCo (refer to chapter A.1).
- 2) exist MiCo create a device group in the A.3.1.1).
- 3) Will CPU H226L module is configured to MiCo Remotely monitor groups created in the system server and set device passwords (refer to chapter A.3.1.4).
- 4) configured into the server H226L. The owner can use the device directly, other users want to use it first MiCo Add the group to which the device belongs (refer to the chapter A.3.1.2), and then claim it through the device (refer to chapter A.3.2.6) or device authorization (refer to chapter A.3.2.7) to get the device.
- 5) on the "My Devices" page to open the acquired device and confirm that it is online.
- 6) to add a scene and upload a scene:
 exist MiCo PC Open the home page of the scene, click the "+" sign on the right side of the search box to use MagicWorks HMI configured HMI item added to MiCo as a local scene.

After entering the scene, click on the upper right corner  Select "Upload to Server" and the scene will be listed in the remote list section of the scene list.

Notice: After the local scene is uploaded to the server, it can be shared with other users through "Share Management". For details of related operations, please refer to the chapter A.2.3.6.



7) to select a device:

Go back to the scene list to open the above remote scene, click on the upper right corner  Select "Device Management", according to the communication protocol corresponding to the scene

Select the desired remote device.



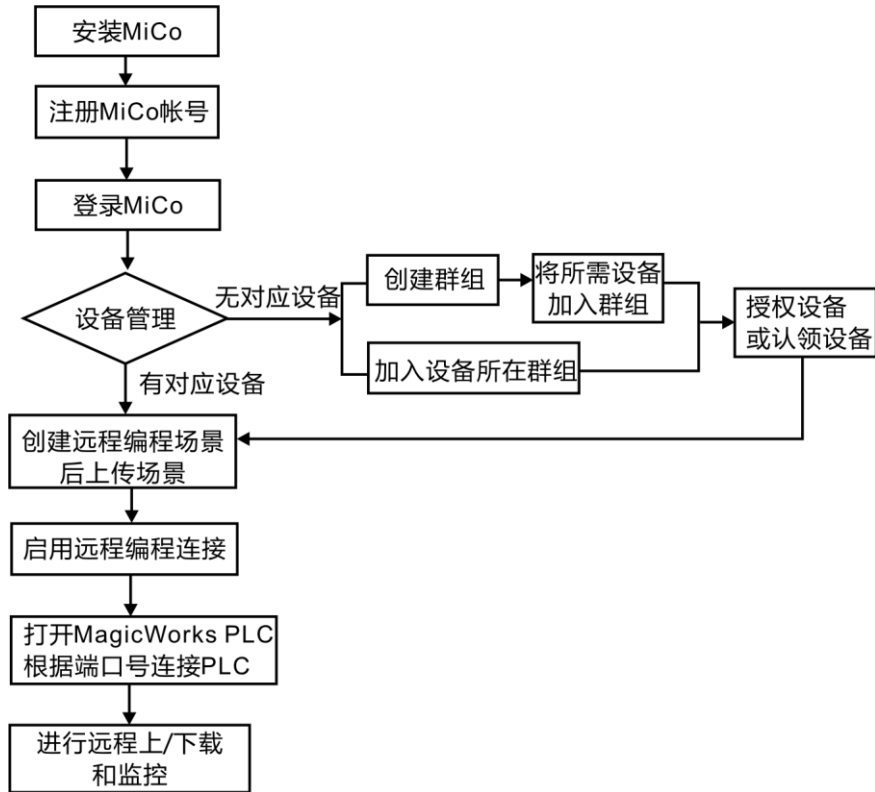
8) to run the scenario for remote monitoring:

After selecting the remote device, return to the "Scenario Management" page, click "Run" to run the current remote scene, and PLCmonitor.

3.2

Remote programming

MiCoThe remote programming function means that through the host computer softwareMagicWorks PLCto ethernetPLCThrough the host computer software MagicWorks PLCPerform remote upload/download. In online login mode, users canPLCFor remote programming of the device, the operation process is as follows:



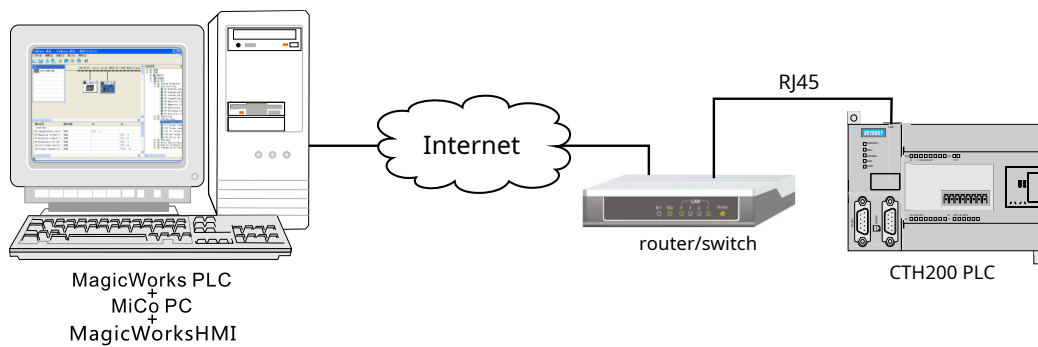
In the above process, MiCo PC runs on the remote host and keeps the port open and unoccupied. For details of the process MiCo software operation, please refer to the appendix of this document.

Below with CTH200 series PLC take an example to introduce the specific usage process of this function.

[Example component]

component name	describe
computer	equipped with MagicWorks PLC (V2.08 and later), MagicWorks HM (I V3.8.0 and later) and MiCo PC (V2.00 and later)
CTH200 CPU	use CPU H226L, to communicate with a computer over the Internet
Standard network cable	Connect the router with CPU H226L of RJ45 network port
switch/router	Used to connect the host computer, CPU wait for the device to connect to Internet middle
power supply	use 24VDC power, give CPU Module power supply

[Network Architecture Diagram]

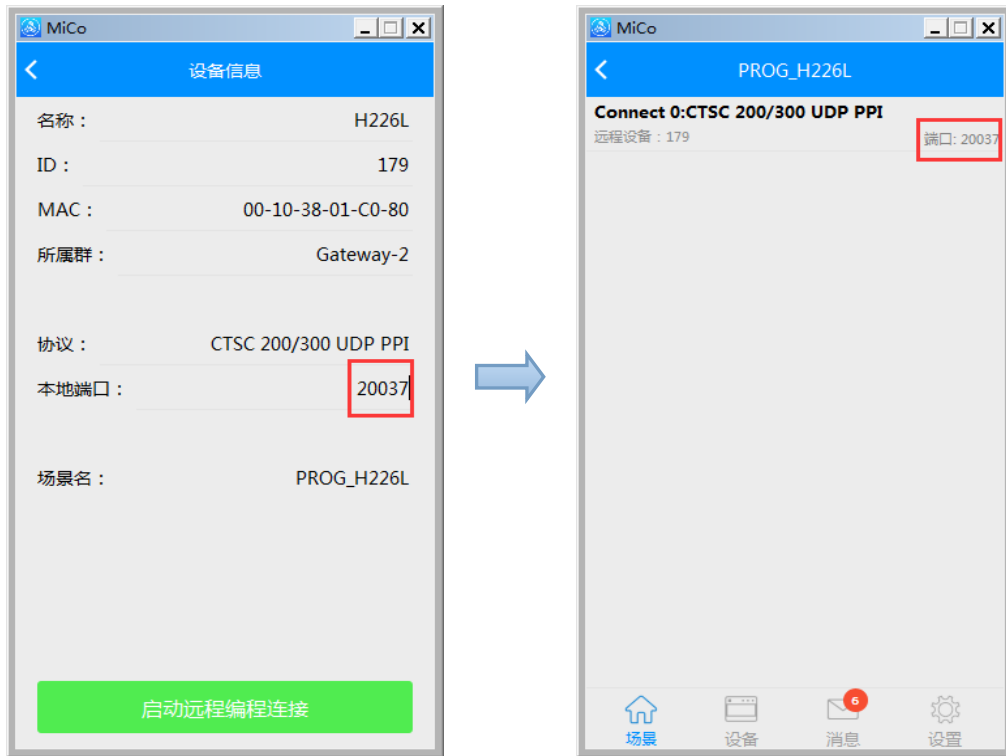


[Main hardware connection]

- 1) switch or router using a communication cable to connect to Internet middle;
- 2) The host computer is connected with a communication network cable through a switch or router CPU H226L module RJ45 port;
- 3) Give CPU module power supply.

[operate]

- 1) installation, registration and login MiCo (refer to chapter A.1).
- 2) exist MiCo create a device group in the A.3.1.1).
- 3) Will CPU H226L module is configured to MiCo Remotely monitor groups created in the system server and set device passwords (refer to chapter A.3.1.4).
- 4) configured into the server H226L. The owner can use the device directly, other users want to use it first MiCo Add the group to which the device belongs (refer to the chapter A.3.1.2), and then claim it through the device (refer to chapter A.3.2.6) or device authorization (refer to chapter A.3.2.7) to get the device.
- 5) on the "My Devices" page to open the acquired device and confirm that it is online.
- 6) Click "Create Remote Programming Connection" on the "Device Information" page to display the following screen, which lists the detailed information of the device and the connection information for remote programming.
 - Click "Start Remote Programming Connection" to generate and upload an associated local scene.



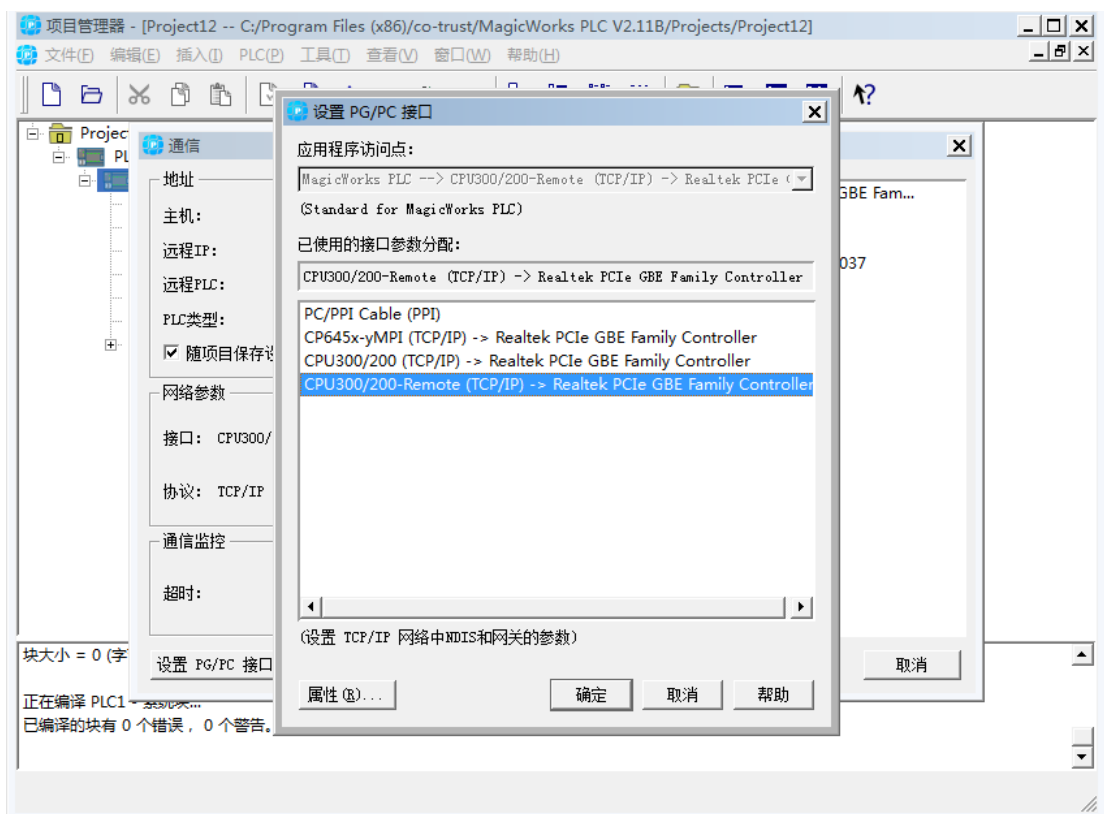
protocol:The default isCTSC 200/300 UDP PPI

local port: The port number for connecting to the local programming configuration software (modifiable, the range is1024-65533)

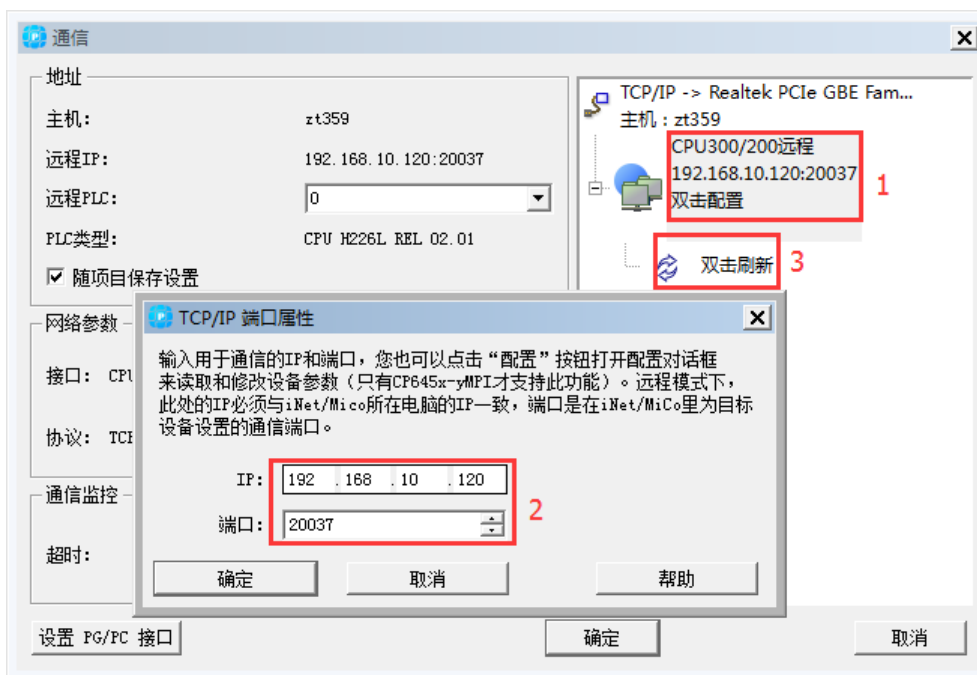
scene name: The default scene name generated based on the remote device name, prefixed with the device namePROG_

- OpenMagicWorks PLCcreate a new project in the configuration software, select "Communication" -> "Settings"

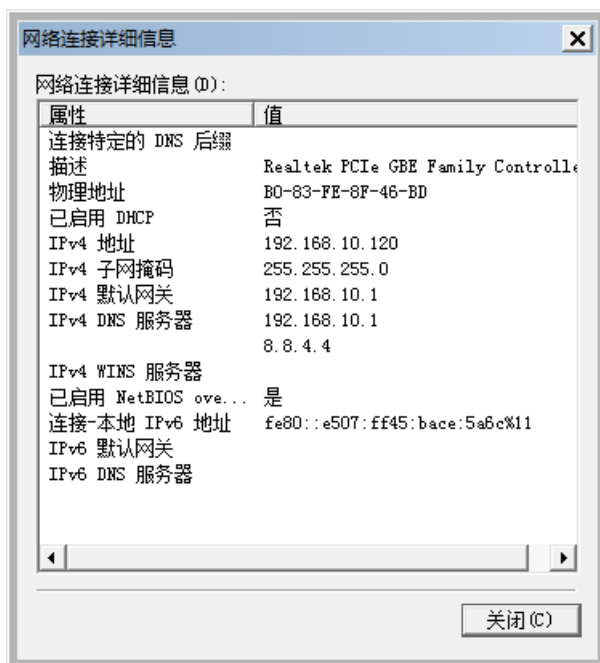
PG/PC" -> "CPU300-200-Remote (TCP/IP) -> Realtek PCIe GBE Family Controller", and click OK.



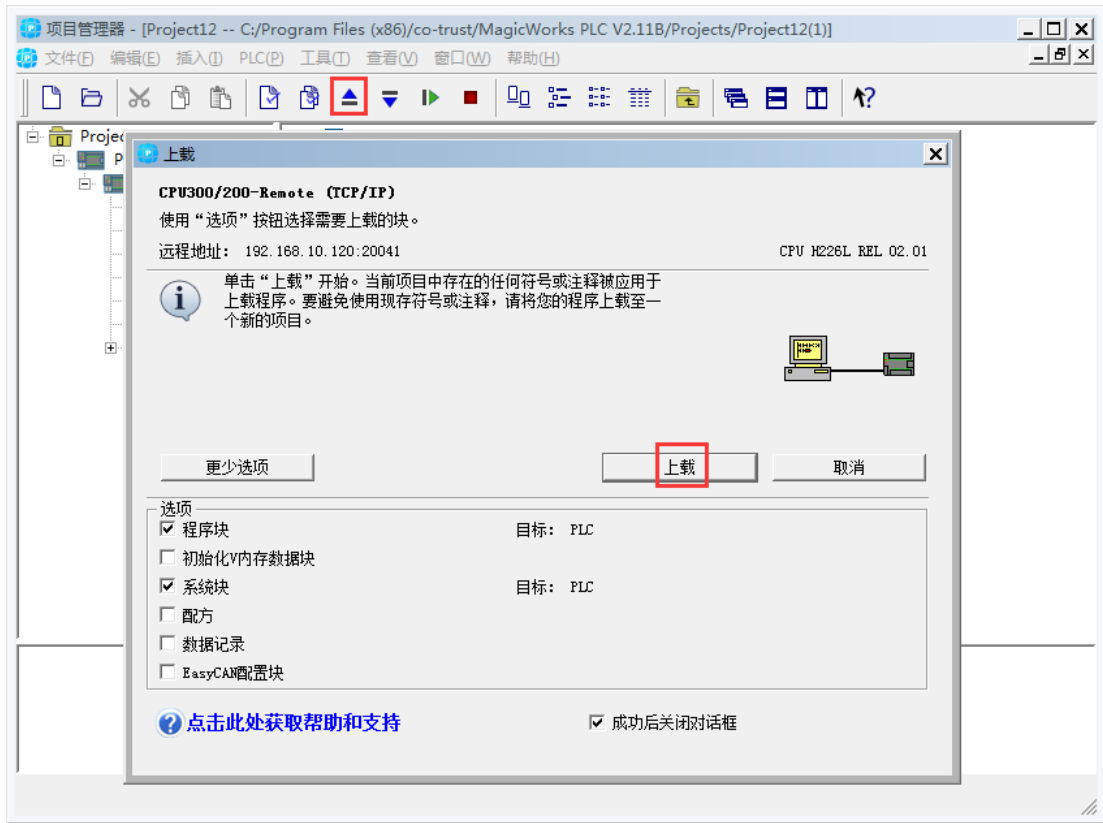
On the "Communication" interface, set the communication connection in the sequence as shown in the figure below, and click "OK" after the connection is successful.



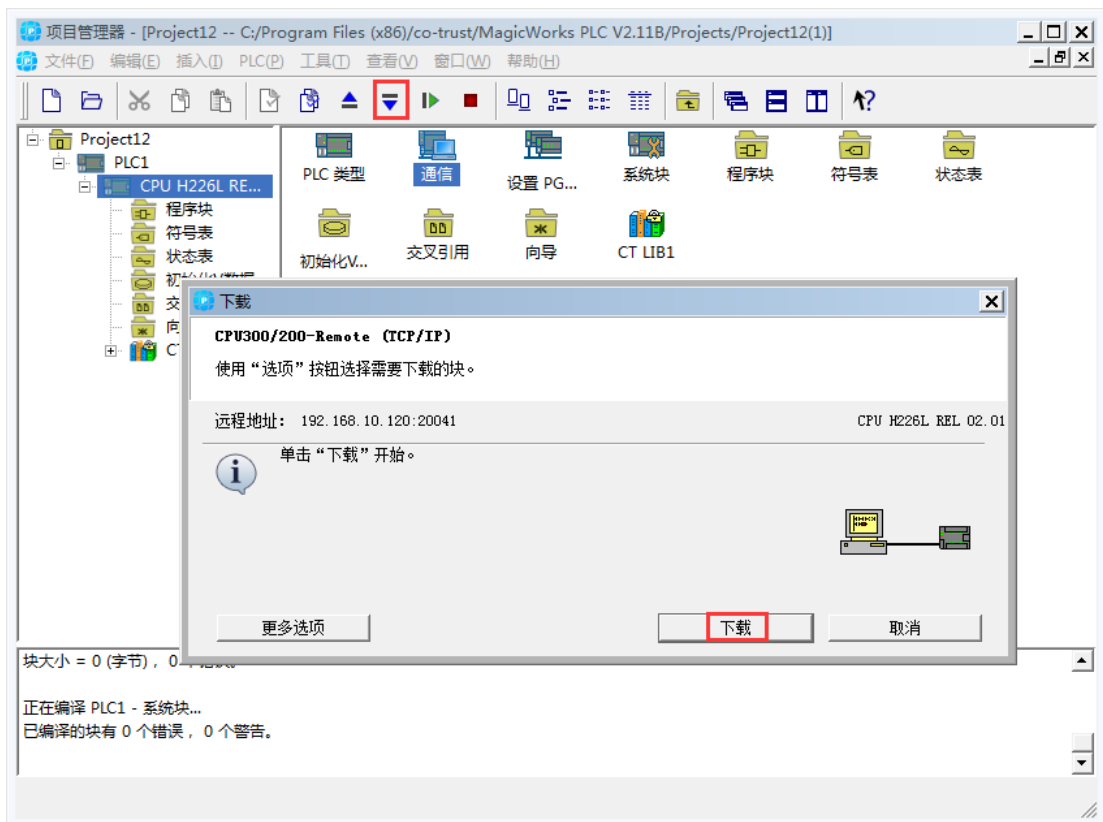
Notice: The port number in the above figure is the step1 the local port number in ,IPforMiCoof the host computer where the client is locatedIP, which can be obtained by viewing the computer's network connection.



Click the upload button in the project manager, and select from the interface displayed by the system.PLCuploaded to the configuration software, thereby Program the project.



After completing programming, compile the project, click the download button, and download the updated program block to the remote through the gateway modulePLC.



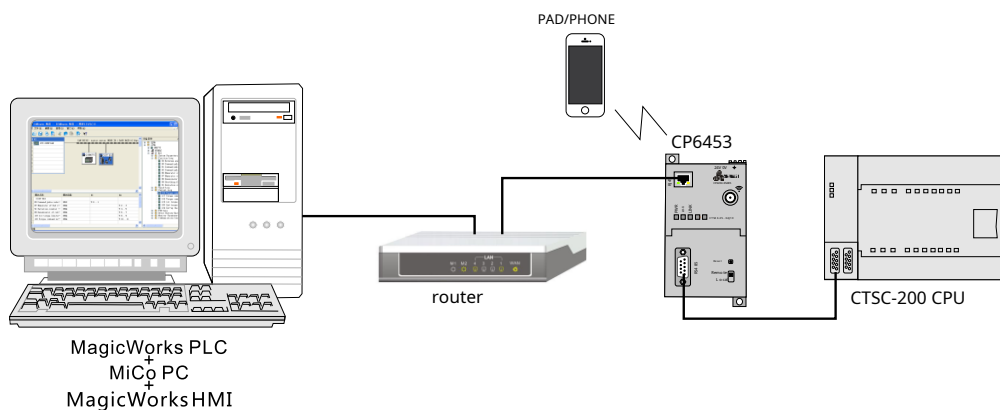
3.3

Gateway module under LANAPmode communication

[Example component]

component name	describe
computer	MagicWorks PLC(V2.08and later),MagicWorks HMI(V3.8.0 and later) andMiCo PC(V2.00and later)
CP6453Gateway module	CP6453The gateway module is set toAPmode, which will be based on485The communication protocol of the interface is converted to the Ethernet communication protocol
CTSC-200 CPU	useCPU 224E, to communicate with a computer over the Internet
RS485programming cable (pairRS485mouth)	double-endedRS485communication line, connectionCPU 224EandCP6453Gateway module
Standard network cable	Connect the router to the gateway module
switch/router	Used to connect the host computer,CP6453Devices such as gateway modules are connected toInternetmiddle
power supply	use24VDCpower, giveCP6453gateway module andCTSC-200 CPUpowered by

[Network Architecture Diagram]

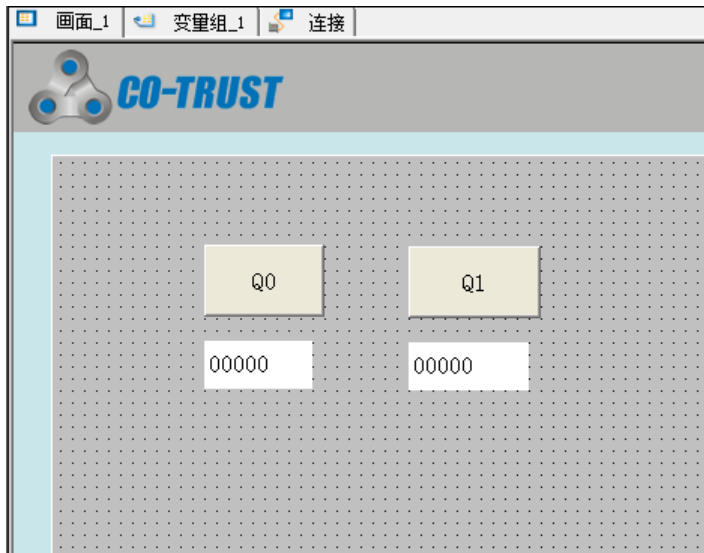


[Main hardware connection]

- 1) Use a communication cable to connect the host computer to the switch or router;
- 2) using a communication cable toCP6453The gateway module is connected to a switch or router;
- 3)useRS485The communication cable willCP6453Gateway module is connected toCTSC-200 CPUmodularPORT1;
- 4)GiveCP6453gateway module andCPUmodule power supply.

[operate]

- 1, installation, registration and loginMiCo(refer to chapterA.1).
- 2, connect to the gateway under the LAN,MiCoConfigure the gateway asAPmode, the gateway'sIPIt needs to be configured on the same network segment as the computer, and does not need to join a group (refer to the chapterA.3.1.3).
- 3, add scene and upload scene, add scene as follows:
 - 1)OpenMagicWorks HMIThe configuration software creates a new project with the name set toGHMI.
 - 2) as required to configure the project as follows:



- To establish a communication connection, select CO-TRUST 100/200 protocol and make communication settings. As shown in the figure below, set the interface "PORT1", select the address and baud rate 19.2Kbps (selected as needed, required and connected PLC keep the same), the others keep the default configuration.



Notice: 1) address and baud rate required and connected PLC be consistent.

2) One CP6453 connect multiple PLC, should be for each PLC establish a connection (the interface is the same, PLC different addresses). The configuration project in this case is imported to MiCo. After the scene is generated, multiple connections are merged into one connection.

- Configure two variables and select the above communication connection, select QB as the storage address.




In the configuration screen, Q0 button and corresponding below I/O Domain connection variable 1, the property is defined as click IncreaseValue; Q1 button and corresponding below I/O Domain connection variable 2, attribute definition click DecreaseValue.

- After completing the configuration, compile and save the project.

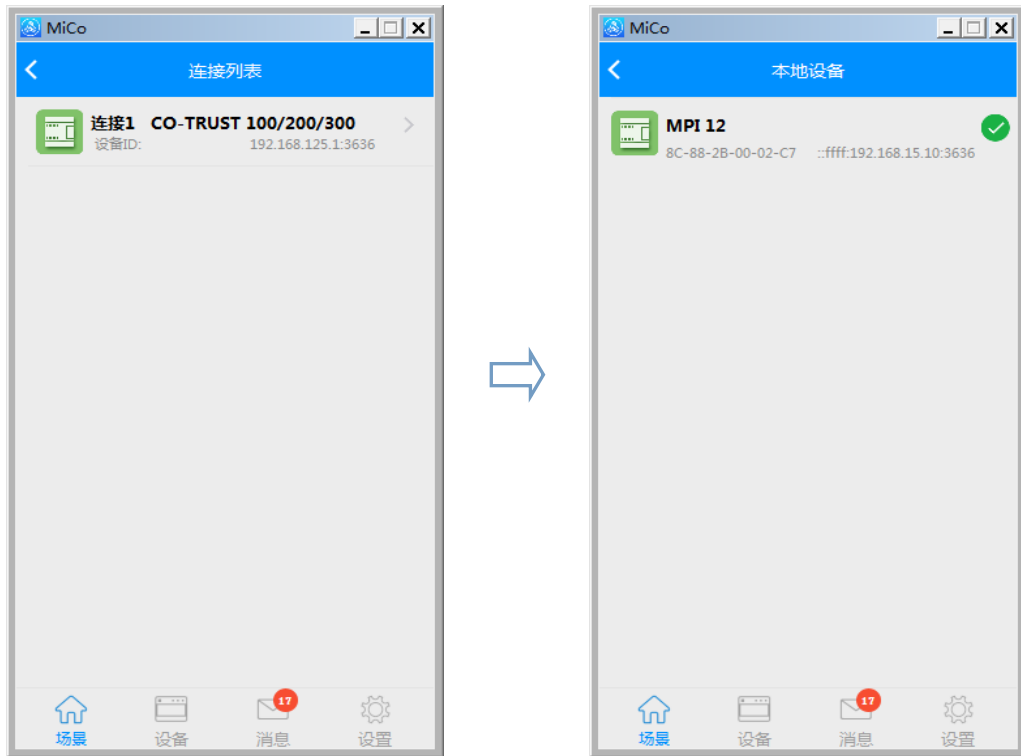
3) to add a scene and select a device

existMiCo PC, open the scene home page, click the "+" sign on the right side of the search box to add the newly configuredHMIitem added toMiCoas a local scene.

After entering the scene, click on the upper right corner  Select "Device Management" to enter the "Device Connection" page.



The communication connection selected during the configuration of this scene will be listed on its "Device Connection" page, as shown in the figure below, click on the specified communication connection to select the available gateway device.



After selecting the device, return to the "Scenario Management" page, click "Run", and then you can monitor the scene according to the configuration of the scene.PLC.

4,an examinationCPUoutput bit onQ0andQ1Whether the status of the light-emitting diode changes with the value displayed after clicking the button, if the changes are consistent, it means that the communication is normal.

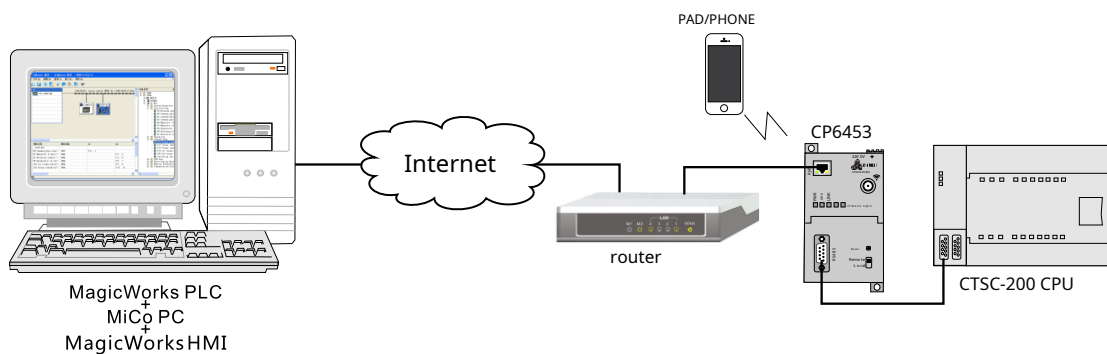
If a fault occurs during debugging, please refer to the3.6chapter for diagnosis.

To find outMagicWorks HMIFor the application of configuration software, please refer to the document "Copanel HMISystem Manual", free download address:<http://www.co-trust.com>.

3.4 Gateway module under WANAPmode communication

[Example component]

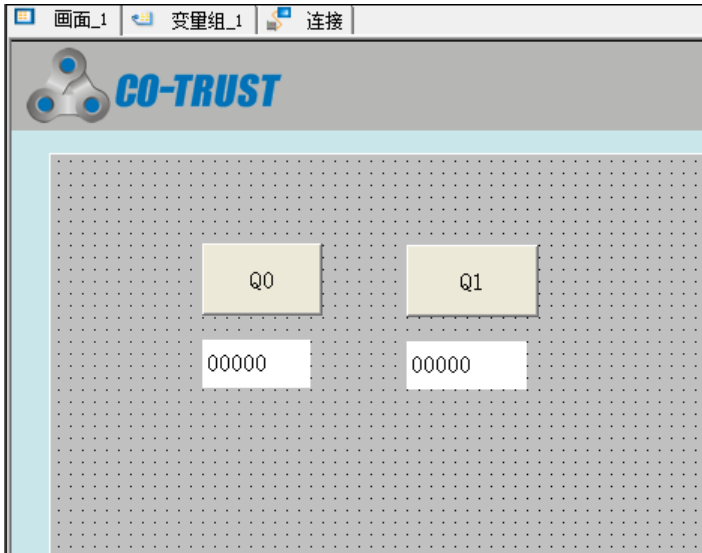
component name	describe
computer	MagicWorks PLC(V2.08and later),MagicWorks HMI(V3.8.0 and later) andMiCo PC(V2.00and later)
CP6453Gateway module	CP6453The gateway module is set toAPmode, which will be based on485The communication protocol of the interface is converted to the Ethernet communication protocol, up to8individualPLC
CTSC-200 CPU	useCPU 224E, to communicate with a computer over the Internet
RS485programming cable (pairRS485mouth)	use both endsRS485communication line, connectionCTSC-200 CPUandCP6453Gateway module
Standard network cable	Connect the router to the gateway module
switch/router	Used to connect the host computer,CP6453Devices such as gateway modules are connected toInternetmiddle
power supply	use24VDCpower, giveCP6453gateway module andCTSC-200 CPUpowered by

[Network Architecture Diagram]**[Main hardware connection]**

- 1) Use a communication cable to connect the switch or router to the WAN;
- 2) Use a communication cable to connect the CP6453 gateway module to a switch or router;
- 3) Use a double-ended RS485 communication line to connect the CP6453 gateway module to the CTSC-200 CPU modular PORT1;
- 4) Provide power supply for the CP6453 gateway module and the CPU module.

[operate]

- 1, installation, registration and login MiCo (refer to chapter A.1).
- 2, exist MiCo create a device group in the A.3.1.1).
- 3, configure the gateway module to MiCo Remotely monitor groups created in the system server and set device passwords (refer to chapter A.3.1.3).
- 4, The owner of the gateway module configured in the server can directly claim the device, and other users who want to use it need to MiCo Add the group to which the device belongs (refer to the chapter A.3.1.2), and then claim it through the device (refer to chapter A.3.2.6) or device authorization (refer to chapter A.3.2.7) to get the device.
- 5, open the acquired device on the "My Devices" page and confirm that it is online.
- 6, add scene and upload scene, add scene as follows:
 - 1) Open MagicWorks HMI The configuration software creates a new project with the name set to GHMI. 2) as required to configure the project as follows:



To establish a communication connection, select CO-TRUST 100/200 protocol and make communication settings. As shown in the figure below, set the interface to "PORT1", select the address and baud rate 19.2Kbps (selected as needed, required and connected PLC keep the same), the others keep the default configuration.



Notice: 1) address and baud rate required and connected PLC be consistent.

2) One PC6453 connect multiple PLC, should be for each PLC establish a connection (the interface is the same, PLC different addresses). The configuration project in this case is imported to MiCo. After the scene is generated, multiple connections are merged into one connection.

Configure two variables and select the above communication connection, select QB as the storage address.

Id	名称	连接	数据类型	长度	数组计数	地址	采集周期	数据记录	记录周期	记录采集模式	起始值	注释
1	变量_1	连接_1	Byte	1	1	QB 0	1s	<未定义>	1s	循环连续		
2	变量_2	连接_1	Byte	1	1	QB 1	1s	<未定义>	1s	循环连续		

In the configuration screen, Q0 button and corresponding below I/O Domain connection variable 1, the property is defined as click IncreaseValue; Q1 button and corresponding below I/O Domain connection variable 2, attribute definition click DecreaseValue.


- After completing the configuration, compile and save the project.

3) add scene and upload scene

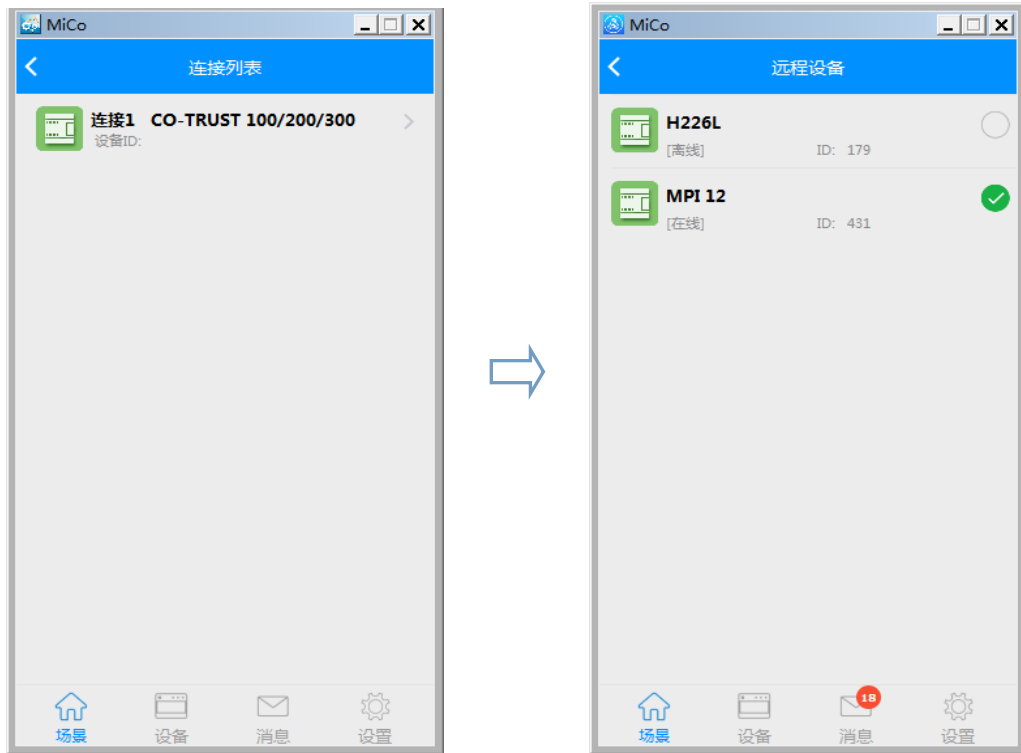
existMiCo PC, open the scene home page, click the "+" sign on the right side of the search box to add the newly configuredHMIitem added toMiCoas a local scene.

After entering the scene, click on the upper right corner  Select "Upload to Server" to upload the scene to the server to become a remote scene.



4) to return to the scene list to open the uploaded remote scene, click on the upper right corner  Select "Device Management" to configure the communication for this scenario

The connection will be listed on its "Device Connection" page, as shown in the figure below, click Specify Communication Connection to select the available gateway device.



After selecting the device, return to the "Scenario Management" page, click "Run", and then you can monitor the scene according to the configuration of the scene.PLC.

7,an examinationCPUoutput bit onQ0andQ1Whether the status of the light-emitting diode changes with the value displayed after clicking the button, if the changes are consistent, it means that the communication is normal.

If a fault occurs during debugging, please refer to the3.6chapter for diagnosis.

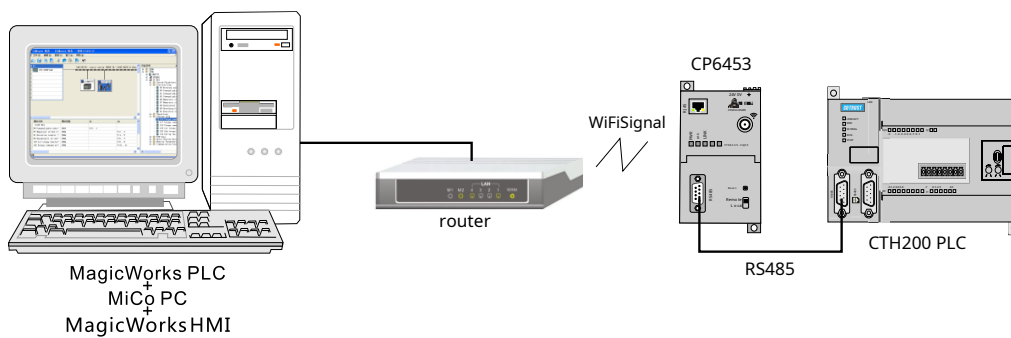
To find outMagicWorks HMIFor the application of configuration software, please refer to the document "Copanel HMISystem Manual", free download address:<http://www.co-trust.com>.

3.5 Gateway module under LANSTAmode communication

[Example component]

component name	describe
computer	MagicWorks PLC(V2.08and later),MagicWorks HMI(V3.8.0and later) andMiCo PC(V2.00and later)
CP6453Gateway module	gateway module throughMiCoset asSTAmodeI
CTH200 CPU	use1individualCPU H224XInternet communication with computer
RJ45Standard network cable	useRJ45Standard network cable to connect aCPU H224XNetwork port and gateway module
RS485Communication Cable	double-endedRS485communication cable to connect anotherCPU H224XSerial and Gateway Modules
switch/router	Used to connect the host computer andCP6453Devices such as gateway modules are connected toInternetmiddle
power supply	use24VDCpower, giveCP6453gateway module andCTH200 CPUpowered by

[Network Architecture Diagram]



[Main hardware connection]

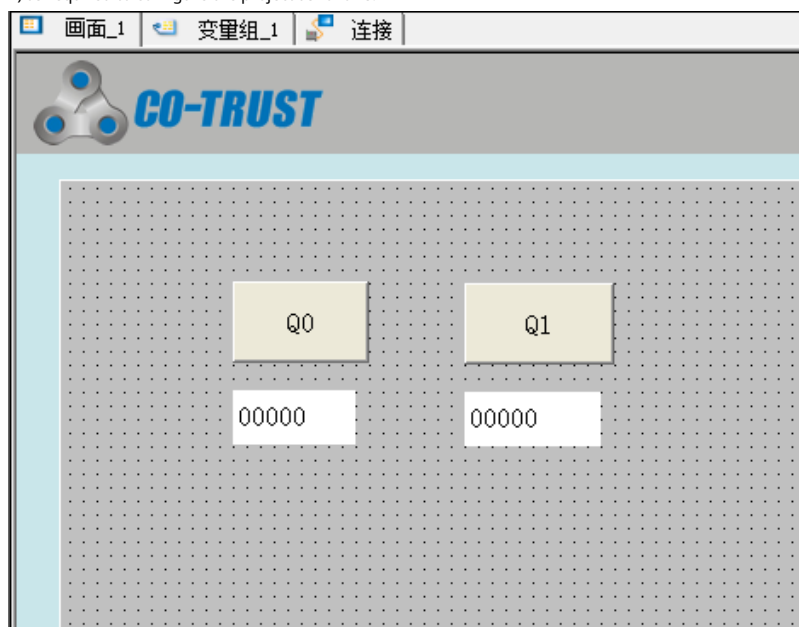
- 1) Use a communication cable to connect the host computer to the switch or router;
- 2) exist MiComedium setting CP6453 The gateway module connects the wireless signal of the switch or router;
- 3) use double ended RS485 Communication cables connect the gateway module and CPU H224X of RS485 interface;
- 4) Give CP6453 gateway module and CPU module power supply.

[operate]

- 1, installation, registration and login MiCo (refer to chapter A.1).
- 2, connect to the gateway under the LAN, MiCo Configure the gateway as STAMode and connect to a network hotspot, connect the gateway's IP it needs to be configured on the same network segment as the computer, and does not need to join a group (refer to the chapter A.3.1.3).
- 3, add scene and upload scene, add scene as follows:

- 1) Open MagicWorks HMI The configuration software creates a new project with the name set to GHMI-2.

- 2) as required to configure the project as follows:



- To establish a communication connection, select Modicon MODBUS Communication protocol and settings, select address and baud rate 19.2Kbps (selected as needed, required and connected PLC keep the same), the others keep the default configuration. .



Note: aCP6453connect multiplePLC, should be for eachPLCestablish a connection (the interface is the same,PLCdifferent addresses). The configuration project in this case is imported toMiCoAfter the scene is generated, multiple connections are merged into one connection.

- Configure two variables and select the above communication connection, selectQBAs the storage address.

Id	名称 /	连接	数据类型	长度	数组计数	地址	采集周期	数据记录	记录周期	记录采集模式	起始值	注释
1	变量_1	连接_1	Byte	1	1	QB 0	1s	<未定义>	1s	循环连续		
2	变量_2	连接_1	Byte	1	1	QB 1	1s	<未定义>	1s	循环连续		

In the configuration screen, Q0 button and corresponding below I/O Domain connection variable 1, the property is defined as click IncreaseValue; Q1 button and corresponding below I/O Domain connection variable 2, attribute definition click DecreaseValue.

- After completing the configuration, compile and save the project.

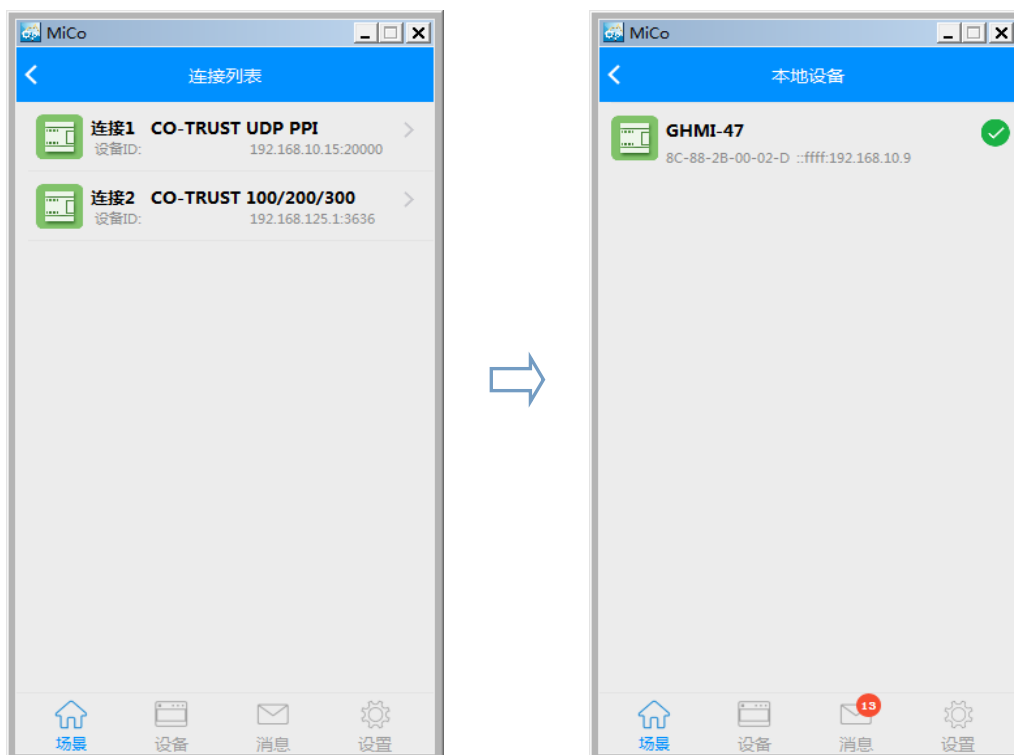
3) to add a scene and select a device

existMiCo PC, open the scene home page, click the "+" sign on the right side of the search box to add the newly configured HMI item added to MiCo as a local scene.

Open the local scene in the scene list and click on the upper right corner Choose to upload it to the server. After the upload is successful, in the scene list Enter the remote scene, select "Device Management" in the upper right corner, and then enter the "Device Connection" page.



The communication connection selected during scene configuration will be listed on its "Device Connection" page, as shown in the figure below, click each communication connection to select the available gateway device.



After selecting the device, return to the "Scenario Management" page, and click "Run" to monitor the device according to the configuration of the scenario.PLC.

4,an examinationCPUsuperiorQ0andQ1Whether the status of the LED changes with the display after clicking the button, if the changes are consistent, it means that the communication is normal.

If a fault occurs during debugging, please refer to the 3.6 chapter for diagnosis.

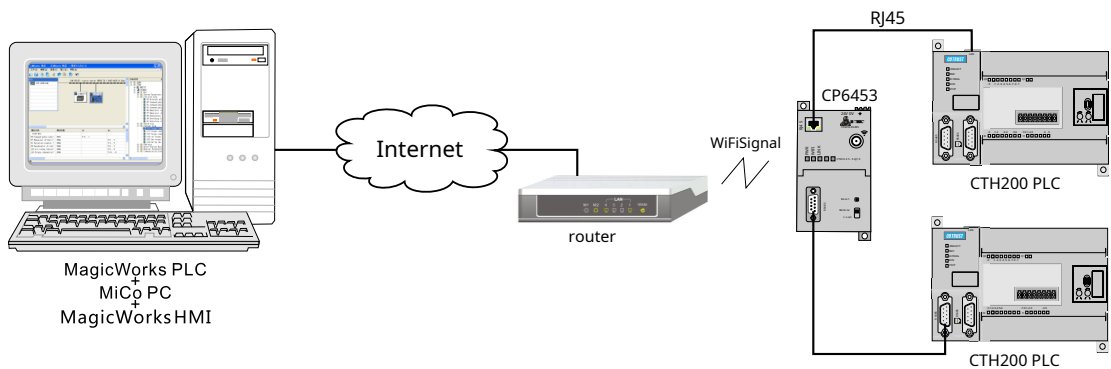
To find out MagicWorks HMI for the application of configuration software, please refer to the document "Copanel HMI System Manual", free download address: <http://www.co-trust.com>.

3.5 Gateway module under WAN STA mode communication

[Example component]

component name	describe
computer	MagicWorks PLC (V2.08 and later), MagicWorks HMI (V3.8.0 and later) and MiCo PC (V2.00 and later)
CP6453 Gateway module	gateway module through MiCo set as STA model
CTH200 CPU	use 2 with network port CPU H224X Internet communication with computer
RJ45 Standard network cable	use RJ45 Standard network cable to connect a CPU H224X Network port and gateway module
RS485 Communication Cable	double-ended RS485 communication cable to connect another CPU H224X Serial and Gateway Modules
switch/router	Used to connect the host computer and CP6453 Devices such as gateway modules are connected to Internet middle
power supply	use 24VDC power, give CP6453 gateway module and CTH200 CPU powered by

[Network Architecture Diagram]



[Main hardware connection]

- 1) Use the communication network cable to connect the switch or router to the WAN;
- 2) exist MiCo medium setting CP6453 The gateway module connects the wireless signal of the switch or router;
- 3) use RJ45 Standard network cables connect the gateway module and a CPU H224X of RJ45 network port;
- 4) use double ended RS485A communication cable connects the gateway module and another CPU H224X of RS485 interface;
- 5) Give CP6453 gateway module and CPU module power supply.

[operate]

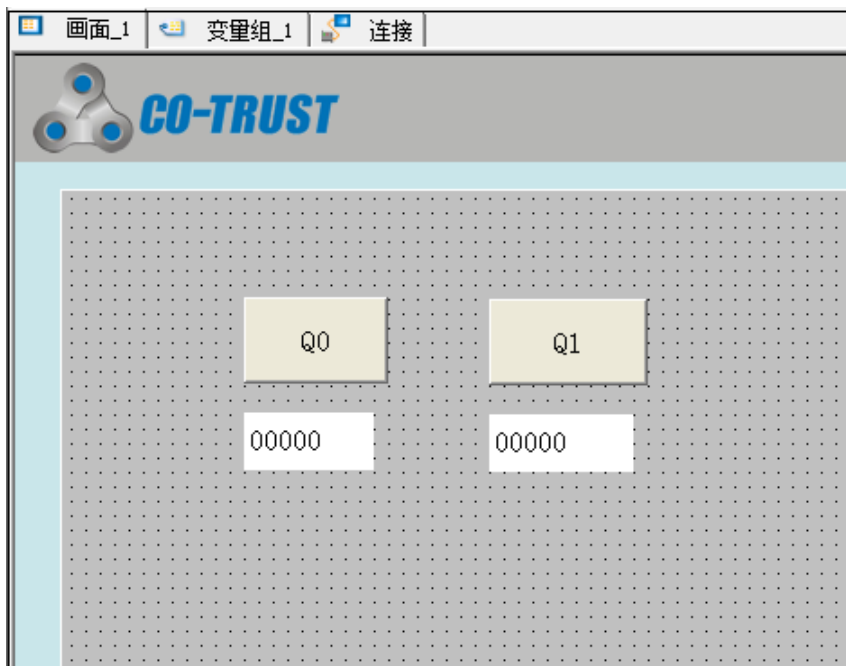
- 1, installation, registration and login MiCo (refer to chapter A.1).
- 2, exist MiCo create a device group in the A.3.1.1).
- 3, Configure the gateway module to MiCo remotely monitor groups created in the system server and set device passwords (refer to chapter A.3.1.3) .
- 4, The owner of the gateway module configured in the server can directly claim the device, and other users who want to use it need to MiCo join in

The group the device belongs to (refer to chapterA.3.1.2), and then claim it through the device (refer to chapterA.3.2.6) or device authorization (refer to chapterA.3.2.7) to get the device.

5, open the acquired device on the "My Devices" page and confirm that it is online .

6, to add scenes and devices, as follows:

1)OpenMagicWorks HMIThe configuration software creates a new project with the name set toGHMI-2. 2) as required to configure the project as follows:



To establish two communication connections, selectCO-TRUST UDP PPIEthernet communication protocol andModicon MODBUScommunication protocol and set it up.

Ethernet communication protocolIPThe address is connected to the gateway modulePLCofIPaddress, port number defaults to20000.

MODBUSCommunication protocol selection baud rate19.2Kbps(optional), configuration fileMPI, others keep the default configuration.



Note: aCP6453connect multiplePLC, should be for eachPLCestablish a connection (the interface is the same,PLCdifferent addresses).

The configuration project in this case is imported to MiCo. After the scene is generated, multiple connections are merged into one connection.

- Configure two variables and select the above communication connection respectively, select QB as the storage address.

Id	名称 / 连接	数据类型	长度	数组计数	地址	采集周期	数据记录	记录周期	记录采集模式	起始值	注释
1	变量_1 连接_1	Byte	1	1	QB 0	1s	<未定义>	1s	循环连续		
2	变量_2 连接_2	Byte	1	1	QB 1	1s	<未定义>	1s	循环连续		

hint

In the configuration screen, Q0 button and corresponding below I/O Domain connection variable 1, the property is defined as click IncreaseValue; Q1 button and corresponding below I/O Domain connection variable 2, attribute definition click DecreaseValue.

- After completing the configuration, compile and save the project.

3) to add a scene and select a device

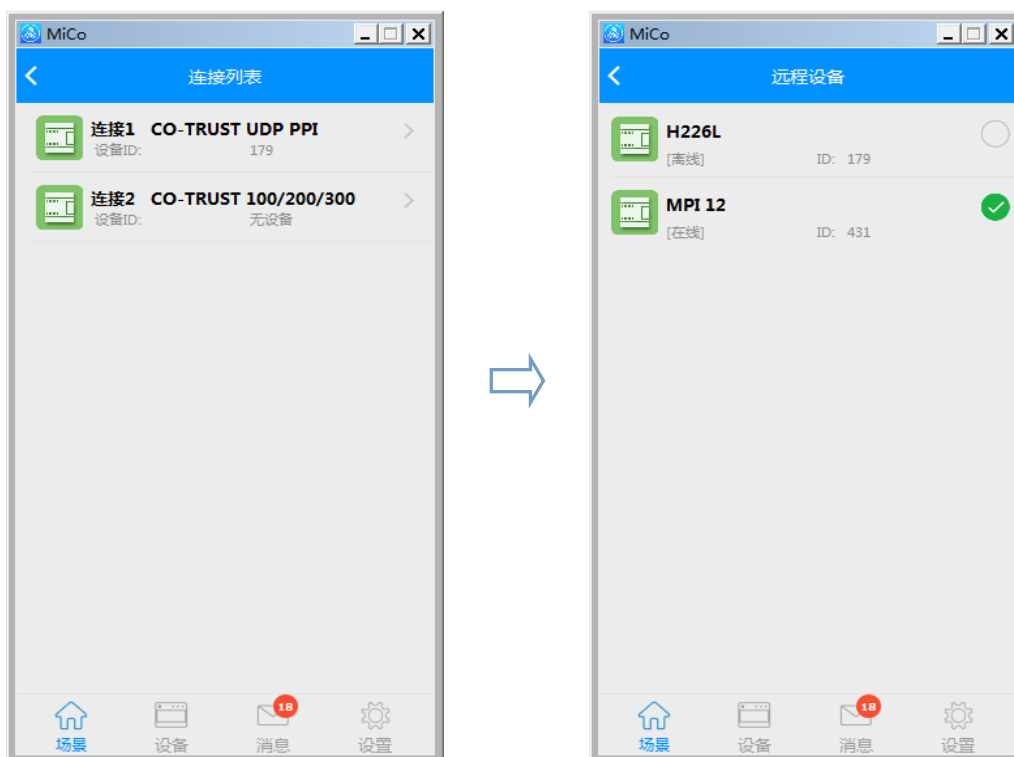
exist MiCo PC, open the scene home page, click the "+" sign on the right side of the search box to add the newly configured HMI item added to MiCo as a local scene.

Open the local scene in the scene list and click on the upper right corner Choose to upload it to the server.

After the upload is successful, enter the remote scene in the scene list, the upper right corner Select "Device Management" to enter the "Device Connection" page noodle.



The communication connection selected during the configuration of this scene will be listed on its "Device Connection" page, as shown in the figure below, click on the specified communication connection to select the available gateway device.



After selecting the device, return to the "Scenario Management" page, click "Run", and then you can monitor the scene according to the configuration of the scene.PLC.

7,an examinationCPUsuperiorQ0andQ1Whether the status of the LED changes with the display after clicking the button, if the changes are consistent, it means that the communication is normal. If a fault occurs during debugging, please refer to the3.6chapter for diagnosis.

To find outMagicWorks HMIFor the application of configuration software, please refer to the document "Copanel HMISystem Manual", free download address:<http://www.co-trust.com>.

3.6

diagnosis








When the system fails, please first check whether the following conditions are met:

1)CP6453Whether the gateway module is powered normally (power can be supplied through the controller or additional24Vpower supply);

2) Check the connection of the communication cable to ensure that it is correct;

3) if the gateway module is onRMCThe indicator light is not on, please check whether the configuration parameters of the gateway and the current mode switch settings support remote communication.

In addition to the above methods, you can alsoCP6453gateway moduleledLED state definitions for diagnostics.

led	display color	condition	describe
PWR		Green, continuously lit	+24VExternal power is connected
		extinguished	No power to the system or faulty power connection
WIFI		Green, continuously lit	The gateway module is inAPmodel
		green, flashing	The gateway module is inSTAmode and connected to a hotspot
		extinguished	The gateway module is inSTAmode, no hotspot connected
RMC		Green, continuously lit	Indicates that the server is connected
		extinguished	Indicates that the server is disconnected or not connected to the server

appendix

A clientMiCoapplication

A.1 Client registration login

Definitions in this chapter MiCo Remote monitoring system account management related functions, including account registration, login, logout, automatic login, remember password and retrieve password.

After installing the client software, click the desktop icon to start the software, or start the software from the "Start" menu.

Notice: user is installing MiCo After the software, it needs to be added to the trust list of antivirus software to ensure the normal operation of the client software.

A.1.1 Account registration

Step 1: Click on Account Registration on the "Login" page.

Step 2: Set up a login account, follow-up App The operation and management of the software may be frequently used, please fill in the frequently used mailbox to

Recover your account when you forget your password.



Username required is 5-32 English letters (case-insensitive), numbers, symbols, globally unique.

Password requirement is 6-20 English letters, numbers, symbols, case sensitive.

After the account registration is complete, the system returns to the login page.

A.1.2 account login

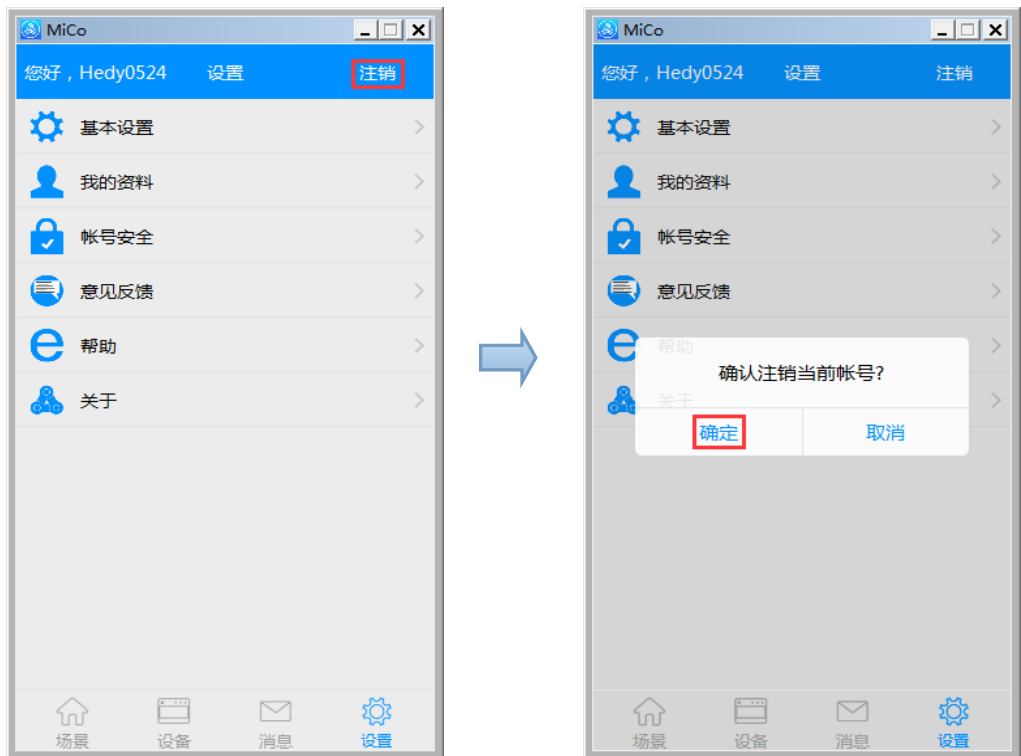
Enter the successfully registered user name and password to log in. After logging in, you will enter the home page:



Notice: allow the samePCStart multiple clients at the same time, but the same user cannot log in multiple times at the same time.

A.1.3 logout

If the user wants to log out and log in, please "log out" on the home page and click "OK" to log out.



A.1.4

remember password

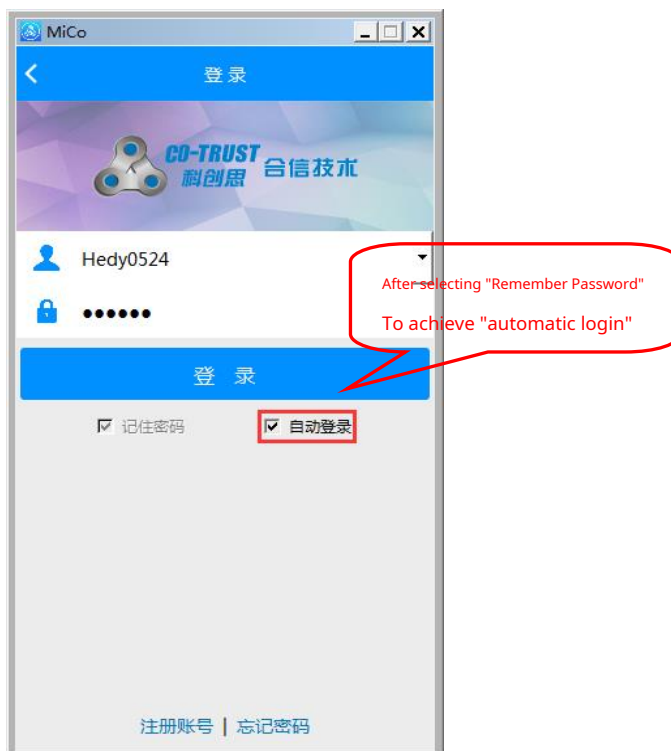
After checking "Remember Password" on the login page, the password will be recorded in the drop-down box, and you can select it from the account when you log in next time. After unchecking, the password input box is cleared when the user enters the login page, and the password needs to be entered manually.



A.1.5

Set up automatic login

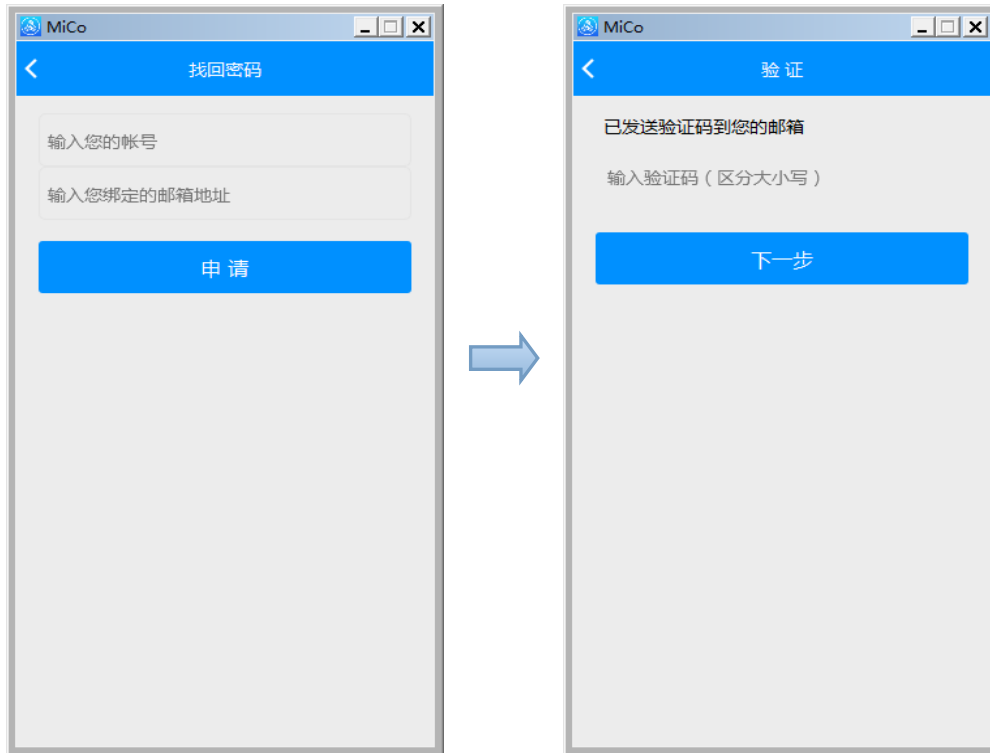
On the login page, select "Remember Password" for the specified account, and then select "Automatic Login". MiCoIt runs automatically when the software starts.



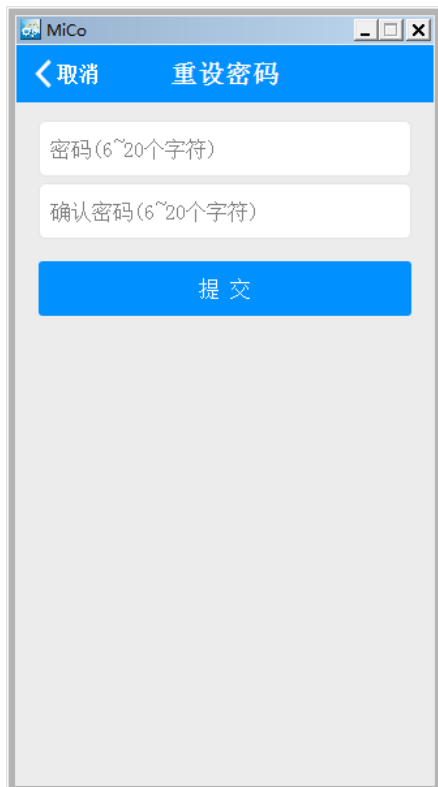
A.1.6

retrieve password

If the user forgets the account password, please click "Forgot Password" on the login page, and then the following interface will be displayed, enter the corresponding account number and the email address entered during registration, and then click "Apply". The system will send the verification code to the specified email address, please enter the verification code given by the email in the following interface, and then click "Next".



A verification code can be retried up to three times. After setting a new password, click "Submit". If the password is changed successfully, the system will return to the login page.

**Notice:**

When resetting the password, the request is 6-20 English Letters, numbers, symbols, case sensitive.

A.1.7 Client update

OpenMiCoClient, if there is a new version currently available, the system will prompt the user whether to update. Users can choose to update immediately or update it next time according to their needs.



If you choose to update immediately, the system will download and install the update package from the server immediately. MiCoYou will be prompted whether to restart the software and the updated version will take effect immediately.

If you choose the next update, the system will enter the current version MiCo, and the next time the user starts MiCoWhen prompted to update again.

A.1.8 Mode Description

MiCoRemote monitoring system clientMiCo PCI can be used locally or after logging in to the server. This section describes the specific functions and applications of these two cases.

local use: without logging inMiCoIn the case of , the user can use the local scene toPLC or via local CP6453gateway device connectedHMIandPLCMonitor and operate.

Including: adding local scenes, local scene management operations, uploading local scenes to the server, searching and configuring local scenes CP6453 gateway device, running local scenarios, pairingMiCosoftware for basic setup, access to online help, and viewing currentMiCoVersion Information.

login server:user loginMiCoAfter remotely monitoring the system server, you can obtain the required server remote equipment to monitor and operate the remote scene on the server and start remote programmingPLCFunction.

Including: all operating functions in local mode, remote scene management operations, equipment group and equipment/user related management in the group, running/sharing remote scenes, message management, MiCoThe software performs basic settings, views current user information, manages account security, provides feedback, obtains online help, and views current user information. MiCoVersion information, etc. MiCoFunction.

A.2 Scenario operation and management

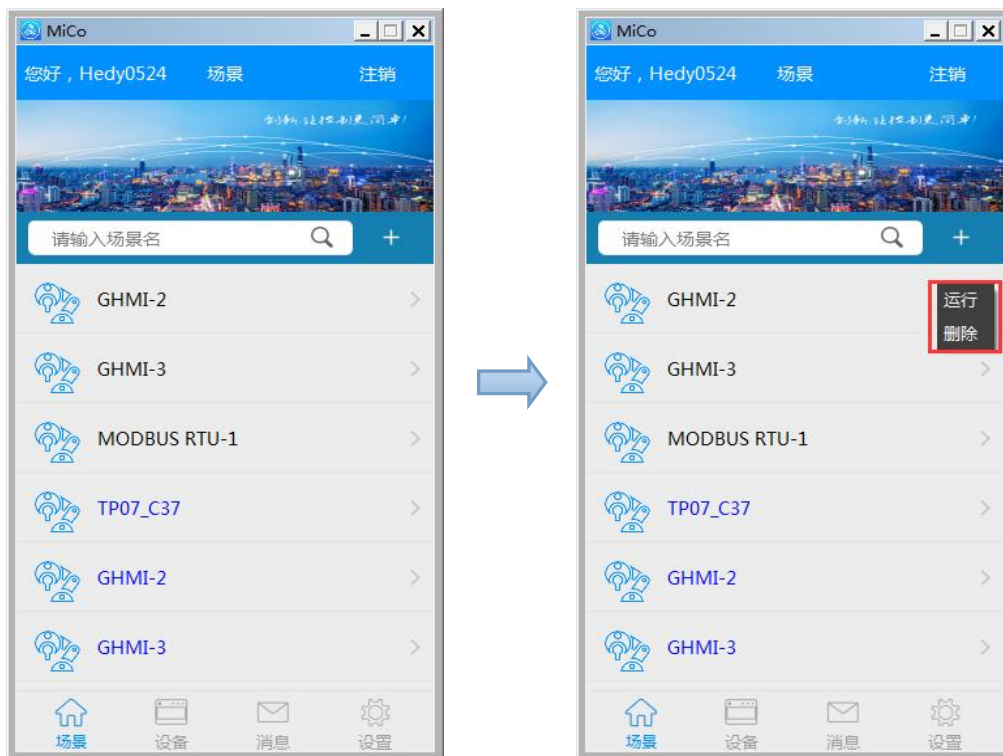
This chapter mainly introduces MiCoScene-related functions and operation methods on the client.

A.2.1 Introduction to the scene

Scenario is to use MagicWorks HMI Configuration software configured and compiled HMI program files, available via MiCo. The software is used locally or via MiCo software upload to MiCo. Remotely call after monitoring the system server remotely; download it to the system connected HMI. After the device, you can also monitor the real-time status of the connected devices.

When starting the display or switching to the scene page, the homepage will display all the scenes of the current user, including local scenes and remote scenes.

Click a specific scene to view the scene details or run the scene, right-click the selected scene to execute the operation, and delete the scene. (Scene owner only).



Notice:

- When no user is logged in in local mode, the system only displays the local scene but not the remote scene.
- The sorting of the scene list follows the principle of the local scene first and the remote scene last; the local scene is displayed in black, and the remote scene is displayed shown in blue.
- Shared scenes can only be deleted by the owner of the specific scene.

A.2.1.1 local scene

The local scene is to use MagicWorks HMI software configuration and save in MiCo where the client is PCUPHMI Project file, build scenarios according to configuration requirements and add to MiCo. After the client, you can connect to the local CP6453 gateway module to HMI and PLC monitor.

For details on how to add local scenes, please refer to this documentation chapter A.2.2;

About how to connect locally CP6453 Gateway Modules and Ethernet PLC For information on running local scenes, see chapter A.2.3.5.

A.2.1.2 Remote scene

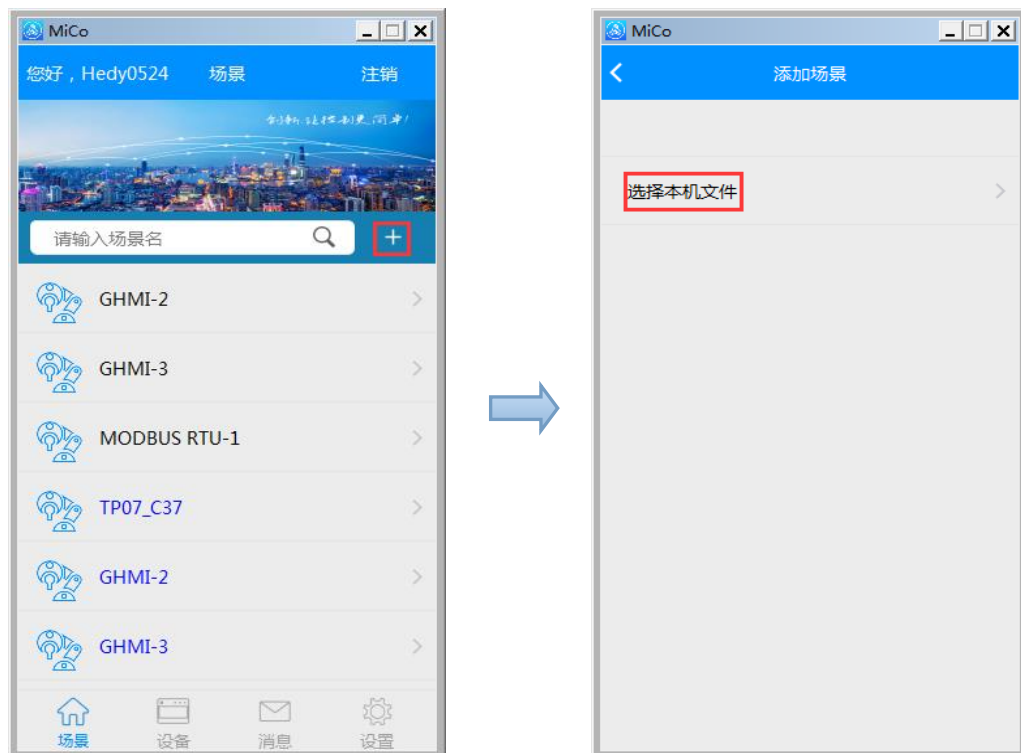
Remote scene refers to uploading the local scene to MiCo. Remotely monitor the scene generated on the system server, log in MiCo. After that, you can connect to the online remote device on the server to perform remote programming and monitoring operations.

For information on how to upload a local scene to the server to become a remote scene, see chapter A.2.3.7;


on how to connect MiCo. For information about running remote scenarios with online remote devices on the remote monitoring system server, please refer to the chapter A.2.3.5;

A.2.2 Add a scene

For in MiCo PCTo add a local scene file in the home page, please click the "+" sign on the home page to select the local file. As shown in the figure below, select .hmidb format the scene file path and add it to MiCo. The scene is displayed in the scene list on the home page.



A.2.3 Manage scenarios

Click on the upper right corner of the "Scenario Management" page  to load each of the scene management options in the image above, and this section details how these options work.

Specific operations:



local scene

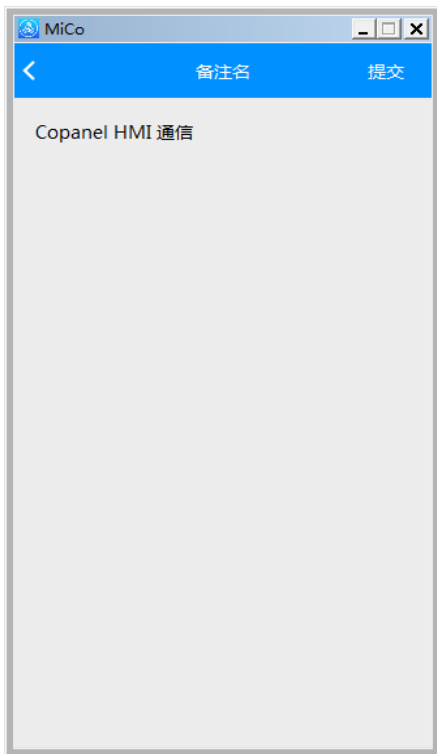


Remote scene

A.2.3.1

Modify the note name

Select this option in "Scene Management" to modify the scene file name, and enter the remark name as needed (required 0-32 Chinese and English letters, numbers, symbols, the scene name under the same user must not be repeated), then click "Submit" to confirm the input, and the modified remark name will be displayed on the scene management page.



A.2.3.2

Modify the detailed description

It is up to the scene owner to select this option in "Scenario Management" to modify the detailed description of the scene, enter the required content as needed (required 0-96 Chinese and English letters, numbers, symbols) and then click "Submit" to confirm the input, and then the modified scene description will be displayed on the scene management page.



A.2.3.3

Set the scene to run automatically

This function is only applicable to the local scene. In the scene management, directly click the "Set to run automatically at startup" slider to set the current scene as MiCoRuns automatically when the client starts.




A.2.3.4

Device management

The local scene and the remote scene establish communication with the local device or the remote device respectively through the specified communication protocol, so as to monitor and operate them.

The following takes a remote scenario as an example to introduce how to select the device to be connected through the "Device Management" option. The specific operations are as follows:

1) to open the scene -> click  -> Device Management -> Select the desired communication protocol in the "Connection List".



2) Select the required communication protocol to connect and enter the device list, which lists all the remote devices available to the currently logged-in user. Select the configured online devices as needed and return to the "Scenario Management" page, click "Run" to pass the Monitor the status of remote devices online in the current scene.



Notice: The local scene can only be connected through the local gateway moduleHMIandPLCdevice and local direct-attached EthernetPLC, for details on the use of remote gateway devices, seeCP6453Gateway Module User Manual, download address: <http://www.co-trust.com>.

A.2.3.5

Shared management

Scenes that have been uploaded to the server can be shared by the scene owner with other users through the "Share Management" option. Click this option to view the list of shared users of a specific scene or add shared members. The specific operation steps are as follows:



According to the assigned sharing permissions, shared members can directly run the scene for monitoring after logging in to the system, or save the scene as a local scene and select a local device for monitoring.

In the share list, select a specific user to unshare it or hand over the scene, as shown in the following figure:



After the scene is handed over, the current user becomes the new owner of the scene; the previous owner does not have permission to use it. If you want to use it, you can save it as a local scene and upload it to the server.

A.2.3.6 upload to server

Select this option in Scene Management to upload the current scene to MiCoRemotely monitor the system server, and then the uploaded remote scene will be displayed in the remote scene section of the scene list, with the same name as the local scene.



Precautions:

- Local scenes can be uploaded to the server to become remote scenes, which can be shared with other users;
- The remote scene is automatically uploaded to the server for backup after being edited by the owner, so as to be shared with other users;
- The sharer of the scene has no right to upload the scene or change the device connected to this scene, but can monitor even if the sharer does not have permission to the device.

A.2.3.7 Save as local scene

For the remote scene that has been uploaded to the server, click this option to back up a copy of the current remote scene to the local scene list with the same name as the original file name.



Notice: This option is only valid for the shared user of the scene.

A.2.4

Running the scene

There are two ways to run a scene:

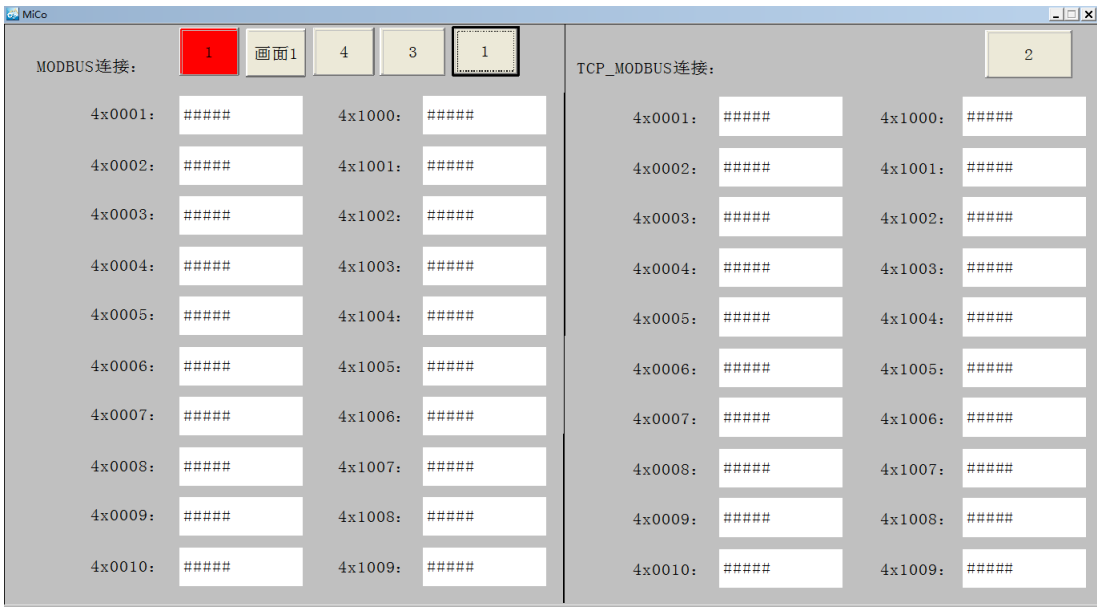
1, Right-click the desired scene in the scene list, and select Run.

2, After selecting and clicking a specific scenario, the system will display the following scenario management interface, which lists the relevant details of the scenario, including version, description, administrator, scenario status, and autorun settings.



- click...to view scene management options, See appendix for detailsA.2.3.
- After setting up the autorun, the scene will run in MiCorun automatically at startup, the system will
The operation screen is displayed.

In the above figure, click "Run" in the red box to run the current scene in a new window, and monitor the scene in real time when the communication connection is established:



Notice: To exit the scene running screen, double-click any blank area of the running screen to close it.

A.2.5 delete scene

If you want to delete a specific scene, please click "Delete" on the "Scenario Management" page and confirm whether to delete the scene file on the server (if it has been uploaded to the server) at the same time. After the deletion operation, the system will prompt a relevant message.



A.3 Devices and groups

This chapter mainly introduces the specific operations of devices and groups, including device configuration and use, and group management.

A.3.1 Device and group actions

A group is a group of user devices created by a user after logging in, where users and devices can be added for remote use.

In local mode, the group list is blank.

In login mode, the device group to which the currently logged-in user belongs will be listed under "My Groups", and the user role may be group owner, administrator or operator. Right-clicking the relevant group will display menu items: View Group Information, Permission Management (Group Owners and Administrators Only), Transfer the Group (Group Owners Only), Dismiss the Group (Group Owners Only), Exit the Group (for operators and administrators only). Click the "+" sign to add a device group.



A.3.1.1 How to Create a Device Fleet

Add device group→Create a device group→submit→Finish

On the "Add Device Group" page, click "Create Device Group" to open the following screen, where the user can enter the name of the device group to be created (5-31 English letters, numbers, symbols, globally unique) and enter the relevant group description (0-96 Chinese and English letters, numbers, symbols), click "Submit", the system will list the relevant information of the newly created group, click "Finish" and return to the "My Groups" page to see the newly created group.



Notice: If the name of the created device group conflicts with the existing device group name, the system will prompt "This group account has been registered". The user needs to change the device group name before submitting the information.

After successfully creating a device group, you can add devices and users to the group.

A.3.1.2

How to join a device group

Users have joined a device group after creating it, and can also choose to join an existing device group.

Add device group→Find device groups→join group

On the "Add Device Group" page, click "Find Device Group" to open the following screen, where the user can enter the device group to be found and click Search to select according to the search results.



If the desired device group is found, the user can click "Join Group", and the system will send the application to the group owner. After the group owner confirms and agrees, he or she can successfully join the group and obtain operator permissions.

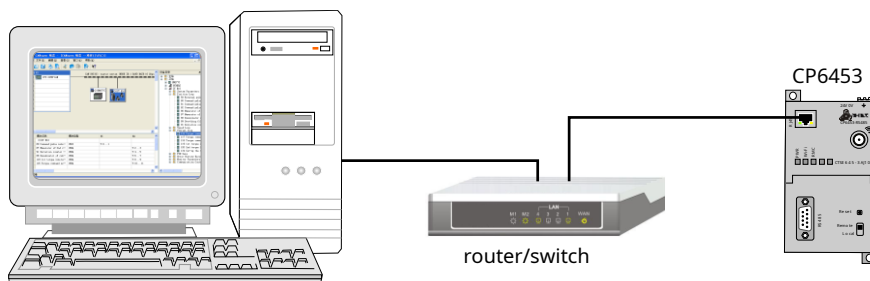


A.3.1.3 How to add a gateway device to a device group

The remote gateway device is configured to MiCo. The specific operations in the device group are as follows:

[Internet connection]

When using it for the first time, use a standard crossover cable to connect the CP6453 gateway module to the router, and make sure that the computer and the gateway are in the same network segment, as shown in the following figure:



[Configure gateway]

1. Basic configuration of gateway module

Open MiCo, click the search button on the device page to search for the local gateway device, and then the online gateway connected locally will be displayed. Click to view and configure the relevant information, as shown in the following figure:



Important parameter description:

parameter	describe	default setting
device name	The gateway module is configured to MiCo. The name of the device set during the remote monitoring system, customized by the device owner	--
Version	The current version of the gateway module	--
WiFi	Gateway module WiFi signal switch	open

Operating mode	<p>STA: The gateway module is connected to the Internet by wirelessly connecting to the wireless router, and the HMI, PLC and other equipment for real-time monitoring.</p> <p>AP: The gateway module acts as a hotspot to connect other mobile devices, so that the HMI, PLC and other equipment for real-time monitoring.</p>	AP
Encryption	<p>WiFiSignal encryption options</p> <p>Open: The gateway hotspot is open, and external devices can directly connect to this hotspot;</p> <p>Encryption: The gateway hotspot is encrypted, and the external device needs to verify the password to connect to this hotspot.</p>	open
hot spot SSID	<p>STA In mode, the router connected to the gateway WiFiSignal name AP In mode, the name of the local hotspot signal sent by the gateway</p>	<p>Local hotspot: CT_CP6453_M A last three bytes</p>
hotspot password	Hotspot network signal password	<p>Local hotspot: 12345678</p>
Hotspot encryption	STA connected in mode WiFi Encryption of the signal	--
DHCP	get gateway IP way: dynamic/static	static
IP	Gateway module IP address, associate it with the router IP set to the network segment of the host computer	192.168.1.210
subnet mask		255.255.255.0
First DNS		192.168.1.1
Second DNS		8.8.4.4
gateway		192.168.1.1

Users can modify the configuration parameters in the above interface according to their needs. The relevant configuration changes can only take effect after clicking "Modify" in the upper right corner and clicking "Confirm".

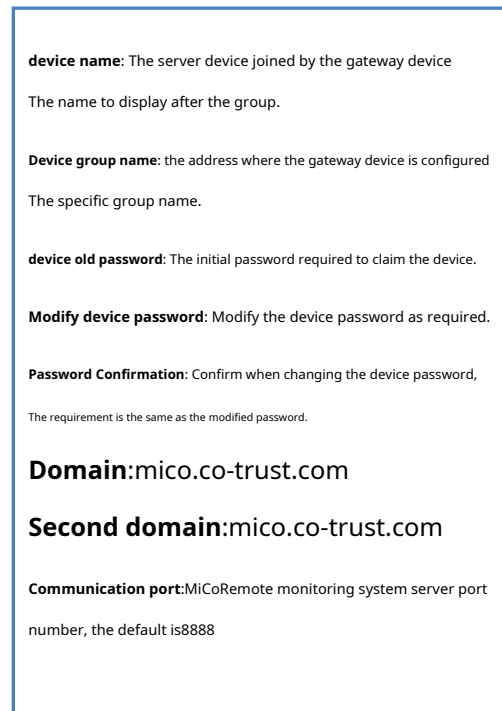
Precautions:

- exist STA In mode, the user can set the hotspot signal received by the gateway device, including the hotspot SSID and password and encryption method, then click "Connect" under the "Hotspot" tab to connect the gateway module to the specified hotspot.
- exist AP In mode, the user can set the hotspot signal sent by the gateway device, including the local hotspot SSID and password and encryption method, and then click "Modify" to save the local hotspot information, in the gateway module WiFi Open for other wireless devices to connect to.
- STA In mode, the network port defaults to the intranet, and the network segment is 192.168.126.XXX and cannot be modified.
- Press the gateway reset button to restore the gateway to factory defaults.

2. Gateway module remote configuration

Gateway module needs to be added MiCo After the remote monitoring system server can be used remotely, the following describes how to configure the gateway module to the remote server:

- exist MiCo After connecting the local gateway device in the remote monitoring system, click the "Remote" tab to set the device information and server information.



- In the above page, enter the device name and device group name, and set the claim password after the gateway joins the group.
 - After completing the above settings, click "Modify" to configure the remote parameters to the server.RMCRemotely
- When the communication indicator is on, it means that the gateway has successfully joined the device group and can be claimed by the user.

3, hotspot connection

- existSTAIn the mode, the gateway module connects to the wireless hotspot to realize wireless operation. The specific operations are as follows:

Device Configuration -> Hotspot -> Scan -> Select the desired hotspot signal -> Enter the corresponding hotspot password -> Click "Connect" and confirm to connect to the specified hotspot. After the connection is successful, the hotspot information will be displayed inWIFIunder the label.



- existAPI In this mode, external mobile devices can connect to the gateway through the gateway module hotspot. The specific operations are as follows:

Device Configuration ->WIFI ->Operating mode AP ->Hotspot signal required for mobile device connection



The user can then log in to the client on other smart devices MiCo, to monitor and operate specific scenarios and equipment.

A.3.1.4 how to PLC Add device to device group

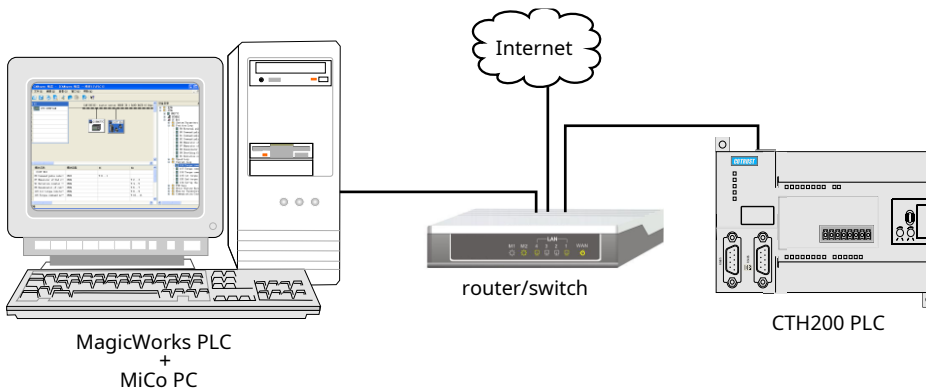
MiCo The remote monitoring system can HM I device, gateway device, PLC controller, this section describes how to integrate PLC The controller is configured into the system server for remote use.

Equipment MagicWorks PLC software to configure, for details on the use of this programming software, please refer to " MagicWorks PLC User Manual", free download URL: <http://www.co-trust.com>.

Below with CTH200 series PLCs an example to introduce how to use the programming software to PLC control device configured to MiCo in the remote monitoring system.

- 1) to establish a system connection

CTH200 series PLC The schematic diagram of connecting to the host computer is as follows:



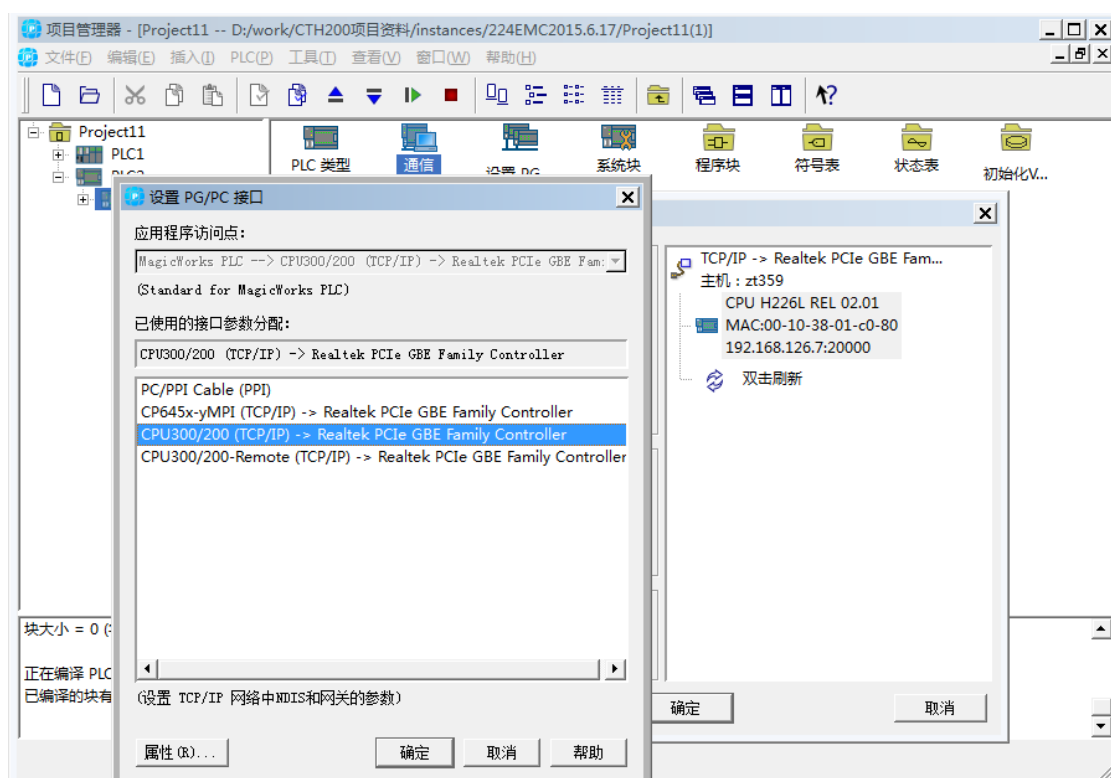
- Use standard network cable to connect PC with the router;

- Use a standard network cable to CTH200 PLC connect to the router;
- PLCIt needs to be on the same network segment as the computer;
- for the system PLC powered by;

2) set up PLC and MagicWorks PLC communication between

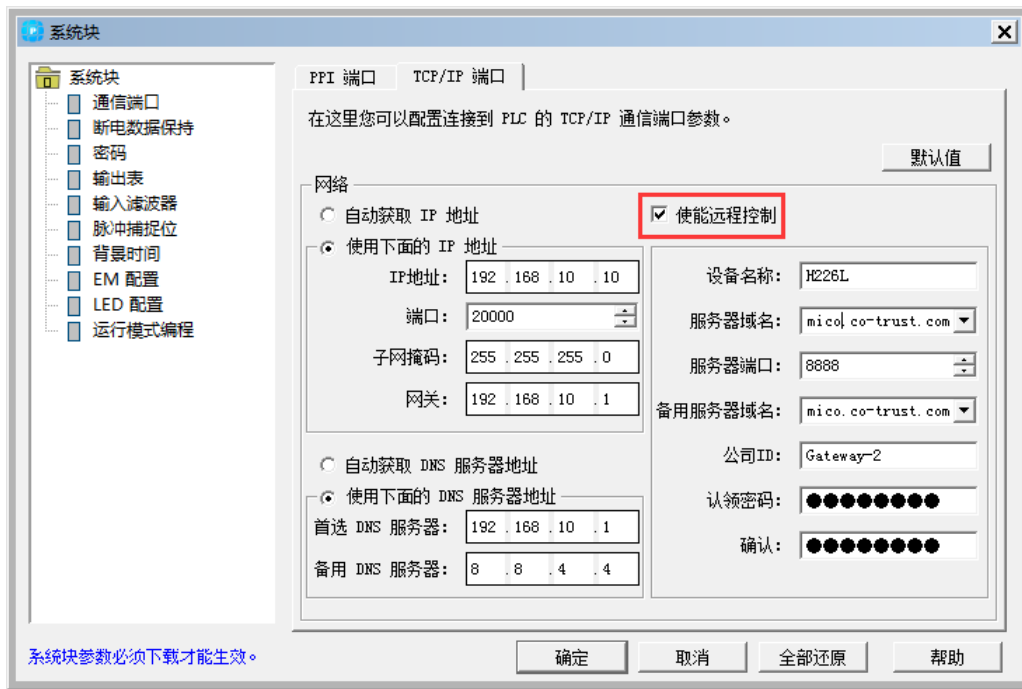
- Open MagicWorks PLC, create a new one PLC site;
- Open the newly created site for "Communication" settings, select the interface CPU300/200 (TCP/IP) -> Realtek PCIe GBE Family Controller, then set the "properties", this example sets the timeout to 4s, then click OK.

- Double click icon to search PLC, if the communication is normal, the connected list will be displayed in the list on the right CPU type, as shown in the following figure:



3) to set the system block

After establishing communication, open the system block for TCP/IP port settings, to configure the device to MiCoTo remotely monitor the system server, you need to enable remote control here, as shown in the red box in the following figure:



network settings

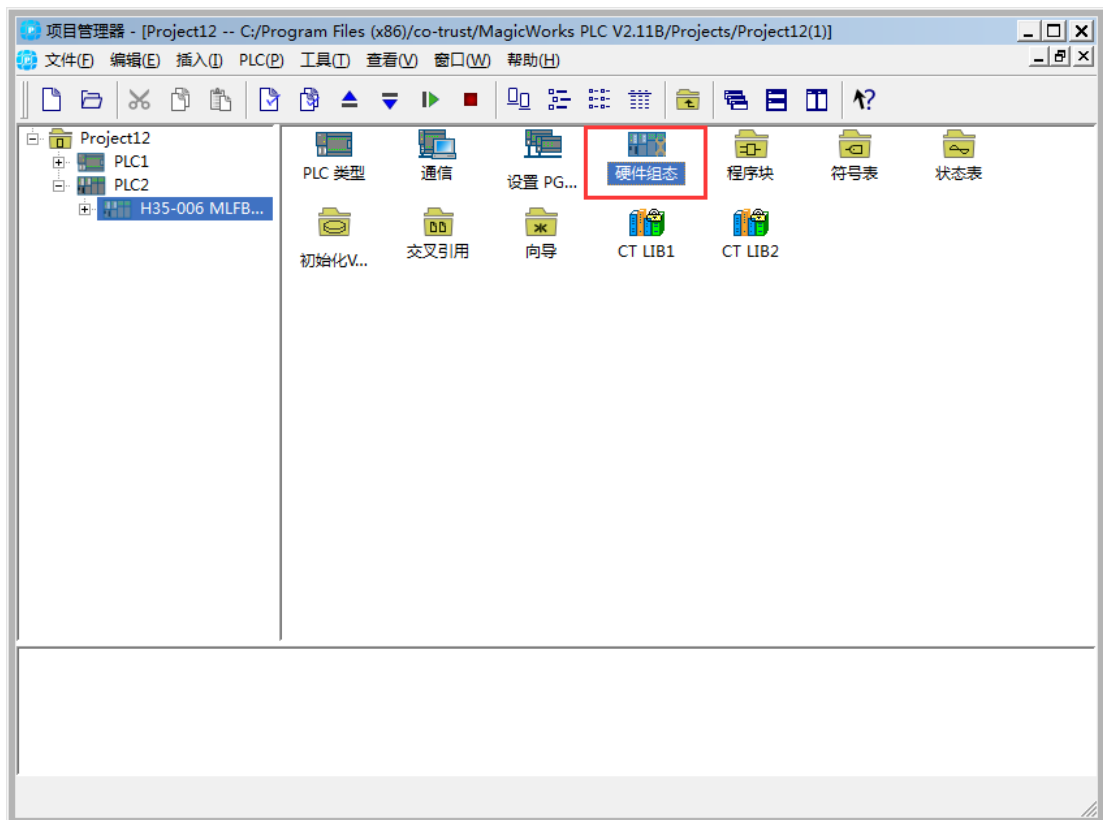
PLCThe network settings of the network can be selected in two ways: automatic acquisition and manual input. If you choose manual input, please enter herePLC device in the networkIPaddress, port number, subnet mask, gateway andDNSserver information.

Make sure that the host computer,PLCIt is in the same network segment as the router.

Remote control settings

- Device Name: Add toMiCoThe name of the device that remotely monitors the system server, which will beMiCoclient display;
- Server/Alternate Server Domain Name:MiCoRemote monitoring system server domain name, now**mico.co-trust.com**;
- Server port: The port number of the device accessing the server, the default setting is**8888**;
- companyID: the device to joinMiCoThe name of the remote monitoring system server equipment group;
- Claim Password/Confirm: Set the password to be entered when claiming the device.MiCoAfter the client sends the claim application, it needs to enter and confirm this password before claiming the corresponding device.

Notice:Use an Ethernet-capableCTH300seriesPLC, set the remote communication of the communication port in the hardware configuration.



4) to download the system block to PLC

Once configured, programs and system blocks can be downloaded to PLCin, after successful downloadPLCUpRMCThe indicator light is on to indicate that the device has been successfully configured toMiCoRemote monitoring system server, convenient for users to call remotely.



Notice: If the parameters are correct, the device still cannot connect to the server after downloading the system block, you can try to clear it firstTCP/IP After setting the port parameters, download the system block again. clearTCP/IPThe method of port parameters is: continuously and quickly dialPLCFront panel run switch (toggle switchRUN-STOPRepeat at least three times)



As shown on the left, after the device is configured successfully,
 Open client softwareMiCosystem block
 the specified group (in this case,Gateway-2)
 see the device in (MPI 12), if the user needs to use
 the device, please refer to the appendixA.3.1.2state
 Please join the group and enter the password to claim the settings
 ready.

A.3.2

Device and group management

After the device group is created, the group owner/administrator/operator can manage the group permissions, log in to the system as the group owner, and open the specified

Right-click after the group to display the following menu:



A.3.2.1 Edit group information

On the "Group Device Member List Page", click the drop-down option "View Group Information" to modify the information of the current group, including the group's remarks, descriptions, and status information. The remarks and descriptions can be customized.

Click the specified entry to modify as needed, and click "Submit" after completing the input.



A.3.2.2 Handover equipment group

On the "Group device member list page", click the drop-down option "Transfer this group" to transfer the group's management rights to the administrator. If no other user is designated as the administrator, you must first specify the management in "Permission Management" perform this operation after the operator.

After the transfer target administrator confirms the acceptance of the group, it means that the group has been handed over.



A.3.2.3

handover equipment

Device group administrators can transfer specified devices in the group to other groups. The specific operations are as follows:

Click "Device Handover" -> Enter the name of the target group to be handed over to search -> Click "Device Handover" -> Select the device to be handed over

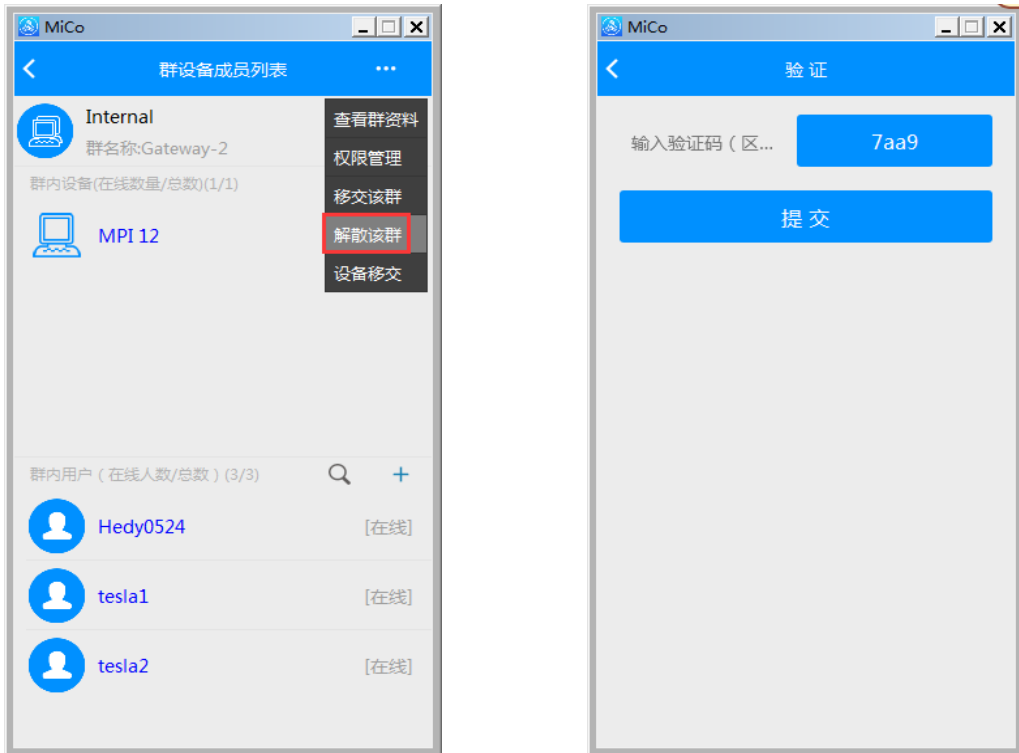
-> Click on Handover. After the owner of the target group confirms to accept the device transfer, the selected device can be handed over to the target group.



A.3.2.4

Disband the device group

On the "Group Device Member List Page", click the drop-down option "Dismiss the group" to disband the current device group.



This operation can only be performed by the group owner, and can only be used for groups whose device list is empty.

As shown in the picture, when disbanding an empty group, the system will ask for a verification code and submit it (as shown on the right).

A.3.2.5

Group User Role and Permission Description

Users of a device group can be divided into three roles: group owner, administrator, and operator. Their functional scope and authority are as follows:

- Lord

The group owner is the creator of the device group. For devices in the group, this role can claim the device, hand over the device, authorize other users to use the device, and cancel the device authorization of other users; Assign administrator rights and dissolve groups.

- administrator

The administrator identity is assigned by the group owner and can manage group devices and user members. This role can claim devices, authorize other users to use devices, cancel other users' device authorizations, invite users to join groups, and exit groups.

- operator

Ordinary users get the operator role after joining the group, and the group owner can set them as administrators to perform operations such as claiming devices and leaving the group.

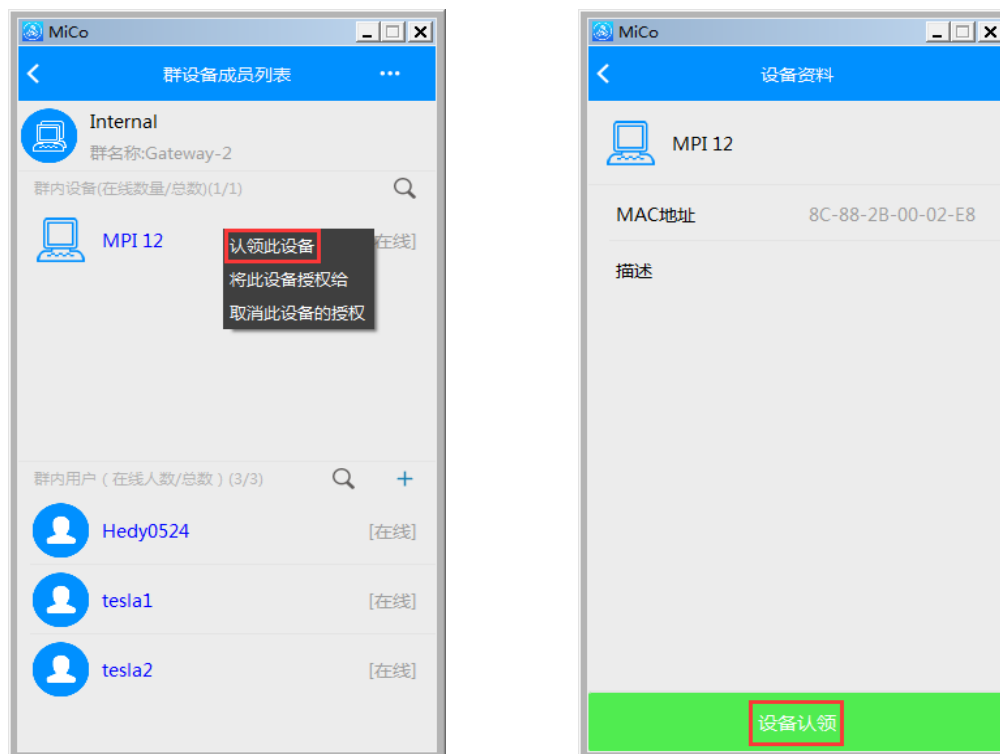
A.3.2.6

Equipment claim

To use the configuration toMiCoThe remote device of the remote monitoring system server can be used by claiming the device:

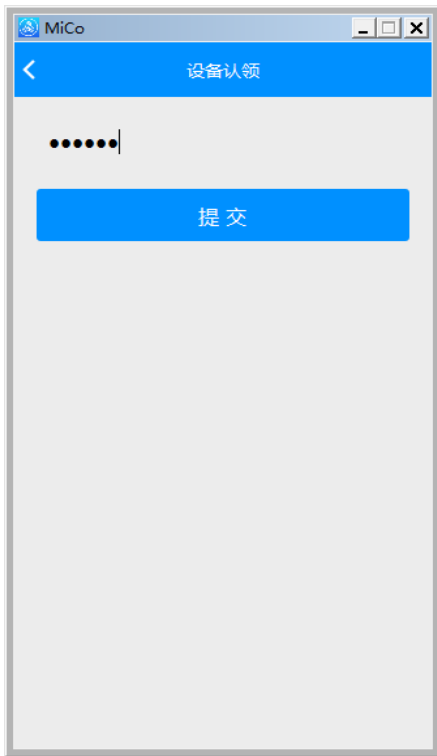
After the user joins the device group, he can claim the online remote devices in the group. The specific operations are as follows:

Enter the specified group, right-click the desired remote device and select "Claim This Device", confirm the device information and click "Device Claim".



Enter the device claim password in the following interface and click "Submit" to confirm.

Claim the password as a local device parameter (CP6453)/system block (CTH200)/hardware configuration block (CTH300)device password.



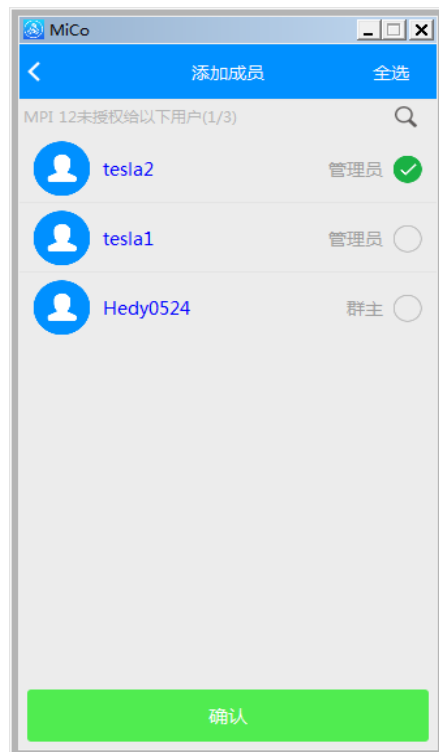
A.3.2.7

Device Authorization and Deauthorization

Device authorization

Another way to obtain the device is to be authorized to use the device by the administrator of the group where the device is located. There are two operation methods:

(1) After the group administrator logs in to the system, right-click the desired remote device and select "Authorize this device to", select the group member to be authorized in the "Add Member" interface that appears and click "Confirm" in the upper right corner, then Devices can be authorized to added members.



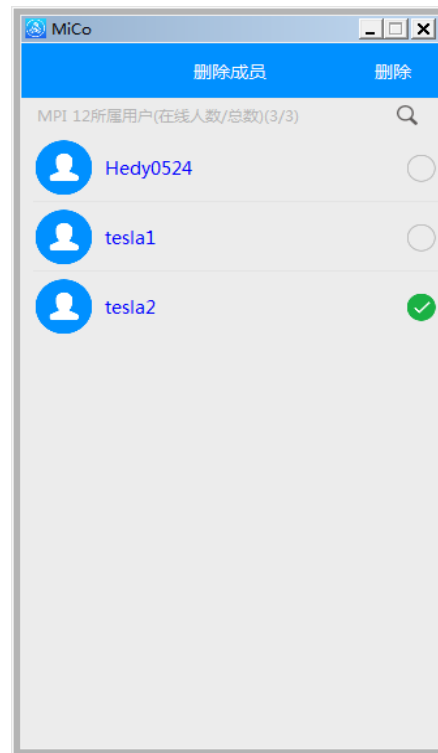
(2) After the group administrator logs in to the system, right-click the specified user and select "Authorize this device to".

On the interface, select the group member to be authorized and click "Confirm" in the upper right corner, then the device can be authorized to the added member.

Cancel device authorization

The administrator in the group can revoke the device use permission of the group members. The specific operations are as follows:

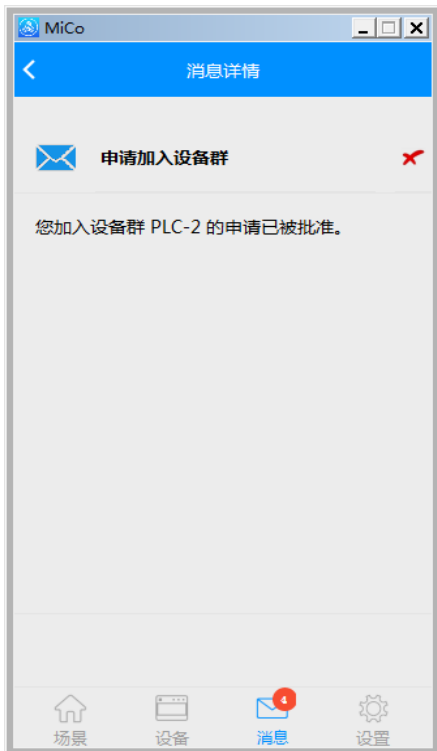
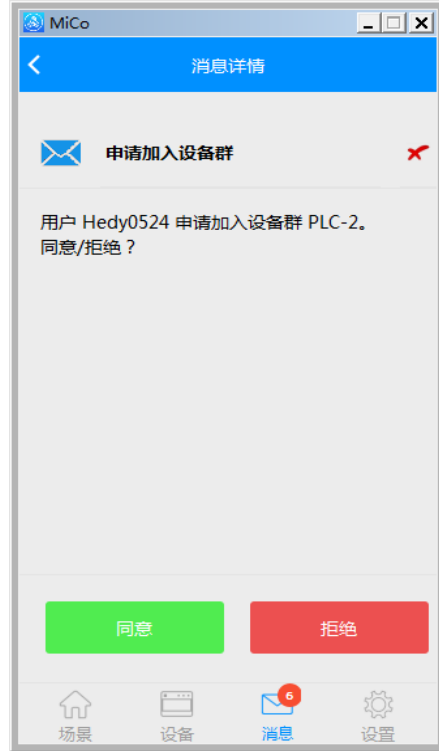
After the group administrator logs in to the system, right-click the desired remote device and select "Deauthorize This Device", select the group member to be deauthorized on the "Delete Member" interface that appears, and click "Delete" in the upper right corner. Can deauthorize a specified member's device.



A.4

message management

The "Messages" menu bar of the client will list the message notifications prompted by the system. Click to view the message details, including group application, device transfer, invitation, add/delete operation prompt information, etc., click to delete the selected message notification.



Notice:

When a group admin receives the following user action

After the information, you can agree or reject in the message notification

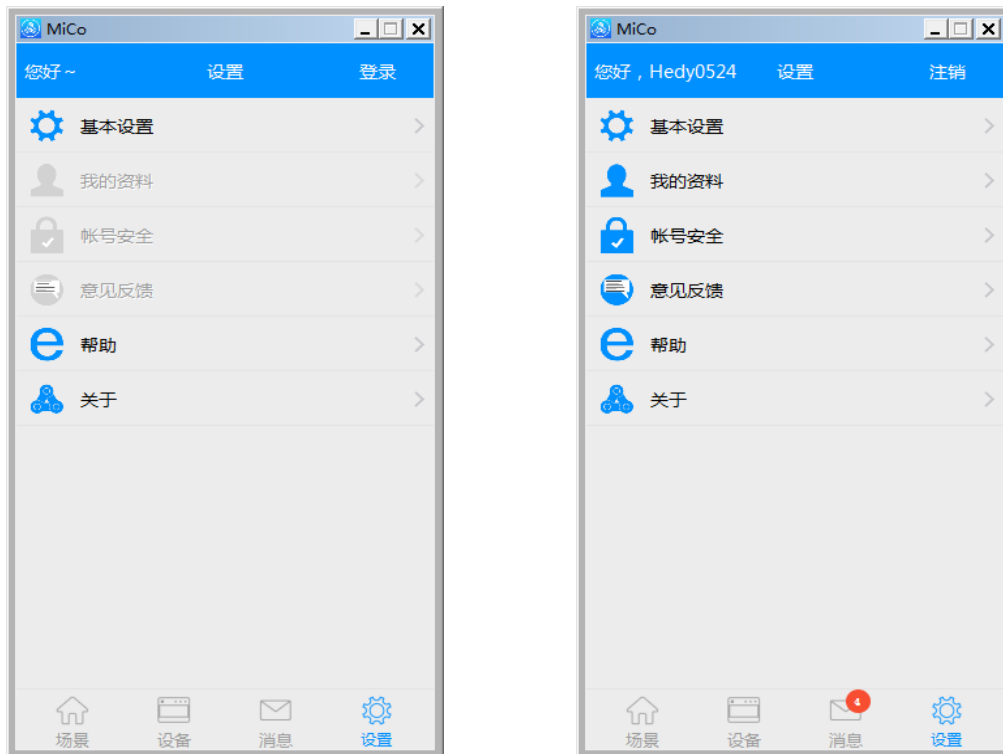
never perform the relevant operation, the system will then

The result of the message is sent back to the requesting user:

- Equipment Handover Application
- Invite to join a device group
- Apply to join a device group

A.5 set up

The client settings pages in local mode and login mode are as shown below, which lists a number of general settings and software-related information.



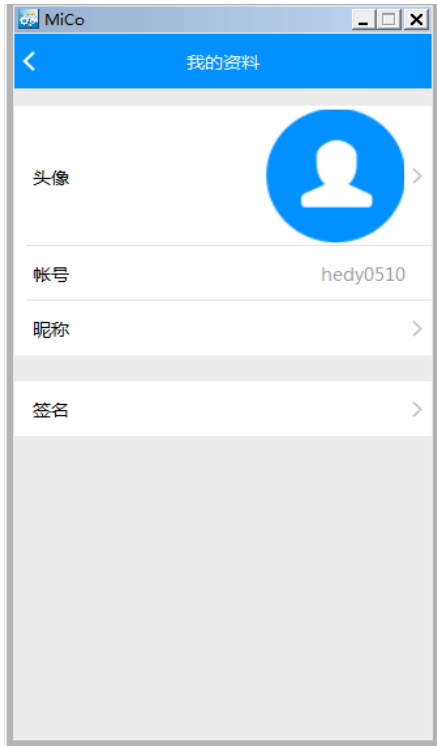
A.5.1 basic settings

This option is used to set the client software to close the main panel and exit the way, the user can choose and modify as needed.



A.5.2 user information

Tap "Settings" in remote mode→ "My profile" to view the profile information of the currently logged-in user and make relevant changes, as shown in the following figure:



Avatar: Users can customize person avatar.

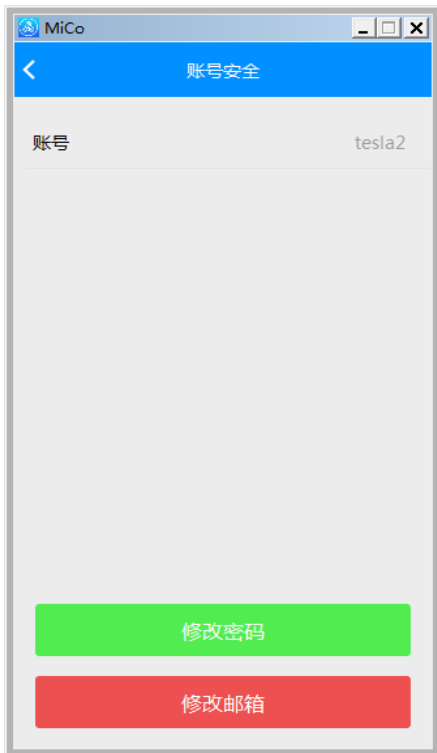
account number: The user account currently logged in to the system name.

Nick name: User nickname can be customized.

sign: Enter the current user's personalized signature, for custom options.

A.5.3 Account and Security

Click "Settings"→ ""Account Security" to enter the "Account Security" page, where the user can modify the login password and registered email.



- change Password

After clicking "Change Password" on the above page, the system will prompt the user to verify the original password, please enter the correct original password and click "OK". After successful verification, the "Set Password" page is displayed, where the user can enter a new password and confirm it.

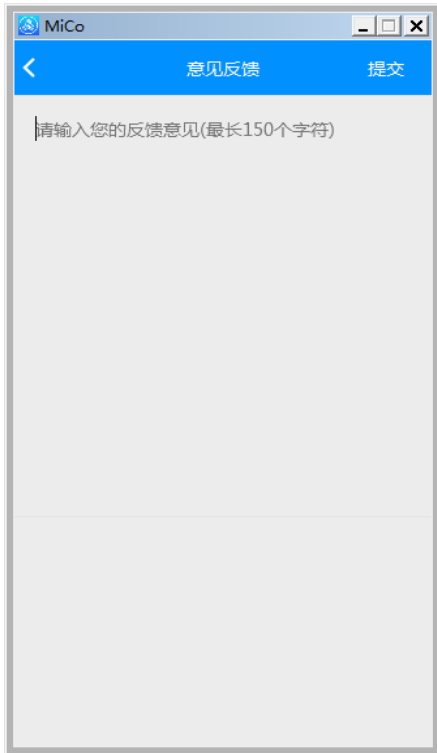
Notice: The reset password will take effect when you log in again.

- Modify email

When the user clicks to modify the email address, the system will send a verification code to the registered email address. Please enter the obtained verification code and fill in a new email address.

A.5.4 Feedback and help

user is using MiCo in the process of remote monitoring system client software, if you have any comments or suggestions, please click "Settings" → "Feedback" and "Submit" after entering it here, your comments or suggestions can be submitted to the system.



To view the help documentation of this client, please click "Settings" → "Online Help".

A.5.5 aboutMiCo



This page lists the current MiCo Software version and its related updates are introduced for users to view and understand.

B CP6453Gateway Product Specifications

This section mainly introduces CP6453 The technical specifications and installation specifications of the gateway module.

B.1 Performance parameters

surfaceB-1 CP6453 The performance parameters of the gateway module

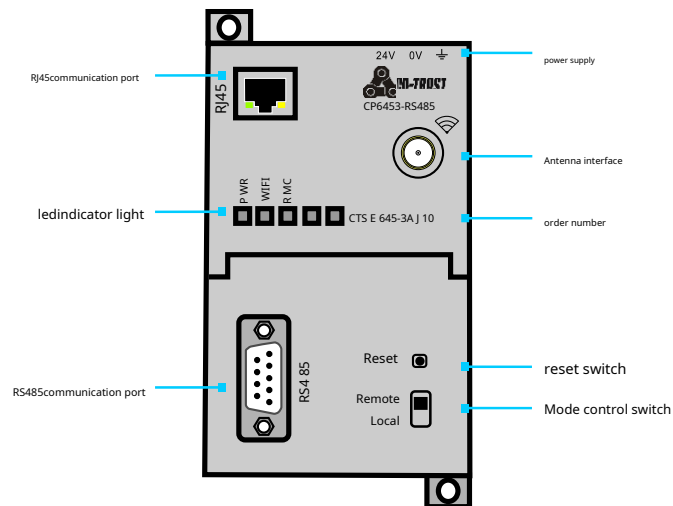
Specification	describe	
physical dimension	96.0x45.2x47.0	
conventional	CP6453-RS485	
Power consumption	2.5W	
Power characteristics	Input voltage	20.4VDC~28.8VDC, rated 24VDC
	Short power down allows time	regular in 24V DC Below is 10ms
	RS485 port Provide +5V power supply	Current: 500mA/Voltage: +5V (Provide rated power for terminating resistor)
switch	reset switch	Restoring the Gateway Factory Defaults AP mode DHCP static, WAN mouth static IP address 192.168.1.210, SSID (CT_CP6453_MAC last three bytes), password (12345678), WIFI open
	Mode control switch	The control gateway module is in Local mode or Remote mode Local: Disable remote communication, enable local communication Remote: Enable remote communication, enable local communication (need to pass MiCo The remote monitoring software is configured to the remote server)
led indicator light	POWER	Power Indicator Green light stays on: +24V External power is connected Off: No power to the system or faulty power connection
	WIFI	WiFi Signal indicator Steady green light: The gateway module is in AP mode Blinking green light: The gateway module is in STA mode, and the hotspot is connected Off: the gateway module is in STA mode, no hotspot connected
	RM remote access enter	Remote connection status indicator Steady green light: connected to the server Off: Disconnected from the server or not connected to the server, or the DIP switch is in Local Location
interface	Power terminal	24VDC
	Ethernet port	1 RJ45 interface, 10/100Mbps adaptive
	serial interface	1 RS485 interface, DB9
	Antenna connector WIFI	omnidirectional antenna, 5dBi@2.4GHz (1.5m Antenna optional) standard: IEEE 802.11b/g/n, the maximum speed 150Mbps
Communication function		
RS485 communication	Protocol	PPI/MPI support 32 slaves, baud rate 9.6Kbps, 19.2Kbps
		MODBUS RTU support 32 slaves Omron Hostlink/Multilink support 32 slaves

		Omron finslinksupport32slaves baud rate1.2Kbps,2.4Kbps,4.8Kbps,9.6Kbps,19.2Kbps, 38.4Kbps,57.6Kbps,115.2Kbps
		Topstar dedicated protocol, baud rate38.4Kbps
		SIMATIC S7 300support1slave baud rate19.2Kbps
		Mitsubishi Protocol 4support16slaves Mitsubishi FXsupport1slaves baud rate1.2Kbps,2.4Kbps,4.8Kbps,9.6Kbps,19.2Kbps
		Panasonic Mewtocolsupport16slaves Delta DVPSupport16slaves Fatek FBs support32slaves baud rate9.6Kbps,19.2Kbps,38.4Kbps,57.6Kbps,115.2Kbps
		LS MASKTER-K Cnetsupport32slave baud rate9.6Kbps,19.2Kbps,38.4Kbps, 57.6Kbps FREEPORtagreement (i.e.BRIGHTEK Micro Printeragreement, only connected to Vita printers, reserved) baud rate4.8Kbps,9.6Kbps,19.2Kbps,38.4Kbps,57.6Kbps, 115.2Kbps
	Number of interfaces	1individual
	Maximum number of sites	32
	cable length	With isolated repeater:9.6KbpsTime1000m Without isolated repeater:50m
	Communication port isolation	without isolation
RJ45	letter of agreement	TCP/IPprotocol
	baud rate	10Mbps/100Mbpsadaptive
	cable length	Shielded twisted pair medium, each segment is the longest100m
	Maximum number of sites	unlimited
	isolate	with isolation
	internet connection	STAIIn this mode, it is used as an internal LAN interface to connect to a switch,PC/PLC/HMIWait AP
SEX	Mode as an external network port, not supportedPPPoEDial, support staticIP/dynamicIP	
WIFI	Protocol standard	IEEE802.11b/g/n
	Transmission rate	highest support150Mbps
	Transmission distance	outdoor than20m
	Maximum device connection	APThe mode allows simultaneous access at most8individualSTAEquipment
	input	only throughMiCo PCConfigure locally (defaultAPmode, please refer to chapter A.3.1.3for gateway configuration) 1, configureWIFISwitch 2, configure the working mode - APIn this mode, you can choose the encryption method and configure the hotspotSSID,password STA - mode, in which you can connect to other hotspot networks by scanning 3, configureIP, automatically acquired/manually set 4, configure remote related parameters

	network connectivity	APIn this mode, it acts as an internal LAN wireless hotspot interface, and other devices can access the gateway by connecting to this hotspot.RS485connected by mouthPLCand access the extranet STAIn the mode, the gateway can access the wireless hotspot and connect to the Internet through the hotspot
	IPmethod of obtaining	Automatic acquisition/manual setting
	Function	connectPC, router, mobile phone
environmental conditions		
Operating temperature	0°C~50°C	
transport/storage temperature	- 20°C~85°C	
humidity	5%~95%, no condensation	
sinusoidal vibration	frequency10~57Hz, the magnitude0.1mm,frequency57~150Hz, acceleration1.0g,3each dimension10 Second-rate10~50Hz (3axis direction,2G,30minute)	
Immunity to electrical interference	specific referenceGB17626.2,GB17626.3,GB17626.4,GB17626.5,GB17626.6	
grounding method	3Class ground	
Operating environment	Dustproof and non-corrosive environment	
fall down	100mm,4Second drop, unpacked	
package dropped	1Mheight, free fall	
Certification		
certified product	CE	

B.2 external structure

CP6453The gateway module adopts the backplane installation method, and its appearance is shown in the following figure:



pictureB-1 CP6453Gateway Module Appearance

reset switch

Pinhole, long press5Srelease, wait forWIFIlights andRMCAfter the light flashes rapidly, the user configuration parameters are all restored to their default values, which can be accessed fromMiCoClient view:



As shown in FIG:APmodelDHCPstatic,WANmouth staticIPaddress(192.168.1.210),SSID (CT_CP6453_MAC The last three bytes of the address), the password (12345678),WiFiopen.

When reset,WiFiand the remote indicator will flash.

Mode control switch



pictureB-2Mode control switch

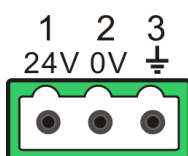
ledindicator light

surfaceB-2 LEDIndicator Specifications

led	display color	condition	describe
PWR		Green, continuously lit	+24VExternal power is connected
		extinguished	No power to the system or faulty power connection
WIFI		Green, continuously lit	The gateway module is inAPmodel
		green, flashing	The gateway module is inSTAmode and connected to a hotspot
RMC		extinguished	The gateway module is inSTAmode, no hotspot connected
		Green, continuously lit	Indicates that the server is connected
		extinguished	Indicates that the server is disconnected or not connected to the server

Power wiring

24VExternal power input terminal pin definition:

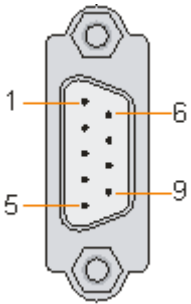


pictureB-3power terminal

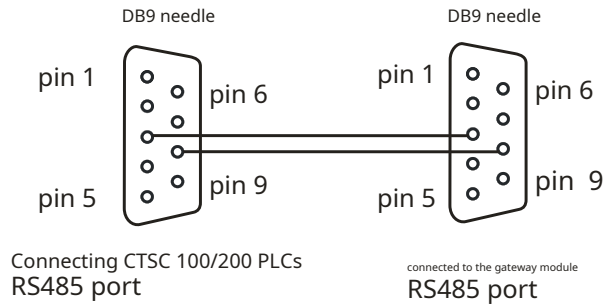
B.3

Communication Port Specifications

surfaceB-3 DSubConnector pin signal definition

RS485communication port	pin number	Signal
	1	the earth
	2	-
	3	RS485 D1+
	4	-
	5	0V DC
	6	+5V DC
	7	-
	8	RS485 D1-
	9	-

Please refer to the following diagram to makeRS485Communication Cable:



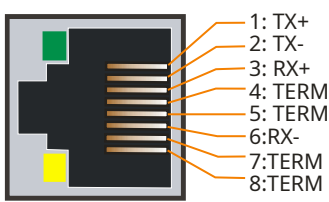
pictureB-4makeRS485Communication Cable



hint

RS485Communication cable two port pins6Do not connect directly.

surfaceB-5 RJ45Communication port pin definition

WAN/LAN		signal name	Signal description
	1	TX+	send signal+
	2	TX-	send a signal -
	3	RX+	receive signal+
	4	-	-
	5	-	-
	6	RX-	receive signal-
	7	-	-
	8	-	-
Shield		shield ground	shield ground

B.4

Communication cable specifications and network cable production

Network cable specifications

CP6453gateway moduleRJ45When the network port uses a shielded network cable as the communication cable, the available network cable types are: 22AWG-25AWG, its specifications are shown in the table2-6, the resistance value is the DC resistance value of a single wire, it is recommended to use the fully shielded five types

cable or fully shielded Category 5e cable,24AWG;

surfaceB-6Network cable specifications

AWG	outer diameter		Cross-sectional areamm ²	resistanceΩ/km
	Metricmm	Imperialinch		
twenty two	0.643	0.0253	0.3247	54.3
twenty three	0.574	0.0226	0.2588	48.5
twenty four	0.511	0.0201	0.2047	89.4
25	0.44	0.0179	0.1624	79.6

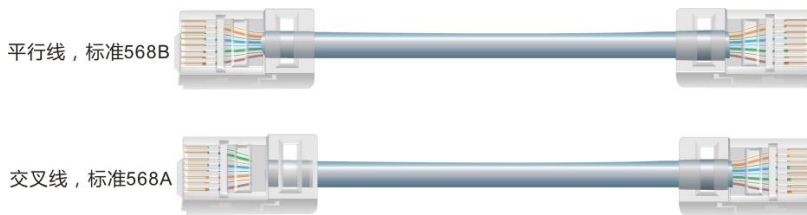
It is recommended to use the super five shielded crystal head, as shown below:



pictureB-5Super five shielded crystal head

Network cable production

There are two production forms for standard network cables, as shown in the following figure:



Parallel lines - same line sequence at both ends, standard568BLine sequence: white orange, orange, white green, blue, white blue, green, white brown, brown.

Crossover wire - different wire order at both ends, standard568ALine sequence: white-green, green, white-orange, blue, white-blue, orange, white-brown, brown.

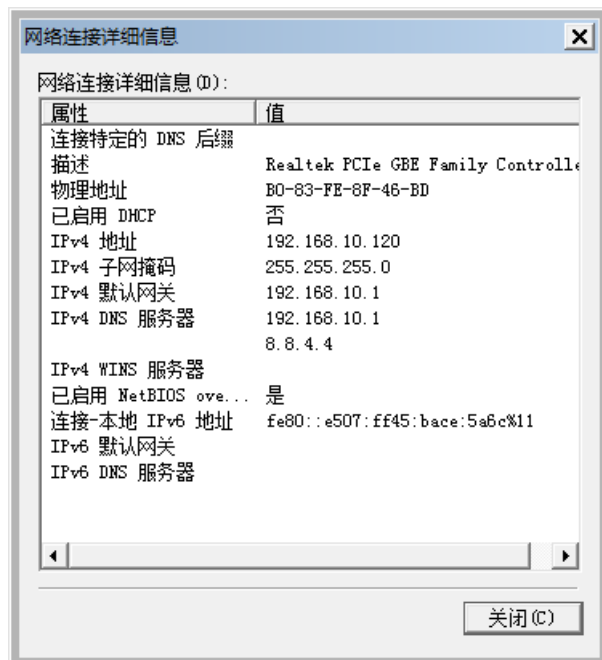
CP6453It is recommended to use a standard crossover network cable for the network cable used for the gateway module communication.

C

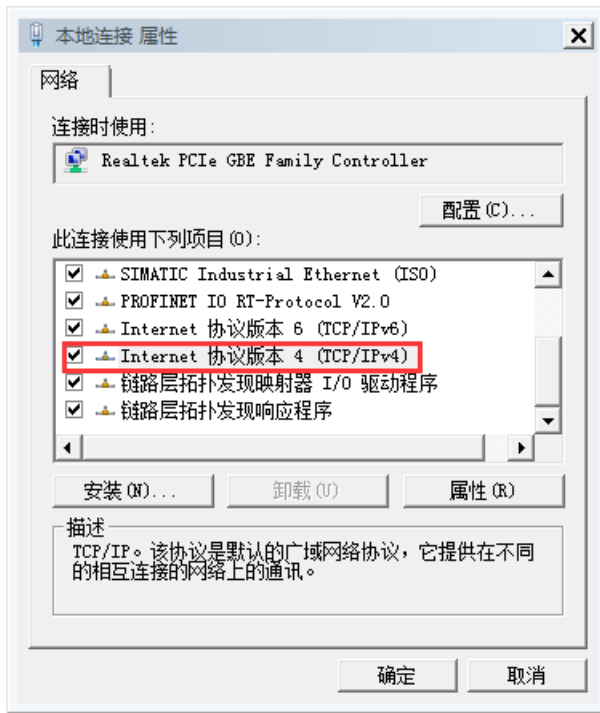
IPparameter settings

useMiCoWhen monitoring the system remotely, please follow the steps below to connect the gateway module, router, EthernetPLCand the host computer!PTThe addresses are unified to the same network segment:

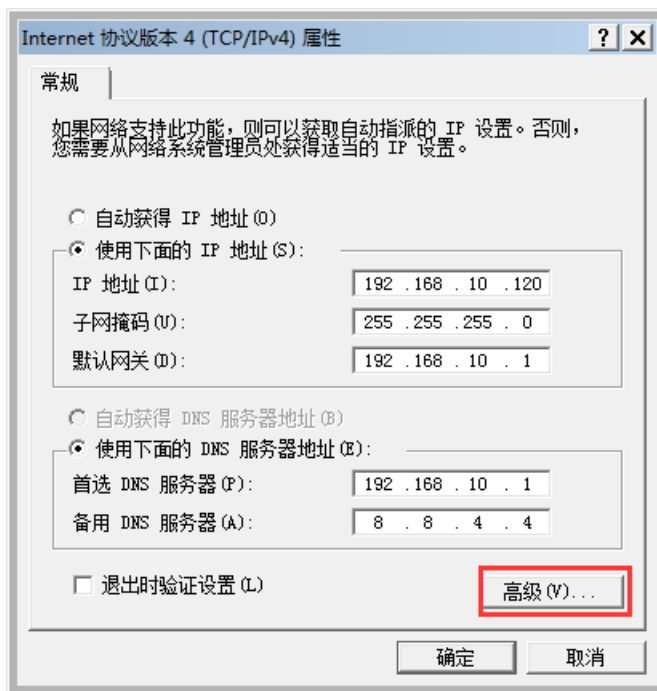
- Open the "Local Area Connection" window of the host computer and click "Details" to view the network connection details:



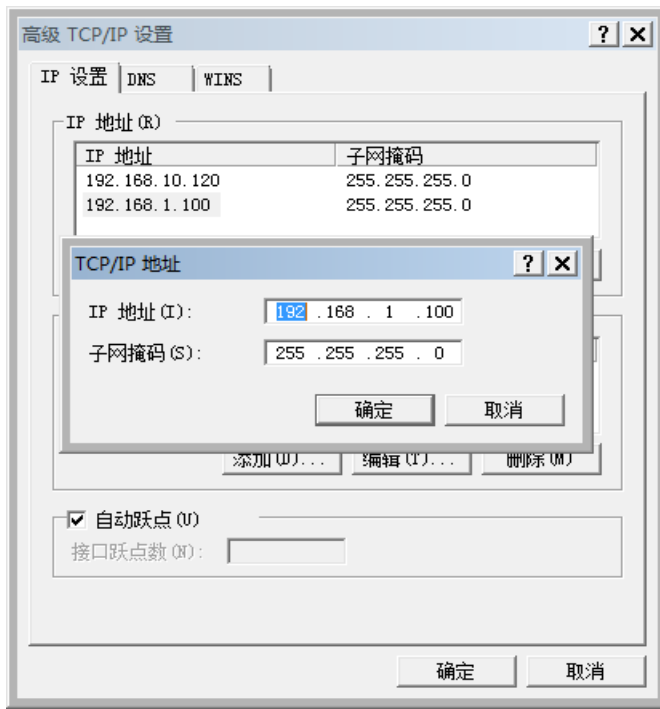
- After performing the above operations, go back and click "Properties", and double-click on the opened interface.InternetProtocol version4 (TCP/IPv4):



Then, please refer to the "Network Connection Details" above to fill in the "IPAddress", "Subnet Mask", "Gateway Address", etc.



CP6453Delivery of the gateway moduleIPAddress is192.168.1.210, click "Advanced" in the above interface to set the gateway module'sIPTThe network segment is added to the network connection of the host computer.



D

Ordering Information Sheet

product	specification	order number
CP6453Gateway module	beltWiFigateway module,RS485serial port, standard	CTSE 645-3AJ10

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