UT-680X Series Serial Device Server

User Manual

Chart 1:UT-680X Series Serial Device Server Overview

a）Product introduction

UT-680X series serial device server, also called terminal server or serial server, is a converter between asynchronous serial port RS232/422/485 and Ethernet. It is an independent intelligent device with CPU, embedded OS and complete TCP/IP protocol stack. Complete the bi-directional transparent transmission of data between RS232/422/485 and Ethernet, allowing RS232/422/485 serial devices to connect to the network immediately.

Product features: aupports dynamic IP (DHCP) and static IP, supports gateways and proxy servers, and can transmit data through the Internet. Provide bi-directional transparent transmission of data, realize the function of serial port to TCP/IP, users do not need to make any modification to the original system. ARP, IP, TCP, HTTP, ICMP, SOCKET, UDP, SNMP, MQTT, MODBUS and other protocols are integrated. And the equipment supports secondary development and provides an interface for customized protocol. All programs have a setup wizard, so you can use it as long as you can use a computer.

UT-6801 Serial Device Server

UT-6802 Serial Device Server

UT-6802MT Serial Device Server

UT-6804 Serial Device Server

UT-6804MT Serial Device Server

UT-6808 Serial Device Server

UT-6808MT Serial Device Server

b）Main Features

Hardware Features

☆Provide virtualized COM driver under Windows;

☆With a serial port, it can be connected to various serial devices such as terminals, modems, bar code machines, cash registers, ISDN, terminal adapters, serial printers, and PCs, and can realize remote control functions;

☆With Reset button, it can be forced to reset when the device halt;

☆With 10/100M adaptive Ethernet port;

☆Each serial port provides 5 signals, including RXD, TXD, RTS, CTS, GND;

☆ 32 bit embedded 400MHz CPU,128M RAM;

☆Both the network port and the power supply have independent indicator, which can easily indicate the working status;

☆The device provides a secondary development interface to meet the needs of user-defined protocol transplantation.

Software Features

★Support ARP, IP, ICMP, UDP, TCP, HTTP, DHCP, SNMP, MQTT, MODBUS and other protocols.

★Support Windows extended serial port mode

A complete extended serial port (com) drivers based on the Windows, and a simple and easy-to-use management program on the Windows platform, which can drive up to 1024 serial ports on Windows. In this mode, each serial port of the serial server can be mapped to the local COM port of the Windows host. This means that using these serial ports is just like using the local COM port on the host, and it also means that all existing software or communication modules used on the existing serial device can be used directly without modification.

★Terminal server parameter configuration

You can configure the terminal server through the web, so that you can apply the serial device server very conveniently.

★Support software upgrade

Support software upgrades to facilitate product function extension, performance improvement and maintenance.

★Support status monitoring

On the device, not only indicators are provided to analyze the working status of the server, but also the input/output data of the network port and each port are counted for analysis by the system administrator.

Security Features

UT-680X series serial server adopts the following security mechanisms to ensure that users can use this product safely.

☆The server management password can be set, and only the system administrator can manage the terminal server, so as to prevent unauthorized modification of the serial server to ensure the security of the serial server configuration;

☆The host name to be logged in to the port can be restricted, and host users who have not been backed up through the restricted port will not be able to access the server to ensure the secure access of the server;

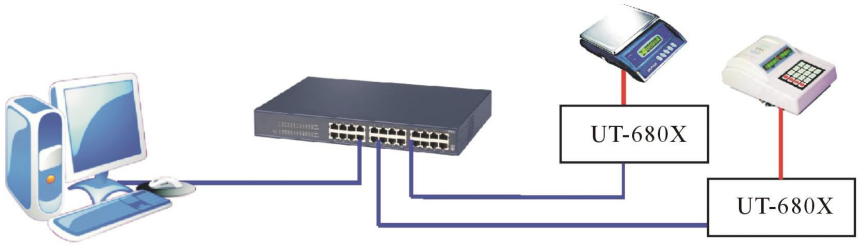
☆Since the serial device server is connected to the network during it works, in order to ensure its security during network access;

You can restrict the hosts or network segments that are allowed to access the server. Unauthorized users who are not backed up in the host list and network segment list will not be able to access the server through the network;

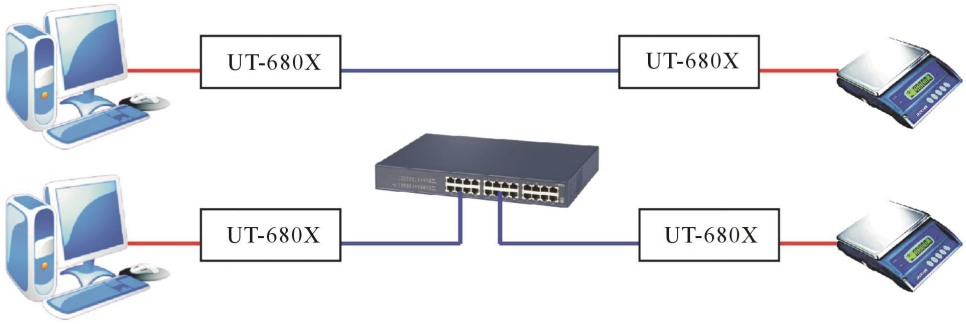
Serial device server factory IP address 192.168.1.125 sub-page code 255.255.255.0

c）Scenarios

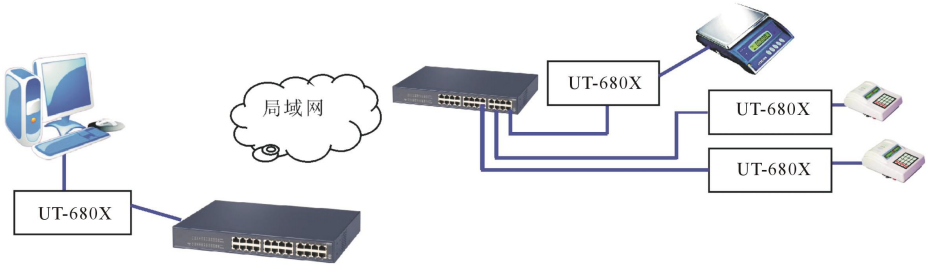
1.Virtual serial port mode



2. P2P Mode



3. P2MP Mode



4. Multi-host mode (up to six hosts)

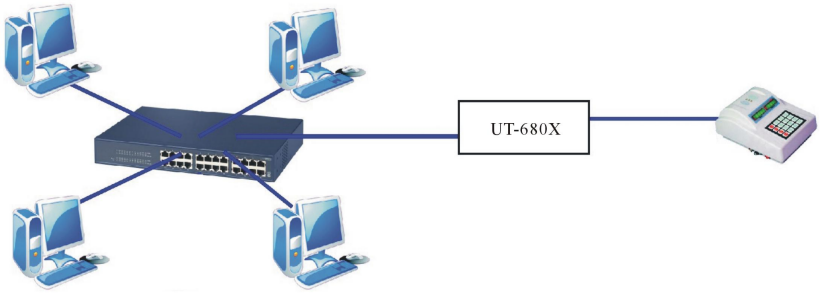


Chart 2:UT-680X Series Serial Device Server Installation Introduction

a)Software installation introuction

1. IP address lookup and changing software

Refer to the attachment

2.Virtualized serial port software

Refer to the attachment

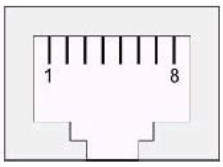
b)LED indicator introduction

Model	PWR（Red）	RUN（Green）	Tx（Green）	Rx（Green）	LAN（Green,Yellow）
UT-6801	√	√	√	√	√
UT-6802	√	√	√	√	√
UT-6804	√	√	×	×	√
UT-6808	√	√	×	×	√

c）Pin definition

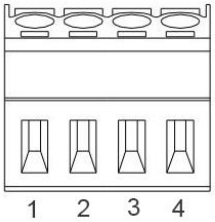
1.UT-680X series serial port pin definition:

RJ45



RJ45	RS-232	RS-485 HALF	RS-485 FULL	RS-422
1	TxD	DATA+	TxD+	TxD+
2	RxD	DATA-	TxD-	TxD-
3	RTS		RxD+	RxD+
4	CTS		RxD-	RxD-
5				
6	GND	GND	GND	GND
7				
8				

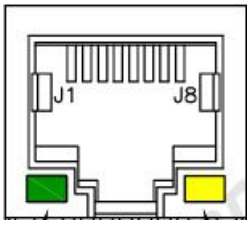
2.UT-680XMT series serial port terminal block pin definition:



3.81Terminal Block	RS-485	RS-422	Remark
1	T/R+	TX+	
2	T/R-	TX-	
3		RX+	
4		RX-	

3,UT-680X Series RJ45 network port pin definition:

RJ45



RJ45	EIA/TIA 568B	Definition	EIA/TIA 568B
1	Orange& White	TX+	TX+
2	Orange	TX-	TX-
3	Green& White	RX+	RX+
4	Blue	Data+	Data+
5	Blue & White	Data-	Data-
6	Green	RX-	RX-
7	Brown& White	Data+	Data+
8	Brown	Data-	Data-

Chart 3:UT-680X Series serial device server technical paramenter

a)Product technical paramenter

Product model		UT-6801	UT-6802	UT-6804	UT-6808
Serial port number		1	2	4	8
Processor		32bit 400MHZ	32bit 400MHZ	32bit 400MHZ	32bit 400MHZ
Memory		128M	128M	128M	128M
Serial Port	Baud Rate	300-921600bps	300-921600bps	300-921600bps	300-921600bps
	Check Bit	Nove,Odd,Even	Nove,Odd,Even	Nove,Odd,Even	Nove,Odd,Even
	Data Bit	5,6,7,8	5,6,7,8	5,6,7,8	5,6,7,8
	Stop Bit	1,2	1,2	1,2	1,2
	Flow Control	RTS/CTS,XON/XOFF	RTS/CTS,XON/XOFF	RTS/CTS,XON/XOFF	RTS/CTS,XON/XOFF
	Serial Port Type	DB9 Male,4pin Terminal block	RJ45	RJ45	RJ45
	Serial Port Protection	±4KV ESD Protection	±4KV ESD Protection	±4KV ESD Protection	±4KV ESD Protection
	Signal	RS232：RxD/TxD/GND/RTS/CTS , RS422：TXD+/RXD+/TXD-/RXD -/GND,RS485：Data+/Data-	RS232：RxD/TxD/GND/RTS/CTS, RS422：TXD+/RXD+/TXD-/RXD-/GND,RS485：Data+/Data-	RS232：RxD/TxD/GND/RTS/CTS , RS422：TXD+/RXD+/TXD-/RXD -/GND,RS485：Data+/Data-	RS232：RxD/TxD/GND/RTS/CTS , RS422：TXD+/RXD+/TXD-/RXD -/GND,RS485：Data+/Data-
Network Port	Speed	10/100M Adaptive	10/100M Adaptive	10/100M Adaptive	10/100M Adaptive
	Type	RJ45	RJ45	RJ45	RJ45
	Protection	Built-in1.5KV Electromagnetic isolation	Built-in1.5KV Electromagnetic isolation	Built-in1.5KV Electromagnetic isolation	Built-in1.5KV Electromagnetic isolation
Software	Protocol	ARP,IP,ICMP,UDP,TCP,HTTP,DHCP,SNMP	ARP,IP,ICMP,UDP,TCP,HTTP,DHCP,SNMP	ARP,IP,ICMP,UDP,TCP,HTTP,DHCP,SNMP	ARP,IP,ICMP,UDP,TCP,HTTP,DHCP,SNMP
	Virtual COM	Windows	Windows	Windows	Windows
Enviroment	Operating Temp	-40℃————85℃	-40℃————85℃	-40℃————85℃	-40℃————85℃
	Operating Humidity	5%————95%	5%————95%	5%————95%	5%————95%
	Storage Temp	-40℃————85℃	-40℃————85℃	-40℃————85℃	-40℃————85℃
	Storage Humidity	5%————95%	5%————95%	5%————95%	5%————95%
Power Supply		DC12~48V,350mA@12V max	DC12~48V,350mA@12Vmax	DC12~48V,350mA@12V max	DC12~48V,350mA@12V max
Appearance	Housing	Metal	Metal	Metal	Metal
	Size				

b) Product Accessory(1 Set)

Product model	Serial Device Server	Power Adapter	Software	Product Manual and warranty bill	RJ45to Male DB9 Cable
UT-6801	1Set	1*DC12V/1A	1Set	1Set	1PCS
UT-6802	1 Set	1*DC12V/1A	1Set	1Set	1PCS
UT-6804	1 Set	1*DC12V/1A	1Set	1Set	1PCS
UT-6808	1 Set	1*DC12V/1A	1Set	1Set	1PCS

Chart 4：UT-680X series **serial device server** WEB operating Instruction

System Content

Content	Function
System Home	Setting device related information
System Setting	Set device network configuration, user management, SNMP setting, mqtt setting
Serial port setting	Set serial port related parameters
Operating mode	Set the operating mode of the device
Status Search	Query various configurations and status of the device
Device Management	Manage device operations

a）System Content

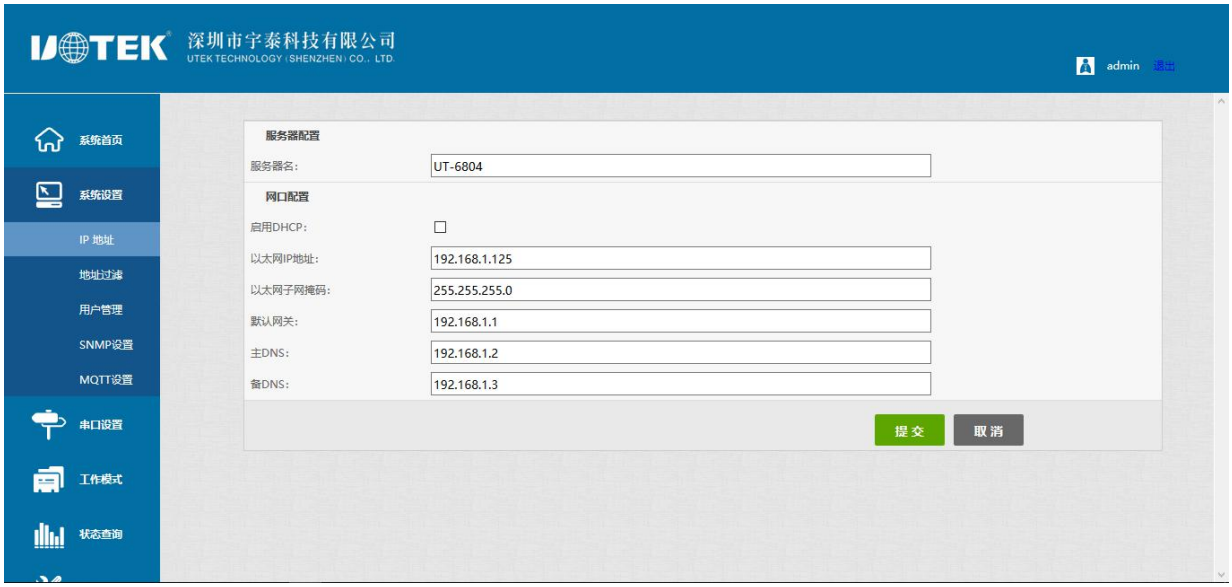
System Content---System Home (Show serial device server information)

Device number	Serial device server number
Device name	Serial device server name
Company Name	User company name
Maintenance staff, contact	Fill in the name of the device maintenance personnel and their contact information to facilitate the internal management of the user company

b）System Setting

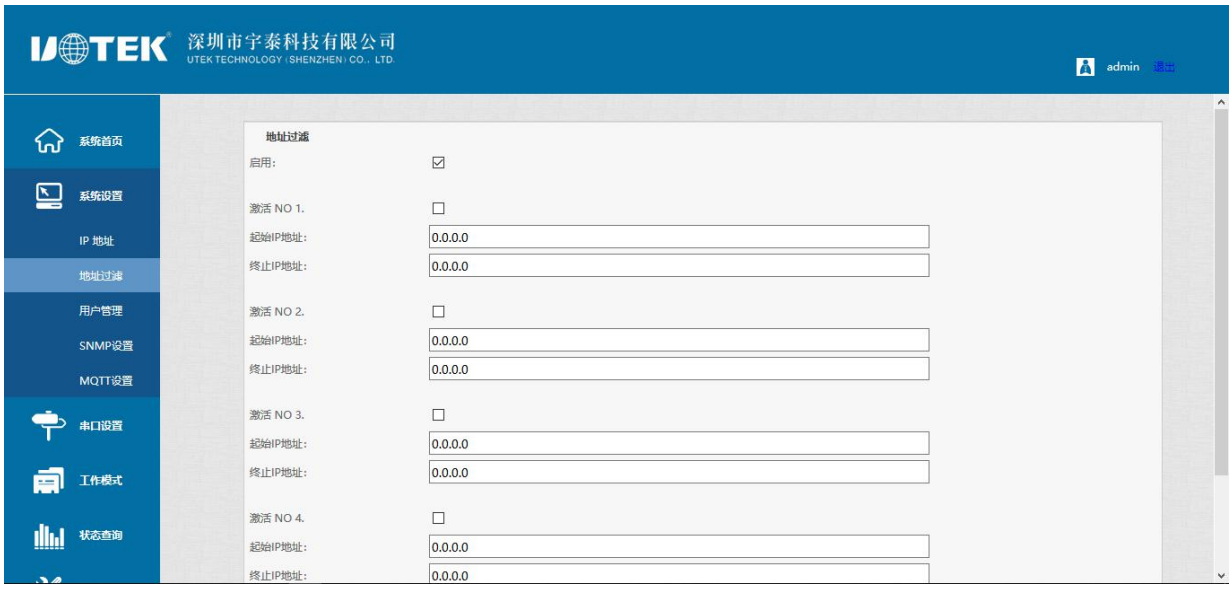
1,System Setting ---IP address setting (Set serial device service networking IP parameters)

Server Name	Set the serial device server name
Enable DHCP	Check the box to get the IP address of the serial device server automatically
Ethernet IP address	Set the Ethernet IP address of the serial device server
Ethernet Subnet Mask	Set the Ethernet subnet mask of the serial device server
Default Gateway	Set the default gateway of the serial device server
Primary DNS	Set up primary DNS
Backup DNS	Set up Backup DNS
Submit,Cancel	Submit (after setting the above options must be submitted to complete the settings, and the new IP address will take effect immediately after submission, you can use the newly set IP address to access the device),Cancel (no changes)



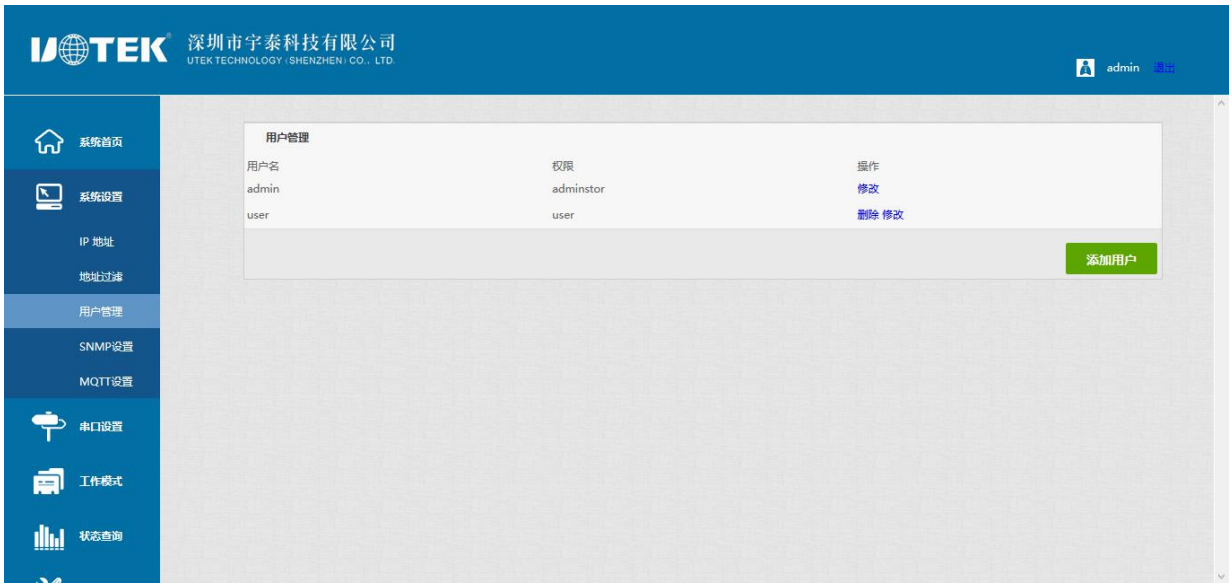
2,System Setting---Address Filter (Set the serial device service to filter the networking address)

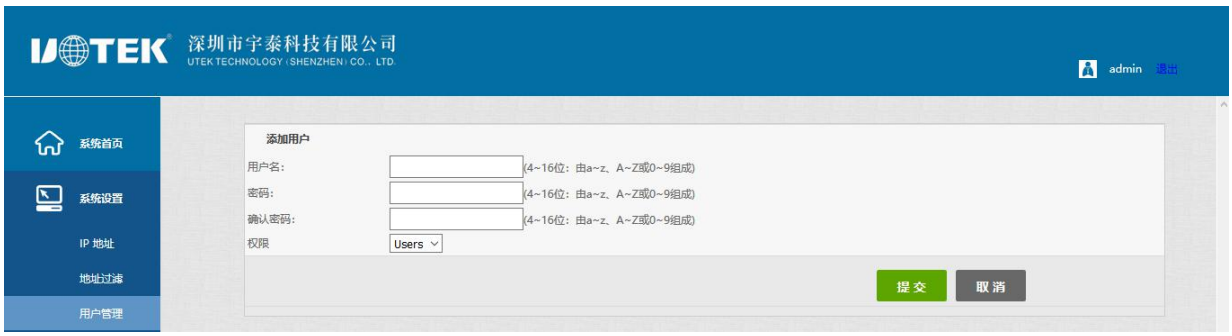
Enable address filtering	This item is checked to enable the address filtering function, a total of 4 groups of Ethernet IP segments can be filtered
Activate NO.x	This item is checked even if the current group IP network segment can be filtered
Starting IP address	Set the starting IP address of the filter segment
Terminate IP address	Set the terminating IP address of the filtered network segment
Submit,Cancel	Submit (must be submitted after setting the above options to complete the settings),Cancel (no changes)



3,System Setting---User management (set the user management account information for the serial service)

Modification	Change current user password
Delete	Delete current user information
Add User	Add a new user account name
User Name	Set the new username to be added
Password, Confirm Password	Set the password of the new user added
Permission	Select the newly added user permissions, Users is the user permissions account, by default only one adminitractors user is allowed for a device.
Submit, Cancel	Submit (must be submitted after setting the above options to complete the settings),Cancel (no changes)

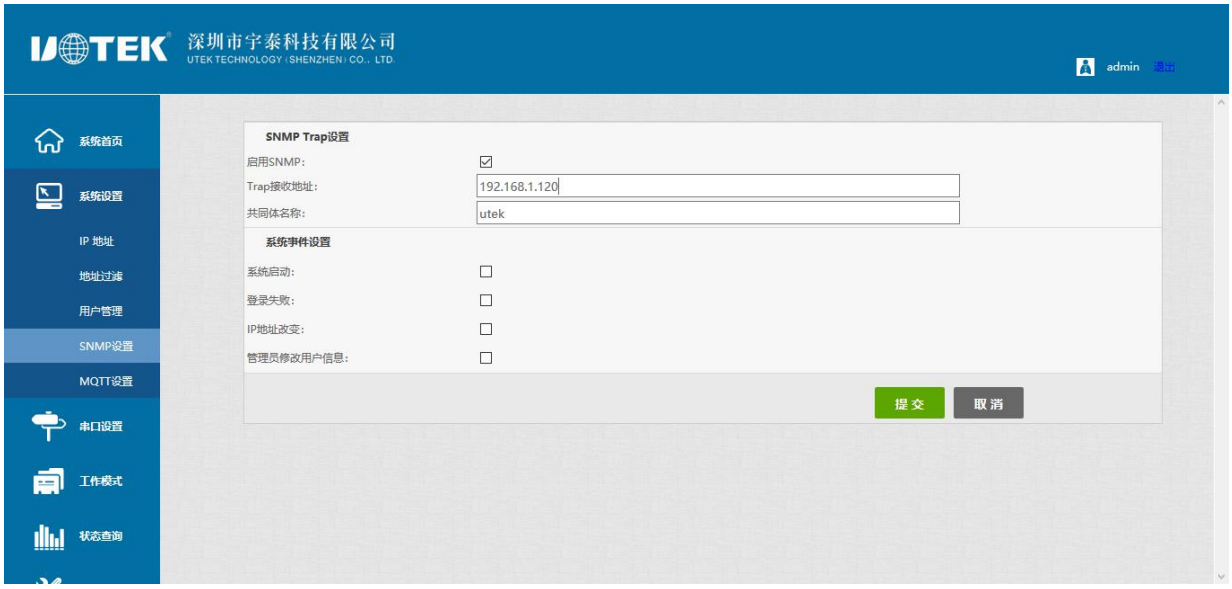




4,System Setting ---SNMP Setting (Set SNMP Trap parameters and options for serial device services)

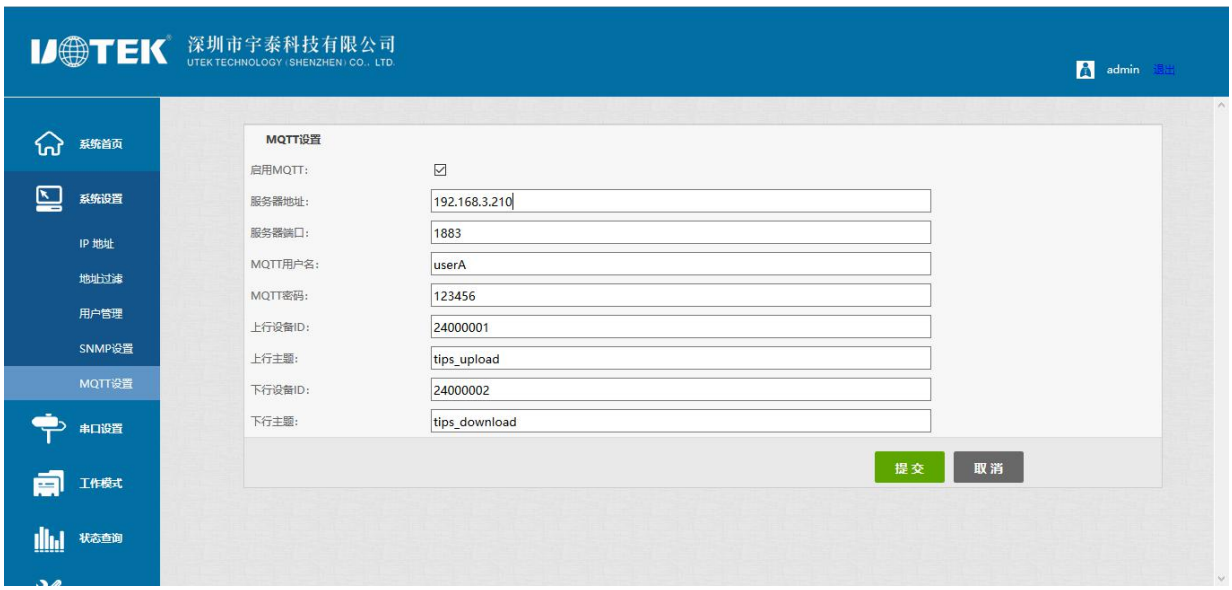
Enable SNMP	Check the box to enable Simple Network Management Protocol
Trap receiving address	Set the Trap server address
Community Name	Set the community name of the network management protocol
System start-up	Check to enable sending system startup time signal
Login failure	Check to enable sending login failure event signal
IP address change	Check to enable sending IP address change event signal
Administrator change password	Check to enable sending administrator password change event signal

Submit,Cancel	Submit (must be submitted after setting the above options to complete the settings),Cancel (no changes)



5,System Setting---MQTT Settings (Set the MQTT parameters and options for the serial device server)

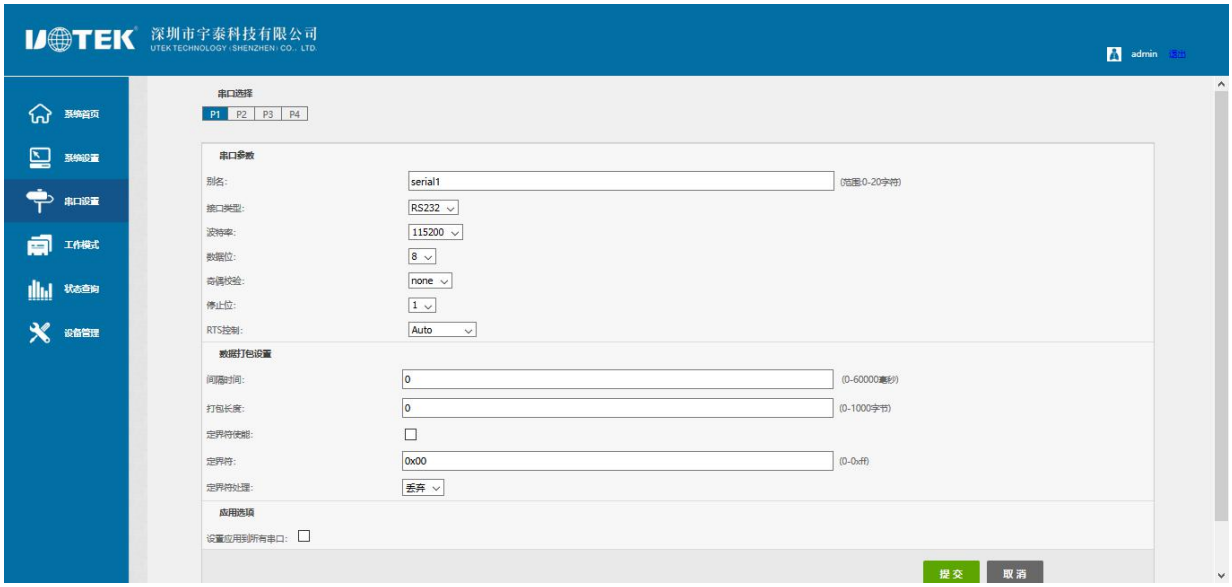
Enable MQTT	Check to enable MQTT and the device will create MQTT client tasks
Server Address	Setting the MQTT server address
Server port	Set the MQTT server port number
MQTT User Name	Set the username information for MQTT login
MQTT Password	Set the user password information for MQTT login
Uplink Device ID	Set the client ID of the published topic
Upside Theme	Set the posting theme
Downlink Device ID	Set the client ID of the subscription topic
Downside Theme	Set subscription topic
Submit,Cancel	Submit (must be submitted after setting the above options to complete the settings),Cancel (no changes)



c）Serial port setting

Serial port setting (serial communication setting)

Alias	Set the serial port alias of the serial port server
Interface Type	Interface type (including RS232/485/422)
Baud rate	Serial port baud rate (the value should be the same as the baud rate of the device connected to the serial port)
Data bit	Data bits (default is 8, specific should be consistent with the device connected to the serial port)
Parity Check	Check bits (including None, Even, Odd default to None, the specific should be consistent with the serial port connected to the device)
Stop bit	Stop bit (default is 8, specific should be consistent with the device connected to the serial port)
RTS control	Auto,XON/XOFF,CTS/RTS can be selected
Interval time	Data packing interval
Packing length	Length of data packing
Delimiter Enabling	Check the Enable Delimiter
Delimiter	Set the encoding of the delimiter for the transmitted data (0-0xff)
Delimiter handling	Choose to keep or discard
Submit,Cancel	Submit (after setting the above options, you need to click "Submit" to check whether the parameters are compliant and save the page, if the parameters are set to the rules to save to the device), cancel (no changes)
Apply to all serial ports	Apply all serial ports (if the settings are the same for each serial port, you can check the sub-item)

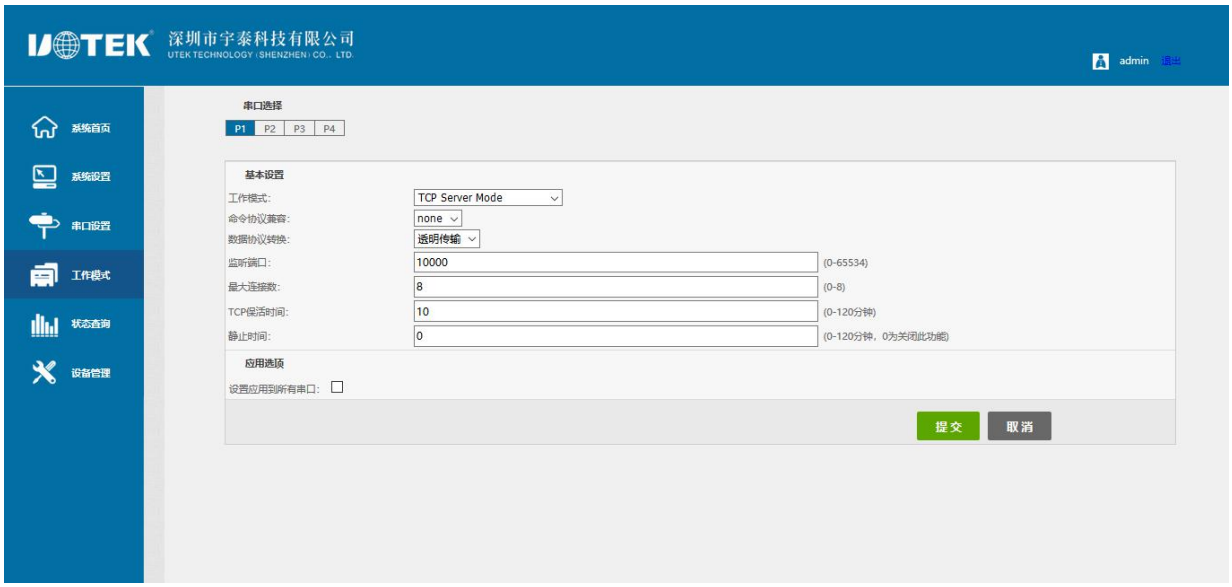


d）Operating mode (server operating mode)

1,TCP Server Mode（TCP Server Mode）

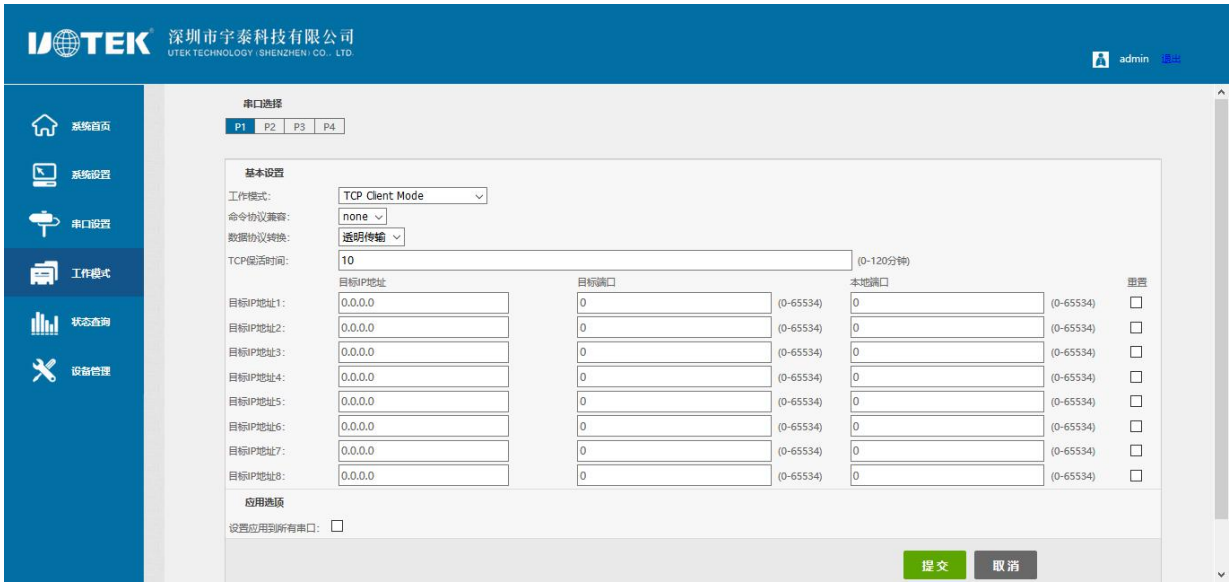
Operating mode	Operating mode option
Command protocol compatibility	No other compatible protocol
Data protocol conversion	Only transparent transmission is supported for now
Listening port	Set the command side of the serial port (range 0-65534)
Maximum number of connection	Number of hosts connected to the device (up to eight)
TCP preservation time	Set the retention time for TCP connection
Submit,Cancel	Submit (after setting the above options, you need to click "Submit" to check whether the parameters are compliant and save the page, if the parameters are set to the device in accordance with the rules), cancel (no changes)

Apply to all serial ports	Apply all serial ports (you can check this if the settings for each serial port are the same)



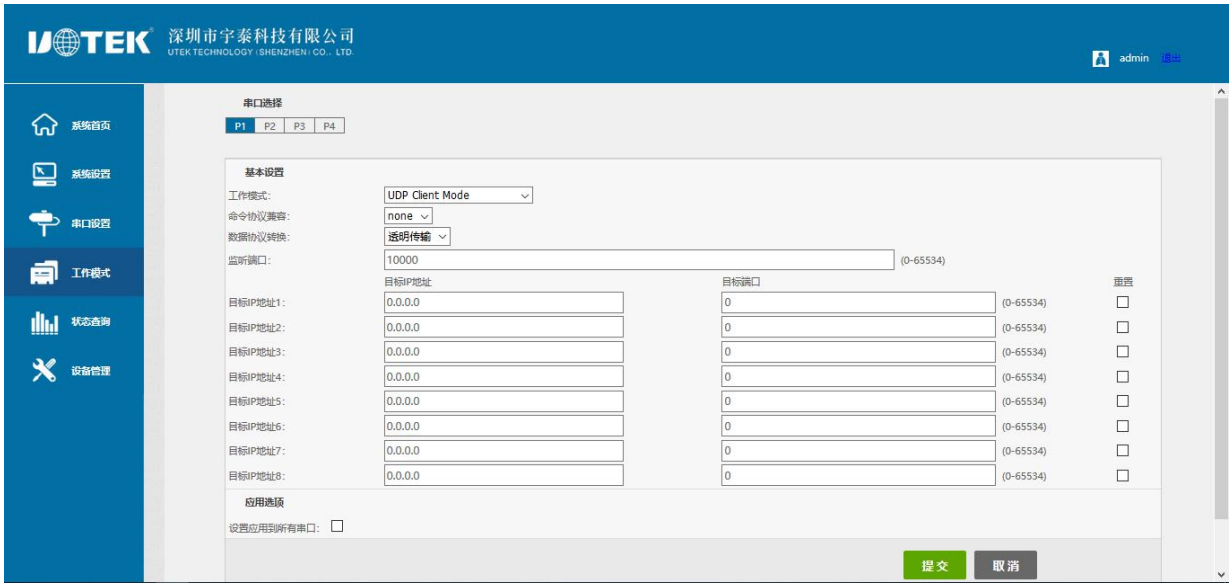
2,TCP Client Model（TCP Client Mode）

Operating mode	Operating mode option
Command protocol compatibility	No other compatible protocol
Data protocol conversion	Only transparent transmission is supported for now
TCP preservation time	Set the retention time for TCP connection
Target IP address	设置连接的目标主机的 IP 地址
Target port	Set the IP address of the connected target host
Local Port	Set the local port number of the serial port service
Submit,Cancel	Submit (after setting the above options, you need to click "Submit" to check whether the parameters are compliant and save the page, if the parameters are set to the device in accordance with the rules), cancel (no modification)
Apply to all serial ports	Apply all serial ports (if the settings are the same for each serial port, you can check the sub-item)



3,UDP Client Model（UDP Client mode）

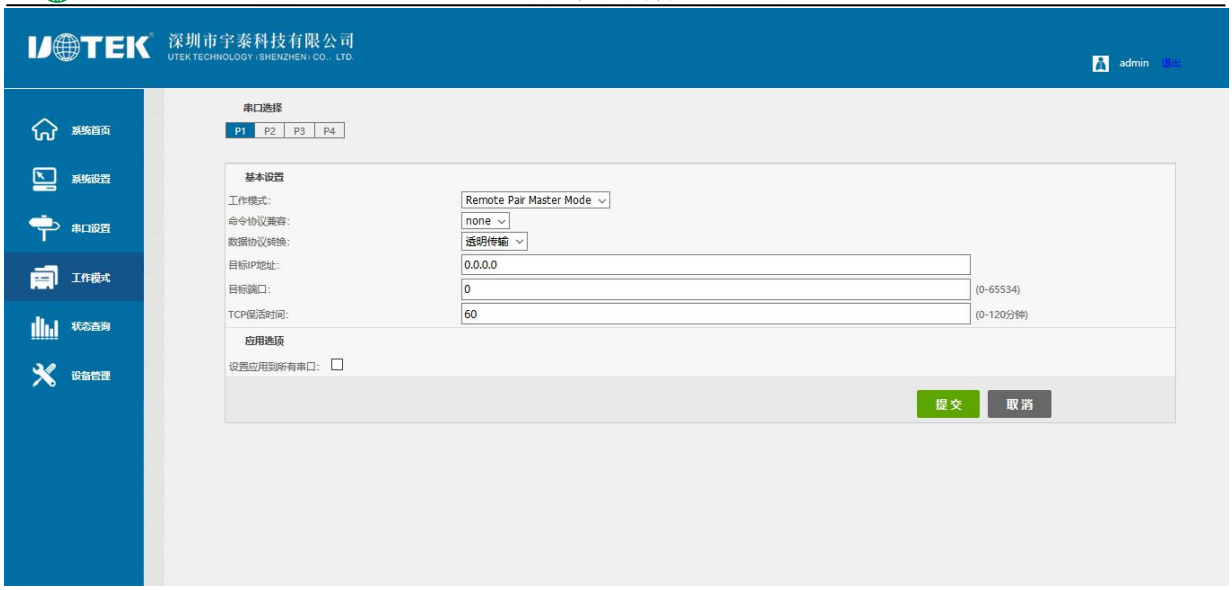
Operating mode	Operating mode option
Command protocol compatibility	No other compatible protocols
Data protocol conversion	Only transparent transmission is supported for now
TCP preservation time	Set the retention time for TCP connections
Target IP address	Set the IP address of the connected target host
Target port	Set the target port for the connection
Submit,Cancel	Submit (after setting the above options, you need to click "Submit" to check whether the parameters are compliant and save the page, if the parameters are set to the device in accordance with the rules), cancel (no modification)
Apply to all serial ports	Apply all serial ports (if the settings are the same for each serial port, you can check the sub-item)



4,Remote Pair Master Mode

In this mode, the device creates a TCP client service and only supports connecting a TCP server service for communication

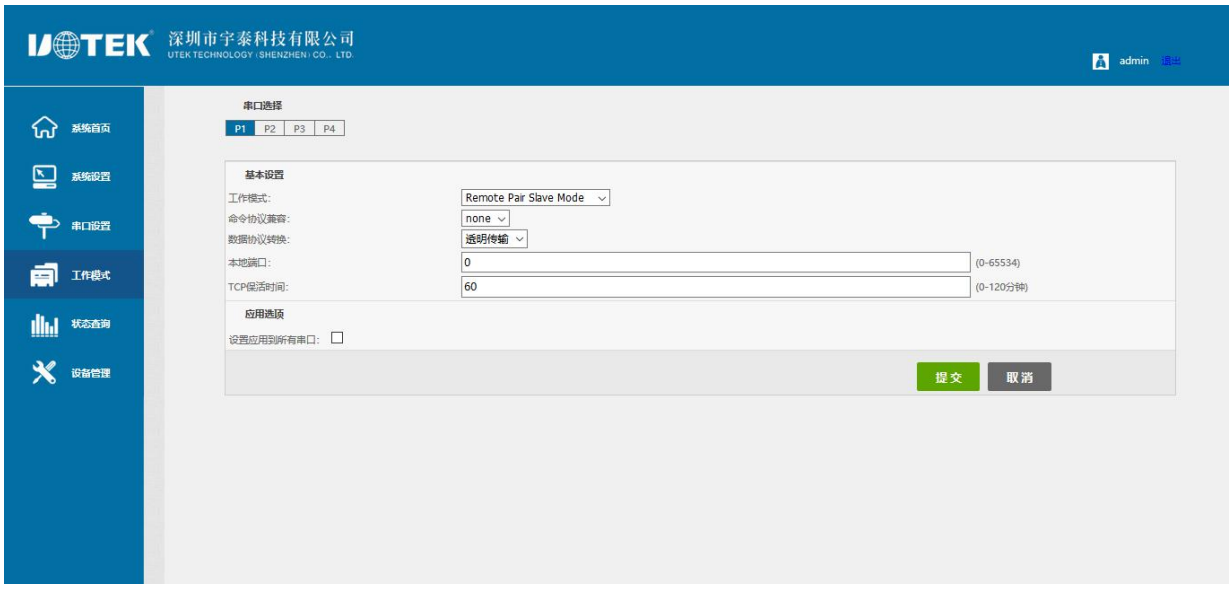
Operating mode	Operating mode option
Command protocol compatibility	No other compatible protocols
Data protocol conversion	Only transparent transmission is supported for now
TCP preservation time	Set the retention time for TCP connections
Target IP address	Set the IP address of the connected target host
Target port	Set the target port for the connection
Submit,Cancel	Submit (after setting the above options, you need to click "Submit" to check whether the parameters are compliant and save the page, if the parameters are set to the device in accordance with the rules), cancel (no modification)
Apply to all serial ports	Apply all serial ports (if the settings are the same for each serial port, you can check the sub-item)



5,Remote Pair Slave Mode

The device in this mode creates a TCP server service and supports only one TCP client service for connection communication.

Operating mode	Operating mode option
Command protocol compatibility	No other compatible protocols
Data protocol conversion	Only transparent transmission is supported for now
TCP preservation time	Set the retention time for TCP connections
Local Port	Set the port number for the device to create a TCP server
Submit,Cancel	Submit (after setting the above options, you need to click "Submit" to check whether the parameters are compliant and save the page, if the parameters are set to the device in accordance with the rules), cancel (no modification)
Apply to all serial ports	Apply all serial ports (if the settings are the same for each serial port, you can check the sub-item)

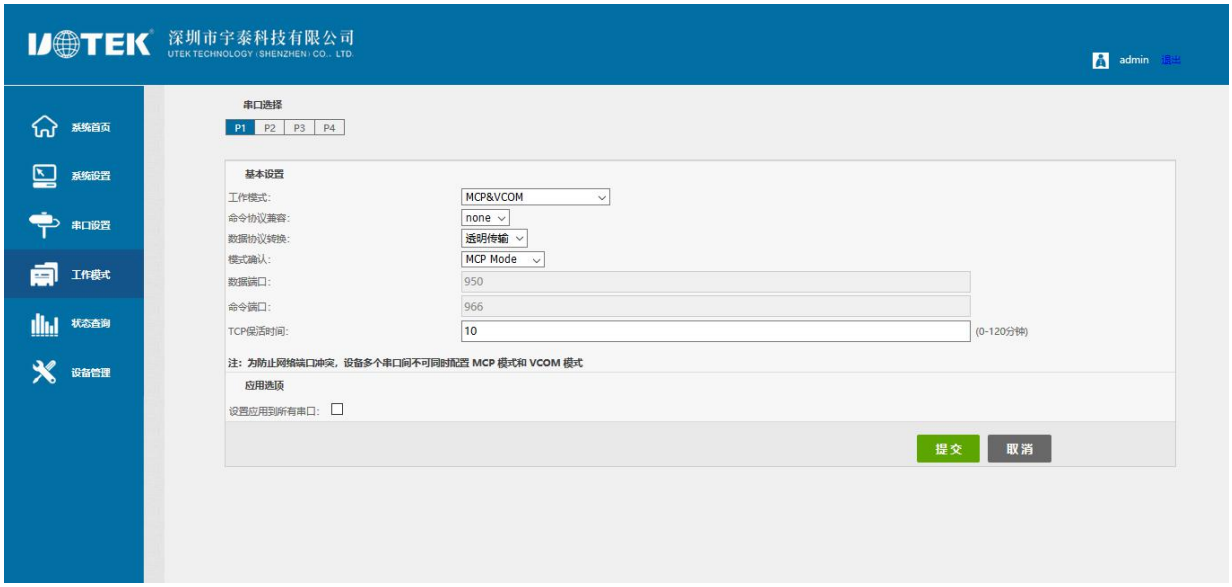


6、MCP&VCOM Mode(TCP/IP virtual serial port mode)

TCP/IP virtual serial port mode works in the windows system environment, through the driver to map the port on the serial server into a virtual COM port of the local host, so that the original COM port-based operation of the upper software without any modification as if the application of the local real COM port, the driver can support up to extend to COM1024, making the monitoring of serial devices More flexible and convenient, multiple connection resources can also do connection

backup.

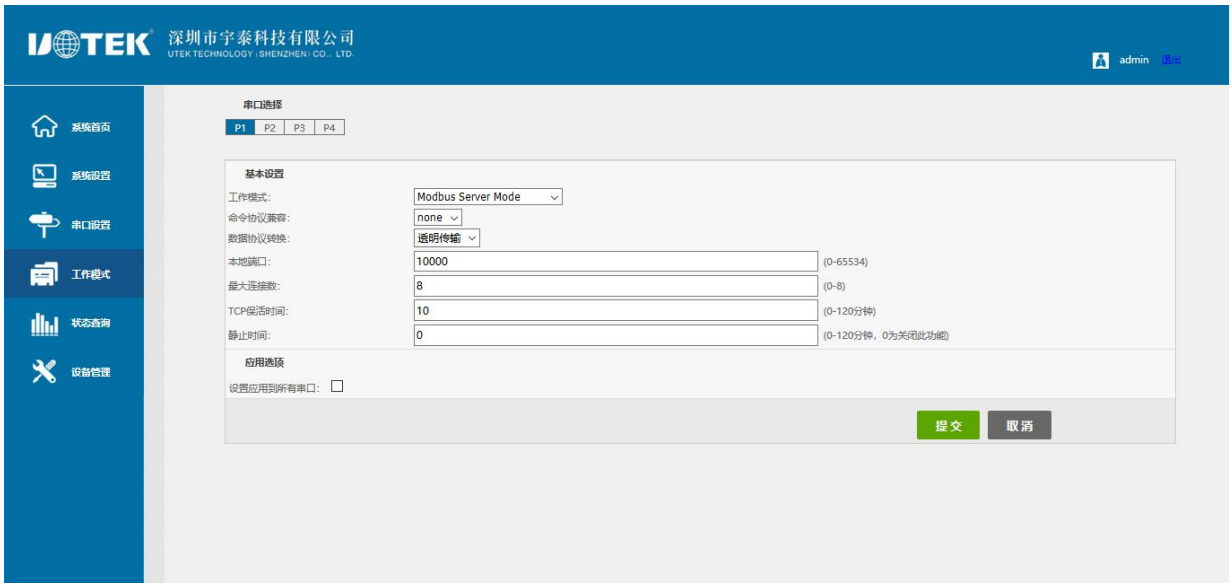
Operating mode	Operating mode option
Command protocol compatibility	No other compatible protocols
Data protocol conversion	Only transparent transmission is supported for now
TCP preservation time	Set the retention time for TCP connections
Pattern Confirmation	Since the MCP and VCOM modes correspond to different virtual serial software, you need to confirm one of them when selecting this mode
Data Port	This is the port corresponding to the virtual serial port software driver for data communication (not configurable)
Command Port	This is the port that corresponds to the virtual serial port software driver for monitoring the connection status (not configurable)
Submit,Cancel	Submit (after setting the above options, you need to click "Submit" to check whether the parameters are compliant and save the page, if the parameters are set to the device in accordance with the rules), cancel (no modification)
Apply to all serial ports	Apply all serial ports (if the settings are the same for each serial port, you can check the sub-item)



7、Modbus Server Mode

此模式下设备创建 TCP 服务端模式，数据协议为标准 Modbus-RTU 帧格式进行通讯，以太网络作为 Modbus 主站，串口端作为 Modbus 从站。

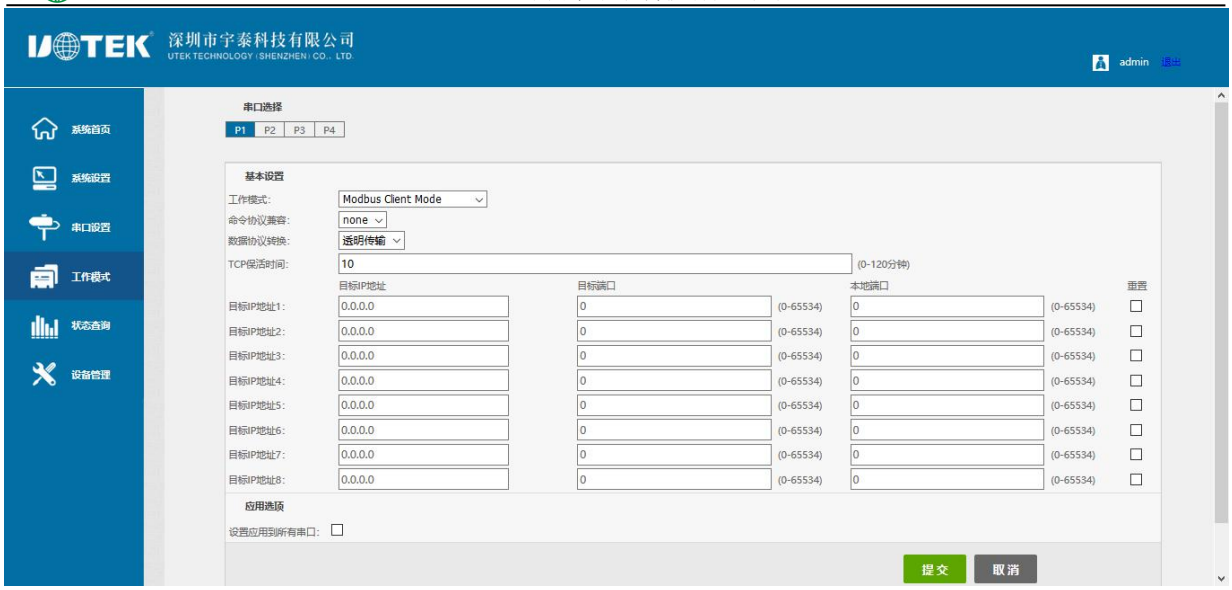
工作模式	工作模式选项
命令协议兼容	暂无其它兼容协议
数据协议转换	暂只支持透明传输
TCP 保活时间	设置 TCP 连接的保活时间
本地端口	设置创建 TCP 服务端业务时本地端口号
最大连接数	设置最大连接数
静止时间	设置静止时间，当在设置时间内无数据通信则 Server 端主动断开 Client 端连接
提交,取消	提交（设置完以上选项后需要点击“提交”检查参数是否合规并保存页面，如果参数合规则设置到设备）,取消（不作修改）
应用到所有串口	应用所有串口（如果每个串口的设置一样，可以勾选次项）



8、Modbus Clinet Mode

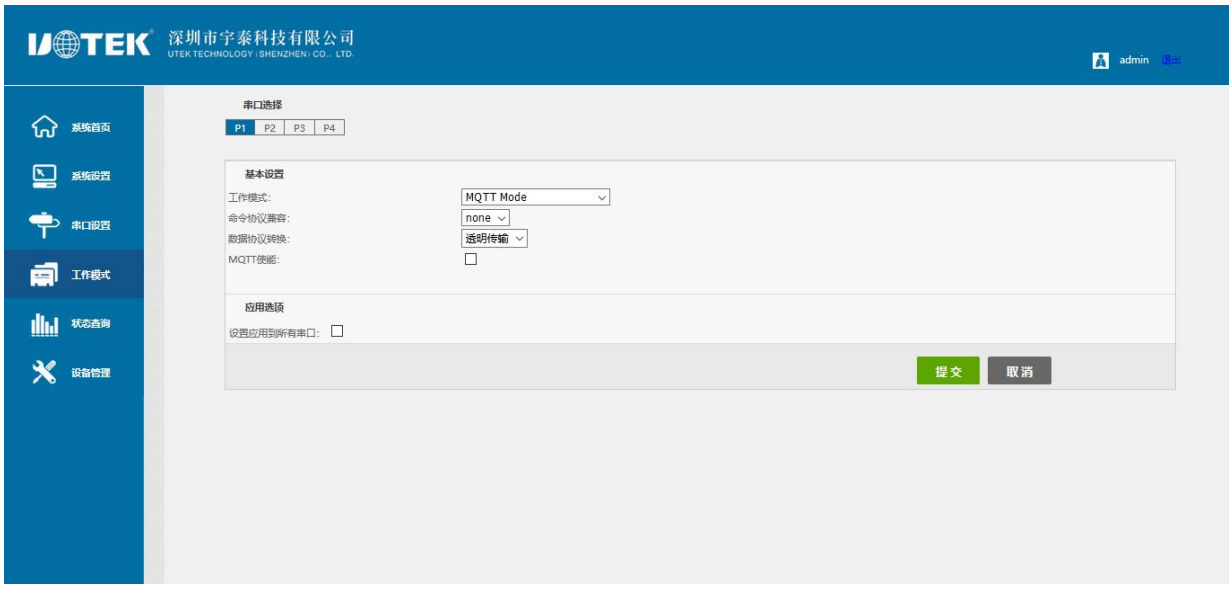
此模式下设备创建 TCP 客户端模式，数据协议为标准 Modbus-RTU 帧格式进行通讯，以太网络作为 Modbus 从站，串口端作为 Modbus 主站。

工作模式	工作模式选项
命令协议兼容	暂无其它兼容协议
数据协议转换	暂只支持透明传输
TCP 保活时间	设置 TCP 连接的保活时间
目标 IP 地址	设置服务端 IP 地址
目标端口	设置服务端端口号
本地端口	设置设备本地创建客户端时绑定的端口号
重置	取消当前行配置信息便以重新输入
提交,取消	提交（设置完以上选项后需要点击“提交”检查参数是否合规并保存页面，如果参数合规则设置到设备）,取消（不作修改）
应用到所有串口	应用所有串口（如果每个串口的设置一样，可以勾选次项）



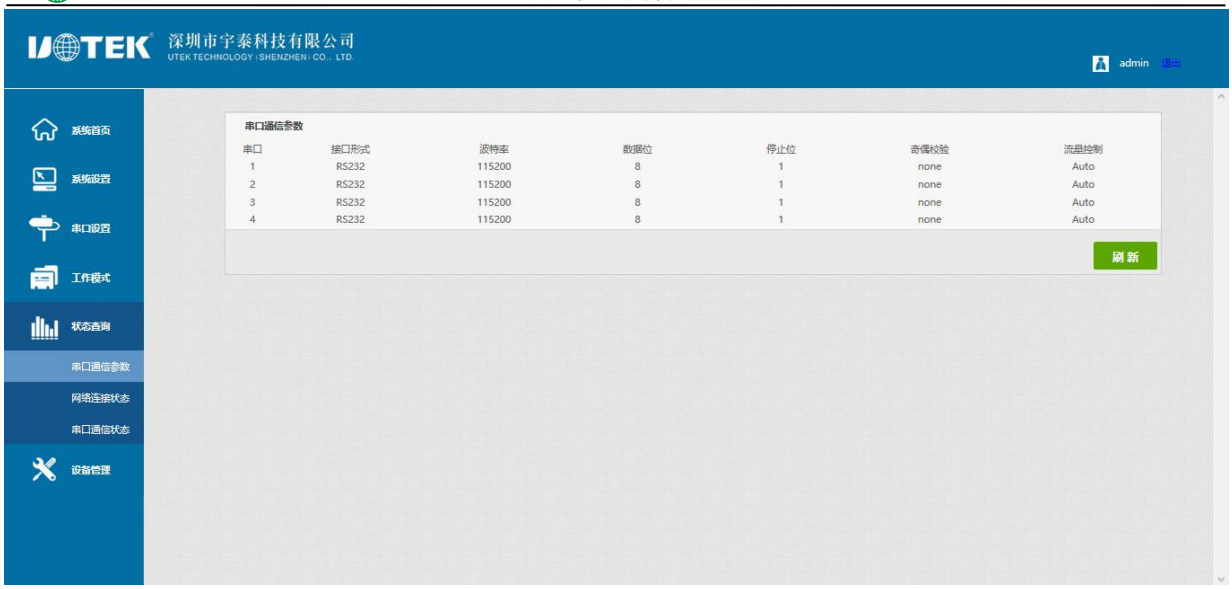
9、MQTT Mode

工作模式	工作模式选项
命令协议兼容	暂无其它兼容协议
数据协议转换	暂只支持透明传输
MQTT 使能	设置当前串口工作于 MQTT 业务使能
提交,取消	提交（设置完以上选项后需要点击“提交”检查参数是否合规并保存页面，如果参数合规则设置到设备）,取消（不作修改）
应用到所有串口	应用所有串口（如果每个串口的设置一样，可以勾选次项）

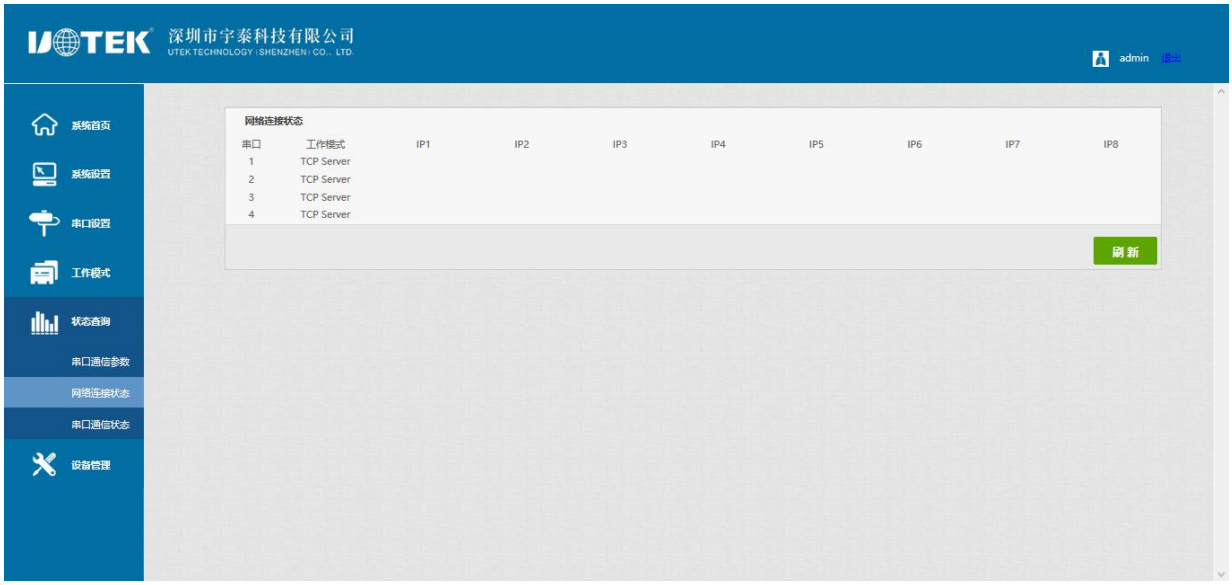


e）状态查询

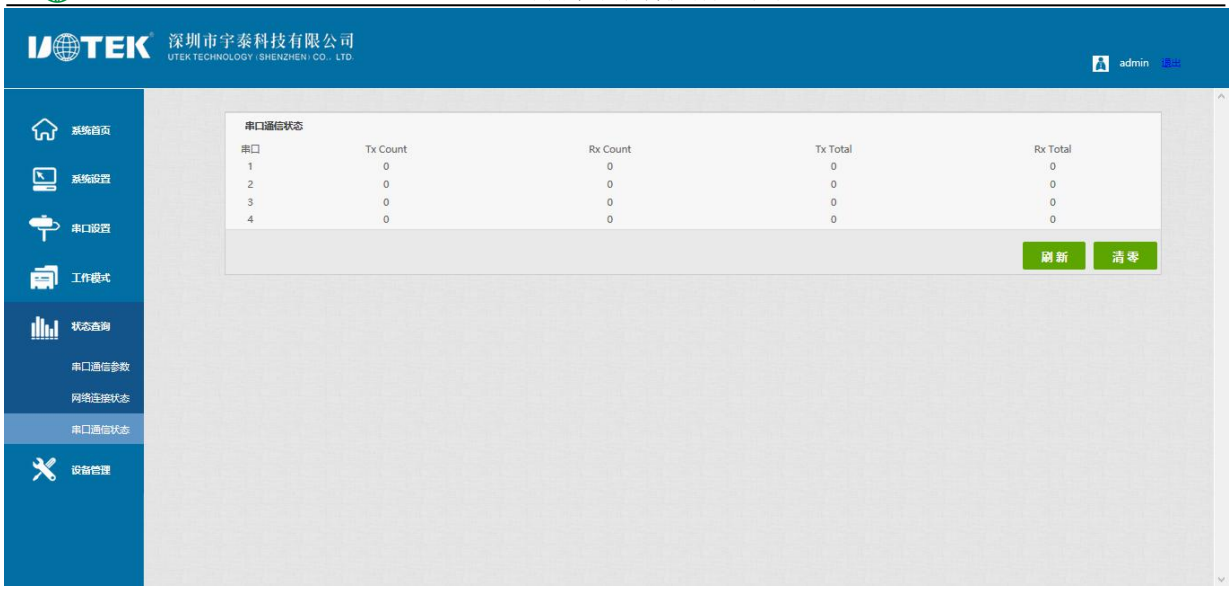
串口通信参数	查看串口接口形式,波特率,数据位,停止位,奇偶校验,流量控制相关参数，点“刷新”更新到最新状态
网络连接状态	查看串口的网络连接状态，点“刷新”更新到最新状态
串口通信状态	查看串口的通信状态，点“刷新”更新到最新状态



串口通信参数



网络连接状态



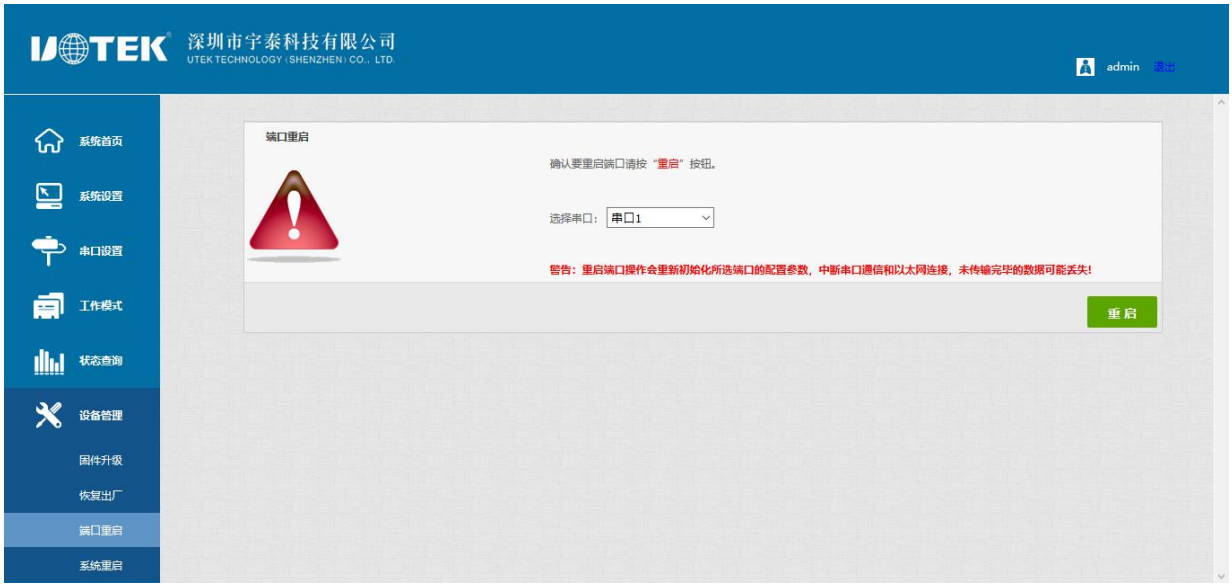
串口通信状态

f）设备管理

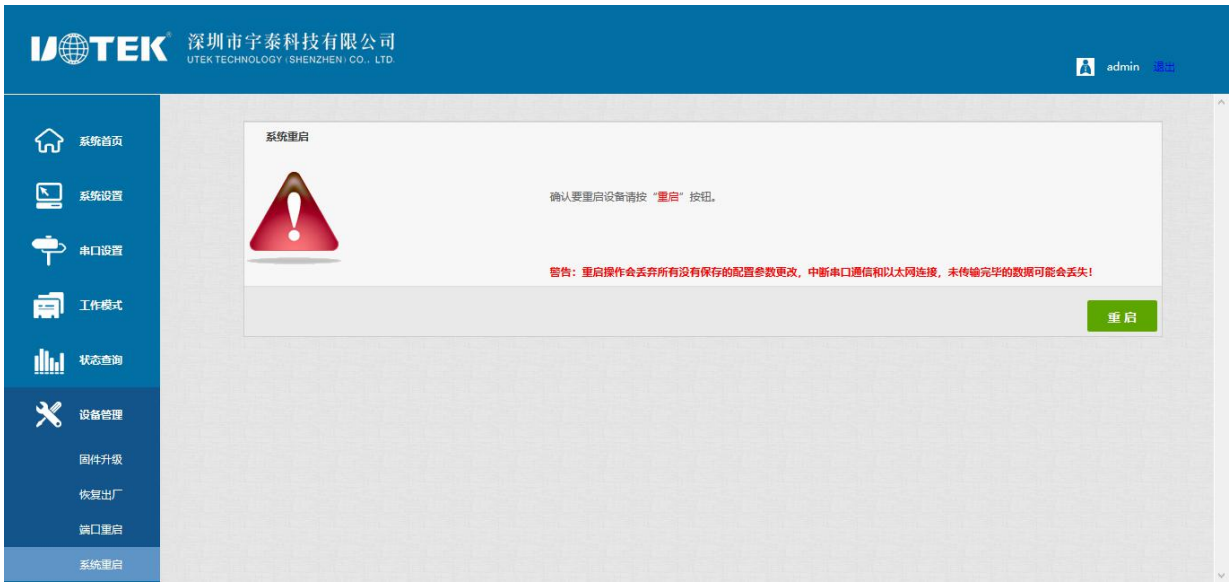
固件升级	选择本地的新版本软件包，点击开始进行上传文件信息升级设备
恢复出厂	点击“恢复出厂设置”，串口服务器则恢复到出厂默认设置
端口重启	勾选需要重启的端口，提交之后重新启动该端口
系统重启	点击“重启”，重新启动串口服务器。

固件升级

恢复出厂



端口重启



系统重启

第五章：UT-680X 系列串口服务器故障排除说明

a) 运行 serial_ethernet_connector_CH.exe 搜索不到串口服务器的 IP 地址

1,首先检查物理连接是或正常,网线(区分交叉线和直连线)和电源是否有接,观察电源指示灯,LAN 灯,ACT(接在 10M 网络时,此灯不亮,100M 时才亮)

2,主机网卡是或可用,能不能与其它本地其它主机通讯.

3,关闭一切能屏蔽广播包的工具和软件(不要开启系统自带的防火墙)

4,在通过浏览器进入配置,设置 IP 的时候突然异常断开比如:断电,之后就没能搜索到设备,通过 console 口进入配置重设 IP.

b) 不能打开串口

1,确保网络工作状态的正常,能 ping 通服务器

2,查看虚拟串口有没有建立成功

3,查看工作状态看端口是否被占用

4,到注册表中删除相应的 COM 口重新映射

c) 不能收发数据

1,确保能够正常打开串口

2,观察[串口转以太网工具]→[connected to 0 from 1]下的 IP 与端口号是否提示“已连接”，如没有增长检查串口与上端网络的连接

3,观察[串口转以太网工具]→[connected to 0 from 1]下的“已发送”与“已接收”值有没有增长，如没有增长检查串口与上端网络的连接，如果“已发送”有增长，“已接收”没有增长测检测串口间的连接

d) 忘记之前设置的密码

1,通过按住”reset”按钮 5 秒再放开，设备进入恢复出厂设置，当 RUN 灯重新恢复 1s 间隔慢闪后，设备恢复出厂设置完成，此时可用出厂初始账户密码 admin：admin 登录系统，出厂 IP 地址为静态：192.168.1.125。

e) 收发数据是乱码

1,检查接线是否正确,我们 485 的设备要注意并线的问题.

2,检查线距离是否有超过标准距离和线的质量(也可通过加长线收发器或者光隔)

3,检查设置的串口参数（波特率,数据位,停止位,校验位等）是否与底端设备匹配

4,脱离客户的上端软件,用网络或者串口调试助手能不能收到正常的数据,如果能收到正常的数据,可能问题与打包机制有关可以到” 串口设置”中设置打包的长度和打包的等待时间.

f）作为 TCP server 时不能被连接

1,确认没有别的 PC 与串口通讯服务器的相应端口有连接：进入串口通讯服务器的[统计]查看[活动 TCP 信息]

2,[详细参数]中的[认证]是否为[none]

如果以上方式均不能解决您的问题，请与厂家联系

第六章：附件

a）remote devices Management

1,设备查询

设备串口工作于 MCP&VCOM->VCOM Mode 并连接好设备，启动附送软件“VCOM”（如下图 1），选择 remote devices Management->Add Device，弹出查找所在网络的所有 UT-680X 系列 IP 的查找界面；如图 2 所示， 选择“Search”按钮，可以查找所在网络的所有 UT-680X 系列 IP 地址及基本信息,如图 3 所示;再选择图 3 中“cancel”，得到图 4 的设备信息列表，点击 OK 即可在 VCOM 界面显示查找设备信息，如图 5 所示设备已添加；

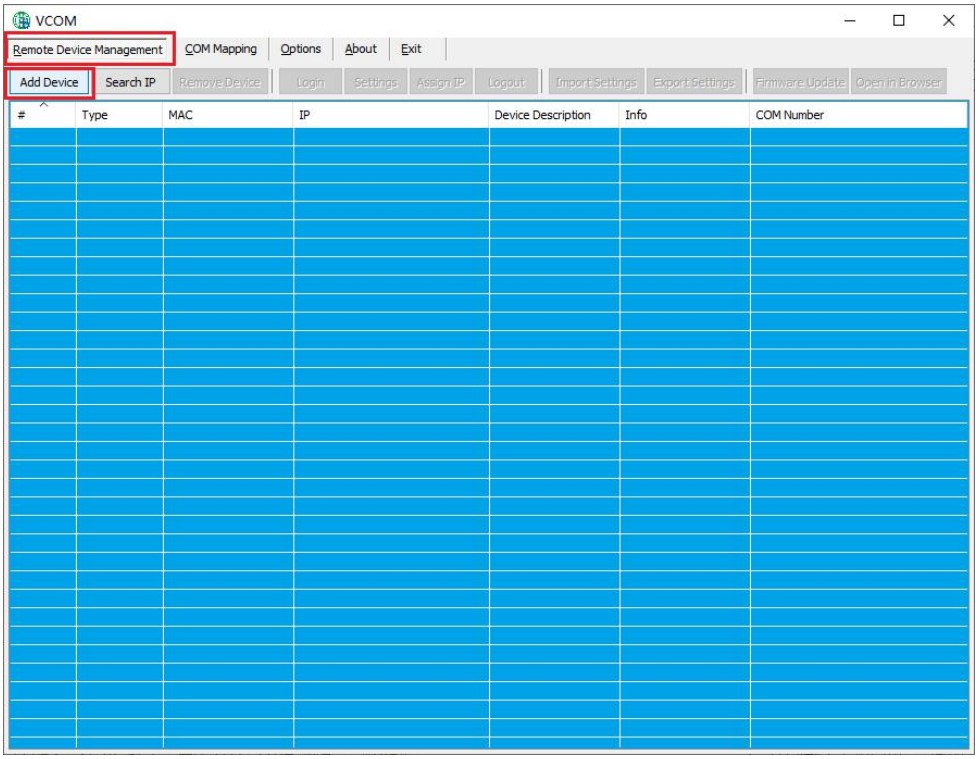

VCOM
Remote Device Management
COM Mapping
Options
About
Exit
Add Device
Search IP
Remove Device
Login
Settings
Assign IP
Logout
Import Settings
Export Settings
Firmware Update
Open in Browser
#
Type
MAC
IP
Device Description
Info
COM Number

图 1

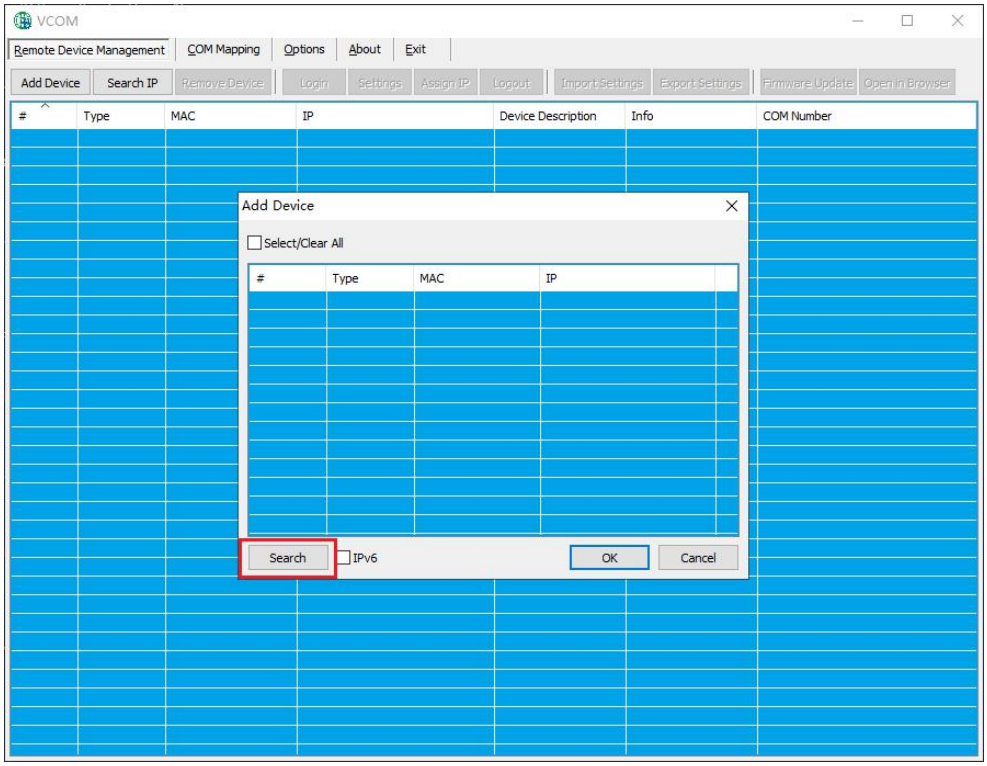

VCOM
Remote Device Management
COM Mapping
Options
About
Exit
Add Device
Search IP
Remove Device
Login
Settings
Assign IP
Logout
Import Settings
Export Settings
Firmware Update
Open in Browser
#
Type
MAC
IP
Device Description
Info
COM Number
Add Device
Select/Clear All
#
Type
MAC
IP
Search
IPv6
OK
Cancel

图 2

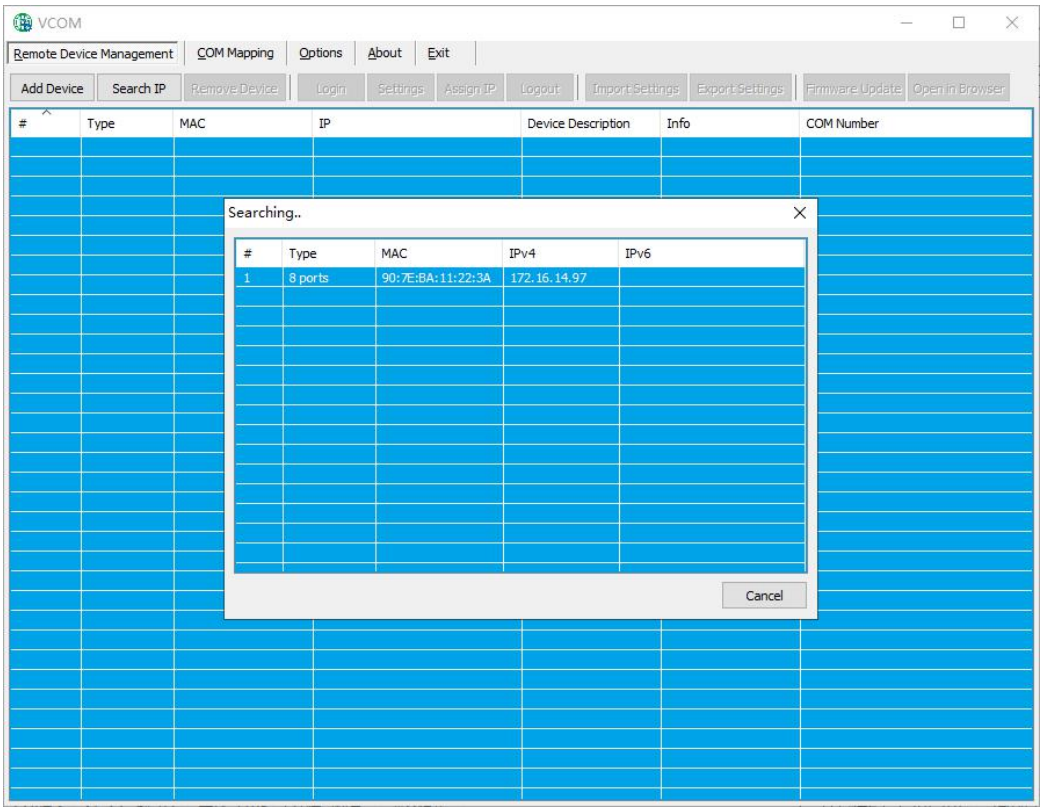

VCOM
Remote Device Management
COM Mapping
Options
About
Exit
Add Device
Search IP
Remove Device
Login
Settings
Assign IP
Logout
Import Settings
Export Settings
Firmware Update
Open in Browser
Type MAC IP Device Description Info COM Number
Searching..
Type MAC IPv4 IPv6
1 8 ports 90:7E:BA:11:22:3A 172.16.14.97
Cancel

图 3

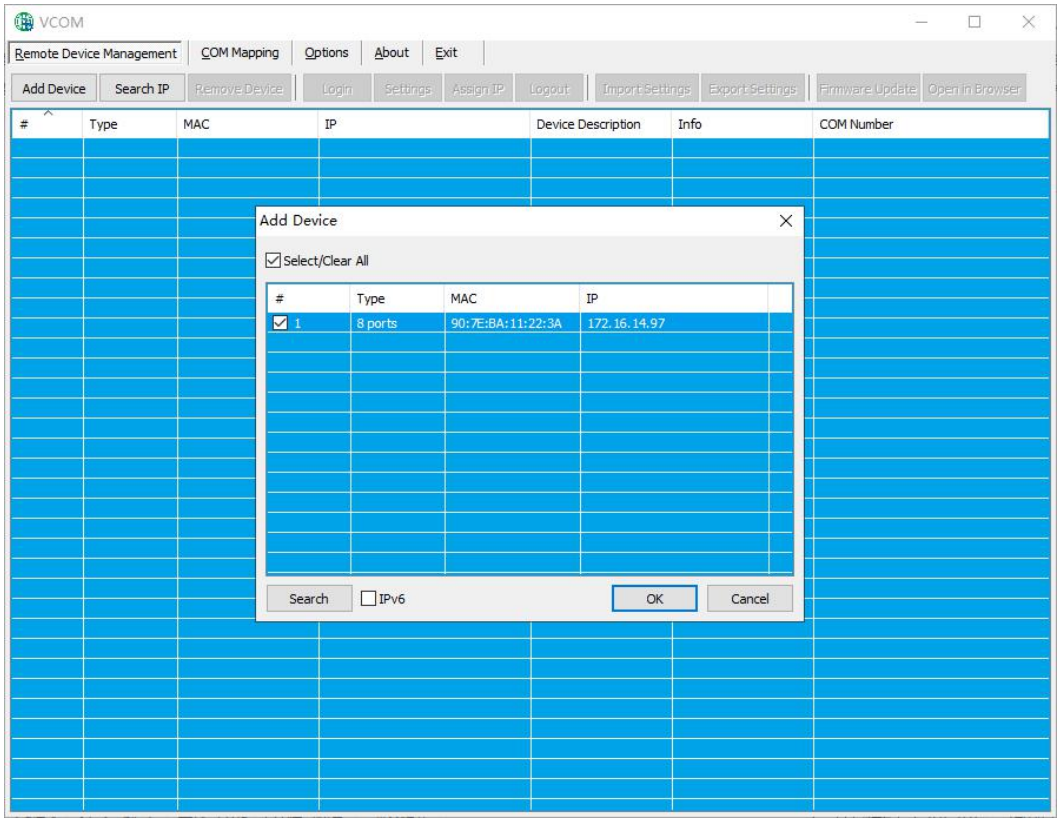

VCOM
Remote Device Management
COM Mapping
Options
About
Exit
Add Device
Search IP
Remove Device
Login
Settings
Assign IP
Logout
Import Settings
Export Settings
Firmware Update
Open in Browser
Type MAC IP Device Description Info COM Number
Add Device
Select/Clear All
Type MAC IP
1 8 ports 90:7E:BA:11:22:3A 172.16.14.97
Search
IPv6
OK
Cancel

图 4

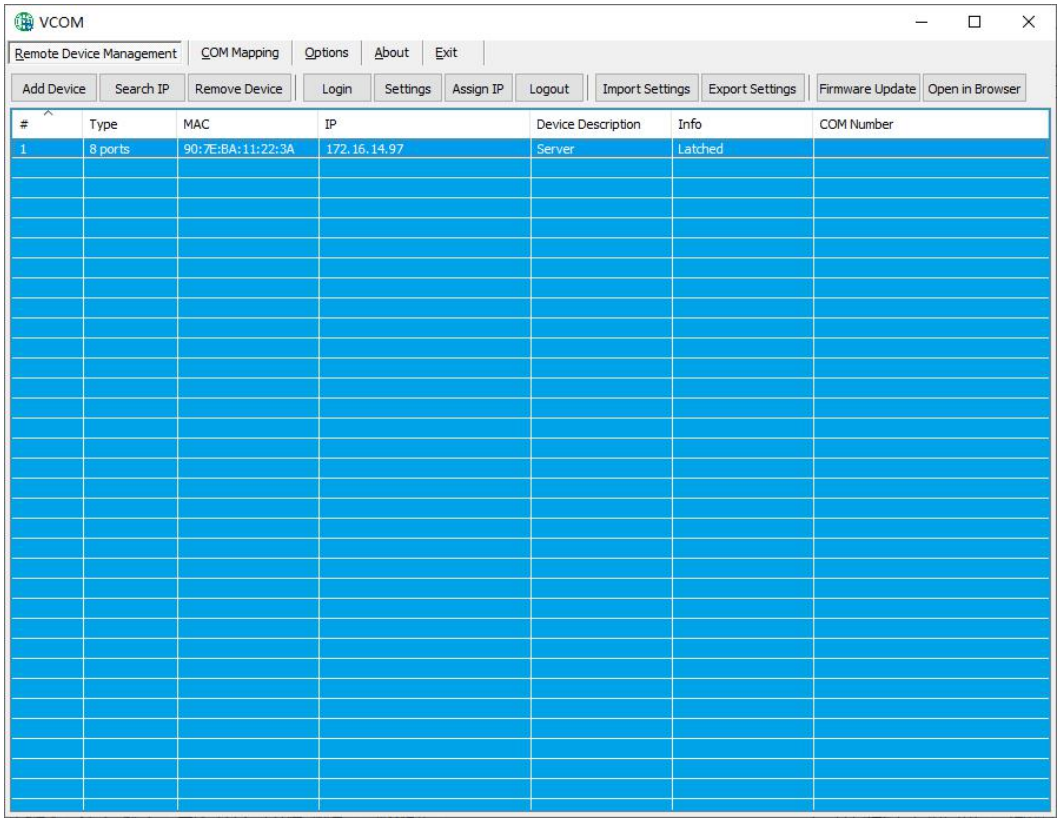


图 5

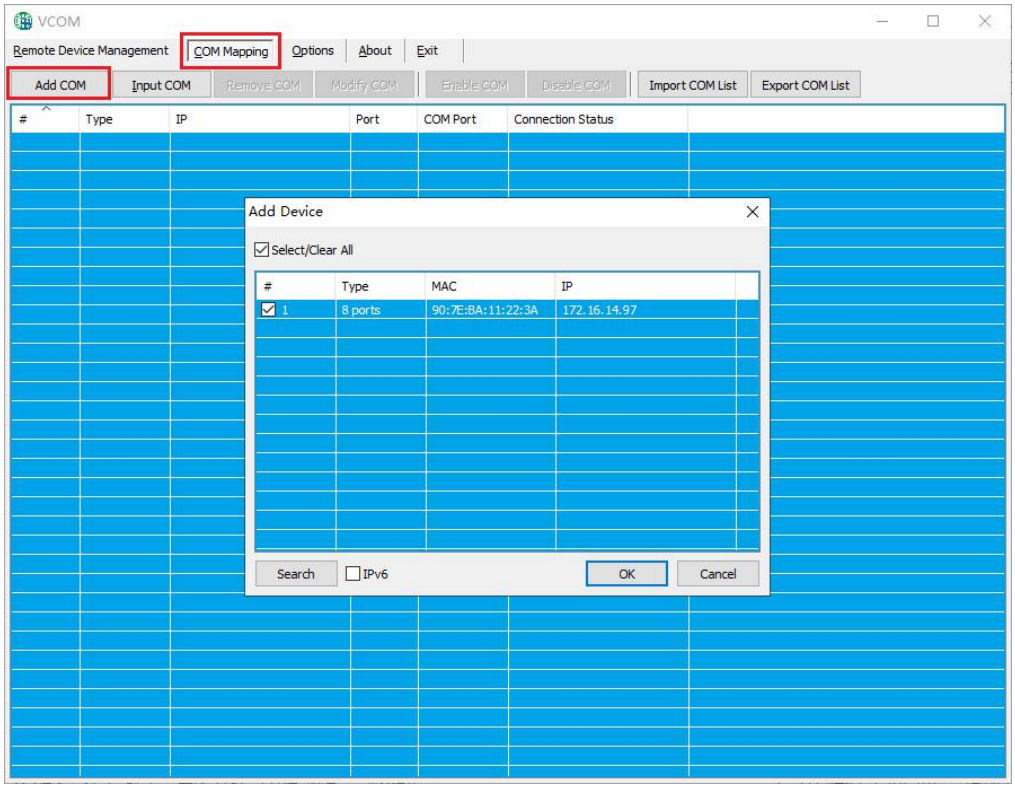
2,跳转网页登录

在软件“VCOM”中，先选中已添加的设备，后选择 remote devices Management 界面中，点击“Open in Browser”，即可通过 IE 浏览器进入网页登录界面。

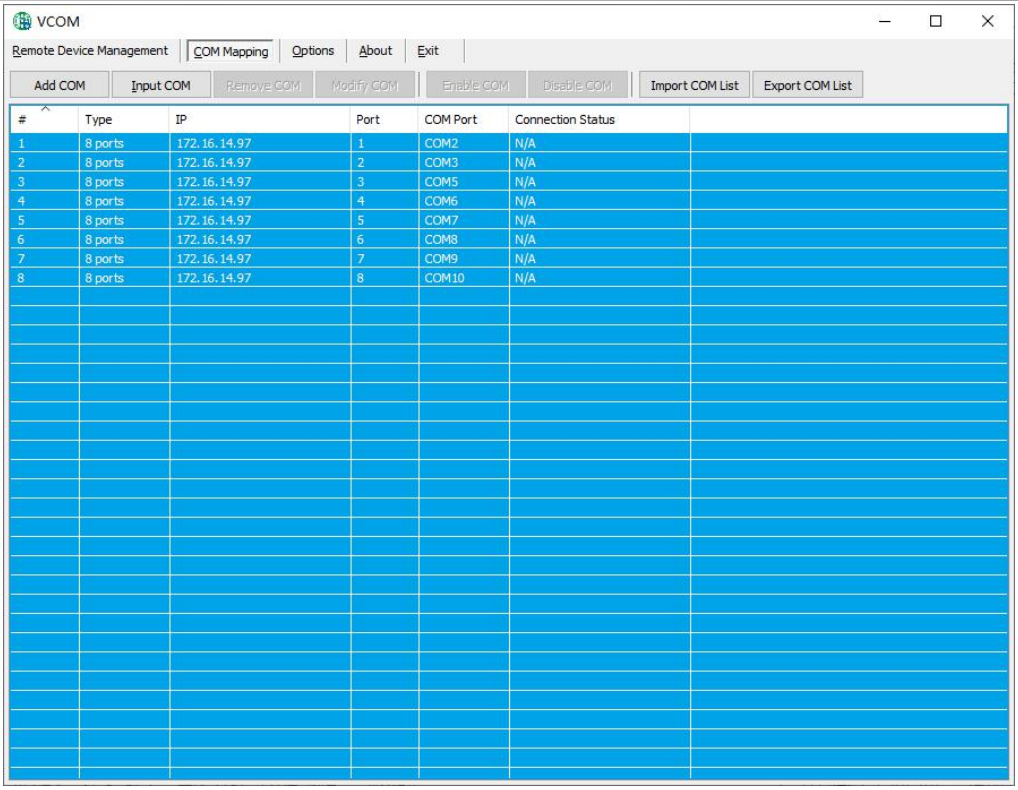
b） COM Mapping

1） **创建虚拟串口**

1,在软件“VCOM”中，选择 COM Mapping—Add COM，弹出“Add Device”窗口,如下图，再点击 OK。

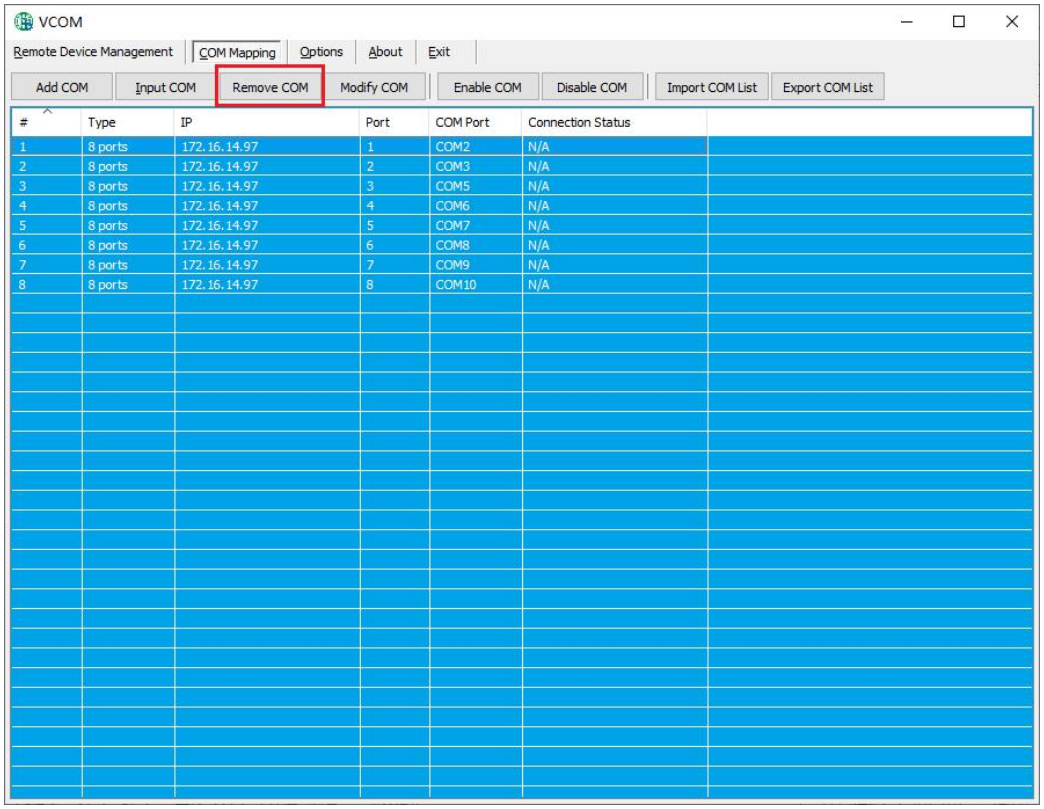


2,之后会弹出如下图界面，即创建好对应的虚拟串口



2） **删除虚拟串口**

在软件“VCOM”中，首先选中所需要删除的虚拟串口，再选择 COM Mapping 界面中，点击“Remove COM”即可删除虚拟串口，如下图所示



3） **修改虚拟串口**

在软件“VCOM”中，首先选中所需要删除的虚拟串口，再选择 COM Mapping 界面中，点击“Modify COM”弹出界面如下图 1 ，后选中“COM6”即可将 Port4 对应“COM6”修改为“COM11”，如图 2 所示：

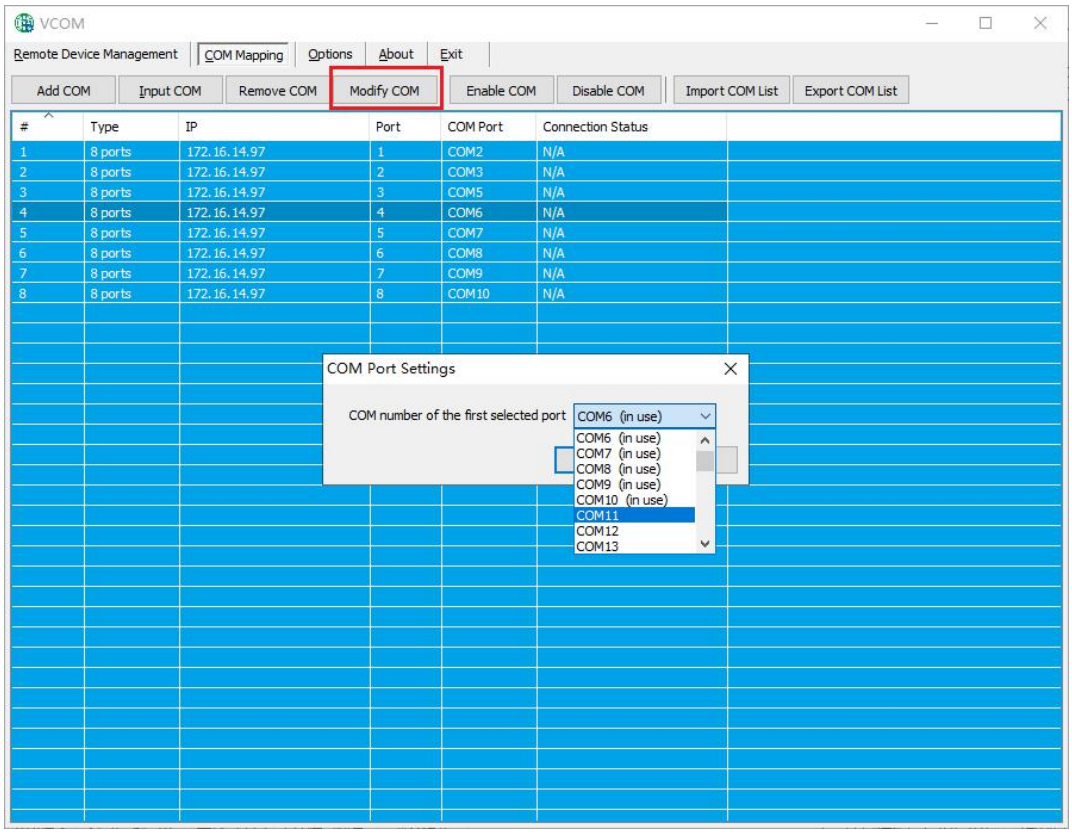


图 1

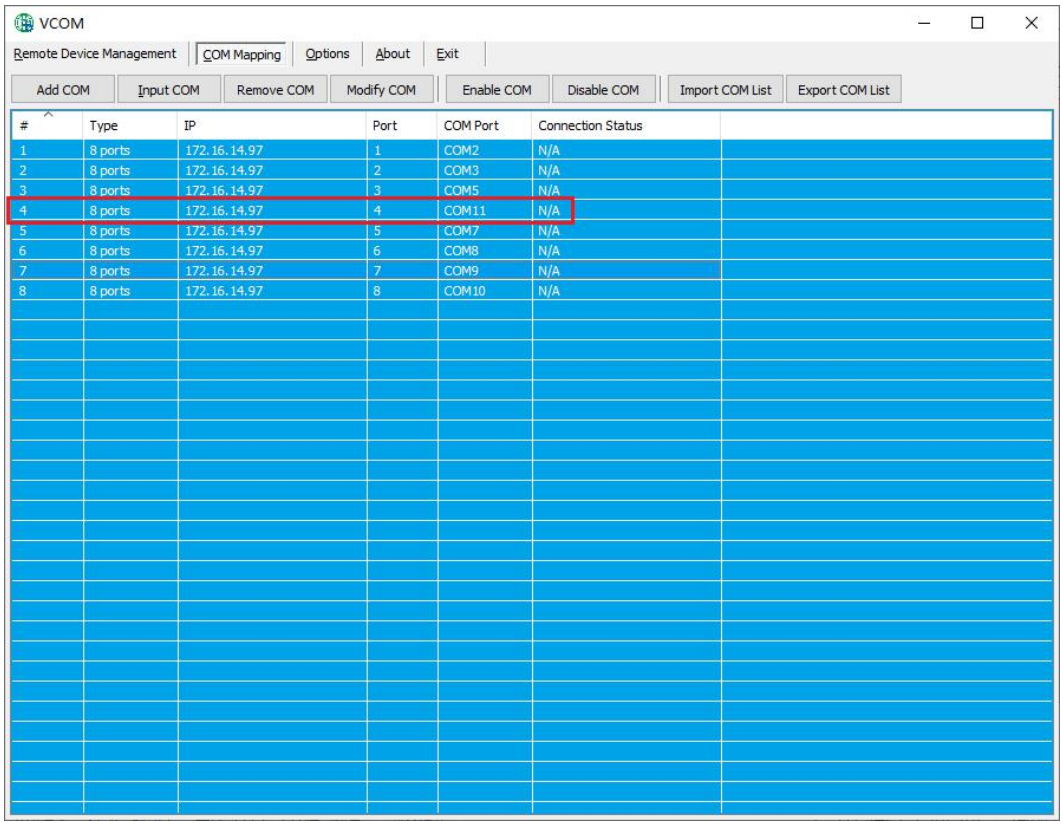
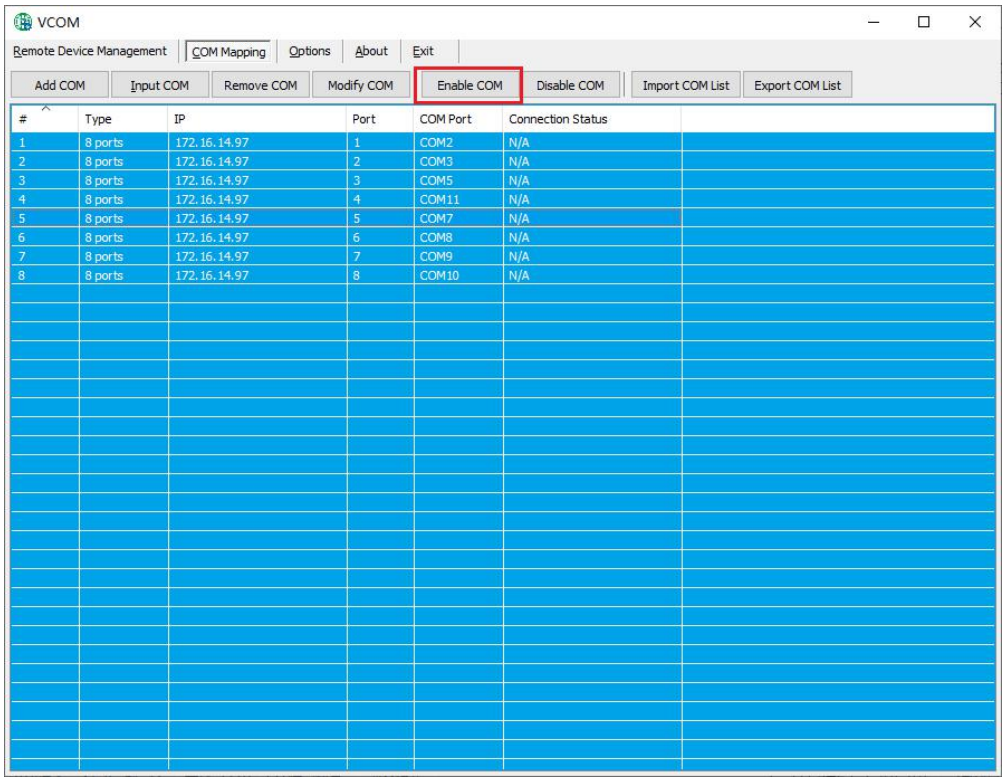


图 2

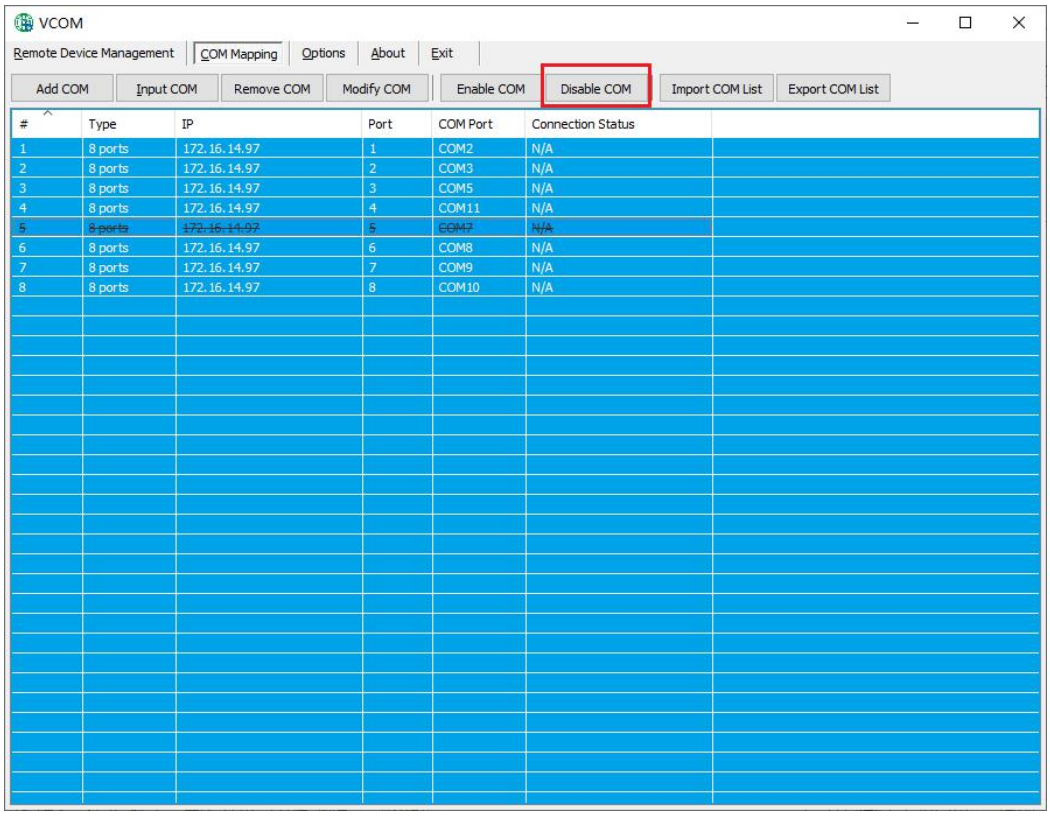
4） **启用虚拟串口**

在软件“VCOM”中，首先选中所需要禁用的虚拟串口，再选择 COM Mapping 界面中，点击“Enable COM”即可启用对应的虚拟串口，如下图所示



5） **禁用虚拟串口**

在软件“VCOM”中，首先选中所需要禁用的虚拟串口，再选择 COM Mapping 界面中，点击“Disable COM”即可禁用对应的虚拟串口，如下图所示



6） **导入虚拟串口列表**

在软件“VCOM”中，选择 COM Mapping 界面中，点击“Import COM List”弹出界面如下图 1 所示，点击“Browse”后，选择已保存的虚拟串口配置信息如图 2，点击“OK”后即可导入成功如图 3 所示

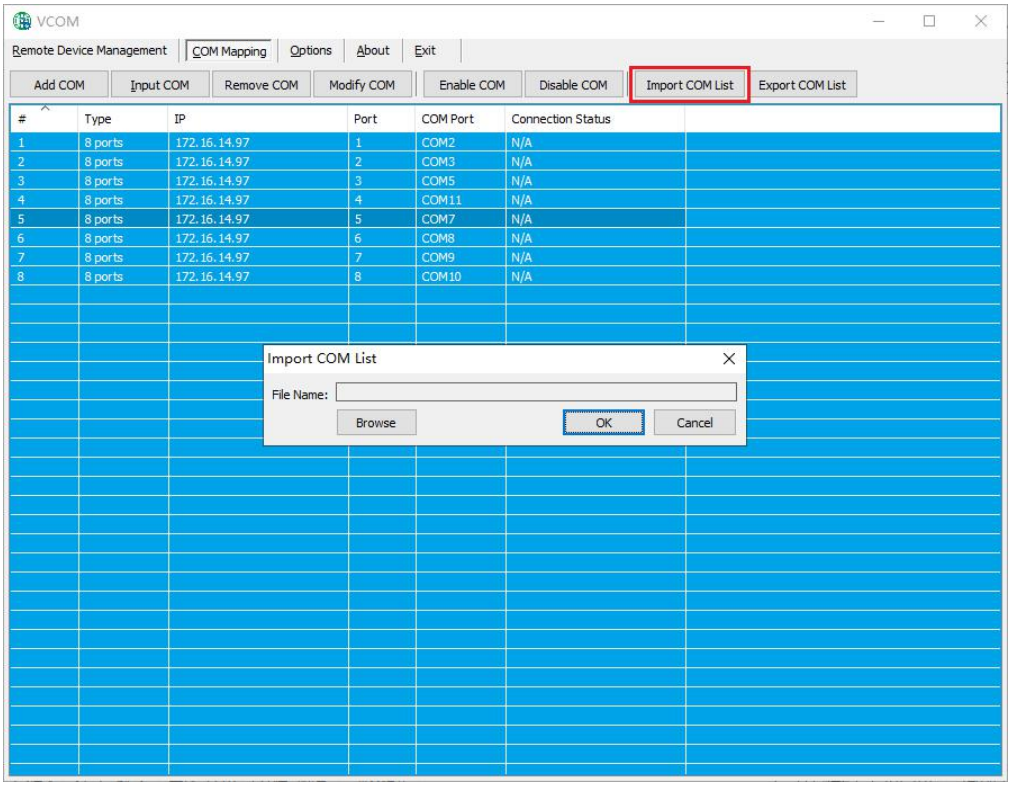


图 1

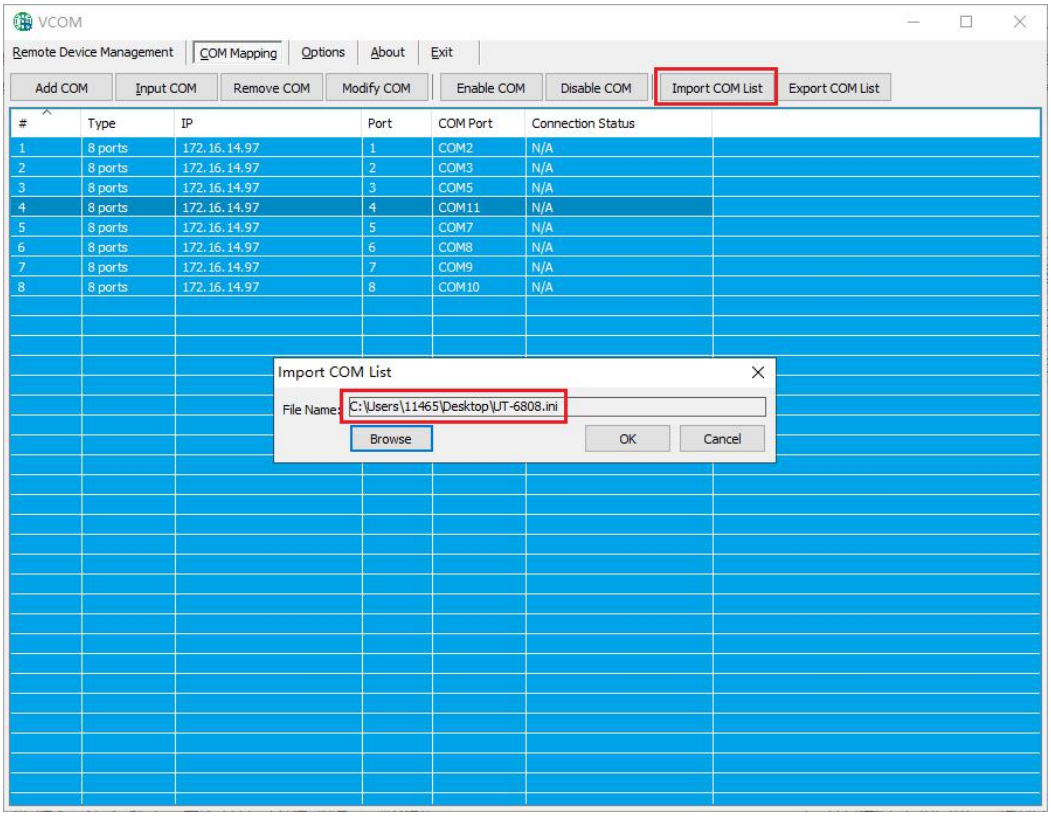


图 2

7） **导出虚拟串口列表**

软件“VCOM”中，选择 COM Mapping 界面中，点击“Export COM List”弹出界面如下图 1 所示，点击“Browse”后，选择要保存的虚拟串口配置信息路径，点击“OK”后即可导出成功如图 2 所示

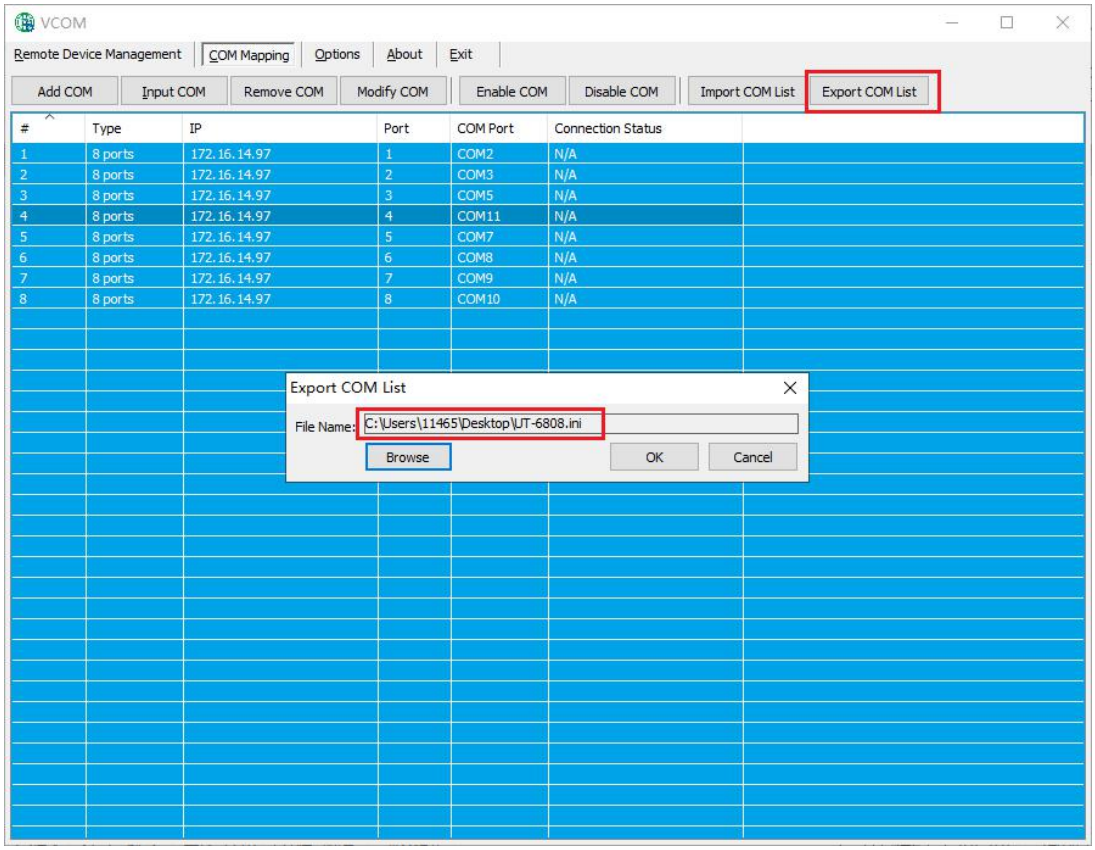


图 1

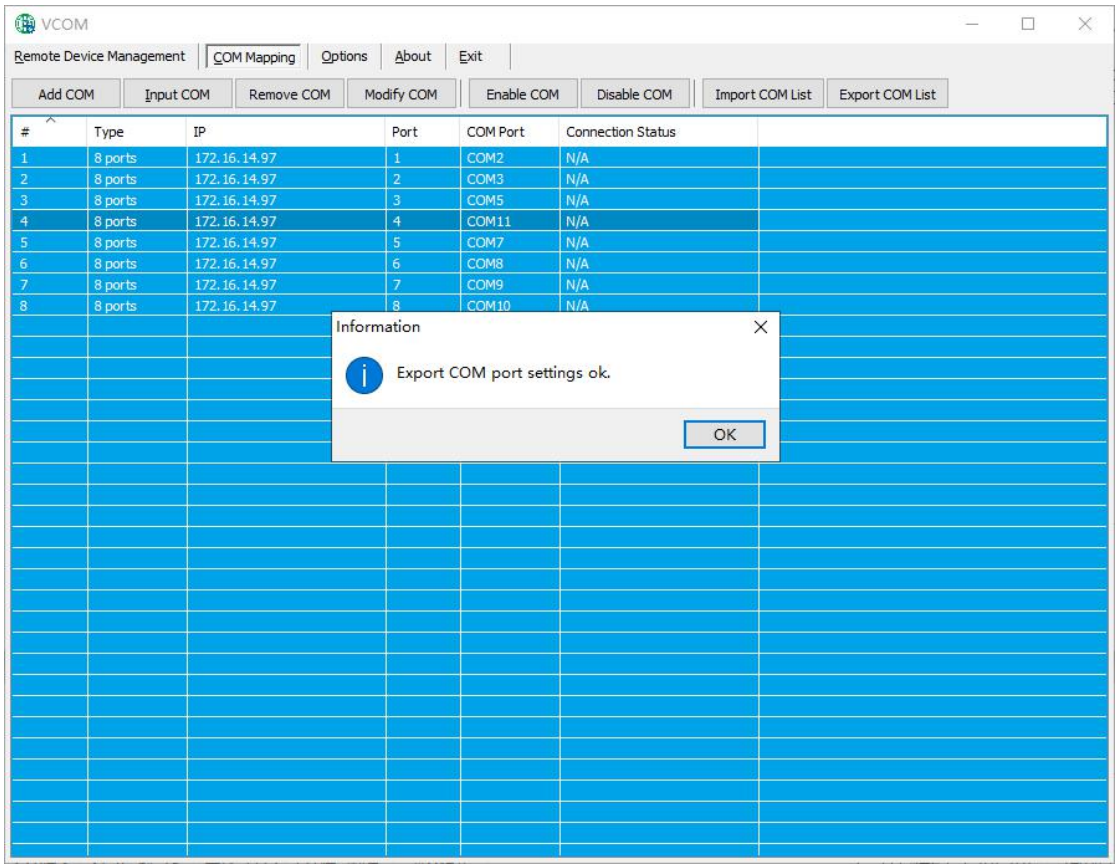
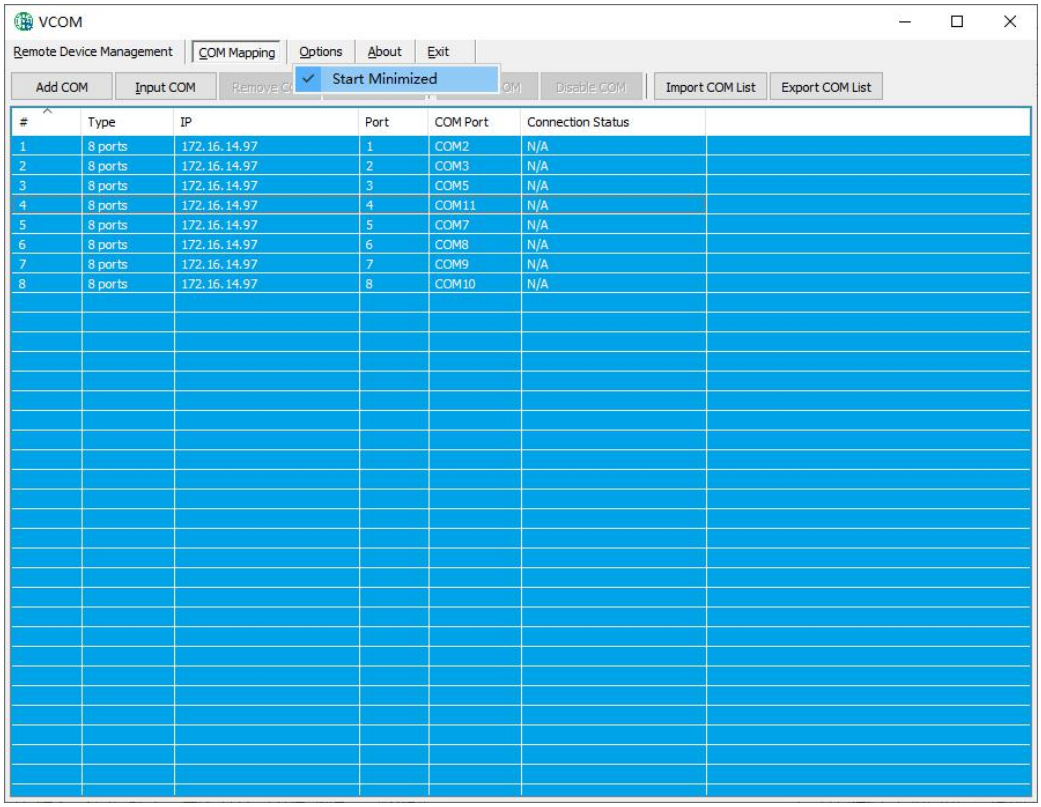


图 2

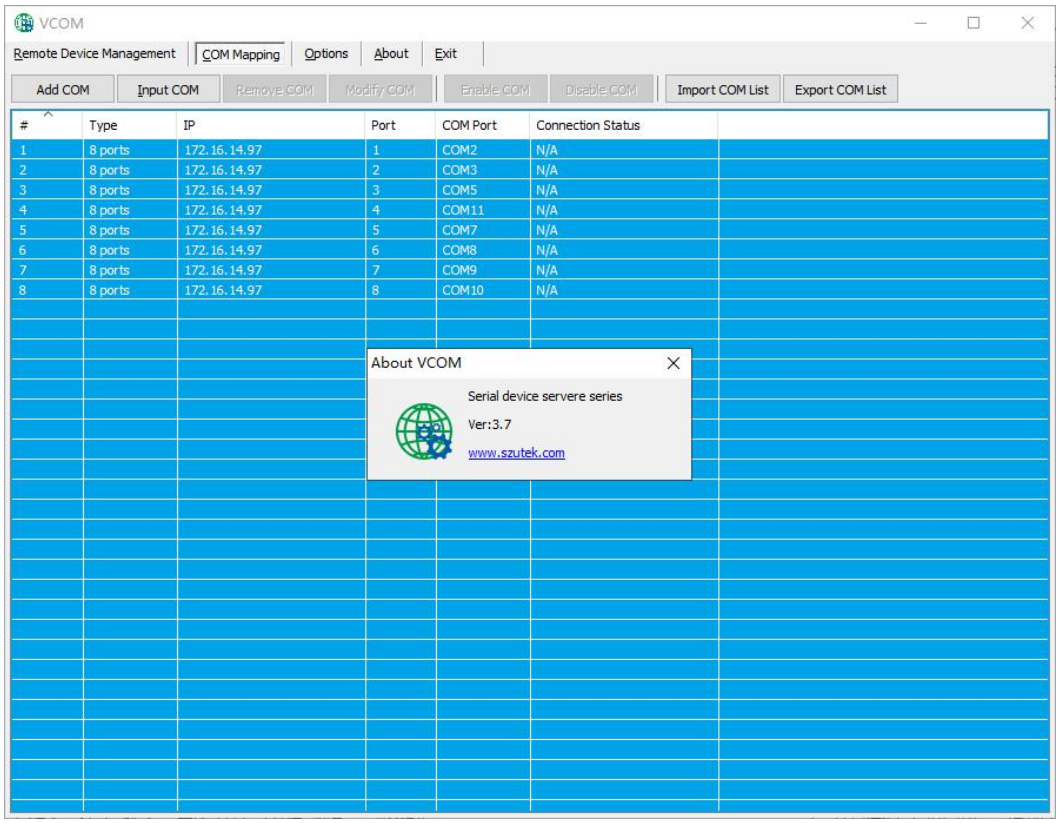
c）Options

选择开启 VCOM 软件时，该软件是直接打开，还是以最小化打开于任务栏；该软件默认情况下是以最小化打开于任务栏，配置如下图所示



d）About

点击“About”按钮即可查看软件版本信息如下图所示



e）Exit

点击“Exit”按钮即可退出软件