

### Model: UT-680X Series

(Product Name: Serial Device Server)

### **User Manual**



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### 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.



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UT-6801 Serial Device Server

UT-6802 Serial Device Server

UT-6802MT Serial Device Server



UT-6804 Serial Device Server



UT-6808 Serial Device Server



UT-6804MT Serial Device Server



UT-6808MT Serial Device Server

b) Main Features

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#### **Hardware Features**

 $\stackrel{\scriptstyle \wedge}{
m \sim}$  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;

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

 $\therefore$ With 10/100M adaptive Ethernet port;

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

 $\cancel{2}$  32 bit embedded 400MHz CPU,128M RAM;

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

m ÅThe 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	V	v	v	v	v
UT-6802	V	v	v	v	v
UT-6804	V	v	×	×	V
UT-6808	V	v	×	×	v

### c) Pin definition

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



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:



3.81Termin		DC 422	Remark
al Block	RS-485	RS-422	
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-	тх-
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
Proc	essor	32bit 400MHZ	32bit 400MHZ	32bit 400MHZ	32bit 400MHZ
Memory		128M	128M	128M	128M
	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	Serial Port Type	DB9 Male,4pin Terminal block	RJ45	RJ45	RJ45
Port	Serial Port Protectio n	±4KV ESD Protection	±4KV ESD Protection	±4KV ESD Protection	±4KV ESD Protection
	Signal	RS232: RxD/TxD/GND/RTS/CTS, R S422: TXD+/RXD+/TXD-/RXD-/G ND,RS485: Data+/Data-	RS232: RxD/TxD/GND/RTS/CTS, RS4 22: TXD+/RXD+/TXD-/RXD-/GND ,RS485: Data+/Data-	RS232: RxD/TxD/GND/RTS/CTS, R S422: TXD+/RXD+/TXD-/RXD-/G ND,RS485: Data+/Data-	RS232: RxD/TxD/GND/RTS/CTS, R S422: TXD+/RXD+/TXD-/RXD-/G ND,RS485: Data+/Data-
	Speed	10/100M Adaptive	10/100M Adaptive	10/100M Adaptive	10/100M Adaptive
Network	Туре	RJ45	RJ45	RJ45	RJ45
Port	Protectio	Built-in1.5KV	Built-in1.5KV	Built-in1.5KV	Built-in1.5KV
	n	Electromagnetic isolation	Electromagnetic isolation	Electromagnetic isolation	Electromagnetic isolation
<b>.</b> (	Protocol	ARP,IP,ICMP,UDP,TCP,HTTP, DHCP,SNMP	ARP,IP,ICMP,UDP,TCP,HTTP,D HCP,SNMP	ARP,IP,ICMP,UDP,TCP,HTTP ,DHCP,SNMP	ARP,IP,ICMP,UDP,TCP,HTTP ,DHCP,SNMP
Software	Virtual COM	Windows	Windows	Windows	Windows
	Operating Temp	-40°C−−−−85°C	-40°C−−−−85°C	-40°C−−−−85°C	-40°C−−−−85°C
Envirome	Operating Humidity	5%———95%	5%————95%	5%————95%	5%———95%
nt	Storage Temp	-40°C−−−−85°C	-40°C−−−−85°C	-40°C−−−−85°C	-40°C————85°C
	Storage Humidity	5%———95%	5%———95%	5%———95%	5%————95%
Power	Supply	DC12~48V,350mA@12Vm ax	DC12~48V,350mA@12Vmax	DC12~48V,350mA@12Vm ax	DC12~48V,350mA@12Vm ax
Appearan	Housing	Metal	Metal	Metal	Metal
ce 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	Х
UT-6802	1 Set	1*DC12V/1A	1Set	1Set	Х
UT-6804	1 Set	1*DC12V/1A	1Set	1Set	Х
UT-6808	1 Set	1*DC12V/1A	1Set	1Set	Х

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

System Content

System Home
System setting
Serial port setting
Operation mode
Status Search
X Device Management

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

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~	Device infomation				
System Home					
	Device number	UT-6808			
System Infomation	Device name	Serial Server	Maintenance staff	SZUTEK	
The second second second	Company name	UTEK	Contact	400-1144-149	
System setting	Hardware Infomatio	'n			
	Product serial number	UT-6808	Hardware version	v1.0.1	
Serial port setting	Software infomation	n			
	App version	v.41.60701_1008	Release date	2019-09-01	
Operation mode	Copyright infomation	on			
	Manufacture	UTEK TECHNOLOGY(SHENZHEN) CO., I	.TD.		
Status Search	Company Address	Floor 8-10, Building 7, Skyworth Innovat	ion Valley, No. 8, Tangtou No.1 Road, Shiya	n Street, Bao an District, Shenzhen	
	Contact number	086-0755-27886063	Enterprise URL	www.szutek.com	
Device Management	Time infomation				
o bettee management	Operation hours	00:03:02	System time	2021-08-25 10:01:48	

### b) System Setting

,,	
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)

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

V@TEK				Å a	ZH   EN admin Logout
System Home	Server configuration Server name :	UT-6808			*
System setting	Network port configuration	ion			
Ip Address Setting	Ethernet iP address :	192.168.1.125			
Address Filter ≣ User Management	Ethernet subnet mask : Default gateway :	255.255.255.0 192.168.1.1			
SNMP Setting	Primary DNS :	192.168.1.2			
MQTT Setting	Backup DNS :	192.168.1.3			
Serial port setting			Submit	Cancel	
Operation mode					
Status Search					

### 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)

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System Home	Address Filter		
30	Enable :		
System setting	Active NO.1 :		
Ip Address Setting	Starting IP address :	192.168.1.2	
Address Filter	Terminate IP address :	192.168.1.254	
User Management	Active NO.2 :		
SNMP Setting	Starting IP address :	192.168.2.2	
	Terminate IP address :	192.168.2.254	
MQTT Setting			
Serial port setting	Active NO.3 :		
T serial port setting	Starting IP address :	192.168.3.2	
Operation mode	Terminate IP address :	192.168.3.254	
Coperation mode	Active NO.4 :		
Status Search	Starting IP address :	192 168 4 2	

### 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,	Set the password of the new user added
Confirm Password	
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)

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System Home	User Management			
	Usename	Permission	Operation	
System setting	admin	adminstor	Modify	
Ip Address Setting				Add User
Address Filter				
E User Management				
SNMP Setting				
MQTT Setting				
Serial port setting				
Operation mode				
III. Status Search				

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System Home	Add User				
	Username :		(4~6 digits : composed of a-z,A-Z or 0-9)		
System setting	Password :		(4~6 digits : composed of a-z,A-Z or 0-9)		
	Confirm Password :		(4~6 digits : composed of a-z,A-Z or 0-9)		
Ip Address Setting	Permission :	Users 👻			
Address Filter				Submit Cancel	
User Management					
SNMP Setting					
MQTT Setting					
Serial port setting					
Operation mode					
Status Search					

### 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	Check to enable sending administrator password change event signal	
password		
Submit,Cancel	Submit (must be submitted after setting the above options to complete the settings), Cancel (no changes)	

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System Home	SNMP Trap Setting Enable SNMP	Ø		
System setting	Trap receiving address Community name	192.168.1.10 utek		
Ip Address Setting	System Event Settings			
Address Filter	System start-up	V		
E User Management	Login failure IP address change	V V		
SNMP Setting	Administrator change password			
MQTT Setting			Submit Cance	1
Serial port setting				
Operation mode				
Status Search				

### 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	

	r Reliable Partner in Industrial IoT
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)

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System Home	MQTT Settings	V		
System setting	Server address :	192.168.1.120		
Ip Address Setting	Server port :	1883		
Address Filter	MQTT username : MQTT password :	userA 123456		
User Management	Uplink device ID :	24000001		
SNMP Setting	Upside theme :	tips_upload		
MQTT Setting	Downlink device ID :	24000002		
Serial port setting	Downside theme :	tips_download		
Operation mode			Submit Cancel	
Status Search				

### 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)		

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System Home	Serial Port Selection           P1         P2         P3         P4         P5	i P6 P7 P8	
System setting	Serial Port Parameter		
Serial port setting	Alias : Interface type :	serial1	(Range:0-20 characters)
Operation mode	Baud rate : Data bit :	115200 V 8 V	
Status Search	Parity check : Stop bit :	none 👻	
X Device Management	RST Control : Data Packaging Settings	Auto 👻	
	Interval time :	0	(0-6000 milliseconds)
	Packing length :	0	(0-1000 byte)
	Delimiter enabling :		
	Delimiter :	0x00	(0-0xff)

### 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)

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System Home	Serial Port Selection           P1         P2         P3         P4         P5         P6	P7 P8	
System setting	Basic Settings		
Serial port setting	Operating mode : Command protocol compatibility : Data protocol conversion :	TCP Server Mode   none   Transparent transmission	
Operation mode	Listening port : Maximum number of connection :	10000 8	(0-65534)
Status Search	TCP preservation time :	10	(0-120 minutes)
Device Management	Application Options Apply to all serial ports :	0	(0-120 minutes,0 is to turn off this feature)
	shift is an active bound a limit		Submit Cancel

2,TCP Client Model (TCP Client Mode)

Operating mode		Operating mode option
Command p	orotocol	No other compatible protocol

	r Reliable Partner in Industrial IoT
compatibility	
Data protocol conversion	Only transparent transmission is supported for now
TCP preservation time	Set the retention time for TCP connection
Target IP address	Set destination IP address of the host
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)

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System Home	P1 P2 P3 P4 P5 P6	P7 P8					
System setting	Basic Settings						
	Operating mode :	TCP Client Mode	•				
Serial port setting	Command protocol compatibility :	none 🔻					
-> serial port setting	Data protocol conversion :	Transparent transmission					
-	TCP preservation time :	10			(0-120 minutes)		
Operation mode		Target IP address	Target port		Local Port		Reset
	Target IP address1 :	0.0.00	0	(0-65534)	0	(0-65534)	
Status Search	Target IP address2 :	0.0.0.0	0	(0-65534)	0	(0-65534)	[***
	Target IP address3 :	0.0.0.0	0	(0-65534)	0	(0-65534)	<u>[7]</u>
🗶 Device Management	Target IP address4 :	0.0.00	0	(0-65534)	0	(0-65534)	
č	Target IP address5 :	0.0.00	0	(0-65534)	0	(0-65534)	
	Target IP address6 :	0.0.0	0	(0-65534)	0	(0-65534)	<b>F</b>
	Target IP address7 :	0.0.0.0	0	(0-65534)	0	(0-65534)	
	Target IP address8 :	0.0.00	0	(0-65534)	0	(0-65534)	

### 3,UDP Client Model (UDP Client mode)

Operating mode	Operating mode option
Command protocol	No other compatible protocols
compatibility	
Data protocol	Only transparent transmission is supported for now
conversion	
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)

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分 System Home	Serial Port Selection           P1         P2         P3         P4         P5         P6	P7 P8			
System setting	Basic Settings				
	Operating mode :	UDP Client Mode 🔹			
Serial port setting	Command protocol compatibility :	none 💌			
1	Data protocol conversion :	Transparent transmission 👻			
	Listening port :	10000		(0-65534)	
Operation mode		Target IP address	Target port		Reset
	Target IP address1 :	0.0.0.0	0	(0-65534)	
Status Search	Target IP address2 :	0.0.0.0	0	(0-65534)	
	Target IP address3 :	0.0.0.0	0	(0-65534)	
Cevice Management	Target IP address4 :	0.0.0.0	0	(0-65534)	
1999 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -	Target IP address5 :	0.0.0.0	0	(0-65534)	
	Target IP address6 :	0.0.00	0	(0-65534)	
	Target IP address7 :	0.0.0.0	0	(0-65534)	
	Target IP address8 :	0.0.0.0	0	(0-65534)	

### 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	No other compatible protocols
compatibility	
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)

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				🛕 admin Logout
^	Serial Port Selection			
System Home	P1 P2 P3 P4 P5 P6	P7 P8		
System setting	Basic Settings			
120	Operating mode :	Remote Pair Master Mode		
Serial port setting	Command protocol compatibility : Data protocol conversion :	none  Transparent transmission		
	Target IP address :	0.0.0.0		
Operation mode	Target port :	0	(0-65534)	
	TCP preservation time :	60	(0-120 minutes)	
Status Search	Application Options			
Y Device Management	Apply to all serial ports :			
			Submit Cancel	

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	No other compatible protocols
compatibility	
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)

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System Home	Serial Port Selection           P1         P2         P3         P4         P5         P6	P7 P8		
System setting	Basic Settings Operating mode :	Remote Pair Slave Mode 🔹		
Serial port setting	Command protocol compatibility : Data protocol conversion :	none   Transparent transmission		_
Operation mode	Local Port : TCP preservation time :	10000 60		(0-65534) (0-120 minutes)
Status Search	Application Options Apply to all serial ports :			
X Device Management			Subn	it Cancel

### 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	No other compatible protocols
compatibility	
Data protocol conversion	Only transparent transmission is supported for now
TCP retention 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)

V⊕TEK			ZH A admin Loc
System Home	Serial Port Selection           P1         P2         P3         P4         P5         P6	P7 P8	
System setting	Basic Settings		
	Operating mode :	MCP&VCOM -	
Serial port setting	Command protocol compatibility :	none 🔻	
1	Data protocol conversion :	Transparent transmission 💌	
	Pattern confirmation :	MCP Mode 🔻	
Operation mode	Data port :	950	
	Command port :	966	
Status Search	TCP preservation time :	10	(0-120 minutes)
	Notice: To prevent network port co	nflicts,multiple serial ports of the device cannot be configuration in !	MCP mode and VCOM mode at the same time.
🗙 Device Management	Application Options		
	Apply to all serial ports :		
	117		
			Submit Cancel

### 7、 Modbus Server Mode

In this mode, the device creates a TCP server mode, the data protocol is the standard Modbus-RTU frame format for communication, the Ethernet network serves as the Modbus master station, and the serial port serves as the Modbus slave station.

Operating mode	Operating mode option
Command protocol	No other compatible agreement
compatible	
Data protocol conversion	Only transparent transmission is supported temporarily
TCP keep-alive time	Set the keep-alive time of the TCP connection
Local port	Set the local port number when creating a TCP server service
Maximum number of	Set the maximum number of connections
connections	
Resting time	Set the static time. When there is no data communication within the set time, the server will actively disconnect the
	client.
Submit, cancel	Submit (After setting the above options, you need to click "Submit" to check whether the parameters are in
	compliance and save the page. If the parameters are set to the device in compliance with the rules), cancel (without
	modification)
Apply to all serial ports	Apply all serial ports (if the settings of each serial port are the same, you can check the next item)

<i>U</i> ⊕TEK®				ZH EN
G System Home	Serial Port Selection           P1         P2         P3         P4         P5         P6	P7 P8		
System setting	Basic Settings			
Serial port setting	Operating mode : Command protocol compatibility : Data protocol conversion :	Modbus Server Mode		
Operation mode	Local Port : Maximum number of connection :	10000 8	(0-65534) (0-8)	
Status Search	TCP preservation time : Resting time :	10 0	(0-120 minutes) (0-120 minutes,0 is to turn off this feature)	
X Device Management	Application Options Apply to all serial ports :			
			Submit Cancel	

8、Modbus Clinet Mode

In this mode, the device creates a TCP client mode, the data protocol is the standard Modbus-RTU frame format for communication, the Ethernet network is used as the Modbus slave, and the serial port is used as the Modbus master.

Operating mode	Operating mode option
Command protocol	No other compatible protocols
compatibility	
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 server
Target port	Set the server port number
Local Port	Set the port number to which the device is bound when creating a client locally
Reset	Cancel the current line of configuration information to re-enter
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)

J@TEK						🛕 ad	min Lo
	P1 P2 P3 P4 P5 P6	P7 P8					
System Home	Basic Settings						
System setting	Operating mode :	Modbus Client Mode	•				
	Command protocol compatibility :	none 👻					
L.	Data protocol conversion :	Transparent transmission					
Serial port setting	TCP preservation time :	10			(0-120 minutes)		
		Target IP address	Target port		Local Port		Reset
Operation mode	Target IP address1 :	0.0.00	0	(0-65534)	0	(0-65534)	
	Target IP address2 :	0.0.0.0	0	(0-65534)	0	(0-65534)	
Status Search	Target IP address3 :	0.0.0.0	0	(0-65534)	0	(0-65534)	
	Target IP address4 :	0.0.0.0	0	(0-65534)	0	(0-65534)	
Device Management	Target IP address5 :	0.0.0.0	0	(0-65534)	0	(0-65534)	<u>[]]</u>
	Target IP address6 :	0.0.0.0	0	(0-65534)	0	(0-65534)	
	Target IP address7 :	0.0.0.0	0	(0-65534)	0	(0-65534)	
	Target IP address8 :	0.0.0.0	0	(0-65534)	0	(0-65534)	

### 9、MQTT Mode

Operating mode		Operating mode option
Command	protocol	No other compatible protocols
compatibility		
Data	protocol	Only transparent transmission is supported for now
conversion		
MQTT Enable		Set the current serial port to work on MQTT service enable
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 seria	I ports	Apply all serial ports (if the settings are the same for each serial port, you can check the sub-item)

<b>J@TEK</b>
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			A South Cogot
System Home	P1 P2 P3 P4 P5 P6	5 P7 P8	
	Basic Settings		
System setting	Operating mode :	MQTT Mode 🗸	
	Command protocol compatibility : Data protocol conversion :	none   Transparent transmission	
Serial port setting	MQTT enable :		
Operation mode	Application Options Apply to all serial ports :		
Status Search			Submit Cancel
X Device Manageme	nt		

### e) Status Search

Serial communication	View the serial interface form, baud rate, data bits, stop bits, parity, flow control related parameters, click "Refresh"
parameters	to update to the latest state
Network connection	Check the network connection status of the serial port, click "Refresh" to update to the latest status
status	
Serial communication	Check the communication status of the serial port, click "Refresh" to update to the latest status
status	

V@TEK							🛕 admin Lo
System Home	Serial Com	nunication Parameters					
,	Serial port	Interface form	Baud rate	Data bit	Stop bit	Parity check	Flow control
	1	RS232	115200	8	1	none	Auto
System setting	2	RS232	115200	8	1	none	Auto
	3	RS232	115200	8	1	none	Auto
Serial port setting	4	RS232	115200	8	1	none	Auto
	5	RS232	115200	8	1	none	Auto
	6	RS232	115200	8	1	none	Auto
Operation mode	7	R5232	115200	8	1	none	Auto
	8	RS232	115200	8	1	none	Auto
Status Search							Refresh
Communication Parameters							
twork Connection Status							
al Communication Status							

Serial communication parameters

<b>®TEK</b>										👗 admin
System Home	Network Co	nnection Status								
	Serial port	Interface form	IP1	IP2	IP3	IP4	IP5	IP6	IP7	IP8
	1	TCP Server	N/A							
System setting	2	TCP Server	N/A							
	3	TCP Server	N/A							
Serial port setting	4	TCP Server	N/A							
serial port setting	5	TCP Server	N/A							
	6	TCP Server	N/A							
Operation mode	7	TCP Server	N/A							
	8	TCP Server	N/A							
Status Search										Refresh
nmunication Parameters										
rk Connection Status										
ommunication Status										
ommunication Status										

Network connection status

System Home	Serial Communicat	tion Status			
	Serial port	Tx Count	Rx Count	Tx Total	Rx Total
	1	0	0	0	0
System setting	2	0	0	0	0
	3	0	0	0	0
Covial want activian	4	0	0	0	0
Serial port setting	5	0	0	0	0
	6	0	0	0	0
Operation mode	7	0	0	0	0
	8	0	0	0	0
Status Search					Refresh Cleared
ommunication Parameters					
rork Connection Status					
Communication Status					

Serial communication status

### f) Equipment management

Firmware upgrade	Select the new version of the local software package, click Start to upload file information and upgrade the device
Restore Factory	Click "Restore Factory Settings", and the serial server will be restored to the factory default settings
Port restart	Check the port that needs to be restarted, and restart the port after submission
System restart	Click "Restart" to restart the serial server.

<b>U</b> @TEK	ZH   EN	
System Home	Firmware Upgrade Warning: The upgrade operation will interrupt all communication, please do not cut off the power of the device during the upgrade process to avoid damage to the	
System setting	device ! Please select file : Select file Not files selected	
Serial port setting	Start	
Operation mode		
Status Search		
X Device Management		
Firmware Upgrade		
Restore Factory		
Port Restart		

Firmware upgrade



**Restore Factory** 



Port Restart



System Restart

### Chapter 5: Troubleshooting Instructions for UT-680X Series Serial Server

#### a) Running serial\_ethernet\_connector\_CH.exe can not find the IP address of the serial port server

1. First check whether the physical connection is normal, whether the network cable (to distinguish between crossover cable and direct connection) and power supply are connected, observe the power indicator, LAN light, ACT (when connected to a 10M network, this light does not light up, only when it is 100M bright)

2, The host network card is available, can it communicate with other local hosts.

3. Turn off all tools and software that can shield broadcast packets (do not turn on the firewall that comes with the system)

4. When entering the configuration through the browser, the IP is suddenly disconnected when setting the IP, such as: power failure, and then the device cannot be searched, enter the configuration through the console port to reset the IP.

#### b) Can't open the serial port

1. Ensure that the network is working properly and can ping the server

- 2. Check whether the virtual serial port is successfully established
- 3. Check the working status to see if the port is occupied
- 4. Delete the corresponding COM port in the registry to remap

#### c) Cannot send and receive data

1. Make sure to open the serial port normally

2. Observe whether the IP and port numbers under [Serial to Ethernet Tool]<sup>[0]</sup> [connected to 0 from 1] indicate "Connected", if there is no increase, check the connection between the serial port and the upper network

3. Observe whether the "Sent" and "Received" values under [Serial to Ethernet Tool]<sup>(</sup>[ connected to 0 from 1] have increased. If there is no increase, check the connection between the serial port and the upper network, if "Sent" There is an increase, "received" does not increase the test to detect the connection between serial ports

#### d) Forgot the password set before

1. By pressing and holding the "reset" button for 5 seconds and then releasing it, the device enters to restore factory settings. When the RUN light resumes and flashes slowly at 1 second intervals, the device restores to factory settings. At this time, the factory initial account password admin: admin can be used to log in to the system , The factory IP address is static: 192.168.1.125.

### e) Sending and receiving data is garbled

1. Check whether the wiring is correct, our 485 equipment should pay attention to the problem of parallel wiring.

2. Check whether the line distance exceeds the standard distance and line quality (also by extending the line transceiver or optical separation)

3. Check the set serial parameters (baud rate, data bit, stop bit, parity bit, etc.)

1. Confirm that no other PC is connected to the corresponding port of the serial communication server: enter the [Statistics] of the serial communication server to view [active TCP information]

2. Whether [Authentication] in [Detailed Parameters] is [none]

If none of the above methods solve your problem, please contact the manufacturer

Whether it matches the bottom device

4. Separate from the client's upper-end software, can you receive normal data with the network or serial port debugging assistant? If you can receive normal data, the problem may be related to the packaging mechanism. You can set the length of the package and the package in the "Serial Settings" waiting time.

#### f) Cannot be connected as a TCP server

1. Confirm that no other PC is connected to the corresponding port of the serial communication server: enter the [Statistics] of the serial communication server to query [active TCP information]

2. Whether [Authentication] in [Detailed Parameters] is [none]

If none of the above methods solve your problem, please contact the manufacturer

### **Chapter 6: Accessories**

#### a) remote devices Management

#### 1, Equipment query

The serial port of the device works in MCP&VCOM->VCOM Mode and connects to the device. Start the attached software "VCOM" (as shown in Figure 1 below), select remote devices Management->Add Device, and a search interface for searching all UT-680X series IPs in the network will pop up; As shown in Figure 2, select the "Search" button, you can search for all the UT-680X series IP addresses and basic information in the network, as shown in Figure 3; then select "cancel" in Figure 3 to get the device information list in Figure 4, Click OK to display search device information on the VCOM interface, as shown in Figure 5, the device has been added;

🛞 VCOM		1	1	1			– 🗆 X
Remote Device	9	COM Mapping O	ptions <u>A</u> bout	Exit			
Add Device	Search IP						Firmware Update Open in Browser
# T	ype	MAC	IP		Device Description	Info	COM Number
						1	

Figure1

emote Devic	e Management	COM Map	ping Or	otions	About	Exit					
Add Device	Search IP		evice					Import Sett		ngs   Fi	mware Update Open in Browser
+ ^ _ ;	Гуре	MAC	5.815	IP			Device D	escription	Info	C	OM Number
							1				
			Add Dev	ico						×	
			Select		i						
			#		ype	MAC		IP			
			-		ype	MAC		15			
			Sear	:h	IPv6			ОК	Cancel		

Figure2

emote Devi	ce Management	<u>C</u> OM	Mapping	Options	About Exit				
Add Device	Search IP	Remov		Login		Logout Im			ttings   Firmware Update Open in Browser
# ^	Туре	MAC		IP	-14 - 28 -	Device Descrip	otion	Info	COM Number
			Searchi	ng					×
			#	Туре	MAC	IPv4	IPv6		
		-	1	8 ports	90:7E:BA:11:22:3A				
								С	ancel

Figure3



Figure4

mote Devi	ce Management	COM Mapping	Options <u>A</u> bout <u>E</u> xit			
dd Device	Search IP	Remove Device	Login Settings As	ssign IP Logout Import	t Settings Export Setting	s Firmware Update Open in Browser
^	Туре	MAC	IP	Device Description	n Info	COM Number
	8 ports	90:7E:BA:11:22:3A	172.16.14.97	Server	Latched	

Figure5

2, Jump to web page login

In the "VCOM", first select the added device, then select the remote devices Management interface, and click "Open in Browser" to enter the web login interface through the IE browser.

		ZH  EN
<b>D</b> @ter	< .	
Username : Please input username		
Please input password		
login	Cancel	

### b) COM Mapping

### 1) Create a virtual serial port

1, In the "VCOM", select COM Mapping—Add COM, the "Add Device" window will pop up, as shown in the figure below, and then click OK.

Remote De		agement	<u>C</u> OM Mappir	ig <u>O</u> ptio	ns <u>A</u> bout	Exit				<u>:-</u>	×
Add CC		Input COM	110	/e GOM		Enable CO	4 Disable COM	Import COM List	Export COM List		
# ^	Туре	IP	8		Port	COM Port	Connection Status				
				dd Device ∂Select/Cle					×		
				#	Type	MAC	IP				
				1	8 ports	90:7E:BA:11		7			
				Search	IPv6		O	K Cancel			

2, Then the following interface will pop up, that is, the corresponding virtual serial port will be created

🚯 VC													3 <u>—</u>	×
<u>R</u> emote I	Device Man	agement		lapping	Options	About	Exit							
Add	СОМ	Input CO	M				E			Import	COM List	Export COM List		
# ^	Туре	IF	P			Port	COM	Port	Connection Status					
	8 ports		72, 16, 14			1	COM		N/A					
	8 ports		72.16.14			2	COM		N/A					
	8 ports		72, 16, 14			3	COM		N/A					
	8 ports		72, 16, 14			4	COM		N/A					
	8 ports		72, 16, 14			5	COM		N/A					
	8 ports		72, 16, 14			6	COM		N/A					
	8 ports		72, 16, 14			7	COM		N/A					
	8 ports	8 1	72, 16, 14			8	COM:		N/A					

### 2) Delete virtual serial port

In the "VCOM", first select the virtual serial port to be deleted, then select the COM Mapping interface, and click "Remove COM" to delete the virtual serial port, as shown in the figure below

() VC		nagement <u>C</u>	OM Mapping Opti	ons <u>A</u> bout	Exit				-	×
Add	СОМ	Input COM	Remove COM	Modify COM	Enable CC	M Disable COM Impo	ort COM List	Export COM List		
# ^	Туре	IP		Port	COM Port	Connection Status				
1	8 port		16.14.97	1	COM2	N/A				
2	8 port		16.14.97	2	COM3	N/A				
3	8 port		16.14.97	3	COM5	N/A				
4	8 port		16.14.97	4	COM6	N/A				
	8 port		16.14.97	5	COM7	N/A				
	8 port		16.14.97	6	COM8	N/A				
	8 port		16. 14.97	7	COM9	N/A				
8	8 port	is 172.	16.14.97	8	COM10	N/A				
						÷				
						11				
						fi				

### 3) Modify the virtual serial port

In the "VCOM", first select the virtual serial port to be deleted, and then select the COM Mapping interface, click "Modify COM" to pop up the interface as shown in Figure 1, and then select "COM6" to change Port4 to "COM6" to " COM11", as shown in Figure 2:

Add	COM	Input COM	Remove COM	Modify COM	Enable CC	DM Disable COM	Import 0	COM List	Export COM List	1	
~											
+	Туре	IP		Port	COM Port	Connection Status					
	8 ports		6.14.97	1	COM2	N/A					
	8 ports		6.14.97	2	COM3	N/A					
	8 ports		6.14.97	3	COM5	N/A					
	8 ports		16.14.97	4	COM6	N/A					
	8 ports		16.14.97	5	COM7	N/A					
	8 ports		16. 14.97	6	COM8	N/A					
	8 ports		16.14.97	7	COM9	N/A					
	8 ports	172.3	6,14.97	8	COM10	N/A					
							Ĩ				
				OM Port Setti	h.		>				
				COM number o	f the first select	comed port COM6 (in use)	~				
				COM number o	f the first select	COM6 (in use) COM6 (in use) COM7 (in use) COM9 (in use) COM9 (in use) COM10 (in use) COM10 (in use) COM11 (in use) COM12 COM13	^				
				COM number o	f the first select	COM6 (in use) COM7 (in use) COM8 (in use) COM9 (in use) COM10 (in use) COM11 COM12					
				COM number o	f the first select	COM6 (in use) COM7 (in use) COM8 (in use) COM9 (in use) COM10 (in use) COM11 COM12					
				COM number o	f the first select	COM6 (in use) COM7 (in use) COM8 (in use) COM9 (in use) COM10 (in use) COM11 COM12					

Figure 1

		anagement	600		Option	s <u>A</u> bout	Exit							-	×
Add		Input C		M Mapping Remove	1	Modify COM	Exit	inable CO	м	Disable COM	Impor	COM List	Export COM List		
# ^	Туре		IP			Port	COM	1 Port	Co	nnection Status	1		1		
1	8 por	rts	172.16	.14.97		1	COM	12	N/	A					
2	8 por	rts	172.16	. 14.97		2	COM	13	N/.	Ą					
	8 por	rts	172.16	.14.97		3	COM	15	N/	A					
4	8 por	rts	172,16	. 14.97		4	COM	111	N/	A					
5	8 por	ts	172.16	. 14.97		5	COM	17	N/	A					
	8 por		172.16			6	CON		N/						
7	8 por		172.16			7	COM		N/						
	8 por	rts	172.16	.14.97		8	COM	110	N/	A					
							1								
									L						
							1								
									1						
							1		1						
							1		Ĩ						
							1								

Figure 2

#### 4) Enable virtual serial port

In the "VCOM", first select the virtual serial port that needs to be disabled, then select the COM Mapping interface, and click "Enable COM" to enable the corresponding virtual serial port, as shown in the figure below

emote		ent COM Mapping Opt	tions <u>A</u> bout	Exit				-	×
		ut COM Remove COM	Modify COM	Enable CC	M Disable COM	Import COM List	Export COM List		
# ^	Туре	IP	Port	COM Port	Connection Status				 
1	8 ports	172.16.14.97	1	COM2	N/A	1			
2	8 ports	172.16.14.97	2	COM3	N/A	1			
3	8 ports	172.16.14.97	3	COM5	N/A				
ŧ	8 ports	172.16.14.97	4	COM11	N/A				
5	8 ports	172.16.14.97	5	COM7	N/A				
	8 ports	172.16.14.97	б	COM8	N/A				
7	8 ports	172, 16, 14,97	7	COM9	N/A				
	8 ports	172.16.14.97	8	COM10	N/A				

### 5) Disable virtual serial port

In the "VCOM", first select the virtual serial port that needs to be disabled, then select the COM Mapping interface, and click "Disable COM" to disable the corresponding virtual serial port, as shown in the figure below

	VCOM     COM Mapping Options About Exit										
Add	COM Inpu	ut COM Remove COM	Modify COM	Enable COM	Disable COM	Import COM List	Export COM List				
# ^	Туре	IP	Port	COM Port	Connection Status	1997 	8 D			_	
1	8 ports	172.16.14.97	1	COM2	N/A						
2	8 ports	172.16.14.97	2	COM3	N/A						
3	8 ports	172.16.14.97	3	COM5	N/A						
4	8 ports	172.16.14.97	4	COM11	N/A						
5	8 ports	172.16.14.97	5	COM7	N/A						
	8 ports	172.16.14.97	6	COM8	N/A						
	8 ports	172.16.14.97	7	COM9	N/A						
	8 ports	172.16.14.97	8	COM10	N/A						
				-							
				1							
				1							

#### 6) Import virtual serial port list

In the "VCOM", select the COM Mapping interface and click "Import COM List" to pop up the interface as shown in Figure 1. After clicking "Browse", select the saved virtual serial port configuration information as shown in Figure 2, and click "OK" You can import successfully as shown in Figure 3



Figure 1





### 7) Export virtual serial port list

In the "VCOM", select the COM Mapping interface, and click "Export COM List" to pop up the interface as shown in Figure 1. After clicking "Browse", select the path of the virtual serial port configuration information to be saved, and click "OK" to export Success is shown in Figure 2

emote	Device Manage	nent <u>C</u> ON	1 Mapping Op	otions <u>A</u> bout	Exit				
Add	I COM	out COM	Remove COM	Modify COM	Enable CC	DM Disable COM Imp	ort COM List	Export COM List	t
^	Туре	IP		Port	COM Port	Connection Status			
	8 ports	172.16	14.97	1	COM2	N/A			
	8 ports	172.16		2	COM3	N/A			
	8 ports	172,16		3	COM5	N/A			
	8 ports	172.16		4	COM11	N/A			
	8 ports	172.16		5	COM7	N/A			
	8 ports	172.16		6	COM8	N/A			
	8 ports	172.16		7	COM9	N/A			
	8 ports	172.16	14.97	8	COM10	N/A			
				t COM List	1465\Desktop\UT·	-6808.ini	×		
					1465\Desktop\UT	-6808.ini	Cancel		
				ame: C:\Users\1:	.465\Desktop\UT				
				ame: C:\Users\1:	.465\Desktop\UT-				
				ame: C:\Users\1:	.465\Desktop\UT				
				ame: C:\Users\1:	465\Desktop\UT				
				ame: C:\Users\1:	.465\Desktop\UT				
				ame: C:\Users\1:	465\Desktop\UT				
				ame: C:\Users\1:	465'/Desktop /UT				
				ame: C:\Users\1:	465\Desktop\UT				
				ame: C:\Users\1:	465'(Desktop)(UT)				
				ame: C:\Users\1:	465'/Desktop /JJT-				
				ame: C:\Users\1:	465'/Desktop /UT +				
				ame: C:\Users\1:	465'/Desktop /JJT				
				ame: C:\Users\1:	465'/Desktop ///T				

Figure1

Add C		It COM Remove COM	Modify COM	Enable COM	1 Disable COM Import COM List	Export COM List
. ^	Туре	IP	Port	COM Port	Connection Status	
	8 ports	172.16.14.97	1	COM2	N/A	
č.	8 ports	172.16.14.97	2	COM3	N/A	
6	8 ports	172.16.14.97	3	COM5	N/A	
í.	8 ports	172.16.14.97	4	COM11	N/A	
	8 ports	172.16.14.97	5	COM7	N/A	
	8 ports	172.16.14.97	6	COM8	N/A	
	8 ports	172.16.14.97	7	COM9	N/A	
	8 ports	172.16.14.97	8	COM10	N/A	

### Figure2

### c) Options

When you choose to open the VCOM, whether the software is opened directly or minimized in the taskbar; the software is opened in the taskbar minimized by default, the configuration is as shown in the figure below

VC		ent COM Mapping Opti	ons <u>A</u> bout	Exit		-
					M Disable COM Import COM List Expor	rt COM List
^	Туре	IP	Port	COM Port	Connection Status	
	8 ports	172.16.14.97	1	COM2	N/A	
	8 ports	172.16.14.97	2	COM3	N/A	
	8 ports	172.16.14.97	3	COM5	N/A	
	8 ports	172.16.14.97	4	COM11	N/A	
	8 ports	172.16.14.97	5	COM7	N/A	
	8 ports	172.16.14.97	6	COM8	N/A	
	8 ports	172, 16, 14, 97	7	COM9	N/A	
	8 ports	172.16.14.97	8	COM10	N/A	

### d) About

Click the "About" button to view the software version information as shown in the figure below



### e) Exit

Click the "Exit" button to exit the software