Serial Server Product Parameter Setting Guide

Notice: Before use, please select the application mode of this product corresponding to the scene.

Then follow the corresponding operation instructions below to complete the parameter settings of this product.

<u>Application Mode A:</u> \leftarrow (Click the A on the left Jump to the operation guide page 2-7)



Application Mode B: - (Click the B on the left Jump to the operation guide page 8-13)



<u>Application Mode C:</u> \leftarrow (Click the C on the left Jump to the operation guide page 14-20)



<u>Application Mode D:</u> \leftarrow (Click the D on the left Jump to the operation guide page 21-27)



<u>Application Mode E:</u> \leftarrow (Click the E on the left Jump to the operation guide page 28-34)



Aplication Mode A

1 Before starting, please connect the product to the power supply and connect the network interface of the product to the computer with the network cable.

2 Open the "NetModuleConfig" configuration tool (as shown below)



3 Click "Search Device" (as shown below)

loudie rist	(Double Click to	get configuratio	on) —			
Reset Reset Basic ame: DHCP: ?IP: ask:	IP "" Searc Load Con On 	MAC fig Save (?) (?) (?) (?)	Ver	Mode: Local Port: Conn Type: Dest IP: Dest Port: Baud: Data Bit: Stop Bit: Parity: Conn Lost: Pack Len: Pack TimeOut Reconnect:	TCP SERVER Random 0 IP O Close Conn Close Conn Close Suff Clear Buff	(?) (?) (?) (?) (?) (?) (?) (?) (?) (?)
at eVev.	· · ·	• (?)				
accuay.						

4 Double-click the "IP address on the list" to read the product information (as shown below)

Module Lis	t(Double Click	to get confi	guration	u) ——	Fort 1 Port 2			
Name	IP	MAC		Ver				
СН9121 🤇	192.168.0.201	84:C2:E4:24	l:8E:D5	37	Mode:	TCP SERVI	ER 💌	(?)
	1				Local Port:	□ Random	2001	(?)
- /	_				Conn Type:	IP	-	(?)
/					Dest IP:	192 .16	8.0.200	(?)
					Dest Port:	2000	1	(?)
•	I			•	Baud:	9600	•	(?)
	Sea	rch			Data Bit:	8	•	(?)
					Stop Bit:	1	•	(?)
Reset	Load C	onfig	Save C	onfig	Parity:	None	•	(?)
Basic					Conn Lost:	✓ Close 0	Conn	(?)
Name:	CH9121		(?)		Pack Len:	1024	(<=1024)	(?)
DHCP:	🗆 0n		(?)		Pack TimeOut	: 0	(10ms)	(?)
??IP:	192 . 168	. 0 . 201	(?)		Reconnect:	∏ Clear	: Buff	(?)
Mask:	255 . 255	. 255 . 0	(?)					
Gate\ay:	192 . 168	. 0 . 1	(?)					
Serial Neg	n		(?)			Set A	LL	

5 Place the mouse on the "Network Icon" in the bottom-right corner of the screen and right-click "Open Network and Sharing Center" (as shown below)



6 Select the network information that this product is connected to the computer and click "Local Area Connection" (as shown below)

🔾 🗢 😫 🕨 Control Panel 🕨	Network and Internet Network and Sharing Center	Panel 🔎
Control Panel Home	View your basic network information and set up connections	0
Change adapter settings Change advanced sharing settings	WIN7-PC Network Internet	
	Vrew your active networks Connect or disconnect	
	 Set up a wireless, broadband, dial-up, ad hoc, or VPN connection; or set up a router or access point. Connect to a network Connect or reconnect to a wireless, wired, dial-up, or VPN network connection. Choose homegroup and sharing options Access files and printers located on other network computers, or change sharing settings. 	
	Troubleshoot problems Diagnose and repair network problems, or get troubleshooting information.	
See also HomeGroup Internet Options Windows Firewall		

7 Click "Local Area Connection", then a window pops up and click "Properties (P)" (as shown below)

IPv4 Connect	tivity:	Internet
IPv6 Connect	tivity:	No Internet access
Media State:		Enabled
Duration:		02:34:10
Speed:		100.0 Mbps
Details		
Details		
Details	Sent —	Received
Details Activity Bytes:	Sent — 7,691,372	

8 Select "Protocol Version 4 (TCP/IP v4)" in this window, then click "Properties (R)" and the right window pops up (as shown below)

working	General Alternate Configuration	
nnect using: Provide the second sec	You can get IP settings assigned a this capability. Otherwise, you nee for the appropriate IP settings.	iutomatically if your network supports ed to ask your network administrator
Configure	Obtain an IP address automa	itically
is connection uses the following items:	- Use the following IP address:	
Glient for Microsoft Networks Boos Packet Scheduler	IP address:	· · ·
Good Flacker Scheduler File and Printer Sharing for Microsoft Networks	Subnet mask:	14 19 19
Internet Protocol Version 6 (ICP/IPv6) Internet Protocol Version 4 (TCP/IPv4)	Default gateway:	
	Obtain DNS server address a	utomatically
	OUse the following DNS server	addresses:
Install Uninstall Properties	Preferred DNS server:	
Description Transmission Control Protocol/Internet Protocol. The default	Alternate DNS server;	
wide area network protocol that provides communication across diverse interconnected networks.	Validate settings upon exit	Advanced
	50	

9 Change "Obtain the IP address automatically" and "Obtain the DNS server address automatically" to

"Use the following IP address" and "Use the following DNS server address" and fill in the segment parameters as shown below (as shown below)

u can get IP settings assigned aut s capability. Otherwise, you need	omatically if your network supports to ask your network administrator
the appropriate IP settings.	
🕥 Obtain an IP address automatic	ally
Ose the following IP address:	
IP address:	192.168.0.100
Subnet mask:	255.255.255.0
Default gateway:	192.168.0.1
) Obtain DNS server address aut	omatically
Use the following DNS server ad	ddresses:
Preferred DNS server:	192.168.0.1
Alternate DNS server:	
🔲 Validate settings upon exit	Advanced

10 Select "Port 1" and set it according to the contents in the serial number box shown in the picture below (as shown below) Notice that the parameters in "serial No.²" and "serial No.³" in the following pictures must be set according to the requirements of the scene before normal communication can be realized.

modure ri	IST (DOUDIE CIICK	to get configur	ation/				
Name	IP	MAC	Ver				
СН9121	192.168.0.201	84:C2:E4:24:8	4:D5 37	/	Mode:	TCP SERVER 💌	(?)
			2		Local Port:	🗖 Random 2000	(?)
					Conn Type:	IP 💌	(?)
					Dest IP:	192 .168 . 0 .200	(?)
-					Dest Port:	2000	(?)
•			/		Baud:	9600 👻	(?)
	Sea	irch		8	Data Bit:	8 🗸	(?)
					Stop Bit:	1 -	(?)
Reset	Load	Config S	ave Config		Parity:	None 💌	(?)
Basic					Conn Lost:	🔽 Close Conn	(?)
Jame:	CH9121	0	(?)		Pack Len:	1024 (<=1024)	(?)
DHCP:	🗆 0n		(?)		Pack TimeOu	t: 0 (10ms)	(?)
??IP:	192 . 168	. 0 . 200	(?)		Reconnect:	🗖 Clear Buff	(?)
lask:	255 . 255	. 255 . 0	(?)				
GateWay:	192 . 168	. 0 . 1	(?)	-			
	1.0.		(2)	Γ		Set úll	

11 After setting the content, click "Configure Device Parameters" to complete the configuration.

After completing the configuration, "Restart Complete" will be displayed in the bottom-left corner of the screen (as shown below)

Basic			Conn Lost: 🔽 Close Conn	(?)
Name:	CH9121	(?)	Pack Len: 1024 (<=1024)	(?)
DHCP:	🗖 On	(?)	Pack TimeOut: 0 (10ms)	(?)
??IP:	192 . 168 . 0 . 200	(?)	Reconnect: 🗌 Clear Buff	(?)
Mask:	255 . 255 . 255 . 0	(?)		
Gate₩ay:	192 . 168 . 0 . 1	(?)		
Serial Nego	o: 「 On	(?)	Set ALL	

12 Find two conductive copper wires and connect the wires according to the wiring method as shown below (as shown below)



13 Open "NetAssist". If you don't have it, you can download it online and use it (as shown below)



14 Fill in the three items of "Protocol Type", "Remote Host Address" and "Remote Host Port" according to the parameters configured by the product (as shown below)

	Network Assistant	₩ - □ ×	🔊 Net Module Configure
Settings TCP Client 11) Protocol TCP Client 12) Remote Host Addr 132.168.0.200.200 3) Remote Host Port 2000 Connect Recv Options C ASCII C HEX V Log Display Mode V Auto Linefeed Hide Received Data Save Recv to File AutoScroll Clear Send Options Send Options Send Options C ASCII C HEX V Use Escape Chars ()	Data log User Support	NetAssist V5.0.2	Wet Module Configure Image: CH9121 Image:
Auto Append Bytes	Data Send	🗸 Clear 🛧 Clear	GateWay: 192 . 168 . 0 . 1 (?)
Cycle 1000 ms Shortcut History	http://www.cmsoft.cn	Send	Serial Nego: [On (?) Set ALL
💓 Settings	0/0 RX:0	TX:0 Reset	Operation Status:Rebooting finished

15 Click "OConnect" then fill in the content to be sent randomly in the "Data Send" area, and finally click "Send" (as shown below)



16 At this time, you can click "Send" several times, and the data will be sent and received normally (as shown below)



Application Mode B

1 Before starting, please connect the product to the power supply and connect the network interface of the product to the computer with the network cable.

2 Open the "NetModuleConfig" configuration tool (as shown below)



Module List(Double Click to get co	onfiguration) ———	Port 1
Name	IP 1 W Search Load Config	MAC Ver	Mode: TCP SERVER (?) Local Port: Random 0 (?) Conn Type: TP (?) Dest IP:(?) Dest Port: 0 (?) Baud: (?) Data Bit: (?) Stop Bit: (?) Parity: (?)
Basic			Conn Lost: 🗖 Close Conn (?)
		(?)	Pack Len: 0 (<=1024) (?)
Vame:	🗖 On	(?)	Pack TimeOut: 0 (10ms) (?)
Name: DHCP:		(2)	Reconnect: 🔽 Clear Buff (?)
Name: DHCP: ??IP:	V .3 %	(0	
Name: DHCP: P?IP: Mask:		(?)	
Name: DHCP: ??IP: Mask: ;ateWay:		(?)	

4 Double-click the "IP address on the list" to read the product information, and tick "V Enable port 2" (as shown below)

Name	IP	MAC	Ve	f l		
СН9121 🤇	192. 168. 0. 201	84:C2:E4:24:8	E:D5 31	Mode:	TCP SERVER -	(?)
	1			Local Port:	□ Random 2001	(?)
- /				Conn Type:	IP 💌	(?)
-/				Dest IP:	192 . 168 . 0 . 200	(?)
				Dest Port:	2000	(?)
·	10			Baud:	9600 🗸	(?)
	Sea	rch		Data Bit:	8 💌	(?)
				Stop Bit:	1	(?)
Reset	Load C	onfig S	ave Confi	Parity:	None	(?)
Basic				Conn Lost:	🔽 Close Conn	(?)
Name:	CH9121		(?)	Pack Len:	1024 (<=1024)	(?)
DHCP:	🗆 0n		(?)	Pack TimeOu	t: 0 (10ms)	(?)
??IP:	192 . 168	. 0 . 201	(?)	Reconnect:	🗆 Clear Buff	(?)
Mask:	255 . 255	. 255 . 0	(?)			
GateWay:	192 . 168	. 0 . 1	(?)			
Serial Neg	o: E On		(?)		Set ALL	

5 Place the mouse on the "Network Icon" in the bottom-right corner of the screen and right-click "Open Network and Sharing Center" (as shown below)



6 Select the network information that this product is connected to the computer and click "Local Area Connection" (as shown below)

Control Panel Home	View your basic network information and set up connections	
Change adapter settings	See full map	
Change advanced sharing settings	WIN7-PC Network Internet (This computer)	
	View your active networks Connect or disconnect	
	Network Access type: Jotemet	
	Connections: U Local Area Connection	
	Change your networking settings	
	Set up a new connection or network	
	Set up a wireless, broadband, dial-up, ad hoc, or VPN connection; or set up a router or access point.	
	Connect to a network	
	Connect or reconnect to a wireless, wired, dial-up, or VPN network connection.	
	Choose homegroup and sharing options	
	Access files and printers located on other network computers, or change sharing settings.	
	Troubleshoot problems	
	Diagnose and repair network problems, or get troubleshooting information.	
iee also		
HomeGroup		
nternet Options		

7 Click "Local Area Connection", then a window pops up and click "Properties (P)" (as shown below)

Connection		
IPv4 Connect	tivity:	Internet
IPv6 Connect	tivity:	No Internet access
Media State:	avity.	Enabled
Duration:		02:34:10
Speed:		100.0 Mbos
Details		
Details		
Details	Sent — 🔎	— Received
Details Activity Bytes:	Sent — 57,691,372	— Received 227,526,949

8 Select "Protocol Version 4 (TCP/IP v4)" in this window, then click "Properties (R)" and the right window pops up (as shown below)

	Volucen get IP settings assigned a	itomatically if your pati	work supports
Realtek PCIe GBE Family Controller	this capability. Otherwise, you nee for the appropriate IP settings.	d to ask your network a	administrator
Configure	Obtain an IP address automatic	tically	
his connection uses the following items:	Use the following IP address:		
✓ Client for Microsoft Networks ✓ ■QoS Packet Scheduler	IP address:		
File and Printer Sharing for Microsoft Networks	Subnet mask:	14 14	
Internet Protocol Version 6 (ICP/IPv6) Internet Protocol Version 4 (TCP/IPv4)	Default gateway:	+ +	
Link-Layer Topology Discovery Mapper I/O Driver Link-Layer Topology Discovery Responder	Obtain DNS server address at	utomatically	
	Use the following DNS server	addresses:	
Install Uninstall Properties	Preferred DNS server:		
Description Transmission Control Protocol/Internet Protocol. The default	Alternate DNS server;	4 4	
wide area network protocol that provides communication across diverse interconnected networks.	Validate settings upon exit		Advanced

9 Change "Obtain the IP address automatically" and "Obtain the DNS server address automatically" to

"Use the following IP address" and "Use the following DNS server address" and fill in the segment parameters as shown below (as shown below)

capability. Otherwise, you need	d to ask your network administrator
	- 15 - 10
) Obtain an IP address automat	ically
P address:	192.168.0.100
Subnet mask:	255 . 255 . 255 . 0
efault gateway:	192.168.0.1
) Obtain DNS server address au	itomatically
Use the following DNS server a	addresses:
referred DNS server:	192.168.0.1
lternate DNS server:	
Validate settings upon exit	Advanced

10 Select "Port 1" and set it according to the contents in the serial number box shown in the picture below (as shown below) Notice that the parameters in "serial No.⁽²⁾" and "serial No.⁽³⁾" in the following pictures must be set according to the requirements of the scene before normal communication can be realized.

	St(Double Slick	CO BOC COULT	-guracion			-	-	4	
Name	IP IP	MAC		Ver					
CH9121	192.168.0.200	84:02:84:24	4:8E:D5	31	0	Mode:	TCP SERV	ER 💌	(?)
					×	Local Port:	🔽 Random	3000	(?)
						Conn Type:	IP	Ŧ	(?)
						Dest IP:	192.16	8 . 1 .100	(?)
				_		Dest Port:	2000		(?)
*	I					Baud:	9600	•	(?)
	Sez	arch			8	Data Bit:	8	•	(?)
						Stop Bit:	1	- -	(?)
Reset	Load (Config	Save C	onfig		Parity:	None	•	(?)
Basic						Conn Lost:	☑ Close	Conn	(?)
lame:	CH9121		(?)			Pack Len:	1024	(<=1024)	(?)
DHCP:	🗆 0n	2	(?)			Pack TimeOu	t: 0	(10ms)	(?)
?IP:	192 . 168	. 0 . 200	(?)			Reconnect:	☐ Clear	: Buff	(?)
lask:	255 . 255	. 255 . 0	(?)						
ateWay:	192 . 168	. 0 . 1	(?)		_				
Canial No.	ao: [] On		(2)				Set A	LL	

11 After setting the content, click "Configure Device Parameters" to complete the configuration.

After completing the configuration, "Restart Complete" will be displayed in the bottom-left corner of the screen (as shown below)

Basic			Conn Lost: 🔽 Close Conn	(?)
Name:	CH9121	(?)	Pack Len: 1024 (<=1024)	(?)
DHCP:	🗖 On	(?)	Pack TimeOut: 0 (10ms)	(?)
??IP:	192 . 168 . 0 . 200	(?)	Reconnect: 🗌 Clear Buff	(?)
Mask:	255 . 255 . 255 . 0	(?)		
GateWay:	192 . 168 . 0 . 1	(?)		
Serial Nego	o: 🗆 On	(?)	Set ALL	

12 Find a conductive screwdriver or cable to connect the "Pin 2 and Pin 3" on the RS232 interface (as shown below)



13, 13 Open "NetAssist". If you don't have it, you can download it online and use it (as shown below)



14 Fill in the three items of "Protocol Type", "Remote Host Address" and "Remote Host Port" according to the parameters configured by the product (as shown below)

	Network Assistant	×	P Net Module Configure	• 🛛
Settings (1) Protocol TCP Client	Data log User Support	NetAssist V5.0.2 🗇 🔶	Adapter: I.Realtek PCIe GBE Family Cont Refresh 72792 Module List (Double Click to get configuration) Port 1 Port 2	_1
(2) Remote Host Addr 192.168.0.200			Name IP MAC Ver CH9121 192.168.0.200 84:C2:E4:24:8C:IC 37 Mode: TCP SERVER (?) Increal Part: Parendom 9000 (") (?) (?) (?)	?)
3000			Com Iype: IP (7 Dest IP: 192.168.0100 (7	?)
Recv Options			↓ m ↓ Dest Port: 2000 (? ↓ m ↓ Baud: 9600 ✓ (?	?) ?)
 ASCII ⊂ HEX ✓ Log Display Mode ✓ Auto Lineford 			Search Data Bit: 8 ✓ (7) Stop Bit: 1 ✓ (7)	?) ?)
 Auto Linereed Hide Received Data Save Recv to File 			Reset Load Config Save Config Parity: Mone (? Basic Conn Lost: Close Conn (?	?) ?)
AutoScroll Clear			Name: CH9121 (?) Pack Len: 1024 (<=1024) (?) DHCP: On (?) Pack TimeOut: ([] (10ms) (?)	?) ?)
● ASCII ← HEX ▼ Use Escape Chars (i)		-	192.168.0.200 (?) Reconnect: □ Clear Buff (?) Mask: 255.255.255.0 (?)	?)
Auto Append Bytes Send from File Cycle 1000 ms	Data Send http://www.cmsoft.cn	€ Clear ★ Clear	Cate¥ay: 192 .168 . 0 . 1 (?) Serial Nego: □ On (?) Set ALL	
<u>Shortcut</u> <u>History</u> I& Ready!	1/1 RX:24	TX:24 Reset	Operation Status:Rebooting finished!	

15 Click "OConnect" then fill in the content to be sent randomly in the "Data Send" area, and finally click "Send" (as shown below)

	Net	work Assist	ant		₩ - □ ×
Settings (1) Protocol TCP Client	Data log User Support			<u>NetAssist V</u>	<u>5.0.2</u>
(2) Remote Host Addr 192.168.0.200 (3) Remote Host Port 3000 Connect	1				
Recv Options					
Send Options				3	Ŧ
 Auto Append Bytes Send from File Cycle 1000 ms Shortcut History 	Data Send			£c	Send
💣 Ready!		1/1	RX:24	TX:24	Reset

16 At this time, you can click "Send" several times, and the data will be sent and received normally (as shown below)



Application Mode C

1 Before starting, please connect the product to the power supply and connect the network interface of the product to the computer with the network cable.

2 Open the "NetModuleConfig" configuration tool (as shown below)



Module List	(Double Click to get o	onfiguration) —	Port 1
Name .	IP II Search		Mode: TCP SERVER (?) Local Port: Random 0 (?) Conn Type: IP (?) Dest IP: (?) Dest Port: 0 (?) Baud: (?) Data Bit: (?) Star Bit: (?)
Reset	Load Config	Save Confi	Parity: (?)
Basic			Conn Lost: Close Conn (?)
Name:		(?)	Pack Len: 0 (<=1024) (?)
DHCP:	🗆 On	(?)	Pack TimeOut: 0 (10ms) (?)
??IP:		(?)	Reconnect: Clear Buff (?)
Mask:		(?)	
Gate₩ay:		(?)	
	1	(0)	Set 011

4 Double-click the "IP address on the list" to read the product information (as shown below)

Module Li	st(Double Click to	o get confi	guratior	ι) —	TOLC I FOIL 2	1		
Name	IP	MAC		Ver				
CH9121	192.168.0.200	84:C2:E4:24	:8C:1C	37	Mode:	TCP CLIE	NT 💌	(?)
					Local Port:	🕅 Random	2000	(?)
	1				Conn Type:	IP		(?)
					Dest IP:	192 . 16	8.0.201	(?)
					Dest Port:	2001		(?)
•	III				Baud:	9600	-	(?)
	Sear	ch			Data Bit:	8	-	(?)
					Stop Bit:	1	-	(?)
Reset	Load Co	nfig	Save C	onfig	Parity:	None	-	(?)
Basic					Conn Lost:	✓ Close	Conn	(?)
Vame:	CH9121		(?)		Pack Len:	1024	(<=1024)	(?)
DHCP:	🖂 On		(?)		Pack TimeOut	t: 0	(10ms)	(?)
??IP:	192 . 168 .	0.200	(?)		Reconnect:	□ Clear	r Buff	(?)
lask:	255 . 255 .	255 . 0	(?)					
Gate∛ay:	192 . 168 .	0.1	(?)					
Corial New	70. 🗆 On		(?)			Set A	LL	

5 Place the mouse on the "Network Icon" in the bottom-right corner of the screen and right-click "Open Network and Sharing Center" (as shown below)



6 Select the network information that this product is connected to the computer and click "Local Area Connection" (as shown below)

~ ~		
Control Panel	Network and Internet Network and Sharing Center	earch Control Panel
Control Panel Home	View your basic network information and set up connections	
Change adapter settings	💐 —— 💐 —— 🎱 See	full map
settings	WIN7-PC Network Internet (This computer)	
	View your active networks Connect or di	sconnect
	Network Access type: Internet Public network Connections: U Local Area Connection	>
	Change your networking settings	
	Set up a new connection or network	
	Set up a wireless, broadband, dial-up, ad hoc, or VPN connection; or set up a router or acce	ss point.
	Connect to a network	
	Connect or reconnect to a wireless, wired, dial-up, or VPN network connection.	
	Choose homegroup and sharing options	
	Access files and printers located on other network computers, or change sharing settings.	
	Troubleshoot problems	
	Diagnose and repair network problems, or get troubleshooting information.	
See also		
HomeGroup		
Internet Options		
Windows Firewall		

7 Click "Local Area Connection", then a window pops up and click "Properties (P)" (as shown below)

-		
Connection -		43.4 55
IPv4 Connec	tivity:	Internet
IPv6 Connec	tivity:	No Internet access
Media State:		Enabled
Duration:		02:34:10
Speed:		100.0 Mbps
Details		
Details Activity —		
Details	Sent —	Received
Activity	Sent — 47,691,372	Received

8 Select "Protocol Version 4 (TCP/IP v4)" in this window, then click "Properties (R)" and the right window pops up (as shown below)

Connect using: Preferred DNS server: Iternate DNS server: Alternate DNS server: Alterna		Alternate Configuration		
 Realtek PCle GBE Family Controller Configure Configure Configure Configure Obtain an IP address automatically Use the following IP address: IP address:	onnect using:	You can get IP settings assigned a	utomatically if your ne	atwork supports
Configure his connection uses the following items: Client for Microsoft Networks </td <td>Realtek PCIe GBE Family Controller</td> <td>for the appropriate IP settings.</td> <td>ed to ask your networ</td> <td>c administrator</td>	Realtek PCIe GBE Family Controller	for the appropriate IP settings.	ed to ask your networ	c administrator
 Install Uninstall Properties Description Transmission Control Protocol /Internet Protocol. The default 	Configure	Obtain an IP address automa	atically	
Client for Microsoft Networks QoS Packet Scheduler File and Printer Sharing for Microsoft Networks Intermet Protocol Version 6 (TCP/IPv6) Intermet Protocol Version 4 (TCP/IPv4) Install Uninstall Properties Description Transmission Control Protocol/Intermet Protocol. The default	is connection uses the following items:	- Use the following IP address:		
Subnet mask: Intermet Protocol Version 6 (TCP/IPv6) Intermet Protocol Version 4 (TCP/IPv4) Intermet Protocol Version 4 (TCP/IPv4) Install Uninstall Properties Description Transmission Control Protocol/Intermet Protocol. The default Subnet mask: Default gateway: Install Uninstall Properties Preferred DNS server: Alternate DNS server: Install	✓ Tient for Microsoft Networks ✓ ■QoS Packet Scheduler	IP address:		¥.
 Internet Protocol Version 6 (TCP/IPv6) Internet Protocol Version 4 (TCP/IPv6) Link-Layer Topology Discovery Mapper I/O Driver Link-Layer Topology Discovery Responder Install Uninstall Properties Default gateway: Install Properties Default gateway: Install Install Properties Alternate DNS server: Install 	File and Printer Sharing for Microsoft Networks	Subnet mask:		
Link-Layer Topology Discovery Mapper I/O Driver Link-Layer Topology Discovery Responder Install Uninstall Properties Description Transmission Control Protocol/Internet Protocol. The default	Internet Protocol Version 6 (ICP/IPv6) Internet Protocol Version 4 (TCP/IPv4)	Default gateway:		•
Install Uninstall Properties Description Alternate DN5 server: .	Link-Layer Topology Discovery Mapper I/O Driver Link-Layer Topology Discovery Responder	Obtain DNS server address a	utomatically	
Install Uninstall Properties Proferred DNS server: Description Transmission Control Protocol /Internet Protocol. The default		Use the following DNS server	addresses:	
Description Transmission Control Protocol/Internet Protocol. The default Alternate DNS server:	Install Uninstall Properties	Preferred DNS server:		
	Description Transmission Control Protocol/Internet Protocol The default	Alternate DNS server;	4 4	
wide area network protocol that provides communication across diverse interconnected networks.	wide area network protocol that provides communication across diverse interconnected networks.	Validate settings upon exit		Advanced

9 Change "Obtain the IP address automatically" and "Obtain the DNS server address automatically" to

"Use the following IP address" and "Use the following DNS server address" and fill in the segment parameters as shown below (as shown below)

u can get IP settings assigned au s capability. Otherwise, you need the appropriate IP settings.	tomatically if your network supports I to ask your network administrator
🕥 Obtain an IP address automati	cally
Use the following IP address:	
IP address:	192 . 168 . 0 . 100
Subnet mask:	255.255.255.0
Default gateway:	192.168.0.1
) Obtain DNS server address au	tomatically
Use the following DNS server a	ddresses:
Preferred DNS server:	192.168.0.1
Alternate DNS server:	
Validate settings upon exit	Advanced

10 Select "Port 1" and set it according to the contents in the serial number box shown in the picture below. Because the IP on the computer is set to "192.168.0.100", we must set the "destination IP" to "192.168.0.100"here to make the computer communicate with this product (as shown below)

		,oc comigaracio				
Name CH9121 1	IP 192.168.0.200 84	MAC :C2:E4:24:8C:1C	37 1	Mode: Local Port Conn Toe:	TCP CLIENT - Random 2000	(?) (?) (?)
•	III		2	Dest IP: Dest Port: Baud:	192 . 168 . 0 . 100 8080 9600 •	(?) (?) (?)
	Search			Data Bit: Stop Bit:	8	(?) (?)
Basic	CH9121	1g Save (Loniig	Parity: Conn Lost: Pack Len:	None Close Conn	(?) (?) (2)
DHCP:	Г On	(?)		Pack TimeOu	+• 0 (10ms)	(2)
?IP:	192 . 168 . 0) . 200 (?)		Reconnect:	Clear Buff	(?)
Mask:	255 . 255 . 25	55.0 (?)				
Gate₩ay:	192 . 168 . 0).1 (?)				
Serial Nego	: 🗆 On	(?)			Set ALL	

-	
You can get IP settings assign this capability. Otherwise, you for the appropriate IP settings	ed automatically if your network supports u need to ask your network administrator s.
🔘 Obtain an IP address aut	tomatically
Ose the following IP addr	ess:
IP address:	192 . 168 . 0 . 100
Subnet mask:	255 . 255 . 255 . 0
Default gateway:	192.168.0.1
Obtain DNS server addre	ess automatically
Ouse the following DNS se	rver addresses:
Preferred DNS server:	192.168.0.1
Alternate DNS server:	
Validate settings upon e	xit Advanced

11 After setting the content, click "Configure Device Parameters" to complete the configuration.

After completing the configuration, "Restart Complete" will be displayed in the bottom-left corner of the screen (as shown below)

Basic		Y	Conn Lost: 🔽 Close Conn	(?)
Name:	CH9121	(?)	Pack Len: 1024 (<=1024)	(?)
DHCP:	🗆 0n	(?)	Pack TimeOut: 0 (10ms)	(?)
??IP:	192 . 168 . 0 . 200	(?)	Reconnect: 🥅 Clear Buff	(?)
Mask:	255 . 255 . 255 . 0	(?)		
Gate\ay:	192 . 168 . 0 . 1	(?)	-	
Serial Nego	: 🗆 On	(?)	Set ALL	

12 Find two conductive copper wires and connect the wires according to the wiring method as shown below (as shown below)



13 Open "Serial Port Utility". If you don't have it, you can download it online and use it (as shown below)



14 Select the serial port No. of the conversion line on the "Port" option and fill in the corresponding serial number marked in the figure below. Finally, click "Open" to communicate. (as shown below)

Serial Port Utility	
ile Edit View Tools Help	
Serial Port Setting	
Port TCP/UDP	
Mode TCP Server	
Dert 9090	
Port Jauan	
Constitution	
connections	
Parala Cillar	
-keceive Setting	
• Text C Hex	
V Auto Feed Line	
Display Send	
Display Time	
Send Setting	Open
• Text C Hex	
Loop 1000 📩 ms	

15 At this time, you can see that the sending and receiving of data are the same, which means that the test result is normal and communication can be realized. (as shown below)

Serial Port Utility	
File Edit View Tools Help	
🖉 🔤 🕂 — 🕨 🖬 🔳 ≽	∓ ♀
Serial Port Setting Port TCP/JDP Mode TCP Server Port 8080	
Connections ::fff:192.168.0.200:2000	
Receive Setting Image: Text Image: Text	
Send Setting 123	
Listening on 0.0.0.0:8080 Rx: 9 Bytes	Tx: 9 Bytes

Application Mode D

1 Before starting, please connect the product to the power supply and connect the network interface of the product to the computer with the network cable.

2 Open the "NetModuleConfig" configuration tool (as shown below)



Module Lis	t(Double Click to get	configurati	.on)	Port I	
Name	IP	MAC	Ver		
				Mode: TCP SERVER -	(?)
				Local Port: 🗖 Random 🛛	(?)
				Conn Type: IP 🚽	(?)
				Dest IP:	(?)
•				Dest Port: 0	(?)
				Baud:	(?)
	Search	$\rightarrow \leftarrow$		Data Bit: 🗾 🗸	(?)
				Stop Bit: 🗾 🗸	(?)
Reset	Load Config	Save	Config	Parity:	(?)
Basic				Conn Lost: 🧮 Close Conn	(?)
Vame:		(?)	Pack Len: 0 (<=1024)	(?)
DHCP:	🗆 On	(?)	Pack TimeOut: 0 (10ms)	(?)
??IP:		• (?)	Reconnect: 🦵 Clear Buff	(?)
lask:	· · ·	• (?)		
Gate¥ay:	· ·	• (?)		
		1.	×	C + 411	

4 Double-click the "IP address on the list" to read the product information (as shown below)

Module L	ist(Double Click	to get configuratio	in)	1	1	
Name	IP	MAC	Ver			
CH9121	192. 168. 0. 200	84:C2:E4:24:8C:1C	37	Mode:	TCP CLIENT	(?)
				Local Port:	□ Random 2000	(?)
				Conn Type:	IP 💌	(?)
				Dest IP:	192 .168 . 0	. 201 (?)
				Dest Port:	2001	(?)
•				Baud:	9600 💌	(?)
	Sea	rch		Data Bit:	8 🗸	(?)
				Stop Bit:	1 -	(?)
Reset	Load C	onfig Save	Config	Parity:	None 👻	(?)
Basic				Conn Lost:	🔽 Close Conn	(?)
lame:	CH9121	(?)		Pack Len:	1024 (<=1	024) (?)
DHCP:	🗆 On	(?)		Pack TimeOut	t: 0 (1	Oms) (?)
?IP:	192 . 168	. 0 . 200 (?)		Reconnect:	🗖 Clear Buff	(?)
lask:	255 . 255	. 255 . 0 (?)				
ateWay:	192 . 168	. 0 . 1 (?)				
·	arat 🖂 On	(2)			TIù te2	

5 Place the mouse on the "Network Icon" in the bottom-right corner of the screen and right-click "Open Network and Sharing Center" (as shown below)



6 Select the network information that this product is connected to the computer and click "Local Area Connection" (as shown below)

1

Control Panel Home	View your basic network information and set up conn	ections	
Change adapter settings Change advanced sharing	WINT-PC Network	See full map	
settings	(This computer)	Internet	
	View your active networks	Connect or disconnect	
	Network Access type	e: Jatemer	
	Public network Connection	ns: 🚇 Local Area Connection	
	Change your networking settings		
	🔩 Set up a new connection or network		
	Set up a wireless, broadband, dial-up, ad hoc, or VPN conne	ction; or set up a router or access point.	
	Connect to a network		
	Connect or reconnect to a wireless, wired, dial-up, or VPN n	etwork connection.	
	Choose homegroup and sharing options		
	Access files and printers located on other network computer	rs, or change sharing settings.	
	Troubleshoot problems	no information	
	blagnose and repair network problems, or get troubleshoot	ng information.	
See also			
HomeGroup			
Internet Options			
Mindows Firewall			

7 Click "Local Area Connection", then a window pops up and click "Properties (P)" (as shown below)

Connection		
IPv4 Connect	tivity:	Internet
IPv6 Connect	tivity:	No Internet access
Media State:	avity.	Enabled
Duration:		02:34:10
Speed:		100.0 Mbos
Details		
Details		
Details	Sent — 🔎	— Received
Details Activity Bytes:	Sent — 57,691,372	— Received 227,526,949

8 Select "Protocol Version 4 (TCP/IP v4)" in this window, then click "Properties (R)" and the right window pops up (as shown below)

	Volucen get IP settings assigned a	itomatically if your pati	work supports
Realtek PCIe GBE Family Controller	this capability. Otherwise, you nee for the appropriate IP settings.	d to ask your network a	administrator
Configure	Obtain an IP address automatic	tically	
his connection uses the following items:	Use the following IP address:		
✓ Client for Microsoft Networks ✓ ■QoS Packet Scheduler	IP address:		
File and Printer Sharing for Microsoft Networks	Subnet mask:	14 14	
Internet Protocol Version 6 (ICP/IPv6) Internet Protocol Version 4 (TCP/IPv4)	Default gateway:	+ +	
Link-Layer Topology Discovery Mapper I/O Driver Link-Layer Topology Discovery Responder	Obtain DNS server address at	utomatically	
	Use the following DNS server	addresses:	
Install Uninstall Properties	Preferred DNS server:		
Description Transmission Control Protocol/Internet Protocol. The default	Alternate DNS server;	4 4	
wide area network protocol that provides communication across diverse interconnected networks.	Validate settings upon exit		Advanced

9 Change "Obtain the IP address automatically" and "Obtain the DNS server address automatically" to

"Use the following IP address" and "Use the following DNS server address" and fill in the segment parameters as shown below (as shown below)

s capability. Otherwise, you need the appropriate IP settings.	tomatically if your network supports to ask your network administrator
) Obtain an IP address automatic	cally
Use the following IP address:	
P address:	192.168.0.100
Subnet mask:	255.255.255.0
Default gateway:	192.168.0.1
) Obtain DNS server address aut	comatically
Use the following DNS server a	ddresses:
Preferred DNS server:	192.168.0.1
Alternate DNS server:	
Validate settings upon exit	Advanced

10 Open the configuration tool, select "Port 1" and set it according to the contents in the serial number box shown in the picture below (as shown below)

Module Li	ist (Double Click	to get confi	guratior	υ		\mathcal{O}	1.		
Name	IP	MAC		Ver	1				
CH9121	192.168.1.200	84:C2:E4:24	l:8C:1C	37	DÍ	Mode:	TCP SERVER	-	(?)
						Local Port:	🗖 Random 🛛	2001	(?)
						Conn Lype:	IP _	-	(?)
						Dest IP:	192 .168	. 1 .201	(?)
				_		Dest Port:	2001		(?)
· [Baud:	9600	•	(?)
	Sea	irch				Data Bit:	8	•	(?)
	F					Stop Bit:	1	•	(?)
Reset	Load	Config	Save C	onfig		Parity:	None	-	(?)
Basic —		6 6				Conn Lost:	☑ Close Co	nn	(?)
lame:	CH9121		(?)			Pack Len:	1024	(<=1024)	(?)
DHCP:	[] 0n	3	(?)			Pack TimeOut	t: 0	(10ms)	(?)
??IP:	192 . 168	. 1 . 201	(?)			Reconnect:	🗖 Clear 🗧	Buff	(?)
lask:	255 . 255	. 255 . 0	(?)						
ateWay:	192 . 168	. 1 . 1	(?)		_				
	E on		(2)		Г				

11 After setting the content, click "Configure Device Parameters" to complete the configuration.

After completing the configuration, "Restart Complete" will be displayed in the bottom-left corner of the screen (as shown below)

??IP:	192 . 168 . 1 . 201	(?)	Reconnect: T Clear Buff (?)
Mask:	255 . 255 . 255 . 0	(?)	
GateWay:	192 . 168 . 1 . 1	(?)	
Serial Nego	: 🗆 On	(?)	Set ALL
Operation St	tatus Rebooting finished	~ "	

Notice: At this step, you need to unplug the front product and replace it with another one to connect it to the following operations.

12 Select "Port 1" and set it according to the contents in the serial number box shown in the picture below. Because the IP on the other product is set to "192.168.0.201", we must set the "destination IP" to "192.168.0.201" and the "Destination Port No." to "2001" here to make the computer communicate with this product (as shown below)

Name	IP	MAC	Ver 👩				
CH9121	192.168.1.201	84:C2:E4:24:8E:D5	37	Mode: Local Port: Conn Type: 2	TCP CLIENT	• 2000	(?) (?) (?)
•			•	Dest IP: Dest Port: Baud:	9600	. 1 .201 •	(?) (?) (?)
Reset	Se:	arch Config Save (Config	Data Bit: Stop Bit: Parity: Comp Lost:	8 1 None	• • •	(?) (?) (?) (2)
Dasic Name: DHCP: ??IP:	CH9121	(?) (?) . 1 . 200 (**)	3	Pack Len: Pack TimeOur Reconnect:	1024 t: 0 Clear 1	(<=1024) (10ms) Buff	(?) (?) (?)
Mask: GateWay: Serial Ne	255 . 255 192 . 168 go: □ 0n	. 255 . 0 (?) . 1 . 1 (?) (?)			Set ALL		

13 After setting the content, click "Configure Device Parameters" to complete the configuration.

After completing the configuration, "Restart Complete" will be displayed in the bottom-left corner of the screen (as shown below)

??IP:	192 . 168	. 1	. 200	(?)	Reconnect:	🗖 Clear Buff	(?)
lask:	255 . 255	. 255	. 0	(?)			
Gate¥ay:	192 . 168	. 1	. 1	(?)			
Serial Nego:	🗆 On			(?)	C	Set ALL	>

14 Find two conductive copper wires and connect the wires according to the wiring method as shown below (as shown below)



15 Find another USB to RS485 conversion cable to connect RS485_A+/B- with the RS485_A+/B- of this product (serial server) (as shown below)



16 Open "Serial Port Utility". If you don't have it, you can download it online and use it (as shown below)



17 Select the serial port No. of the conversion line on the "Port" option and fill in the corresponding serial number marked in the figure below. Finally, click "Open" to communicate. (as shown below)

Serial Port Utility	
File Edit View Tools Help	
Serial Port Setting	
Port USB Serial Port(O 1	
Baudrate 9600	
Data Bits 8	
Parity None	
Stop Bits 1	
Flow Type None	
Receive Setting	
© Text C Hex	
Auto Feed Line	
Display Send	4
Display Time	- \
Send Setting	
© Text C Hex 123	Send
✓ Loop 1000 ÷ ms	
123	-
COM3 OPENED, 9600, 8, NONE, 1, OFF Rx: 0 Bytes Tx: 0 Bytes	//,

18 At this time, you can see that the sending and receiving of data are the same, which means that the test result is normal and communication can be realized. (as shown below)

File Edit View Tools Help Serial Port Setting Port USB Serial Port(C ▼ Baudrate 9600 ▼ Data Bits 8 ▼ Parity None ▼ Stop Bits 1 ▼ Plow Type None ▼ 23 24 <th>🔤 Serial Port Utility</th> <th></th> <th></th>	🔤 Serial Port Utility		
Serial Port Setting 23 Port USB Serial Port(C) Baudrate 9600 Data Bits 9 Parity None Parity Parity Parity None Parity Parity Parity	File Edit View Tools Help		
Serial Port Setting 23 Port USB Serial Port(C) V 123 Baudrate 9600 V 123 Data Bits 8 V 123 Parity None V 123 Stop Bits 1 V 123 I23 123 I23 123 I23 123 Stop Bits 1 V 123 I23 123 <tr< th=""><th>u 🔤 🕂 — 🕨 🚺</th><th>N 🕂 🔅</th><th></th></tr<>	u 🔤 🕂 — 🕨 🚺	N 🕂 🔅	
Image: Display Time 123 Image: Display Time 123 Image: Display Time 123 Image: Display Time 123	Serial Port Setting 121 Port USB Serial Port(○ ▼ Baudrate 9600 ▼ Data Bits 8 Parity None Stop Bits 1 Flow Type None Receive Setting 122 © Text ⊂ Hex ✓ Auto Feed Line □ Display Send		
Send Setting 123 Image: Text C Hex	Display Time		
	Send Setting 123	3	Send
		u 12 Didas	<u> </u>

Application Mode E

1 Before starting, please connect the product to the power supply and connect the network interface of the product to the computer with the network cable.

2 Open the "NetModuleConfig" configuration tool (as shown below)



3 Click "Search Device" (as shown below)

NOULLE LISC	(DOUDLE CIICK (O	get contract				
Name	IP	MAC	Ver ,	Mode: Local Port: Conn Type: Dest IP: Dest Port: Baud:	ICP SERVER Random IP . 0	(?) (?) (?) (?) (?) (?)
	Search	` +		Data Bit: Stop Bit:		(2)
Reset	Load Cont	i Save	Config	Data Bit: Stop Bit: Parity:		(?) (?)
Reset Basic	Load Cont	i Save	Config	Data Bit: Stop Bit: Parity: Conn Lost:	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓	(?) (?) (?)
Reset Basic Name:	Load Cont	ig Save	Config)	Data Bit: Stop Bit: Parity: Conn Lost: Pack Len:	▼ ▼ Close Conn 0 (<=1024)	(?) (?) (?) (?)
Reset Basic Name: DHCP:	Load Cont	ig Save	Config))	Data Bit: Stop Bit: Parity: Conn Lost: Pack Len: Pack TimeOut	Image: Constant of the second secon	(?) (?) (?) (?) (?)
Reset Basic Mame: DHCP: ??IP:	Load Cont	7ig Save (? . (?	Config)))	Data Bit: Stop Bit: Parity: Conn Lost: Pack Len: Pack TimeOur Reconnect:	Close Conn Close Conn (<=1024) t: 0 (10ms) Clear Buff	(7) (7) (7) (7) (7) (7) (7)
Reset Basic Name: DHCP: ??IP: Mask:	Load Cont	Save (?) (?) (?) (?) (?) (?) (?) (?) (?)	Config)))	Data Bit: Stop Bit: Parity: Conn Lost: Pack Len: Pack TimeOur Reconnect:	Close Conn Close Conn (<=1024) t: 0 (10ms) Clear Buff	(?) (?) (?) (?) (?) (?)
Reset Basic Name: DHCP: ??IP: Nask: ;ateWay:	Load Cond	Save (? · (? · (? · (? · (? · (? · (? · (?	Config))))	Data Bit: Stop Bit: Parity: Conn Lost: Pack Len: Pack TimeOur Reconnect:	▼ ▼ Close Conn 0 (<=1024) t: 0 (10ms) □ Clear Buff	(7) (7) (7) (7) (7) (7) (7)

4 Double-click the "IP address on the list" to read the product information (as shown below)

Module List	(Double Click to get confi	guration) ———			
Name	IP MAC	Ver			
CH9121 🤇	192.168.1.200 84:C2:E4:24	l:8E:D5 37	Mode:	TCP SERVER -	(?)
	1		Local Port:	🗆 Random 2000	(?)
			Conn Type:	IP 💌	(?)
1			Dest IP:	192 .168 . 1 .100	(?)
			Dest Port:	1000	(?)
۹ [III		Baud:	9600 👻	(?)
	Search		Data Bit:	8 💌	(?)
			Stop Bit:	1 -	(?)
Reset	Load Config	Save Config	Parity:	None 💌	(?)
Basic			Conn Lost:	🔽 Close Conn	(?)
lame:	CH9121	(?)	Pack Len:	1024 (<=1024)	(?)
DHCP:	🗖 0n	(?)	Pack TimeOut	t: 0 (10ms)	(?)
?IP:	192 . 168 . 1 . 200	(?)	Reconnect:	🗖 Clear Buff	(?)
lask:	255 . 255 . 255 . 0	(?)			
ate\ay:	192 . 168 . 1 . 1	(?)			
Coriol Noro	• 🗆 On	(?)		Set ALL	

5 Place the mouse on the "Network Icon" in the bottom-right corner of the screen and right-click "Open Network and Sharing Center" (as shown below)





6 Select the network information that this product is connected to the computer and click "Local Area Connection" (as shown below)

Control Panel	Network and Internet Network and Sharing Center	▼ ↓ Search Control Panel	
		,	
Control Panel Home	View your basic network information and set up conn	ections	
Change adapter settings	·····)	See full map	
Change advanced sharing	N	- 6	
settings	WIN7-PC Unidentified network	Internet	
	View your active networks	Connect or disconnect	
	The your detre networks	connect of disconnect	
	Unidentified network Access typ	No Internet access	
	Public network Connection	ns: 🚆 Local Area Connection	
	Change your networking settings		
	Set up a new connection or network		
	Set up a wireless, broadband, dial-up, ad hoc, or VPN conne	ection; or set up a router or access point.	
	Connect to a network		
	Connect or reconnect to a wireless, wired, dial-up, or VPN n	etwork connection.	
	Choose homegroup and sharing options	7 7 7	
	Access files and printers located on other network compute	rs, or change sharing settings.	
	Troubleshoot problems		
	Diagnose and repair network problems, or get troubleshoot	ing information.	
See also			
HomeGroup			
Internet Options			
Windows Firewall			

7 Click "Local Area Connection", then a window pops up and click "Properties (P)" (as shown below)

Connection	
IPv4 Connectivity:	Internet
IPv6 Connectivity:	No Internet access
Media State:	Enabled
Duration:	02:34:10
Speed:	100.0 Mbps
Activity	Sent — 💵 — Received
Activity Bytes:	Sent — Received 7,691,372 227,526,949

8 Select "Protocol Version 4 (TCP/IP v4)" in this window, then click "Properties (R)" and the right window pops up (as shown below)

	Value can get TD settings assigned au	tomatically if		atuark support
Realtek PCIe GBE Family Controller	this capability. Otherwise, you need for the appropriate IP settings.	to ask your	netwo	'k administrator
Configure	Obtain an IP address automati	cally		
This connection uses the following items:	Use the following IP address:			
Client for Microsoft Networks	IP address:		- S.	40
✓ ■ File and Printer Sharing for Microsoft Networks	Subnet mask:	12	- G2	4
✓ Internet Protocol Version 6 (TCP/IPv6) ✓	Default gateway:		*	
	Obtain DNS server address au	tomatically		
	Use the following DNS server a	ddresses:		
Install Uninstall Properties	Preferred DNS server:			
Description Transmission Control Protocol/Internet Protocol The default	Alternate DNS server:		3	
wide area network protocol that provides communication across diverse interconnected networks.	Validate settings upon exit			Advanced.

9 Change "Obtain the IP address automatically" and "Obtain the DNS server address automatically" to

"Use the following IP address" and "Use the following DNS server address" and fill in the segment parameters as shown below (as shown below)

u can get IP settings assigned aut is capability. Otherwise, you need r the appropriate IP settings.	omatically if your network supports to ask your network administrator
🔘 Obtain an IP address automatic	ally
Our of the second se	
IP address:	192.168.0.100
Subnet mask:	255.255.255.0
Default gateway:	192.168.0.1
) Obtain DNS server address aut	omatically
Ouse the following DNS server address of the server address of	ddresses:
Preferred DNS server:	192.168.0.1
Alternate DNS server:	1. 1. Y
Validate settings upon exit	Advanced

10 Open the configuration tool, select "Port 1" and set it according to the contents in the serial number box shown in the picture below (as shown below)

Name	IP	MAC		Ver	1	Г		1
CH9121	192.168.1.200	84:C2:E4:24:	8E:D5	37	0 ′	Mode:	UDP SERVER 💌	(?)
						Local Port:	🗆 Random 2001	(?)
						Conn Type:	IP 💌	(?)
					0	Dest IP:	192 . 168 . 1 . 200	(?)
					-	Dest Port:	2000	(?)
·						Baud:	9600 💌	(?)
Search				Data Bit:	8 🗨	(?)		
		F			1	Stop Bit:	1 💌	(?)
Reset	Load (Config	Save C	onfig		Parity:	None	(?)
Basic —					ř	Conn Lost:	🔽 Close Conn	(?)
Name:	CH9121		(?)			Pack Len:	1024 (<=1024)	(?)
DHCP:	🗖 0n	3	(?)			Pack TimeOu	t: 0 (10ms)	(?)
??IP:	192 . 168	. 1 . 201	(?)			Reconnect:	🗖 Clear Buff	(?)
Wask:	255 . 255	.255 . 0	(?)					
Gate\ay:	192 . 168	. 1 . 1	(?)					
Serial Ne	ego: 🗆 On		(?)				Set ALL	

11 After setting the content, click "Configure Device Parameters" to complete the configuration.

After completing the configuration, "restart complete" will be displayed in the bottom-left corner of the screen (as shown below)

Module Li	ist(Double Click	to get configuratio	n)	TOLC I		
Name	IP	MAC	Ver			
CH9121	192.168.1.200	84:C2:E4:24:8E:D5	37	Mode:	UDP SERVER 💌	(?)
				Local Port:	□ Random 2001	(?)
				Conn Type:	IP 🔹	(?)
				Dest IP:	192 . 168 . 1 . 2	00 (?)
				Dest Port:	2000	(?)
•		1	•	Baud:	9600 👻	(?)
Search				Data Bit:	8 🔹	(?)
				Stop Bit:	1	(?)
Reset	Load (Config Save C	Config	Parity:	None	(?)
Basic				Conn Lost:	🔽 Close Conn	(?)
Name:	CH9121	(?)		Pack Len:	1024 (<=1024)	(?)
DHCP:	🗖 0n	(?)		Pack TimeOut	: 0 (10ms)	(?)
??IP:	192 . 168	. 1 . 201 (?)		Reconnect:	□ Clear Buff	(?)
Mask:	255 . 255	. 255 . 0 (?)				
GateWay:	192 . 168	. 1 . 1 (?)				
Seriel Ne		(?)			Set ALL	

Notice: At this step, you need to unplug the front product and replace it with another one to connect it to the following operations.

12 Select "Port 1" and set it according to the contents in the serial number box shown in the picture below. Because the IP on the other product is set to "192.168.0.201", we must set the "destination IP" to "192.168.0.201" and the "Destination Port No." to "2001" here to make the computer communicate with this product (as shown below)

Module Lis	t(Double Click	to get configurati	ion) — 🦷 🤇	Fort 2	L	
Name	IP	MAC	Ver 1	T		_
CH9121	192.168.1.201	84:C2:E4:24:8C:10	C 37	Mode:	UDP CLIENT 💌	(?)
				Local Port:	🗖 Random 2000	(?)
				Conn Type:	IP 🔹	(?)
				Dest IP:	192 . 168 . 1 . 201	. (?)
				2 Dest Port:	2001	(?)
• F				Baud:	9600 👤	(?)
Search				Data Bit:	8 🗸	(?)
				Stop Bit:	1 •	(?)
Reset	Load C	Config Save	Config	Parity:	None	(?)
Basic				Conn Lost:	🔽 Close Conn	(?)
Vame:	CH9121	3 (?	?)	Pack Len:	1024 (<=1024)	(?)
DHCP:	🗆 On		?)	Pack TimeOur	t: 0 (10ms)	(?)
??IP:	192 . 168	. 1 . 200 (?	?)	Reconnect:	🗖 Clear Buff	(?)
lask:	255 . 255	. 255 . 0 (?	?)			
ate∛ay:	192 . 168	. 1 . 1 (?	?)			
Serial Neg	o. E On	(?	2)		Set ALL	

13 After setting the content, click "Configure Device Parameters" to complete the configuration.

After completing the configuration, "restart complete" will be displayed in the bottom-left corner of the screen (as shown below)

??IP:	192 . 168 . 1 . 200	(?)	Reconnect: 🗌 Clear Buff (?)
Mask:	255 . 255 . 255 . 0	(?)	
Gate\ay:	192 . 168 . 1 . 1	(?)	
Serial Nego:	🗆 On	(?)	Set ALL

14 Find two conductive copper wires and connect the wires according to the wiring method as shown below (as shown below)



15 Find another USB to RS485 conversion cable to connect RS485_A+/B- with the RS485_A+/B- of this product (serial server) (as shown below)



16 Open "Serial Port Utility". If you don't have it, you can download it online and use it (as shown below)



17 Select the serial port No. of the conversion line on the "Port" option and fill in the corresponding serial number marked in the figure below. Finally, click "Open" to communicate. (as shown below)

Serial Port Utility			
File Edit View Tools Help			
	📕 ≽ ∓ 🔅		
Serial Port Setting			
Port USB Serial Port(C 💌	- 0		
Baudrate 9600 💌			
Data Bits 8			
Parity None			
Stop Bits 1			
Flow Type None			
Receive Setting			
Auto Feed Line	2		
🗖 Display Send		4	
Display Time			
Send Setting			
	123		Send
✓ Loop 1000 ÷ ms			
	123		•
COM3 OPENED, 9600, 8, NONE, 1, OF	Rx: 0 Bytes	0 Bytes	

18 At this time, you can see that the sending and receiving of data are the same, which means that the test result is normal and communication can be realized. (as shown below)

