



SLK-S502 Serial Server Instruction manual



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Chapter 1 Product Introduction

1.1 Product Brief



SERIALLINK SLK-S502 serial server converts multi-channel decentralized, low-speed, and different standard serial devices into Ethernet for centralized management. After installing the virtual serial port, it can realize remote reading of serial data. SLK-S502 serial server supports multiple working modes, including TCP server mode, TCP client mode, UDP mode, TCP/UDP Socket, Modbus RTU to Modbus TCP Server and other working modes, allowing user software to access the serial port through TCP plus port number Line equipment. In addition, it also supports virtual serial port access to serial devices. SERIALLINK SLK-S502 supports convenient and quick manual configuration of the IP address through a browser or Telnet terminal. At the same time, users can also use the easy-to-use Windows management software to automatically search for serial server devices in the LAN, and perform applications such as remote configuration management and working status monitoring.

特点**:**

- ✓ 2 x Adaptive 10/100/1000M Ethernet
- ✓ 1x R232 serial port (interface is RJ45)
- ✓ 1x RS485 serial port (interface as terminal)
- ✓ 4 x Digital DI input
- ✓ 1x Digital quantity DO output, relay output
- ✓ RS485 serial port with TVS, ESD protection
- ✓ RS232 serial port with ESD protection
- Multiple working modes: TCP server, UDP working mode, TCP client mode, Modbus RTU to Modbus TCP Server mode
- ✓ Support WEB and Telnet two configuration methods
- ✓ Wide voltage: DC9-28V power supply



1.2 Detailed parameters

item	description Dual-Core 880MHZ				
CPU					
RAM	1Gb DDR3 RAM default, can be customized to support 4Gb DDR3 RAM maximum				
NAND Flash	128Mbytes default				
Ethernet	Number of interfaces:2				
interface	speed: 10/100 /1000Mbps, auto MDI/MDIX				
	Connector:8-pin RJ45				
	protect: 2.4 kV built-in				
	defaultIP:192.168.0.233				
Serial port	Number of serial ports:2,1x RS232,1x RS485				
	The first channel is the RS232 serial port (RJ45) definition				
	Note: RXD, TXD, GND are connected with the previous terminal definitions to facilitate				
	terminal wiring)				
	The second serial port RS485-definition				
	RS-485-2w: A,B				
Serial parameter	Data bit: 5, 6, 7, 8				
	Stop bits: 1, 1.5, 2				
	Check Digit: None, Even, Odd				
	Baud rate: 300bps to 115200 kbps				
Serial port	RS232/485 with 15 kV ESD protection				
protection	RS232/485 with TVS protection				
	RS-485Terminal resistance: 120 Ω				
Software	Network protocol: TCP, UDP, DHCP ,DNS				
performance	Configuration method: Web configuration				
	Working mode: TCP Server, TCP client, UDP, Modbus RTU to Modbus TCP Server				
	Windows 95/98/ME/NT/2000, Windows				
	XP/2003/Vista/2008/7/8/8.1/10 (x86/x64), Windows 2008 R2/2012/2012				
	R2 (x64)				
	Use the IP address and port number to access the serial port under LINUX				
Physical	Material: iron				
parameter	Dimensions with mounting accessories86mm x 70mm x 25mm				
temperature	Operating temperature: -40 to 75°C (-40 to 167°F)				
	storage temperature: -40 to 85°C (-40 to 167°F)				
	Relative humidity: 5 to 95%				
power supply	Input voltage: DC9-28V				
Warranties	2 year				



1.3 Appearance Design

1.3.1 Product Size





1.3.2 Appearance instructions



Figure	1
Figure	т

		•	
RS232	WAN/LAN2	LAN1	Reset
Serial port	Network port	Network port	Restore factory settings button

		Figure 2
PWR	Power indicator light	Always bright: Equipment power supply is normal
		Not bright: The device is not powered, please check whether the voltage
		is 9-28V
SYS	System indicator light	Flashing: Is now Entering the system
		Always bright(Very bright): The equipment is running
		Always bright(Slightly bright): The system does not start
LAN1	LAN 1 network port	Flashing/Always bright: Access network
	indicator	Not bright: Not connected to the network
LAN2	WAN/LAN2 network	Flashing/Always bright: Access network
	port indicator	Not bright: Not connected to the network



		Figure 3
category	parameter	Description
POWER	V+	
	V-	Power input 9-28V
RS458	В	RS458 Negative end
	A	RS458 Positive end
RS232	TXD	RS232 Signal sending end
	RXD	RS232 Signal receiving end
	GND	Ground terminal end
Din	DIN1	
	DIN2	
	DIN3	Switching value input end
	DIN4	
	12VDD	High level output of switching value
Dout	DO1	Switching value output end
	COM1	Switching value output public end
	DO2	Switching value output end
	COM2	Switching value output public end



Chapter 2 Parameters configuration

2.1 Preparation before serial port server configuration

Connect one of the LAN ports of the serial server directly to a computer or to a switch. Before logging in to the Web setting page of the serial server, you need to make sure that the management computer has an Ethernet card installed.

2.1.1 Set a static IP address.

Please set the IP address of the management PC (for example, set it to: 192.168.0.185) and the IP address of the device's LAN port in the same network segment (the initial IP address of the device's LAN port is: 192.168.0.233, and the subnet mask is 255.255. 255.0).

Start>>>Settings>>>Control Panel>>>Network&Internet>>>Ethernet>>>Network and Sharing Center,Modify as follows:

→ ↑ ↑ Second Panel → All	Control Panel Items > Network and Shar	ing Center		Search Control Par
<u>E</u> dit <u>V</u> iew <u>T</u> ools				
Control Panel Home View	your basic network information	and set up connections		
View y	our active networks			
Change advanced sharing	络2	Access type: Internet		
settings Pri	vate network	Connections: 📮 Ethernet		
Media streaming options				
Chang	e your networking settings			
*	Set up a new connection or network			
-	Set up a broadband, dial-up, or VPN cr	onnection; or set up a router or access point.		
	Troubleshoot problems			
	Diagnose and repair network problem:	s, or get troubleshooting information.		
Ethernet Status	X	Ethernet Properties	X Internet 协议版本 1 (TCP/ID)(1) Properties	
culture status		Lutemet Properties	A Internet (Storer 4 (Territria) Properties	
eneral	1	Jetworking Sharing	General	
19 - 20		Connect using:	You can get IP settings assigned automatically	f your petwork curports
Connection		Penkek PCIe ChE Enmily Centreller #2	this capability. Otherwise, you need to ask you	network administrator
IPv4 Connectivity:	Internet	Pealer FCIe GDE Failing Controller #2	for the appropriate IP settings.	
IPv6 Connectivity:	No network access	Config	gure	
Media State:	Enabled	This connection uses the following items:	Outrain air tr address addiniadcairy	
Duration:	00:14:16	☑ 駅 Microsoft 网络客户端	Use the following IP address:	
speed:	100.0 Mbps	VMware Bridge Protocol	IP address: 192 .	168 . 0 . 185
Details		☑ Wicrosoft 网络的文件和打印机共享	Subnet mask: 255 .	255 . 255 . 0
		✓ Ypcap Packet Driver (NPCAP)	Default gateway: 192 .	168 . 0 . 1
		✓ GOS 数据已计划程序	Dendar gateria)	
		□ Microsoft 网络话配器多路传送器协议	Obtain DNS server address automatically	
Activity				
Activity		<	Use the following DNS server addresses:	
Activity Sent 📕	Received	<	Use the following DNS server addresses:	541 - 54
Activity Sent	Received	Install Uninstall Propert Propert	O Use the following DNS server addresses:	•••
Activity Sent Bytes: 2,030,458		< Install Uninstall Proper Description 株会社や制化 いい に また いい の は な い の に また いい の に また いか の に また いい の に また いた の に また いい の に また いい の に また いい の に また いい の に また れた いい の に また れた いい の に また いた これ れた いれた れた れた いい の に また れた れた れた いれた れた れ	OUse the following DNS server addresses: Preferred DNS server: Alternate DNS server:	•••
Activity Sent Bytes: 2,030,458	Received	Install Uninstall Proper Description 传報記書制协议/Internet 协议。该协议是默认的广顿和 协议,用于在不同的担互连接的网络上通信。	・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・	•••
Activity Sent Bytes: 2,030,458	Received 11,619,797	Install Uninstall Proper Description 传輸記動协议/Internet 协议。该协议是默认的广场 协议。用于在不同的相互连接的网络上通信。	OUse the following DNS server addresses: Preferred DNS server: Alternate DNS server: Validate settings upon exit	· · ·
Activity Sent Bytes: 2,030,458	Received 11,619,797 Diagnose	Install Uninstall Proper Description 传输控制协议/Internet 协议。该协议是默认的广场政 协议•用于在不同的相互连接的网络上通信。	OUse the following DNS server addresses: Preferred DNS server: Alternate DNS server: Validate settings upon exit	Advanced



2.1.2 Get IP

The network protocol of the LAN setting is DHCP (dynamic allocation) or you forget the IP address of the LAN port currently set, you can use the tool Seriallinkv1.2.exe to get the device IP information, as shown in the figure (LAN has been set to DHCP), search The IP address of the device model SLK-S502 is 192.168.20.182, and then the network bit in the IP address of the PC is changed to 192.168.20, see 2.1.1 for details.

操作栏		配置				
		选择MACt	也址: 46:DA:B0:04:	63:FE ×	~ 重启	
	清除 搜索	设置临时	IJIP:		当前恢复出厂	清除设备缓存
		主相	机名:		保存	
域网内 [:]	 设备		×. ×.			
养 号	MAC地址	IP地址	设备型号	主机名	USB	运行时间
	46:DA:B0:04:63:FE	192.168.20.182	SLK-S502	SLK		51分钟 55秒

Double-click the SLK-S502 device information, you can also set temporary IP, change the host name, restart, restore factory settings and other operations.

Note: After logging in with the modified temporary IP, if the LAN protocol is static, it is recommended to reset and save in the LAN settings to change it back to the original IP address. For details, see 2.3.1 to change the device to the original address.



2.2 Login configuration page

Open IE or other browsers, enter the LAN port IP address in the address bar (default is 192.168.0.233), after the connection is established, in the pop-up login interface, log in as the system administrator (admin), that is, in the login interface Enter the password (the factory default setting of the password is admin).

🗟 SLK - LuCl 🗙 🕇		∨ – □ X
← → C ▲ Not secure 192.168.0.2	233/cgi-bin/luci	🕶 Q 🖄 🖈 🥥 :
🏥 Apps 🦊 Sign in - GitLab 🕒 阿里云		🔠 Reading list
串口通讯服务器 SERIAL DEVICE SERVER		智慧通信 创领互联
	Language : English v Authorization Required Password ·····	
		Copyright ©2013-2021 Seriallink inc, All rights reserved.

The default login password is admin. If the user needs to protect the configuration interface and avoid being modified by others, you can modify the login password. For detailed operations, please refer to 3.4.



2.3 Network Setting

2.3.1 Modify the static login page address

The default static address of the serial server is 192.168.0.233. You can see the network information in the navigation bar "Network Setting" >>> "LAN Setting". You can also modify the static IP address, and after the modification, the new IP address will be used to log in to the page.

串口通讯服务器 SERIAL DEVICE SERVER	P			智慧通信 创领互联
Routing Status	Network Configuration			
Serial Utility				
Network Setting	LAN Configuration			
WAN Setting	Status	Device: br-lan Uptime: 1h 1m 38s MAC: 22:F3:49:F5:FA:9B		
LAN Setting		RX: 1.59 MB (12988 Pkts.) TX: 392.97 KB (2780 Pkts.)		
Routing Setting		IPv4: 192.168.0.233 IPv6: fd8e:9fa8:d055::1		
Switch Control	Network Proto	STATIC	~	
to Equipment Manage	IP Address	192.168.0.233		
G→ Logout	Netmask	255.255.255.0	~	
	Gateway			
	DNS		+	
				SAVE & APPLY RESET

2.3.2 DHCP

The LAN port of the serial server is connected to a switch or router, and you can select the DHCP network protocol to automatically obtain an IP address.after the computer is connected to the switch, log in to the page through the IP automatically obtained by the serial server DHCP. At this time, the IP of the serial server is assigned by the upper-level router. You need to check which IP the upper-level router assigns to the serial server, or use Seriallinkv1.2.exe Software, obtain the IP address, see 2.1.2 for details.

串口通讯服务器 SERIAL DEVICE SERVER	Ê		
Routing Status	Network Configuration		
■ Serial Utility			
Network Setting	LAN Configuration		
WAN Setting	Status	Device: br-lan Uptime: 6h 36m 47s	
LAN Setting		MAC: F2:E0:5D:EC:BF:09 RX: 9.81 MB (124016 Pkts.) TX: 2.91 MB (30967 Pkts.)	
Routing Setting		IPv4: 192.168.0.233 IPv6: fd40:ba0c:a295::1	
& Switch Control	Network Proto	DHCP	~
t‰ Equipment Manage	DNS		
E→ Logout			SAVE & APPLY RESET



2.4 Serial port configuration

2.4.1 Use tools and preparation

Select Serisl Utility>>>PROT 2 in turn to configure a port according to your needs. Here is an example of PORT 2. Connect the computer serial port, check the serial port as shown in the figure below, right click on the desktop This PC>>>Manage>>>System Tools>>>Device Manage>>>Ports(COM &LPT). Use tools UartAssist.exe and NetAssist.exe for TCP Server, TCP Client, UDP Server, and UDP Client simulation, and ModSim32.exe and ModScan32.exe for Modbus TCP simulation. You can use your familiar serial port and network debugging software. The difference between UDP Client and UDP Server is whether it needs to communicate with only a specific IP address. UDP Client only communicates with a specific server IP address.



The settings of UartAssist.exe are as follows. The baud rate and stop bit can be changed as required. After the setting is completed, click Open.





2.4.2 TCP Server

Select Serisl Utility>>>PORT2 in turn,select TCP Server as the network protocol, and choose the data type according to your needs. Generally, the choice is "Raw date". You need to remember the local port after setting. When establishing a TCP connection, you need to use the IP address and port number of the serial server.Configure the baud rate, data bit, stop bit and parity bit of the serial port through the serial port configuration bar according to your needs. After the configuration is complete, click SAVA & APPLY.

串口通讯服务器 SERIAL DEVICE SERVER	Ê			智慧通信 创领互联
Routing Status	Configuration			
🗮 Serial Utility				
POE Power	Network Settings			
PORT 1	Enable	2		
PORT 2	Network Proto	TCP Server	~	
Network Setting	Transport Proto	Raw data	~	
Routing Setting	Local Port	4002		
& Switch Control	Maximum number	6	~	
ස් Equipment Manage	Time Out(s)	300		
E→ Logout	Serial Settings	9600		
	Data bits	8	~	
	Stop bits	1	~	
	Parity	None	~	
				SAVE & APPLY RESET

Maximum number: The default is 6, which means that up to 6 TCP Clients are supported to connect to the same serial port.

Time Out (s): The default is 300, which means that after the TCP Server establishes a connection, if there is no data, the connection will be disconnected after 300 seconds. If you need a permanent online connection, you can set the value to 0.



Open the software, select TCP Client, IP is the server address, the port is the same as the server port, and click Connect.



TCP Server and TCP Client send and receive data diagram.

COM Setting: Data sective SAVAGE V4.23 PortNum Convert-200: 17:12:43:007] This is test Backd \$5000 Convert-200: 17:12:44:003] This is test Convert-200: 17:12:41:003] Recv ASCID This is test Convert-200: 17:12:41:003] Recv ASCID This is test Data Box Convert-200: 17:12:41:003] This is test Convert-200: 17:12:44:003] This is test Convert-200: 17:12:44:003] This is test Convert-200: 17:12:41:003] Recv ASCID This is test Back Box Convert-200: 17:12:41:003] Recv ASCID This is test Convert-200: 17:12:41:003] Recv ASCID This is test Back Box Ferev Options Ferev Options Ferev Sortians the fore Send Options Factor fore file Factor fore file Fac	••	CommUart Assistant	4 ×		TCP/UDP Net Assistant	×
I Acto dear input IDCD ● 2.FxD ● 3.TxD ● 4.DIR● 5.GND ● 6.DSR ● 7.EIS● 8.CTS ● 9.FI● Image: Append checkcode Data Send Clear ▲ Clear I DcD ● 2.FxD ● 3.TxD ● 4.DIR● 5.GND ● 6.DSR ● 7.EIS● 8.CTS ● 9.FI● Image: Period 100 ms Data Send This is a test I DcD ● 2.FxD ● 3.TxD ● 4.DIR● 5.GND ● 6.DSR ● 7.EIS● 8.CTS ● 9.FI● Image: Period 100 ms Send This is test Data Send This is test	COM Settings PotNum COM3 y BaudR 5600 y DPaty NONE y DetaB 8 y StopB 1 y Close Receive to file Atto linefeed Show timestamp Receive as hex Fause receive SeveClear Send Options Data from file Auto checksum	Data receive [2021-12-02 17:12:43:067] This is test [2021-12-02 17:12:44:038] This is test [2021-12-02 17:12:44:607] This is test [2021-12-02 17:12:45:287] This is test [2021-12-02 17:12:55:838] This is test	SAVAGE V4.2.3	Settings (1) Protocol TCP Client (2) Remote host addr [102.168.0.233 (3) Remote host port 4002 (b) Disconnect Recv Options © ASCII Recv Save to file AutoSoroll Clear Send Options © ASCII C HEX [V Les escape chars [V AT CMD auto CR+L1]	Data log [2021-12-02 17:12:41.246]# RECV ASCII) This is a test [2021-12-02 17:12:41.861]# RECV ASCII) This is a test [2021-12-02 17:12:42.947]# SEND ASCII) This is test [2021-12-02 17:12:43.928]# SEND ASCII) This is test [2021-12-02 17:12:44.477]# SEND ASCII) This is a test [2021-12-02 17:12:53.004]# RECV ASCII) This is a test [2021-12-02 17:12:54.164]# SEND ASCII) This is test [2021-12-02 17:12:55.724]# SEND ASCII) This is test [2021-12-02 17:12:55.724]# SEND ASCII) This is test	VetAssist V4.3.26
	Send as hex Period 1000 ms Load Clear	1.DCD ◆ 2.RXD ◆ 3.TXD ◆ <u>4.DTF</u> ◆ 5.GND ◆ This is a test	6.DSR • Z.RIS • 8.CTS • 9.RI • Send	Append checkcode Send from file Period 10 ms <u>Shortcut History</u>	Data Send This is test	Clear Clear Send



2.4.3 TCP Client

Protocol select TCP Server, Local host addr select the IP address set by the computer, which is in the same network segment as the device's LAN port IP. The Local host port is the default, and the client settings need to use Local host addr and Local host port, click Open.

	TCP/UDP Net Assistant	₩ - □ ×
Settings (1) Protocol	Data log	NetAssist V4.3.26
TCP Server • (2) Local host addr 192.168.0.59 •		
(3) Local host port 10000		
Open		

Select Serisl Utility>>>PORT2 in turn,select TCP Client as the network protocol, and the server IP and port number should be consistent with the software settings. Configure the baud rate, data bit, stop bit and parity bit of the serial port according to your needs through the serial port configuration bar. After the configuration is complete, click SAVA & APPLY.

				智慧通信 创领互助
Routing Status	onfiguration			
≘ Serial Utility				
POE Power	Network Settings			
PORT 1	Enable	2		
PORT 2	Network Proto	TCP Client	~	
Network Setting	Server IP Address	192.168.0.59		
Routing Setting	Server Port	10000		
Switch Control	Heart-Beat	D		
ä Equipment Manage				
> Logout	Serial Settings			
	Baud Rate	9600	~	
	Data bits	8	~	
	Stop bits	1	~	
	Parity	None	~	



After saving and applying, the software will print "[2021-12-02 17:36:44.743]# Client 192.168.0. 233:44380 gets online.", indicating that the connection is successful.



TCP Client and TCP Server send and receive data diagram.

••	CommUart Assistant	- □ ×		TCP/UDP Net Assistant	×□- ₩
COM Settings PortNum COM3 V BaudR 3600 V DPally NONE V DataB V StopB V Close Receive to file Receive to file Auto linefeed Shot timestam Receive as hex Pause receive	Datareceive [2021-12-02 17:41:47:897] This is test [2021-12-02 17:41:53:214] This is test [2021-12-02 17:41:53:697] This is test	SAVAGE V4.2.3	Settings (1) Protocol TCP Server (2) Local host addr [192.168.0.59 (3) Local host port [10000 Close Recv Options C ASCII C HEX Uog display mode [Auto Seroll Clear	Data log [2021-12-02 17:36:44.743]# Client 192.168.0.233:44380 g [2021-12-02 17:41:45.229]# RECV ASCII FROM 192.168.0.23 This is a test [2021-12-02 17:41:47.781]# SEND ASCII TO ALL> This is a test [2021-12-02 17:41:47.781]# SEND ASCII TO ALL> This is a test [2021-12-02 17:41:50.109]# RECV ASCII FROM 192.168.0.23 This is a test [2021-12-02 17:41:50.093]# SEND ASCII TO ALL> This is test [2021-12-02 17:41:50.993]# SEND ASCII TO ALL> This is test	TetAssist V4.3 26 rets online. 3:44380> 3:44380>
Save Clear - Send Options Data from file Auto checksum Auto checksum Auto checksum Fauto clear input Send as hex Period 1000 ms Load Clear 15 Ready!	1.DCD • 2.RXD • 3.TXD • <u>4.DIF</u> • 5.GND • This is a test	• 6.DSR ● <u>7.RTS</u> ● 8.CTS ● 9.RI ● Send RX:384 Reset	Send Options ASCII C HEX Use escape chars AT CMD auto CR+LI Append checkcode Send from file Period 10 ms Shortent History If Ready!	12:021-12-02 17:41:66.278 J# RECV ASCII FROM 192.168.0.23 This is a test Data Send Clients: All Connections (1) ▼ S2/32 RX:526	n F Clear Clear



2.4.4 UDP Server

Select Serisl Utility>>>PORT2 in turn,select UDP Server as the network protocol, choose the data type according to your needs. Generally, the choice is Raw date. You need to remember the local port after setting. When establishing a UDP connection, you need to use the IP address and port number of the serial server. The baud rate, data bit, stop bit and parity bit of the serial port are configured according to your needs. After the configuration is complete, click SAVA & APPLY.

Routing Status Serial Utility POE Power PORT 1 PORT 2 Network Setting Routing Setting Switch Control	nfiguration etwork Settings Enable Network Proto Transport Proto Local Port	2 UDP Server Raw data	~	
Serial Utility POE Power PORT 1 PORT 2 Network Setting Routing Setting Switch Control	etwork Settings Enable Network Proto Transport Proto Local Port	UDP Server Raw data	~	
POE Power PORT 1 PORT 2 Network Setting Routing Setting Switch Control	etwork Settings Enable Network Proto Transport Proto Local Port	UDP Server Raw data	~	
PORT 1 PORT 2 Network Setting Routing Setting Switch Control	Enable Network Proto Transport Proto Local Port	UDP Server Raw data	~	
PORT 2 Network Setting Routing Setting Switch Control	Network Proto Transport Proto Local Port	UDP Server Raw data	~	
Network Setting Routing Setting Switch Control	Transport Proto Local Port	Raw data	~	
Routing Setting Switch Control	Local Port			
Switch Control		4001		
	Maximum number	6	~	
Equipment anage	Time Out(s)	300		
Logout	erial Settings			
	Baud Rate	9600	~	
	Data bits	8	~	
	Stop bits	1	~	
	Parity	None	~	

Maximum number: The default is 6, which means that up to 6 UDP Clients are supported to connect to the same serial port.

Time Out (s): The default is 300, which means that after the UDP Server establishes a connection, if there is no data, the connection will be disconnected after 300 seconds. If you need a permanent online connection, you can set the value to 0.



The software settings are as follows, Protocol selects UDP, Local host addr selects the same network segment IP set by the computer and the device, and the Local host port defaults to it. Click Open after setting.

		TCP/UDP Net	Assistant)	₩ - □ ×	
Settings (1) Protocol UDP (2) Local host addr (2) Local host addr (3) Local host port 10000 Open	Data log	TCP/UDP Net	Assistant	<u>¥etAss</u>	₩ <u>×</u> <u>ist ¥4.3.26</u>	
Recv Options • ASCII • HEX ✓ Log display mode ✓ Auto linefeed ✓ Recv save to file <u>AutoScroll</u> <u>Clear</u>						
Send Options					~	
Append checkcode Send from file Period 10 ms <u>Shortcut History</u>	Data Send This is test			f c	lear Clear Send	
🕼 Readv!		61/58	RX:610	TX:696	Reset	

After opening, fill in "192.168.0.233:4002", the server's IP address and port number, separated by ':' .

Send from file	Data Send	Remote:	192.168.0.	233 :4002 💌	🗲 Clean 🗸	Clear 🔶 🤇
Period 10 ms <u>Shortcut History</u>	This is te	st				Send
Change remote host IP ad	 Idress	61	/58	RX:610	TX:696	Reset



UDP Server and UDP Client send and receive data diagram.

••	CommUart Assistant	- □ ×		TCP/UDP Net Assistant	×
COM Settings	Data receive	SAVAGE V4.2.3	Settings	Data log BetAssist V4.3.	26
PortNum COM3	[2021-12-02 17:59:24:873] This is test		(1) Protocol	2001-10-00 17-50-33 078]# SWMD ASCITT TO 100 168 0 233 -4002	~1
BaudR 9600 -	2021-12-02 17:59:25:305 This is test			This is test	
DRaitu NONE	[2021-12-02 17:59:25:635] This is test		(2) Local host addr		
	[2021-12-02 17:59:33:205] This is test		192.168.0.59 👻	2021-12-02 17:59:33.245]# SEND ASCII TO 192.168.0.233 :4002>	
DataB °	[2021-12-02 17:59:33:315] This is test		(3) Local host port	Chis is test	
StopB 1	2021-12-02 17:59:36:618] This is test		10000	[2021-12-02 17:59:35.382]# RECV ASCII FROM 192.168.0.233 :4002>	
	LOLI IL OL ITODIO INO INTE IS CEST		Close	This is a test	
Rean Ontions			Recy Options	L2021-12-02 17:59:36.498]# SEND ASCII TO 192.168.0.233 :4002>	
The contract of the contract o			G ASCIL C HEX	IAIS IS TEST	
Keceive to file			I log dieplay mode	2021-12-02 17:59:47.734]# RECV ASCII FROM 192.168.0.233 :4002>	
Auto linereed			Auto linefeed	Chis is a test	
I > Show timestamp			Poar arm to file	TOTAL 10 00 17.50.10 10/1# DZCU LCCTT ZDCU 100 100 0 000 . (000)	
I heceive as hex			Theory save to me	LU21-12-02 17.59.49.104j# KEV KSUII FROM 192.186.0.235 .40027	
fause receive			Autoboroll Llear		
Save Clear			. 10.1	2021-12-02 17:59:52.793]# RECV ASCII FROM 192.168.0.233 :4002>	
Send Options			Send Options	This is a test	
E Doto from filo			(• ASCII (HEX	[2021-12-02 17:59:55 070]# SRWD ASCIT TO 192 168 0 233 -4002)	
T dute abeaksun			Use escape chars	This is test	
- Auto cleer input			AT CMD auto CR+LI		×
Sand as her	1.DCD . 2.RXD . 3.TXD . 4.DTR . 5.GND . 6.DS	R • 7.RTS • 8.CTS • 9.RI •	Append checkcode	Data Send Remote: 192.168.0.233 :4002 - Clean Clean Clear	ear
Period 1000 ms			Send from file	This is test	
,	This is a test	Send	Period 10 ms	Send	
Load Clear			Shortcut History		
🖝 Ready!	- TX:868	RX:672 Reset	le Ready!	72/66 RX:736 TX:792 Reset	T



2.4.5 UDP Client

Protocol select UDP, Local host addr select the IP address set by the computer, which is in the same network segment as the device's LAN port IP. The Local host port is the default, and the client settings need to use Local host addr and Local host port, click Open.

	TCP/UDP Net Assistant	₩ <u>- □ ×</u>
Settings (1) Protocol	Data log	NetAssist V4.3.26
UDP -		^
(2) Local host addr		
192.168.0.59		
10000		
Open		

Select Serisl Utility>>>PORT2 in turn, choose UDP Client as the network protocol, and choose the data type according to your needs. Generally, the choice is Raw date. You need to remember the local port after setting. The IP address and port number of the serial port server are used when establishing a UDP connection. Compared with UDP Server, UDP Client has an additional server IP address and server port number. The purpose of this addition is to ensure the security of UDP data transmission. Network data only receives data from the server IP and server port number. The rest of the data are denied access. Configure the baud rate, data bit, stop bit and parity bit of the serial port through the serial port configuration bar according to your needs. After the configuration is complete, click SAVA & APPLY.

串口通讯服务器 SERIAL DEVICE SERVER	$\hat{\mathbf{P}}$			an as a 	慧通信 创领互联
▲ Routing Status	Configuration				
Serial Utility					
POE Power	Network Settings				
PORT 1	Enable	2			
PORT 2	Network Proto	UDP Client	~		
Network Setting	Transport Proto	Raw data	~		
Routing Setting	Local Port	4002			
✤ Switch Control	Maximum number	6	~		
🏡 Equipment Manage	Time Out(s)	300			
E Logout	Server IP Address	192.168.0.59			
	Server Port	10000			
n the next step, the Append checkcode Send from file	be following inform	ation needs	to be filled in	the software.	F Clear ≜ Cl
Period 10 ms artcut <u>History</u>	This is test				Send
	1.0.0				171



UDP Client and UDP Server send and receive data diagram,

•	CommUart Assistant	·₩ - □ ×		TCP/UDP Net Assista	nt – 🗆 🖌
COM Settings	Data receive	SAVAGE V4.2.3	Settings	Data log	NetAssist V4.3.26
PortNum COM3 V BaudR 9600 V DPaity NONE V DataB 8 V StopB 1 V	[2021-12-02 18:24:23:642]This is test [2021-12-02 18:24:29:566]This is test [2021-12-02 18:24:29:676]This is test [2021-12-02 18:24:29:766]This is test [2021-12-02 18:24:32:316]This is test		(1) Protocol (UDP ~ (2) Local host addr 192.168.0.59 ~ (3) Local host port 10000 ~ Close	<pre>[2021-12-02 18:24:27.282]# RECV ASCII This is a test [2021-12-02 18:24:27.732]# RECV ASCII This is a test [2021-12-02 18:24:28.449]# RECV ASCII This is a test</pre>	FROM 192.168.0.233 :4002>
Receive to file Auto linefeed Show timestamp Receive as her Pause receive			Recv Options	[2021-12-02 18:24:29.436]# SEND ASCII This is test [2021-12-02 18:24:29.586]# SEND ASCII < This is test [2021-12-02 18:24:29.746]# SEND ASCII This is test	TO 192, 168. 0. 233 :4002> TO 192, 168. 0. 233 :4002> TO 192, 168. 0. 233 :4002>
Save Clear Send Options Data from file Auto checksum Auto clear input Send as hex	1.DCD ◆ 2.FXD ◆ 3.TXD ◆ <u>4.DTF</u> ◆ 5.GND ◆	8.DSR● <u>Z.RIS</u> ● 8.CTS● 9.RI●	Send Options	[2021-12-02 18:24:31.283]# RECV ASCIT This is a test [2021-12-02 18:24:32.196]# SEND ASCIT This is test Data Send Remote: [192.168.0.233:40	FROMT 192, 168.0.233 :4002> TO 192, 168.0.233 :4002> v 02 - Clean Clear Clear
Period 1000 ms	This is a test	Send	Period 10 ms Shortout History	This is test	Send V-001 TV-004 Reset

If the data is not sent from the server IP and port, it will be rejected.





2.4.5 Modbus TCP

Select Serisl Utility>>>PORT2 in turn,Select Modbus TCP as the network protocol. After setting the local port, remember to configure the baud rate, data bit, stop bit and parity bit of the serial port through the serial port configuration bar according to your needs. After the configuration is complete, click SAVA & APPLY.

串口通讯服务器	P			智慧通信 创领互联
Routing Status	Configuration			
🖹 Serial Utility				
POE Power	Network Settings			
PORT 1	Enable	2		
PORT 2	Network Proto	Modbus TCP	~	
Network Setting	Local Port	4002		
Routing Setting	Maximum number	б	*	
F Switch Control	Time Out(s)	300		
to Equipment Manage				
G→ Logout	Serial Settings			
	Baud Rate	9600	~	
	Data bits	8	~	
	Stop bits	1	~	
	Parity	None	~	
				SAVE & APPLY RESET

Here you need to use ModSim32.exe and ModScan32.exe to simulate the use, first open the software ModSim32, File>>>New to create a new file, Connection>>>Connect>>>Port 3 (the choice here is the connection between your computer and the device port).

ziji ModSim32 - ModSim1	v Hala	37	×
Eile Connect Display Window Disconnect Disconne Disconnect Discon	v Help Port 1 Port 2 Port 3 Port 4 Port 5 Port 6 Port 7 Port 8 Port 9 Modbus/TCP Svr		



The pop-up dialog box is as follows, the baud rate, data bit, stop bit and parity bit are changed according to the values set on the web page.

Setup Comm Port 3	×
Setup Comm Port 3 Protocol © RTU C ASCII Daniel/ENRON protocol Baud 9600 Data 8 Stop 1 Parity ODD	×
Hardware Flow Control Wait for DTR from Master Delay 0 ms after RTS before transmitting first Wait for CTS from Mas Delay 0 ms after last character before OK Cancel	

Open the software ModScan32, Connection>>>Connect.

Dis	onnect	
	o-Start >>	
Address: Length:	Device Id: 1 0001 MODBUS Point Type 10 01: COIL STATUS Particular Number of Polls: 0 Valid Slave Responses: 0 Beset Cirs	
** Device	NOT CONNECTED! **	
00001: <0 00002: <0	> -	
00001: <0 00002: <0 00003: <0 00004: <0 00005: <0 00006: <0 00007: <0	> > > > > > >	



The pop-up dialog box is as follows, select Remote modbusTCP Server, fill in the IP Address and Service Port, and then click OK.

Connect L	lsing:					
	Remote r	nodbusTCP Se	rver		-	
		IP Address:	192.168.0.233			2
		Service Port:	4002			
iniguration-						
Baud Rate:	19200	*	Hardware Flow	Control		
ord Length:	8	Ŧ		LIS from slave		
Parity:	NONE	+	RTS Control:	Disable	<u>v</u>	
Stop Bits:	1	<u>_</u>	Delay 0	ms after P transmittin	TS before g first character	
			Delay 0	ms after l before re	ast character leasing RTS	
			<u>.</u>			
		F	Protocol Selections	ц. Ф		
				. 1		

ModSim32 和 ModScan32 软件中选中部分设置需要一致。

ModScan32 - ModScal File Connection Setup View Window Help	tin ModSim32 - ModSim1 Elle ⊆onnection Display Window Help
Address: 0001 Device Id: 1 Address: 0001 MODBUS Point Type Length: 10 01: COIL STATUS Y Reset Ctrs	Image: ModSim1 Device Id: MODBUS Point Type Length: 10



Double-click 00001: <0> area, a dialog box pops up, select On, and then click Update.



The effect is as follows

ModScan32 - ModSca1 - 🗆 🗙	ซ์มี ModSim32 - ModSim1	- 0
Eile Connection Setup View Window Help	File Connection Display Window Help	
m ModSca1		
Address: 0001 Device Id: 1 MODBUS Point Type Number of Polls: 358 Length: 10 01: COIL STATUS	ModSim1 Device Id: 1 Address: 0001 01: COIL.STATUS	
00001: (1) 00002: (0) 00003: (0) 00004 (0) 00005 (0) 00006: (0) 00007: (0) 00008 (0) 00008 (0) 00008 (0) 00008 (0) 00008 (0)	00001: <1> 00002: (0) 00003: (0) 00003: (0) 00005: (0) 00005: (0) 00007: (0) 00007: (0) 00008: (0) 00009: (0) 0009	





2.4.6 Transport Proto

When selecting TCP Server, the data type also has the option of Telnet (RFC2217), and a software putty.exe is used here.Select Serisl Utility>>>PORT2 in turn,Select TCP Server or UDP Server as the Network Proto, and Telnet (RFC2217) as the Transport Proto. After the configuration is complete, click SAVE & APPLY.

work Settings Enable Network Proto Transport Proto Local Port	TCP Server Raw data 4002	~ ~	
work Settings Enable Network Proto Transport Proto Local Port	TCP Server Raw data 4002	~	
work Settings Enable Network Proto Transport Proto Local Port	TCP Server Raw data 4002	~	
Enable Network Proto Transport Proto Local Port	TCP Server Raw data 4002	~ ~	
Network Proto Transport Proto Local Port	TCP Server Raw data 4002	•	
Transport Proto Local Port	Raw data	~	
Local Port	4002		
Maximum number	6	~	
Time Out(s)	300		
al Settings			
Baud Rate	9600	~	
Data bits	8	~	
Stop bits	1	~	
Parity	None	~	
8	al Settings Baud Rate Data bits Stop bits Parity	Al Settings Baud Rate 9600 Data bits 8 Stop bits 1 Parity None	al Settings Baud Rate 9600 Data bits 8 Stop bits 1 Parity None



Open the putty.exe software, fill in the server IP address and port number, select Telent for Connection type, set as follows, click Open after the configuration is complete.

ategory:			
Session	Basic options for your PuTT	Y session	
Logging	Specify the destination you want to co	onnect to	
- Keyboard	Host <u>N</u> ame (or IP address)	Port	
Bell	192.168.0.233	4002	
Features	Connection type:		
- Window		SH O Senal	
Behaviour	Load, save or delete a stored session		
Translation	Saved Sessions		
Selection			
Colours	Default Settings WinSCP temporary session	Load	
Data	Winder temporary academ	Save	
Proxy		Delete	
Blogin		Delete	
⊕ SSH			
Serial	Close window on exit:		
	Always Never Only	on clean <mark>exit</mark>	1.2
			N.

If no error is prompted after opening, a pure black dialog box will be displayed, as shown below.





Click the putty dialog box, enter any character, and the result is as follows.

	CommUart Assista	🚰 192.168.0.233 - PuTTY	 .	
COM Settings	Data receive			~
PortNum COM3 -	L2021 12 03 14:01:00.440 11			
	2021-12-03 14:08:00:563 s			
BaudR 3000				
DPaity NONE -	[2021-12-03-14:08:03:879] w			
	[2021-12-03 14:08:04:073] •			
DataB <u>°</u>	[2021-12-03 14:08:04:323] r			
StopB 1 🔄	[2021-12-03 14:08:04:576] t			
	[2021-12-03 14:08:04:861] v			
- Close	[2021-12-03 14:08:05:140] u			
	[2021-12-03 14:08:05:440] i			
Beer Ontions	[2021-12-03 14:08:05:736] o			
	[2021-12-03 14:08:05:998] p			
Receive to file	【2021-12-03 14:08:06:420】[
🔽 Auto linefeed	[2021-12-03 14:08:06:707]]			
🔽 Show timestamp	[2021-12-03 14:08:07:042] \			
TReceive as hex	[2021-12-03 14:08:07:743] a			
- Pausa racaiva	[2021-12-03 14:08:07:992] s			
1 I ause leceive	[2021-12-03 14:08:08:293] d			
Save Clear	[2021-12-03 14:08:08:563] f			
	[2021-12-03 14:08:08:839]g			
Send Uptions	2021-12-03 14:08:09:143 h			
📃 🥅 Data from file				
🗖 Auto checksum				
Auto clear input	[2021-12-03 14:00:15:000]2			
E Send as hex	1.DCD • 2.RXD • 3.TXD • 4.DTR •			
E Paried 1000 ms	1 [
i retrod 1000 ms				
Load Clear				
🝠 Ready!	· Ð 🗆			

2.4.7 POE Power

The serial port power supply function switch is closed by default. Log in to the serial server page when you need to use it, click Serial Utility>>>POE Power, select ON, and then click SAVE&APPLY.

口通讯服务器	21日本の1日本の1日本の1日本の1日本の1日本の1日本の1日本の1日本の1日本の
Routing Status	Configuration
■ Serial Utility	
POE Power	Serial POE Power Output
PORT 1	ON/OFF ON V
PORT 2	Serial POE Power Output ON/OFF
Network Setting	SAVE & ADDIV DEC
Routing Setting	JAVES AFFEI TILJ



Chapter 3 Routing Setting

3.1 Firewall

The firewall is turned on by default. When doing DMZ and Port Mapping, you need to disable the firewall. To disable the firewall, click Routing Setting>>>Firewall, select Disable for the firewall, and then click "SAVE&APPLY".

串口通讯服务器 SERIAL DEVICE SERVER					智慧通信 创领互联
Routing Status	Firewall				
■ Serial Utility					
Network Setting		Firewall	Enable	v	
Routing Setting					
Firewall					SAVE & APPLY RESET
Port Mapping					
DMZ					Copyright @2013-2021 Seriallink inc, All rights reserved.

3.2 Port Mapping

Compared with DMZ (3.3), port forwarding is more refined control. Data packets sent to a certain port can be forwarded to a certain host on the LAN side, so that different ports can be transferred to different hosts.

First, you need to disable the firewall.

串口通讯服务器					智慧通信 创领互联	
Routing Status	Firewall					
Serial Utility						
Network Setting		Firewall Disable	~			
Routing Setting						
Firewall					SAVE & APPLY RESET	
Port Mapping						
DMZ				c	opyright ©2013-2021 Senallink inc, All rights ret	erved.



Click Routing Setting>>>Port Mapping and enter the "Port Forwards" interface to configure.

Name: Specify the name of this rule, you can give a meaningful name.

Protocol: Specify the protocol to be forwarded, which can be TCP, UDP, or TCP/UDP.

Internal IP address: select the IP address that needs to be forwarded to the external network.

Internal port: the port to be forwarded by the downstream device or this machine.

External port: Add this external port through the wan port ip to access the downstream device.

After configuration, click the "ADD" button to add a forwarding rule. Click the "SAVE&APPLY" button to make the rule effective.

串口通讯服务器

				智慧通信 创领互联
Routing Status	Port Forwards			
■ Serial Utility	Port forwarding allows remote co	mputers on the Internet to connect	to a specific computer or service within the priva	ate LAN.
Network Setting	Port Forwards			
Routing Setting	Name	Match	Forward to	Enable
Firewall		Th	is section contains no values yet	
Port Mapping	1			
DMZ			New port forward	
Switch Control		Name	SLK	
🏡 Equipment Manage		Protocol	TCP+UDP 🗸	
G→ Logout		Internal IP address	192.168.0.233 (F2:E0:5D:EC:E 🗸	
		Internal port	80	
		External port	500	
				ADD
				SAVE & APPLY RESET



After the addition is successful, there will be an extra port forwarding rule, click "SAVE&APPLY" to make this rule effective. You can add multiple rules.

串口通讯服务器					智慧通信 创领互联	
Routing Status	Port Forward	ls				
■ Serial Utility	Port forwarding all	ows remote computers on the Internet to connect	to a specific computer or service within	the private LAN.		
Network Setting	Port Forwards					
Routing Setting	Name	Match	Forward to	Enable		
Firewall	SLK	IPv4-tcp From any host in wan	IP 192 168 0 233 port 80 in lan			
Port Mapping		Via any router IP at port 500		1.54.5		
DMZ			New port forward			
Switch Control		Name	New port forward			
Manage		Protocol	TCP+IIDP			
G→ Logout		Protocol				
		Internal IP address	~			

Check the wan port ip, through the wan port ip and the external port number, you can access the internal port of the downstream device or the local device.

串口通讯服务器 SERIAL DEVICE SERVER			00+0 +0+00+0 -0+0+0+0 -0+0+0+0 -0+0+0+0 -0+0+0+0 -0+0+0+0 -0+0+0+0 -0+0+0+0 -0+0+0+0 -0+0+0+0 -0+0+0+0 -0+0+0+0 -0+0+0+0 -0+0+0+0+0 -0+0+0+0+0 -0+0+0+0+0 -0+0+0+0+0 -0+0+0+0+0 -0+0+0+0+0+0 -0+0+0+0+0+0 -0+0+0+0+0+0 -0+0+0+0+0+0+0 -0+0+0+0+0+0+0+0 -0+0+0+0+0+0+0+0 -0+0+0+0+0+0+0+0+0 -0+0+0+0+0+0+0+0+0+0 -0+0+0+0+0+0+0+0+0+0+0+0 -0+0+0+0+0+0+0+0+0+0+0+0+0+0+0+0+0+0+0+	 智慧通信 创领互联
Routing Status	Network Configuration			
■ Serial Utility				
Network Setting	WAN Configuration			
WAN Setting	Status	Device: eth0.2 Uptime: 0h 3m 20s		
LAN Setting		RX: 73.06 KB (674 Pkts.) TX: 2.44 MB (7169 Pkts.)		
Routing Setting		IPv4: 192.168.2.228		
🖋 Switch Control	Protoco	DHCP address	~	
🌣 Equipment Manage				SAVE & APPLY RESET
🕒 Logout				
				Copyright @2013-2021 Seriallink inc, All rights reserved.

Through 192.168.2.228:500 to access the internal port of the downstream device.

	← → C	▲ Not secure 192.168.2.228:500/ Sign in · GitLab [-] 阿里云	/cgi-bin/luci										8 ₂	¢	☆	*	eading	: list
$\boldsymbol{\langle}$		串口通讯服务器 SERIAL DEVICE SERVER	P						 	1	習慧通	信丨仓	则领互	联				
					L	anguage :	English	~										
				A	Authoriza	ation Requ	uired											
				Password														
								Login										



3.3 DMZ

The DMZ function can map the WAN port address to a host on the LAN side; all packets to the WAN address will be transferred to the designated LAN host to achieve two-way communication. In fact, a host in the intranet is completely exposed to the Internet and all ports are opened.

It is equivalent to all port mapping. It is equivalent to using the public IP directly.

First, you need to disable the firewall.

串口通讯服务器 SERIAL DEVICE SERVER	P	智慧通信 创领互联
Routing Status	Firewall	
■ Serial Utility		
Network Setting		Firewall Disable V
Routing Setting		
Firewall		SAVE & APPLY RESET
Port Mapping		
DMZ		Copyright @2013-2021 Seriallink inc, All rights reserved.

Click Routing>>>DMZ, check Enable, set the ip address assigned by the lan port to the downstream device, forward all the ports of the downstream device, and you can directly access it through the ip address of the wan port.

Enable: Check Enable

Internal IP address: PC end IP address

After the configuration is complete, click "SAVE&APPLY" to make it effective.

串口通讯服务器 SERIAL DEVICE SERVER	P			智慧通信 创领互联
Routing Status	DMZ			
Serial Utility	The DMZ host feature allows one local host to be expose	d to the Internet for a special-purpose ser	vice.	
Network Setting	Configuration			
Routing Setting	Enable			
Firewall	Internal IP address	192,168.0.59 (40:8D:5C:)	~	
Port Mapping		/		
DMZ				SAVE & ADDLY DESET
✤ Switch Control				AND APPEL
🌣 Equipment Manage				Copyright ©2013-2021 Seriallink inc, All rights reserved.
E+ Logout				



Check the wan port ip, you can directly access the downstream device through the wan port ip. If you can't access it, the possible cause is that the firewall of the downstream device is turned on, and the firewall of the downstream device needs to be turned off.

口通讯服务器	P			智慧通信 创领互	ī联
 Routing Status 	Network Configuration				
■ Serial Utility					
Network Setting	WAN Configuration				
WAN Setting	Status	Device: eth0.2 Uptime: 0h 3m 20s			
LAN Setting		MAC: F2:E0:5D:EC:BF:0A RX: 73.06 KB (674 Pkts.) TX: 2.44 MB (7169 Pkts.)			
Routing Setting		IPv4: 192.168.2.228			
✤ Switch Control	Protocol	DHCP address	~		
ta Equipment Manage				SAVE & APPLY	RESET
🕞 Logout					
				Copyright @2013-2021 Seriallink inc, All ri	ahts reserve

You can access the downstream device directly through the ip of the wan port. (Note: The computer needs to be in the same local area network as the wan port ip to be able to access)

 ← → C ▲ Not secure 192.168.2.228/cgi-bin/luci Ⅲ Apps ₩ Sign in - Git La ○ 阿里云 		🕼 论 🚖 🌲 🥯
串口通讯服务器 SERIAL DEVICE SERVER		■信 创领互联
	Language : English v	
	Authorization Required	
	Login	



Chapter 4 Switch Control

4.1 Switch DI/DO

Click Switch Control>>>Switch DI/DO, select Transport Protocol, Local Port, and Power Input as needed. Here, follow the instructions of Passive Input and Active Input of Power Input.

Passive Input:

After changing the power input to Passive Input, click Save and Apply.

串口通讯服务器 SERIAL DEVICE SERVER	Ê			智慧通信 创领互联
 Routing Status 	Switch Configuration			
Serial Utility				
Network Setting	Configuration			
Routing Setting	Transport Protocol	Modbus RTU	~	
Switch Control	Local Port	502		
Switch DI/DO	Power Input	Passive Input	~	
A Equipment Manage				SAVE & APPLY RESET
🕞 Logout				
				Copyright @2013-2021 Senallink Inc, All rights reserved.

Open ModScan32.exe software, click Connection>>>Connect on the menu bar, fill in the pop-up window IP Address as the IP address of the LAN port, Service Port as the local port in the Switch Control, and then click OK, the settings are as follows:

Connect l	Jsing: Remote modbusTCP Ser	rver
	IP Address:	192.168.0.233
Configuration	Service Port:	502
Baud Rate: Word Length: Parity: Stop Bits:	19200 - 8 - NONE - 1 -	Hardware Flow Control Wait for DSR from slave Wait for CTS from slave DTR Control: Disable RTS Control: Disable Delay 0 ms after RTS before transmitting first character Delay 0 ms after last character



As shown in the figure below, the area Address setting value in the red box: 0001, the Length setting value: 4, and the MODBUS Point Type select 02: INPUT STATUS.

Twoaccansz - moascan		
Line Counceron Seria New Minow Lieb		
ma ModSca1		
Address: Device Id: 1 MoDBUS Point Type Number of Polls: 116 Length: 4 D2: INPUT STATUS Input Status Reset Ctrs		
10001: <1> 10002: <1> 10003: <1> 10004: <1>		

This is mainly for demonstration. The short connection method is used. A is connected to CND and B is connected to DIN1. The interface corresponds to the value in the software one-to-one. DIN1 corresponds to 10001, DIN2 corresponds to 10002, DIN3 corresponds to 10003, DIN4 corresponds to 10004, and the following brackets The value will vary according to the wiring method, as shown in the figure.



If B is connected to DIN2, the value of 10002 will become 0.



AcTive Input:

After changing the power input to Active Input, click SAVE&APPLY.

串口通讯服务器	Ê		智慧通信 创领互联	
Routing Status	Switch Configuration			
🖹 Serial Utility				
Network Setting	Configuration			
Routing Setting	Transport Protocol	Modbus RTU 🗸		
F Switch Control	Local Port	502		
Switch DI/DO	Power Input	Active Input 🗸		
☆ Equipment Manage G- Logout			SAVE & APPLY RESET	
			Copyright @2013-2021 Seriallink inc. All rights reserved.	

Open ModScan32.exe software, click Connection>>>Connect on the menu bar, fill in the pop-up window IP Address as the IP address of the LAN port, Service Port as the local port in the Switch Control, and then click OK, the settings are as follows:

	Remote modbusTCP Se	rver	•
	IP Address:	192.168.0.233	
	Service Port:	502	
Configuration-			
Raud Bate	19200 👻	Hardware Flow	Control DSR from slave
Second Frank		☐ Wait for	CTS from slave
Word Length:	8 <u>▼</u>	DTR Control:	Disable 👻
Parity:	NONE 🚽	RTS Control:	Disable 👻
Stop Bits:	1	Delay 0	ms after RTS before transmitting first characte
		Delay 0	ms after last character before releasing RTS
		1	
		Protocol Selections	6



As shown in the figure below, the area Address setting value in the red box: 0001, the Length setting value: 4, and the MODBUS Point Type select 02: INPUT STATUS.

ModScan32 - ModSca1	– 🗆 X	
Elle Connection Setup View Window Help		
🖬 ModSca1		
Address: 0001 Device Id: 1 MODBUS Point Type Valid Slave Responses: 157 Valid Slave Responses: 157		
Length: 4 U2: INPUT STATUS Y Reset Ctrs		
10001: <0>		
10003: (0) 10004: (0)		

This is mainly for demonstration. The short connection method is adopted. A is connected to 12VDD and B is connected to DIN1. The interface corresponds to the value in the software one-to-one. DIN1 corresponds to 10001, DIN2 corresponds to 10002, DIN3 corresponds to 10003, DIN4 corresponds to 10004, and the following brackets The value will vary according to the wiring method, as shown in the figure.

● 多功能串口服务器 ● ●	Address: 0001 Device Id: 1 MODBUS Point Type
RS232 RS485	Length: 4 02: INPUT STATUS
•••• ••••••••••	
B	10001: <1> 10002: <0> 10003: <0> 10004: <0>
power cable Short circuit (test)	
Α Β	

If B is connected to DIN2, the value of 10002 will become 1.



Chapter 5 Equipment Manage

5.1 Diagnosis

This function is used to test whether it is connected to the Internet, the PING address can be selected, or you can fill in a well-known domain name (a website that can be accessed normally), and then click PING, wait for the result, if"ping: bad address '*******'" appears, it means there is no ping. Please check the domain name, network cable access to the WAN port, WAN settings and other issues.

串口通讯服务器 SERIAL DEVICE SERVER	2日日 日本 日
A Routing Status	Diagnostics
■ Serial Utility	
Network Setting	Network Utilities
Routing Setting	seriallink 🗸 www.seriallink.cn IPv4 🖌 PING
& Switch Control	
t‰ Equipment Manage	PING www.baidu.com (14.215.177.39): 56 data bytes 64 bytes from 14.215.177.39: seq=0 ttl=55 tim=8.673 ms
Diegnosis	64 bytes from 14.215.177.39: seq=1 ttl=55 time=8.809 ms 64 bytes from 14.215.177.39: seq=2 ttl=55 time=8.388 ms
Date Time	64 bytes from 14.215.177.39: seq=3 ttl=55 time=8.376 ms
Language Setting	04 bytes from 14.213.177.35. seq-4 (11-3) time-0.305 ms
Modify Password	www.baidu.com ping statistics 5 packets transmitted, 5 packets received, 0% packet loss
Update Firmware	round-trip min/avg/max = 8.376/8.551/8.809 ms
Factory Reset	
Reboot	
	Convricht @2013-2021 Seriallink inc. All rights reserve



5.2 Date Time

You can choose to synchronize the local time, or you can synchronize the time of the NTP server.

串口通讯服务器 SERIAL DEVICE SERVER	目う 智慧通信 创领互联	
A Routing Status	NTP time server	
■ Serial Utility	After the wireless gateway is powered off, the date and time settings are not saved. Enable the Sync from network function to keep the date and time current.	
Network Setting	Sunchronize browser time	
Routing Setting	Local Time 2021-12-03 09:36:52 SYNC WITH BROWSER	
& Switch Control	Timezone Asia/Shanghai	
Cuipment Manage		
Diagnosis	Time Synchronization	
Date Time	Enable NTP client 🖸	
Language Setting		
Modify Password	SAVE & APPLY RESET	
Update Firmware		
Factory Reset		
Reboot	Copyright ©2013-2021 Seriallink inc, All rights reserved.	
🕞 Logout		

5.3 Language Setting

Modify the language of the serial server, and you need to save it before you can use it after modification.

串口通讯服务器 SERIAL DEVICE SERVER	智慧通信 创领互联
Routing Status	Language Setting
Serial Utility	
Network Setting	Language Setting
Routing Setting	Language English ~
✤ Switch Control	SAVE & APPLY BESET
tåa Equipment Manage	
Diagnosis	Copyright @2013-2021 Seriallink inc, All rights reserv
Date Time	
Language Setting	
Modify Password	
Update Firmware	
Factory Reset	
Reboot	
E Logout	



5.4 Modify Password

Change the login password of the serial server page

Password: new password

Confirmation: Enter again to confirm the password

If the password does not match the confirmed password, the password modification will fail.

If they are the same, the modification is successful. After the password is modified, the password will take effect the next time you log in to the page.

串口通讯服务器 SERIAL DEVICE SERVER	P		智慧通信 创领互联
Routing Status	Router Password		
🖹 Serial Utility	Changes the administrator password for accessing the	e device	
Network Setting			
Routing Setting	Password	•	
✤ Switch Control	Confirmation	•	
🎝 Equipment Manage			SAVE & APPLY RESET
Diagnosis			
Date Time			Copyright ©2013-2021 Seriallink inc, All rights reserved
Language Setting			
Modify Password			
Update Firmware			
Factory Reset			
Reboot			
E Logout			



5.5 Update Firmware

Image: Click "Choose File" to select your firmware file. Click "FLASH IMAGE".

Checksum: MD5 of the firmware

Size: The size of the firmware file

Click "PROCEED" to start the firmware upgrade

	00
印通讯服务器	□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□
ERIAL DEVICE SERVER	
Routing Status	Flash operations
📃 Serial Utility	
Network Setting	Hash new him ware image Upload a sysupgrade-compatible image here to replace the running firm ware. Check "Keep settings" to retain the current configuration (requires a compatible
Routing Setting	firmware image).
Switch Control	Keep settings: 🜌
t‰ Equipment Manage	Image: Choose File No file chosen FLASH IMAGE
Diagnosis	
Date Time	Copyright @2013-2021 Seriallink inc, All rights reserve
Language Setting	
Modify Password	
Update Firmware	
Factory Reset	
Reboot	
⊖ Logout	
G→ Logout	
B Logout ■ Logout<	目前 日前 日前 日前 日前 日前 日前 日前 日前 日前 日
B Logout 自口通讯服务器 ERIAL DEVICE SERVER ▲ Routing Status	日ash Firmware - Verify
G Logout 日口通讯服务器 ERIAL DEVICE SERVER ▲ Routing Status 重 Serial Utility	を に また の の た の の また の の の の の の の の の の の の
 G Logout ■ Logout ■ Logout ■ Routing Status ■ Serial Utility ■ Network Setting 	留慧通信 1 创领互联 Flash Firmware - Verify The flash image was uploaded. Below is the checksum and file size listed, compare them with the original file to ensure data integrity. Click "Proceed" below to start the flash procedure.
 Ge Logout F口通讯服务器 ERIAL DEVICE SERVER ▲ Routing Status 基 Serial Utility ④ Network Setting ▲ Routing Setting 	を と と と と と と の の の の の の の の の の の の の
 G Logout F口通讯服务器 ERIAL DEVICE SERVER ▲ Routing Status 基 Serial Utility ④ Network Setting ▲ Routing Setting ✔ Switch Control 	を と と と と と に は に た に た に た に た に た に に に に た に た に
 B Logout B Logout B Logout B Routing Status ■ Serial Utility ● Network Setting ■ Routing Setting P Switch Control ☆ Equipment Manage 	EDE DE
 ❑ Logout ❑ Logout ❑ Logout ❑ Routing Status ❑ Serial Utility ❑ Network Setting ❑ Routing Setting ✓ Switch Control ☆ Equipment Manage ❑ Diagnosis 	EDE D
 □ Logout □ 通讯服务器 ■ Routing Status ■ Serial Utility ● Network Setting ■ Routing Setting ● Switch Control ☆ Equipment Manage □ Diagnosis □ Date Time 	EDE D
 □ Logout □ Logout ■ Routing Status ■ Routing Status ■ Routing Status ■ Routing Setting ■ Routing Setting ■ Switch Control * Switch Control * Equipment Manage Diagnosis Date Time Language Setting 	EDE DE
 ➡ Logout ➡ Logout ➡ Routing Status ➡ Serial Utility ➡ Network Setting ➡ Routing Setting ➡ Switch Control ★ Equipment Manage ➡ Diagnosis ➡ Date Time Language Setting Modify Password 	EDE DE D
 ➡ Logout ➡ Logout ➡ Routing Status ➡ Serial Utility ➡ Routing Setting ➡ Routing Setting ➡ Switch Control ★ Equipment Manage ➡ Diagnosis ➡ Date Time Language Setting Modify Password Updete Firmware 	EDE DE
 ➡ Logout ➡ Logout ➡ Routing Status ➡ Serial Utility ➡ Network Setting ➡ Routing Setting ➡ Switch Control ➡ Equipment Manage ➡ Diagnosis ➡ Date Time Language Setting ➡ Modify Password ➡ Uplate Firmware ➡ Factory Reset 	EDEC E
 ➡ Logout ➡ Logout ➡ Routing Status ➡ Serial Utility ➡ Routing Setting ➡ Routing Setting ➡ Switch Control ★ Equipment Manage ➡ Diagnosis ➡ Date Time Language Setting ➡ Modify Password ➡ Updete Firmwers ➡ Factory Reset ■ Reboot 	EDED D D D



5.6 Factory Reset

Restoring the factory settings can effectively solve some errors caused by improper configuration.

串口通讯服务器 SERIAL DEVICE SERVER	智慧通信 创领互联	
A Routing Status	Factory Reset	
■ Serial Utility		
Network Setting	Reset to defaults: PERFORM RESET	
Routing Setting		
F Switch Control		
t‰ Equipment Manage	Copyright @2013-2021 Seriallink inc. All rights reserved.	
Diagnosis		
Date Time		
Language Setting		
Modify Password		
Update Firmware		
Factory Reset		
Reboot		
G Logout		

5.7 Reboot

Device Reboot: Click PERFORM REBOOT, the device restarts.

Time Reboot: Tick enable, set the time, click SAVA & APPLY, after it is turned on, it will restart at a fixed time every day (the device time needs to be correct).

串口通讯服务器 SERIAL DEVICE SERVER				智慧通信 创领互联
Routing Status	Device Reboot			
🖹 Serial Utility	Configure Device Reboot			
Network Setting				
Routing Setting	Restart now:	PERFORM REBOOT		
Switch Control	Too Deland			
t‰ Equipment Manage	Configure a timed reboot			
Diagnosis				
Date Time	Local Time	2018-08-16 16:18:29 SYNC V	VITH BROWSER	
Language Setting	Enable		and the second states and the other	and define in bottoms 22.00 and 5.00 PM
Modify Password	have	Enable the device to restart dur	ing the configured time each day (the recon	imended time is between 23:00 and 6:00 PM).
Update Firmware	nour	06	*	
Factory Reset	minute	00	*	
Reboot				
🕞 Logout				SAVE & APPLY RESET



Chapter 6 Check

6.1 Status

Display information related to the system.

串口通讯服务器 SERIAL DEVICE SERVER	Ê	智慧通信 创领互联
Routing Status	Status	
Status		
System Log	System	
Serial Utility	Model	SLK-S502
Network Setting	Serial Number	2
Routing Setting	Firmware Version	B2_V1.0
& Switch Control	Local Time	Thu Aug 16 16:17:43 2018
t‰ Equipment Manage	Uptime	0h 26m 38s
G→ Logout	Network	
	Address:	192.168.0.233
	Netmask:	255.255.255.0
	Gateway:	

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6.2 System Log

Display system log.

□D通讯服务器 LAL DEVICE SERVER Nouting Status Status Status Status Status System Log Status Status System Log Status Onting Status System Log Status System Log Status System Log Status System Log Status Status Status Status			
IAL DEVICE SERVER A Routing Status Status Status Status System Log A Routing Status System Log Status Status System Log A sististi 2028 kern.info kerneli [0.007789 (allibrating delay loop, 58.18 BogoNIFS (lpi-233068) Thu Ag 16 Sististi 2028 kern.info kerneli [0.007789 (allibrating delay loop, 58.18 BogoNIFS (lpi-233068) System Log System Log A g 16 Sististi 2028 kern.info kerneli [0.07789 (allibrating loop context contents in the kerneli [0.07789 (allibrating loop context contents in the kerneli [0.07789 (allibrating loop context contents in the kerneli [0.07789 (allibrating loop context contents in the kerneli [0.07789 (allibrating loop context contents in the kerneli [0.07789 (allibrating loop context contents in the kerneli [0.07889 (allibrating loop context contents in the kerneli [0.07889 (allibrating loop context contents in the kerneli [0.07889 (allibrating loop context contents in the kerneli [0.07889 (allibrating loop context contents in the kerneli [0.08108 (allibrating loop context contents in the kerneli [<	韦口通讯服务器		和封法法法
IAL DEVICE SERVER			督急进后 创 视 马 联
Nouting Status In Aug is is 1119 2018 kern.info kernel: Im Aug is is 15119 2018 kern.info kernel:	RIAL DEVICE SERVER		
h Routing Status Thu Aug 16 15:11:19 2018 kern.info kernel: 0.007392 [claimstring default: 32056 minimu: 301 Status Thu Aug 16 15:11:19 2018 kern.info kernel: 0.007392 [plamstudefault: 304 [cruder: 0, 4096 bytes] System Log Thu Aug 16 15:11:19 2018 kern.info kernel: 0.007392 [plamstudefault: 304 [cruder: 0, 4096 bytes] System Log Thu Aug 16 15:11:19 2018 kern.info kernel: 0.007392 [primary instruction cache 32ks, UTP; 4-way, linesize 32 bytes. System Log Thu Aug 16 15:51:19 2018 kern.info kernel: 0.007392 [Primary instruction cache 32ks, UTP; 4-way, linesize 32 bytes. System Log Thu Aug 16 15:51:19 2018 kern.info kernel: 0.007392 [Primary instruction cache 32ks, UTP; 4-way, linesize 32 bytes. Thu Aug 16 15:51:19 2018 kern.info kernel: 0.073926 [Primary instruction cache 32ks, UTP; 4-way, linesize 32 bytes. Thu Aug 16 15:51:19 2018 kern.info kernel: 0.558026 [Primary instruction cache 32ks, UTP; 4-way, linesize 32 bytes. Thu Aug 16 15:51:19 2018 kern.info kernel: 0.558026 [Primary instruction cache 32ks, UTP; 4-way, linesize 32 bytes. Network Setting Thu Aug 16 15:51:19 2018 kern.info kernel: 0.558026 [Primary instruction cache 32ks, UTP; 4-way, linesize 32 bytes. Nu Aug 16 15:51:19 2018 kern.info kernel: 0.558026 [Primary instruction cache 32ks, UTP; 4-way, linesize 32 bytes. Nu Aug 16 15:51:19 2018 kern.info kernel: 0.558026 [Primary		INU AUG 16 15:51:19 2018 Kern.10+0 Kernel: [0.000010j sched_clock: 32 bits at 4400Hz, resolution 2ns, wraps every 4880645118ns
Noticity Sector Initiality 0.678726 [hourt-cache hash table entries: 1024 (order: 0, 4096 bytes) Status Thu Aug 16 1515119 2018 kem.info kernel: 0.678736 [hourt-cache hash table entries: 1024 (order: 0, 4096 bytes) System Loy Thu Aug 16 1515119 2018 kem.info kernel: 0.689393] Hierarchical SRCU implementation. Thu Aug 16 1515119 2018 kem.info kernel: 0.699393] Hierarchical SRCU implementation. 0.699393] Hierarchical SRCU implementation. Thu Aug 16 1515119 2018 kem.info kernel: 0.678766 [hourt-cache hash table entries: 1024 (order: 0, 4096 bytes)] ± Serial Utility Thu Aug 16 1515119 2018 kem.info kernel: 0.679838] Primary instruction cache 22k8, VIF1, 4-way, linesize 32 bytes. • Logout Thu Aug 16 1515119 2018 kem.info kernel: 0.679836] Primary data cache 22k8, 4-way, PIF1, no allases, linesize 32 bytes. • Network Setting Thu Aug 16 1515119 2018 kem.info kernel: 0.558221 (Primary data cache 32k8, 4-way, PIF1, no allases, linesize 32 bytes. • Nu Aug 16 1515119 2018 kem.info kernel: 0.558221 (Primary instruction cache 32k8, 4-way, PIF1, no allases, linesize 32 bytes. • Mu Aug 16 1515119 2018 kem.info kernel: 0.185765 [Synchonize counters for CPU 2: done. • Wu Aug 16 1515119 2018 kem.info kernel: 0.185761 [Primary instruction cache 32k8, 4-way, PIF1, no allases, linesize 32 bytes. • Mu Aug 16 1515119 2018	Bouting Status	Thu Aug 16 15:51:19 2018 kern.info kernel: [0.007798] Calibrating delay loop 586.13 BogoMIPS (lpj=2930688)
StatusMu Aug 16 15:11:2 2018 kern.linfo kernel: 10.085233 Munt-catte hash table entries: 1204 (0rder: 0, 40% bytes)System Logmu Aug 16 15:11:2 2018 kern.linfo kernel: 10.085233 Mutroptint-cathe hash table entries: 1204 (0rder: 0, 40% bytes)System Logmu Aug 16 15:11:2 2018 kern.linfo kernel: 10.085233 Mutroptint-cathe hash table entries: 1204 (0rder: 0, 40% bytes)System Logmu Aug 16 15:11:2 2018 kern.linfo kernel: 10.089064 sign: Bringing up secondary CostThu Aug 16 15:51:12 2018 kern.laren kernel: 16.679833 Primary distacal skew, VPTF, no allases, linesize 32 bytes.Thu Aug 16 15:51:12 2018 kern.laren kernel: 16.679853 (PU revision 1: 0001927 (UFS 1004KC)Thu Aug 16 15:51:12 2018 kern.laren kernel: 16.679853 (PU revision 1: 0001927 (UFS 1004KC)Thu Aug 16 15:51:12 2018 kern.laren kernel: 15.556220 (PU revision 1: 0001927 (UFS 1004KC)Thu Aug 16 15:51:12 2018 kern.laren kernel: 15.556220 (PU revision 1: 0001927 (UFS 1004KC)Thu Aug 16 15:51:12 2018 kern.laren kernel: 15.556220 (PU revision 1: 0001927 (UFS 1004KC)Thu Aug 16 15:51:12 2018 kern.laren kernel: 16.673983 (PU revision 1: 0001927 (UFS 1004KC)Switch ControlThu Aug 16 15:51:12 2018 kern.laren kernel: 10.185773 Primary instruction cache 32k4, 4-way, PIFT, no allases, linesize 32 bytes.Nu Aug 16 15:51:12 2018 kern.laren kernel: 10.185773 Primary instruction cache 32k4, VPT, 4-way, linesize 32 bytes.Nu Aug 16 15:51:12 2018 kern.laren kernel: 10.185773 Primary instruction cache 32k4, VPT, 4-way, linesize 32 bytes.Nu Aug 16 15:51:12 2018 kern.laren kernel: 10.185773 Primary distacache 32k4, 4-way, PIFT, no allases, linesiz	in mouting oracio	Thu Aug 16 15:51:19 2018 Kern.1nfo Kernel: [0.0739/2] pid_max: default: 32/68 minimum: 301
Status IND Adg 1s 15:11:9 208 kern.liffo kernel: 1 0.093933 Hierarchical Scales (Dirugention, Cale Scale, 1:2) 200 kern.liffo kernel: 1 0.093933 Hierarchical Scales, 1:02: 0:01:02: 1:02: 0		Thu Aug 16 15:51:19 2018 Kern.info Kernel: [0.078/36] Mount-cache mash table entries: 1024 (Order: 0, 4096 bytes)
System Log Thu Aug 16 15:5119 2018 kern.info kernel: 0.099064 3pp; Bringry Instruction cache 32kg, 4-way, PIPT, no allases, linesite 32 bytes. Serial Utility Thu Aug 16 15:5119 2018 kern.warn kernel: 6.679839 Primary instruction cache 23kg, 4-way, PIPT, no allases, linesite 32 bytes. Network Setting 6.679831 Primary data cache 32kg, 4-way, PIPT, and Pieter 2000 (MPS 1000 (MPS 10000 (MPS 1000 (MPS 10	Status	Thu Aug 16 15:51:19 2018 Kern.into Kernel: [0.085243] Mountpoint-tathe mash table entries: 1024 (order: 0, 4096 bytes)
System LogInto Aug is 15:1:12 2018 kern.lifto kernel:I000 <th< td=""><th></th><td>Thu Aug 16 15:51:19 2018 kern.into kernel: [</td><td>0.093953] Hierarchical Skou implementation.</td></th<>		Thu Aug 16 15:51:19 2018 kern.into kernel: [0.093953] Hierarchical Skou implementation.
System Doy Thu Aug is 515:12 2018 kern.lamin kernel: is 6:679833 Primary data cache 22k8, 4-way, PIPT, no aliases, linesize 32 bytes. Thu Aug is 515:12 2018 kern.lamin kernel: is 6:679833 Primary data cache 22k8, 4-way, PIPT, no aliases, linesize 32 bytes. Thu Aug is 515:12 2018 kern.lamin kernel: is 6:679835 Primary instruction cache 22k8, 4-way, PIPT, no aliases, linesize 32 bytes. Thu Aug is 515:12 2018 kern.lamin kernel: is 6:679855 (PUI revision is: 0e01992f (MIPS 1004KC) Network Setting Thu Aug is 515:119 2018 kern.lamin kernel: 5.556203 (PUI revision is: 0e01932f (MIPS 1004KC) Network Setting Thu Aug is 515:119 2018 kern.lamin kernel: 5.556203 (PUI revision is: 0e01932f (MIPS 1004KC) Nu Aug is 515:119 2018 kern.lamin kernel: is 556203 (PUI revision is: 0e01932f (MIPS 1004KC) Thu Aug is 515:119 2018 kern.lamin kernel: is 556203 (PUI revision is: 0e01932f (MIPS 1004KC) Switch Control Thu Aug is 515:119 2018 kern.lamin kernel: is 55731 Primary instruction cache 32k8, 4-way, PIPT, no aliases, linesize 32 bytes Nu Aug is 515:119 2018 kern.lamin kernel: is 55731 Primary instruction cache 32k8, 4-way, PIPT, no aliases, linesize 32 bytes Nu Aug is 5155119 2018 kern.lamin kernel: is 55731 Primary instruction cache 32k8, 4-way, PIPT, no aliases, linesize 32 bytes Nu Aug is 5155119 2018 kern.lamin kernel: is 55731 Primary instruction cache 32k8, 4-way, PIPT, no al	Destroy Loss	Thu Aug 16 15:51:19 2018 Kern. Into Kernel: [6.099064] Smp: Bringing up secondary CPOS
 Serial Utility Network Setting Network Setting Network Setting Network Setting Switch Control Switch Control Switch Control Sissing 2018 kern.info kernel: [0.18573] Primary instruction cache 3248, 4-way, linesize 32 bytes. Switch Control Sissing 2018 kern.info kernel: [0.18573] Primary instruction cache 3248, 4-way, linesize 32 bytes. Switch Control Sissing 2018 kern.info kernel: [0.18573] Primary instruction cache 3248, 4-way, linesize 32 bytes. Thu Aug 16 Sissing 2018 kern.info kernel: [0.18573] Primary instruction cache 3248, 4-way, PiPT, no aliases, linesize 32 bytes. Switch Control Sissing 2018 kern.info kernel: [0.18573] Primary instruction cache 3248, 4-way, PiPT, no aliases, linesize 32 bytes. Thu Aug 16 Sissing 2018 kern.info kernel: [0.18573] Primary instruction cache 3248, 4-way, PiPT, no aliases, linesize 32 bytes. Thu Aug 16 Sissing 2018 kern.info kernel: [0.18573] Primary instruction cache 3248, 4-way, PiPT, no aliases, linesize 32 bytes. Thu Aug 16 Sissing 2018 kern.info kernel: [0.18573] Primary instruction cache 3248, 4-way, PiPT, no aliases, linesize 32 bytes. Thu Aug 16 Sissing 2018 kern.info kernel: [0.18573] Primary instruction cache 3248, 4-way, PiPT, no aliases, linesize 32 bytes. Thu Aug 16 Sissing 2018 kern.info kernel: [0.18573] Primary instruction cache 3248, 4-way, PiPT, no aliases, linesize 32 bytes. Thu Aug 16 Sissing 2018 kern.info kernel: [0.18573] Primary instruction cache 3248, 4-way, PiPT, no aliases, linesize 32 bytes. Thu Aug 16 Sissing 2018 kern.info kernel: [0.18573] Primary instruction cache 3248, 4-way, PiPT, no aliases, linesize 32 bytes. Thu Aug 16 Sissing 2018 kern.info kernel: [0.18573] Primary instruction cache 3248, 4-way, PiPT, no aliases, linesize 32 bytes.	System Log	Thu Aug 16 15:51:19 2018 Kern.warn Kernel: [6.678633] Frimary data cache 32kB, VIFI, 4-Way, Intelize 32 bytes.
 Serial Utility Thu Aug 16 15:51:19 2018 kern.laff kernel: 1 0:67995 [Cull revision 15: 0001992 (HUFS 1004KC) Metwork Setting Network Setting Network Setting Network Setting Source Setting 15:51:19 2018 kern.laff kernel: 1 5:55:221 [Primary instruction cache 32k8, 4-way, PIPT, no aliases, linesize 32 bytes. Thu Aug 16 15:51:19 2018 kern.warn kernel: 1 5:55:221 [Primary instruction cache 32k8, 4-way, PIPT, no aliases, linesize 32 bytes. Thu Aug 16 15:51:19 2018 kern.warn kernel: 1 5:55:221 [Primary instruction cache 32k8, 4-way, PIPT, no aliases, linesize 32 bytes. Thu Aug 16 15:51:19 2018 kern.warn kernel: 1 6:254986 [Synchronize counters for CPU 2: done. Thu Aug 16 15:51:19 2018 kern.warn kernel: 1 6:15573] Primary instruction cache 32k8, 4-way, PIPT, no aliases, linesize 32 bytes. Switch Control Thu Aug 16 15:51:19 2018 kern.warn kernel: 1 6:15573] Primary instruction cache 32k8, 4-way, PIPT, no aliases, linesize 32 bytes. Thu Aug 16 15:51:19 2018 kern.warn kernel: 1 6:15573] Primary instruction cache 32k8, 4-way, PIPT, no aliases, linesize 32 bytes. Thu Aug 16 15:51:19 2018 kern.linfo kernel: 1 6:15573] Primary instruction cache 32k8, 4-way, PIPT, no aliases, linesize 32 bytes. Thu Aug 16 15:51:19 2018 kern.linfo kernel: 1 6:15573] Primary instruction cache 32k8, 4-way, Inesize 32 bytes. Thu Aug 16 15:51:19 2018 kern.linfo kernel: 1 6:15573] Primary instruction cache 32k8, 4-way, PIPT, no aliases, linesize 32 bytes. Thu Aug 16 15:51:19 2018 kern.linfo kernel: 1 6:15573] Primary instruction cache 32k8, 4-way, PIPT, no aliases, linesize 32 bytes. Thu Aug 16 15:51:19 2018 kern.linfo kernel: 1 6:15737] Primary instruction cache 32k8, 4-way, PIPT, no aliases, linesize 32 bytes. Thu Aug 16 15:51:19 2018 kern.linfo kernel: 1 6:15737] Primary instruction cache 3		Thu Aug 10 15.51.15 2010 Kern wann kennel. [6.675645] Filmery Gala Calle S205, 4-Way, Firi, No allases, Linesize 52 Dyces
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togout Thu Aug 16 15:51:19 2018 kern.debug kernel: 0.413652] FPU Affinity set after 11720 emulations Thu Aug 16 15:51:19 2018 kern.info kernel: 0.413652] FPU Affinity set after 11720 emulations Thu Aug 16 15:51:19 2018 kern.info kernel: 0.4238618 HT/621_gpio 1e000600.gpio: registering 32 gpios Thu Aug 16 15:51:19 2018 kern.info kernel: 0.4238618 HT/621_gpio 1e000600.gpio: registering 32 gpios Thu Aug 16 15:51:19 2018 kern.info kernel: 0.442473] clocksource: Switched to clocksource GIC Thu Aug 16 15:51:19 2018 kern.info kernel: 0.442473] clocksource: Switched to clocksource GIC Thu Aug 16 15:51:19 2018 kern.info kernel: 0.442473] clocksource: Switched to clocksource GIC Thu Aug 16 15:51:19 2018 kern.info kernel: 0.442473] clocksource: Switched to clocksource GIC Thu Aug 16 15:51:19 2018 kern.info kernel: 0.442473] clocksource: Switched to clocksource GIC Thu Aug 16 15:51:19 2018 kern.info kernel: 0.442473] clocksource: Switched to clocksource GIC Thu Aug 16 15:51:19 2018 kern.info kernel: 0.442473] clocksource: Switched to clocksource GIC Thu Aug 16 15:51:19 2018 kern.info kernel: 0.442473] clocksource: Switched to clocksource GIC Thu Aug 16 15:51:19 2018 kern.info kernel: 0.4426666] TCP bind hash table entries: 2048 (order: 1, 8192 bytes) Thu Aug 16 15:51:19 2018 kern.info kernel: 0.440666] TCP bind hash table entries: 2048 (o		Thu Aug 16 15:51:19 2018 kern info kernel: [0.399271 NET: Registered protocol family 16
Thu Aug 16 15:51:19 2018 kern.info kernel: [0.42862] mt761 gpio 1e000600 gpio: registering 32 gpios Thu Aug 16 15:51:19 2018 kern.info kernel: [0.428616] mt7621 gpio 1e000600 gpio: registering 32 gpios Thu Aug 16 15:51:19 2018 kern.info kernel: [0.428616] mt7621 gpio 1e000600 gpio: registering 32 gpios Thu Aug 16 15:51:19 2018 kern.info kernel: [0.42473] clocksource: Switched to clocksource GC Thu Aug 16 15:51:19 2018 kern.info kernel: [0.448860] Mt7: Registered protocol family 2 Thu Aug 16 15:51:19 2018 kern.info kernel: [0.448860] Mt7: Registered protocol family 2 Thu Aug 16 15:51:19 2018 kern.info kernel: [0.448860] Mt7: Registered protocol family 2 Thu Aug 16 15:51:19 2018 kern.info kernel: [0.448860] Mt7: Registered protocol family 2 Thu Aug 16 15:51:19 2018 kern.info kernel: [0.448660] TCP bind hash table entries: 2048 (order: 1, 8192 bytes) Thu Aug 16 15:51:19 2018 kern.info kernel: [0.449666] TCP bind hash table entries: 2048 (order: 2, 16384 bytes) Thu Aug 16 15:51:19 2018 kern.info kernel: [0.449666] TCP bind hash table entries: 2048 (order: 2, 16384 bytes)	E Logout	Thu Aug 16 15:51:19 2018 kern.debug kernel: [0.4136521 FPU Affinity set after 11720 emulations
Thu Aug 16 15:51:19 2018 kern.info kernel: 0.428616] mt7621_gpio 1e000600.gpio: registering 32 gpios Thu Aug 16 15:51:19 2018 kern.info kernel: 0.428431 Thu Aug 16 15:51:19 2018 kern.info kernel: 0.442473 Inu Aug 16 15:51:19 2018 kern.info kernel: 0.442473 Thu Aug 16 15:51:19 2018 kern.info kernel: 0.442473 Thu Aug 16 15:51:19 2018 kern.info kernel: 0.448860 NET: Registered protocol family 2 0.448860 Thu Aug 16 15:51:19 2018 kern.info kernel: 0.448860 Thu Aug 16 15:51:19 2018 kern.info kernel: 0.44860 Thu Aug 16 15:51:19 2018 kern.info kernel: 0.448660	and the second sec	Thu Aug 16 15:51:19 2018 kern.info kernel: [0.422862] mt7621 gpio 1e000600.gpio: registering 32 gpios
Thu Aug 16 15:51:19 2018 kern.info kernel: [0.442473] mt7621_gpio 1e000600.gpio: registering 32 gpios Thu Aug 16 15:51:19 2018 kern.info kernel: [0.442473] clocksource: Switched to clocksource GIC Thu Aug 16 15:51:19 2018 kern.info kernel: [0.448860] NET: Registered protocol family 2 Thu Aug 16 15:51:19 2018 kern.info kernel: [0.448860] NET: Registered protocol family 2 Thu Aug 16 15:51:19 2018 kern.info kernel: [0.448660] TCP bind hash table entries: 2048 (order: 1, 8192 bytes) Thu Aug 16 15:51:19 2018 kern.info kernel: [0.440660] TCP bind hash table entries: 2048 (order: 2, 16384 bytes)		Thu Aug 16 15:51:19 2018 kern.info kernel:	0.428616] mt7621 gpio 1e000600.gpio: registering 32 gpios
Thu Aug 16 15:51:19 2018 kern.info kernel: [0.442473] clocksource: Switched to clocksource GIC Thu Aug 16 15:51:19 2018 kern.info kernel: [0.445880] NET: Registered protocol family 2 Thu Aug 16 15:51:19 2018 kern.info kernel: [0.453783] TCP established hash table entries: 2048 (order: 1, 8192 bytes) Thu Aug 16 15:51:19 2018 kern.info kernel: [0.460666] TCP bind hash table entries: 2048 (order: 2, 16384 bytes)		Thu Aug 16 15:51:19 2018 kern.info kernel: [0.434339] mt7621 gpio 1e000600.gpio: registering 32 gpios
Thu Aug 16 15:51:19 2018 kern.info kernel: 0.448860] NET: Registered protocol family 2 Thu Aug 16 15:51:19 2018 kern.info kernel: 0.43738] TC established hash table entries: 2048 (order: 1, 8192 bytes) Thu Aug 16 15:51:19 2018 kern.info kernel: 0.448660] NET: Registered bash table entries: 2048 (order: 2, 16384 bytes)		Thu Aug 16 15:51:19 2018 kern.info kernel: [0.442473] clocksource: Switched to clocksource GIC
Thu Aug 16 15:51:19 2018 kern.info kernel: [0.453783] TCP established hash table entries: 2048 (order: 1, 8192 bytes) Thu Aug 16 15:51:19 2018 kern.info kernel: [0.460666] TCP bind hash table entries: 2048 (order: 2, 16384 bytes)		Thu Aug 16 15:51:19 2018 kern.info kernel: [0.448860] NET: Registered protocol family 2
Thu Aug 16 15:51:19 2018 kern.info kernel: 0.460666] TCP bind hash table entries: 2048 (order: 2, 16384 bytes)		Thu Aug 16 15:51:19 2018 kern.info kernel: [0.453783] TCP established hash table entries: 2048 (order: 1, 8192 bytes)
		Thu Aug 16 15:51:19 2018 kern.info kernel: [0.460666] TCP bind hash table entries: 2048 (order: 2, 16384 bytes)
Thu Aug 16 15:51:19 2018 kern.info kernel: 0.467082] TCP: Hash tables configured (established 2048 bind 2048)		Thu Aug 16 15:51:19 2018 kern.info kernel: [0.467082] TCP: Hash tables configured (established 2048 bind 2048)
Thu Aug 16 15:51:19 2018 kern.info kernel: 0.473483] UDP hash table entries: 256 (order: 1, 8192 bytes)		Thu Aug 16 15:51:19 2018 kern.info kernel: [0.473483] UDP hash table entries: 256 (order: 1, 8192 bytes)



Chapter 7 Logout

7.1 Logout

Exit and enter the login page.

串口通讯服务器		智慧通信丨创领互联
Routing Status	Status	
Status System Log	System	
■ Serial Utility	Model	SLK-S502
Network Setting	Serial Number	2
Routing Setting	Firmware Version	B2_V1.0
& Switch Control	Local Time	Thu Aug 16 16:06:16 2018
🌣 Equipment Manage	Uptime	0h 15m 11s
⊖ Logout	Network	
	Address:	192.168.0.233
	Netmask:	255.255.255.0
	Gateway:	
	MAC Address:	BE:A8:2C:E5:E1:C5

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