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# **SC10E4IG\_L**

## **Isolated 4 Port Device Server**

### **User's Manual V1.0**

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## **Preface**

### **Version Description**

Manual version: V1.0

### **Copyright Notice**

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### **Brief Introduction**

Thank you for choosing our products.

This User Manual describes the SC10E4IG Series Serial Device Server. Before you use our device for the first time, please read all the included materials carefully, and install and operate this series of products in keeping with items listed in the manual, so as to avoid damaging the device resulting from malpractice.

### **Environmental Protection**

This product complies with the design requirements associated with environmental protection. The storage, use and disposal of the product should be conducted in accordance with related national laws and regulations.

**We welcome your advice and suggestion. It will be viewed as the ultimate support to us.**

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## Chapter 1: Product Introduction

The following topics are covered in this chapter:

- Product Description
- Product Feature
- Physical Description
- Technical Specification

### 1.1 Product Description

The SC10E4IG Serial Device Server can be used to connect any serial device to an Ethernet network, and support various operating modes. The SC10E4IG series Serial Device Server supports TCP Server, TCP Client, UDP and Virtual COM modes for security critical applications, such as Banking, Telecom, Access control and Remote site management.

The Serial Data transfer is transparent serial data to Ethernet.

### 1.2 Product Feature

- 4 of RS485/RS422 DIP selectable. Connector is a 5-pin Terminal Block.
- The serial baud rate supports 300bps to 115200bps.
- Data access modes including TCP Server, TCP Client, UDP and Virtual COM.
- Versatile socket operating modes including TCP Server, TCP Client, UDP and Virtual COM driver.
- 3 Ethernet Ports, 2 of 10/100 BASE-T, RJ45 with LED, full/half duplex, it supports auto MDI/MDIX, and 1 channel 100-FX SFP supporting hot plug in.
- Ethernet ports support Switch and Redundant modes
- Device support Web-based configuration, Telnet and SNMP.
- LCD (optional) enables you to manage and check information
- Serial port Optically Isolated to 2.5KV
- Built-in 15 KV ESD protection for all Serial Signals.
- 24V DC Wide range & Redundant Power supply, Dual DC18V~48V.

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### 1.3 Technical Specification

#### Ethernet Interface

Number of Ethernet Ports	: 2
Speed	: 10/100 Mbps, Auto MDI/MDIX
Connector	: RJ45 (with LED)
Magnetic Isolation	: 1.5 KV built in
Ethernet Line Protection	:
EN 61000-4-2 (ESD) Level 3	
EN 61000-4-5 (Surge) Level 3	
Number of Optical Ports	: 1
Speed	: 100 Mbps
Connector	: SFP

#### Serial Interface

Serial Standards	: RS485, RS422 (DIP switch selectable).
Number of Ports	: 4
Type of Connectors:	3.81mm, double layer 5-Pin terminal block.
EMS	:
EN 61000-4-2 (ESD) Level 4	
EN 61000-4-5 (Surge) Level 3	
EN 61000-4-5 (Lightning) Level 3	
EN 61000-4-4 (EFT) Level 3	
Port Isolation:	Serial Port Isolation is 2500V.

#### Serial Communication Parameters

Data Bits	: 5, 6, 7, 8
Stop Bits	: 1, 2
Parity	: None, Even, Odd, Space and Mark
Baud rate	: 300 bps to 115.2 Kbps

**Serial Signals**

PIN	1	2	3	4	5
RS422	T+	T-	R+	R-	GND
2-wire RS485	D+	D-	/	/	GND
4-wire RS485	T+	T-	R+	R-	GND

**For RS485 4wire /RS422**

Signal of SC10E4IG_L	Will connect to
TX+	RX+ of your device
TX-	RX- of your device
RX+	TX+ of your device
RX-	TX- of your device

**For RS485 2Wire**

Signal of SC10E4IG_L	Will connect to
D+	TX+/D+ of your device
D-	TX-/D- of your device

**Software**

Network Protocols : ICMP, IP, TCP, UDP, HTTP, SNMP, NTP, SMTP, DHCP, DNS, Telnet  
 Configuration Options : Web, Windows Search Utility, SNMP, Telnet  
 Windows Virtual COM Drivers : Win7/Win8/Win2008 Server/Win2012 Server

**Operation Modes**

Standard : Virtual COM, TCP Server, TCP Client, UDP

**Physical Characteristics**

Housing : Metal  
 Weight : SC10E4IG\_L: 0.55kg  
 Dimensions : 40.5(W) x 143(D) x 210(H) mm

**Environmental Limits**

Operating Temperature : 0 to 50°C  
 Storage Temperature : -20 to 85°C  
 Ambient Relative Humidity : 5 to 95% (non-condensing)  
 Atmospheric pressure : 70~106 kpa  
 Note : No solvent and corrosive gas, no dust, no magnetic disturbance area.

**Power Requirements**

Input Voltage : Dual power DC18V-DC48V  
 Power Consumption : <6W (Including LCD)

## Chapter 2 Hardware Instructions

This chapter covers the hardware installation.

The following topics are covered in this chapter:

- Panel Layout
- Connecting the Hardware
- Wiring Requirements
- Connecting to a Serial Device
- LED Indicators

### 2.1 Panel Layout



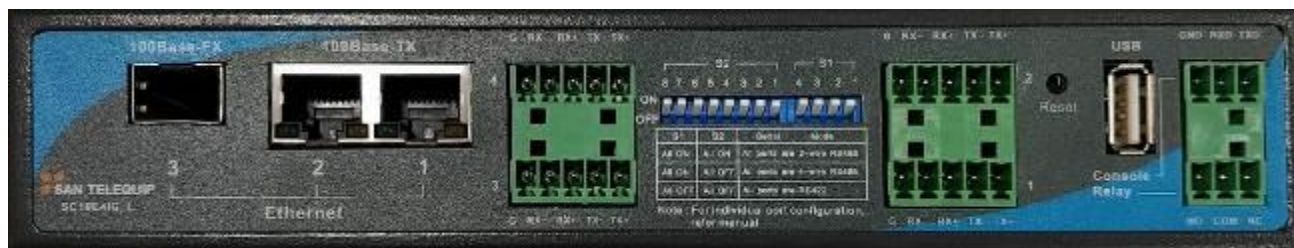
SC10E4IG\_L Front Panel

### DIP Switch Setting

Mode Select	COM Port	4 Way DIP Switch 1- S1 (Selection for RS485 & RS422)	8 Way DIP Switch 2 -S2 ( Selection for RS485 2 Wire / 4 Wire)
RS485 2 Wire	COM1	Switch 1 ON & other switches are OFF	Switch 1,2 ON & other switches are OFF
	COM2	Switch 2 ON & other switches are OFF	Switch 3,4 ON & other switches are OFF
	COM3	Switch 3 ON & other switches are OFF	Switch 5,6 ON & other switches are OFF
	COM4	Switch 4 ON & other switches are OFF	Switch 7,8 ON & other switches are OFF
RS485 4 Wire	COM1	Switch 1 ON & other switches are OFF	Switch 1,2 OFF & other switches are ON
	COM2	Switch 2 ON & other switches are OFF	Switch 3,4 OFF & other switches are ON
	COM3	Switch 3 ON & other switches are OFF	Switch 5,6 OFF & other switches are ON
	COM4	Switch 4 ON & other switches are OFF	Switch 7,8 OFF & other switches are ON
RS422	COM1	Switch 1 OFF & other switches are ON	Switch 1,2 OFF & other switches are ON
	COM2	Switch 2 OFF & other switches are ON	Switch 3,4 OFF & other switches are ON
	COM3	Switch 3 OFF & other switches are ON	Switch 5,6 OFF & other switches are ON
	COM4	Switch 4 OFF & other switches are ON	Switch 7,8 OFF & other switches are ON



SC10E4IG\_L Rear Panel



SC10E4IG\_L Top Panel



SC10E4IG\_L Bottom Panel

## 2.2 Connecting the Hardware

This section describes how to connect the SC10E4IG to Serial devices for the first time.

### 2.2.1 Wiring Requirements

**Note:**

**Disconnect the power before installing and wiring**

Disconnect the power cord before installing and/or wiring your SC10E4IG.

**Do not exceed the maximum current for the wiring**

Determine the maximum possible current for each power wire and common wire. Observe all electrical codes dictating the maximum current allowable for each wire size. If the current exceeds the maximum rating, the wiring could overheat, causing serious damage to your equipment.

### 2.2.2 Connecting to a Serial Device

Connect the serial data cable between the SC10E4IG and the serial device. Serial data cables are available as optional accessories.

### 2.2.3 LED Indicators

The LED indicators on the panel of the SC10E4IG are described in the following table.

LED Name	LED Color	LED Function
PWR	Green	On- Unit is powered
		Off- Unit is off
SYS	Yellow	Blinking- System is working normally
		Off- System is abnormal
TX1~4	Green	Blinking- Data being sent
		Off- No data being sent
RX1~4	Green	Blinking- Data being received
		Off- No data being received
RJ45	Green	On-100M
		Off-10M
	Orange	Blinking- Data on RJ45 is being transmitted
		On- Eth port is connected
	Off- Eth port is disconnected	
ACT	Green	Blinking- Data on fiber is transmitting
		On- Fiber Port is connected
		Off- Fiber Port is disconnected

## Chapter 3 Software Instructions

In this chapter, we explain how to configure the Virtual Serial port Manager.

The following topics are covered in this chapter:

- Virtual Serial port Software Installation and Description
- Device Manager Software Installation and Description
- Web Manager Instructions

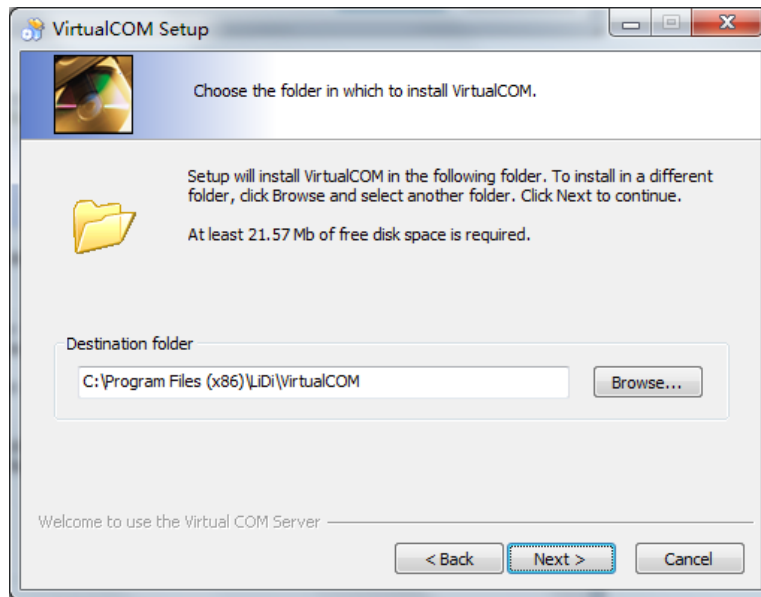
### 3.1 Virtual Serial port Software Installation

Users should follow these steps to install the application on a computer of the Windows platform.

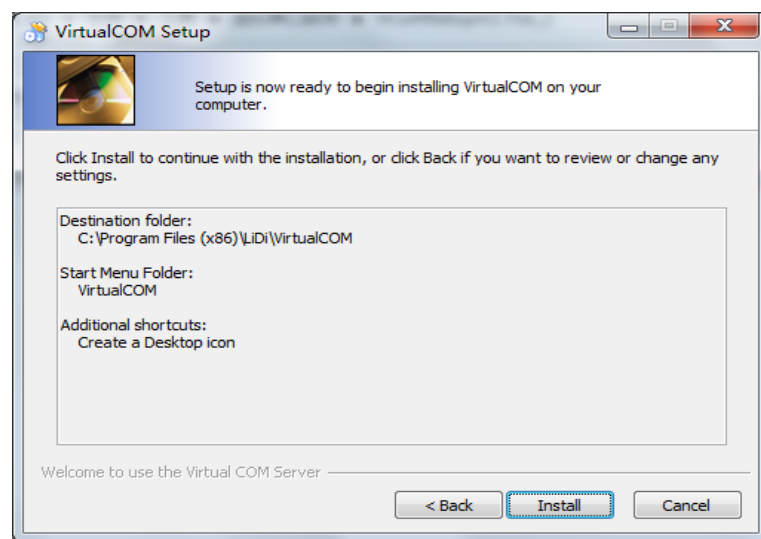
Step 1 : Double-click to run installation program 'VcomSetupV2.74e\_no\_tools.exe'.



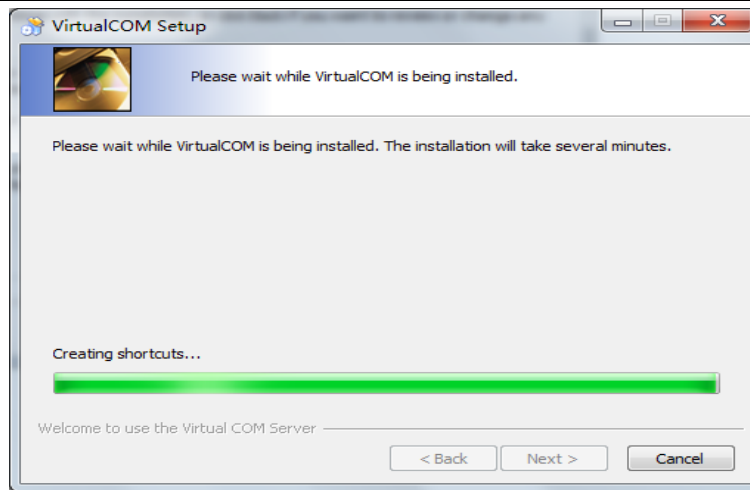
Step 2 : Click "Next" in the welcome windows, and display the following screen. Here you can modify the installation folder.



Step 3 : Click 'Install' to start the installation process.



The installation will take some time, please be patient!



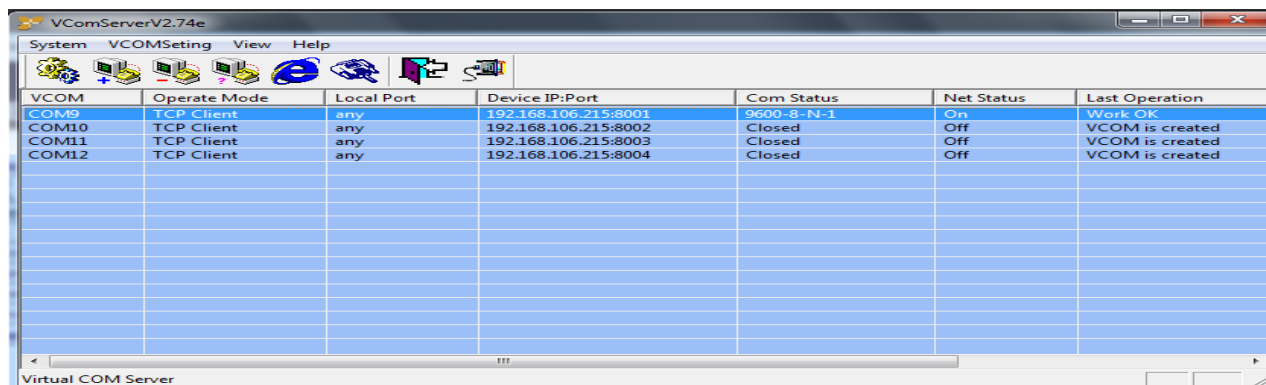
Step 4 : Click 'Finish' to complete the installation process.



### 3.2 Virtual Serial port Software Description

Virtual serial port software is used to simulate the serial port of the field devices on the computer.


Virtual serial port software show ports as follows:

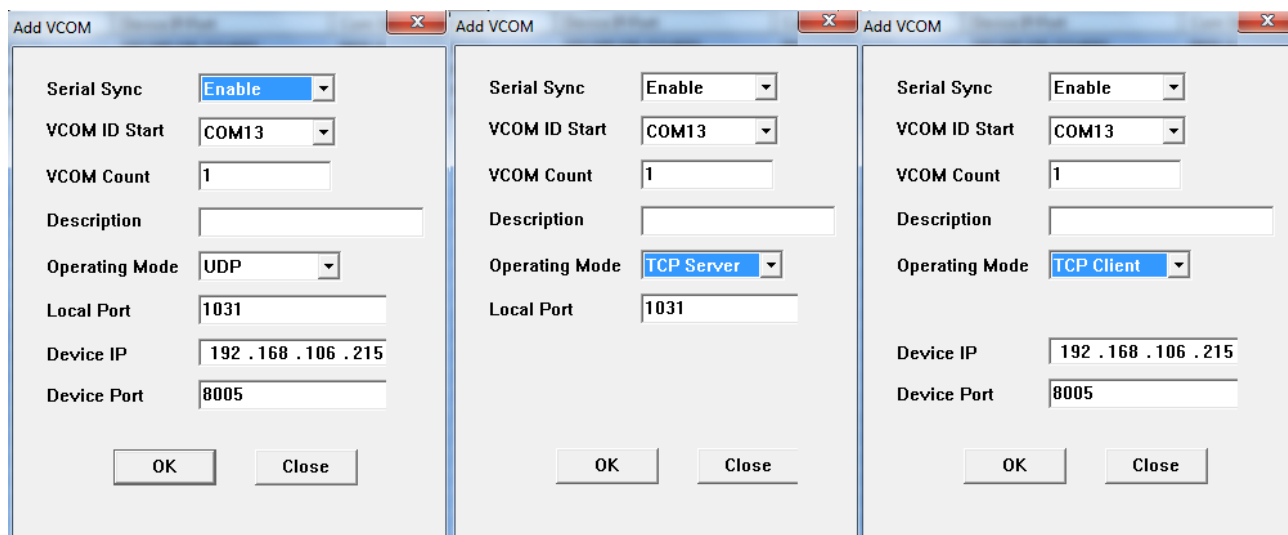


VCOM	Operate Mode	Local Port	Device IP:Port	Com Status	Net Status	Last Operation
COM9	TCP Client	any	192.168.106.215:8001	9600-8-N-1	On	Work OK
COM10	TCP Client	any	192.168.106.215:8002	Closed	Off	VCOM is created
COM11	TCP Client	any	192.168.106.215:8003	Closed	Off	VCOM is created
COM12	TCP Client	any	192.168.106.215:8004	Closed	Off	VCOM is created

### Virtual Serial port Management

Add Virtual serial port:

Click the icon  to add serial ports, a dialog box will pop up. According to the Operating mode selected, it will show corresponding dialog box as follows:



The image shows three overlapping 'Add VCOM' dialog boxes. Each dialog box contains the following fields:

- Serial Sync: Enable (dropdown)
- VCOM ID Start: COM13 (dropdown)
- VCOM Count: 1 (text input)
- Description: (empty text input)
- Operating Mode:
  - Left dialog: UDP (dropdown)
  - Middle dialog: TCP Server (dropdown)
  - Right dialog: TCP Client (dropdown)
- Local Port: 1031 (text input)
- Device IP: 192 . 168 . 106 . 215 (text input)
- Device Port: 8005 (text input)
- Buttons: OK and Close

### Parameter Description

- Serial Synch** : This device does not support synchronization. Always keep it **DISABLE**
- VCom ID Start** : Select starting virtual serial port, COM2 to COM512
- VCom Count** : The no's of Ports that can be configured as VCOM ports. This device supports up to 4
- Description** : Any Remarks / Information

**Operating Mode :** Select UDP, TCP client, TCP server from the drop down option.

TCP client mode:

In TCP Client Mode, device can establish a TCP connection with server. After the data has been transferred, device can disconnect automatically

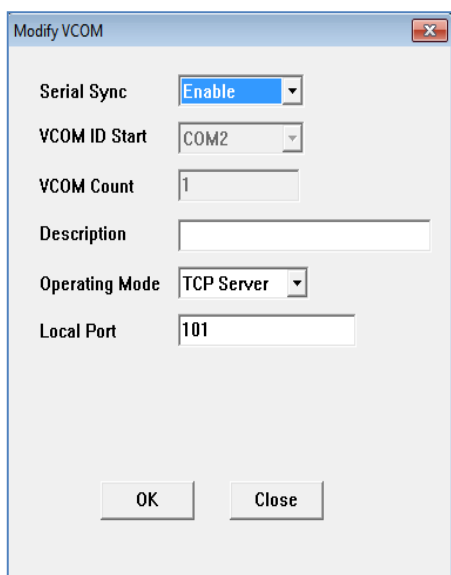
Remote IP : Enter the IP address of the Ethernet device connected to our Unit.

Port 1 : Enter the Port number of the Ethernet device connected to our Unit.

The below table explains the relationship of the IP Address / Port no in the Server and PC.

Computer Virtual serial port configuration (Assume Computer's IP address: IP A, Port: Port A)	Device Configuration (Assume Device IP address: IP B, Port: Port B)
Operating Mode : TCP server Local Port : Port A	LAN Mode status : TCP Client Listening Port : NA Remote IP : IP A Port 1 : Port A

**VcomServerV2.74e**



Modify VCOM

Serial Sync: Enable

VCOM ID Start: COM2

VCOM Count: 1

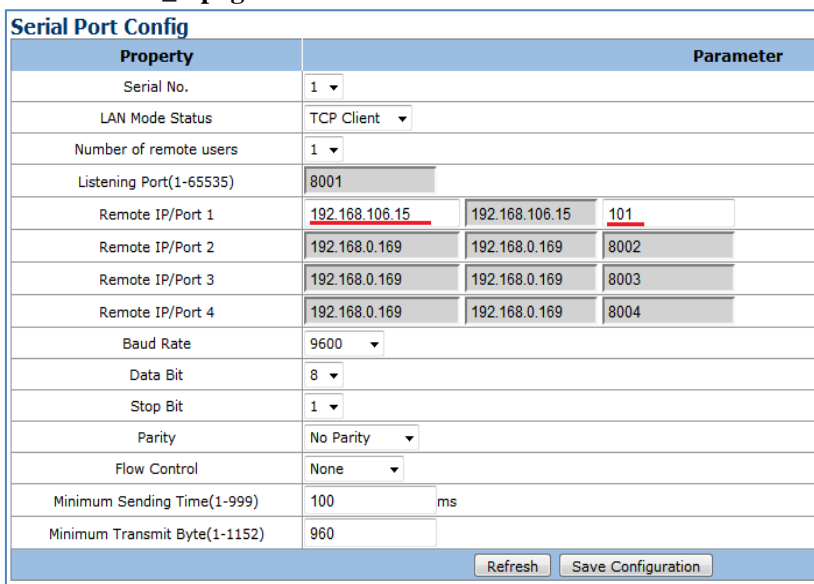
Description:

Operating Mode: TCP Server

Local Port: 101

OK Close

**SC10E4IG\_L page**



Property	Parameter		
Serial No.	1		
LAN Mode Status	TCP Client		
Number of remote users	1		
Listening Port(1-65535)	8001		
Remote IP/Port 1	192.168.106.15	192.168.106.15	101
Remote IP/Port 2	192.168.0.169	192.168.0.169	8002
Remote IP/Port 3	192.168.0.169	192.168.0.169	8003
Remote IP/Port 4	192.168.0.169	192.168.0.169	8004
Baud Rate	9600		
Data Bit	8		
Stop Bit	1		
Parity	No Parity		
Flow Control	None		
Minimum Sending Time(1-999)	100	ms	
Minimum Transmit Byte(1-1152)	960		

Refresh Save Configuration

TCP Server mode:

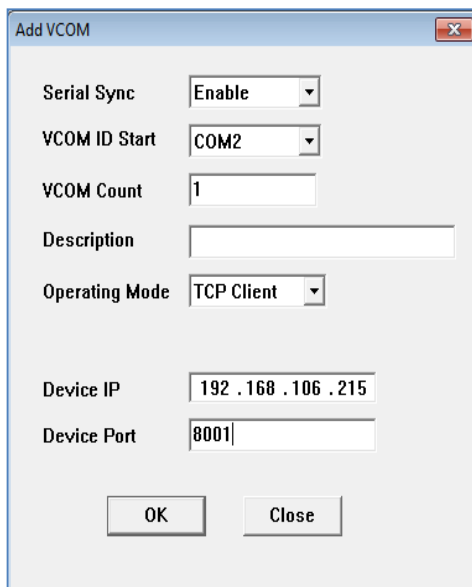
In this case, SC10E4IG-L waits passively to be contacted by the device.

Listening Port : Set any Unique port number except any reserve port.

The below table explains how to set the IP Address / Port no in the Server as well as PC.

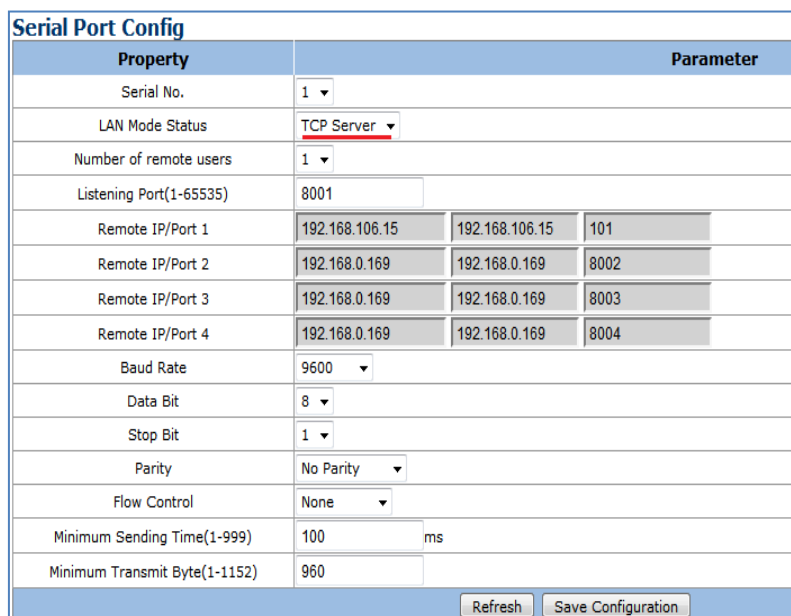
Computer Virtual serial port configuration (Assume Computer's IP address: IP A, Port: Port A)	Device Configuration (Assume Device IP address: IP B, Port: Port B)
Operating Mode : TCP Client Device IP : IP B Device Port : Port B	LAN Mode status : TCP server Listening Port : Port B Remote IP : NA Port 1 : NA

**VcomServerV2.74e**



The screenshot shows the 'Add VCOM' dialog box. It includes fields for 'Serial Sync' (set to 'Enable'), 'VCOM ID Start' (set to 'COM2'), 'VCOM Count' (set to '1'), 'Description' (empty), 'Operating Mode' (set to 'TCP Client'), 'Device IP' (set to '192.168.106.215'), and 'Device Port' (set to '8001'). There are 'OK' and 'Close' buttons at the bottom.

**SC10E4IG\_L Page**



The screenshot shows the 'Serial Port Config' table. The 'LAN Mode Status' is set to 'TCP Server'. The 'Listening Port(1-65535)' is set to '8001'. There are four rows for 'Remote IP/Port' with IP addresses '192.168.106.15' and '192.168.0.169' and port numbers '101', '8002', '8003', and '8004'. Other settings include Baud Rate (9600), Data Bit (8), Stop Bit (1), Parity (No Parity), Flow Control (None), Minimum Sending Time (100 ms), and Minimum Transmit Byte (960). There are 'Refresh' and 'Save Configuration' buttons at the bottom right.

UDP mode:

Compared to TCP communication, UDP is faster and more efficient. In UDP mode, you can Uni-cast or Multi-cast data from the serial device server to host computers, and the serial device can also receive data from one or multiple host

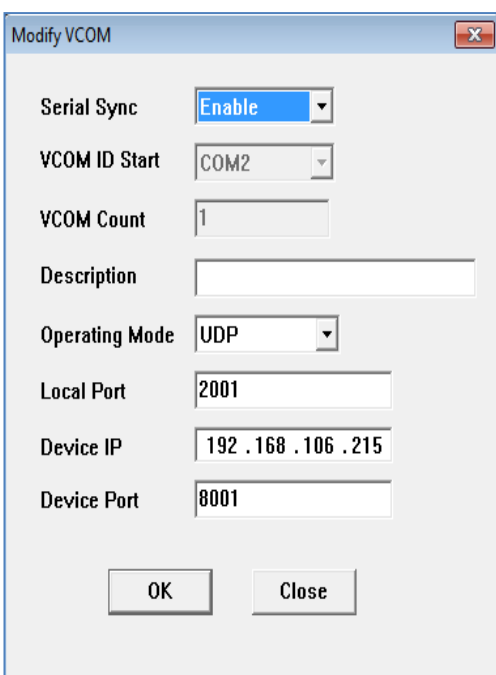
Remote IP : Enter the IP address of the Ethernet device connected to our Unit.

Port 1 : Enter the Port number of the Ethernet device connected to our Unit.

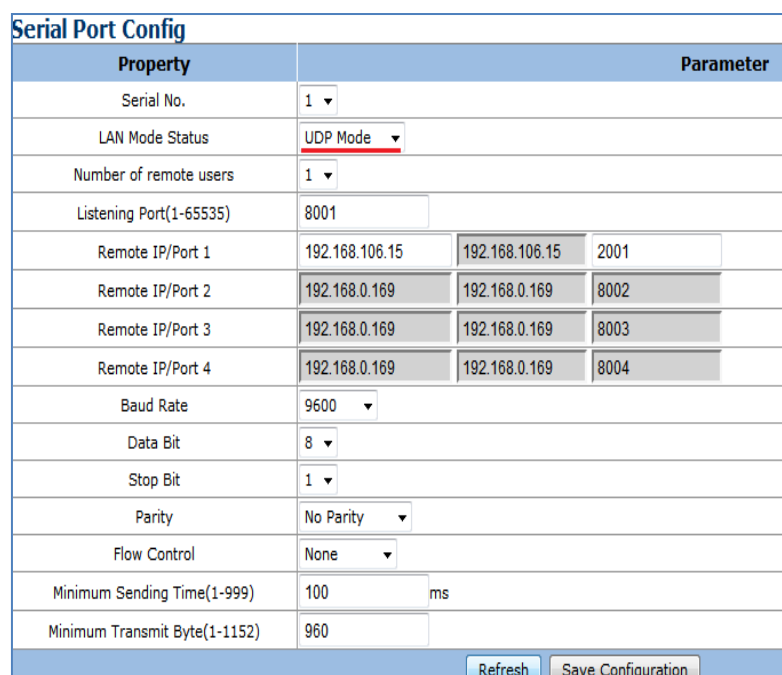
The below table explains how to set the IP Address / Port no in the Server as well as PC.

Computer Virtual serial port configuration (Assume Computer's IP address: IP A, Port: Port A)	Device Configuration (Assume Device IP address: IP B, Port: Port B)
Operating Mode : UDP Local Port : Port A Device IP : IP B Device Port : Port B	LAN Mode status : UDP Listening Port : Port B Remote IP : IP A Port 1 : Port A

VcomServerV2.74e



SC10E4IG\_L



Property	Parameter
Serial No.	1
LAN Mode Status	UDP Mode
Number of remote users	1
Listening Port(1-65535)	8001
Remote IP/Port 1	192.168.106.15 192.168.106.15 2001
Remote IP/Port 2	192.168.0.169 192.168.0.169 8002
Remote IP/Port 3	192.168.0.169 192.168.0.169 8003
Remote IP/Port 4	192.168.0.169 192.168.0.169 8004
Baud Rate	9600
Data Bit	8
Stop Bit	1
Parity	No Parity
Flow Control	None
Minimum Sending Time(1-999)	100 ms
Minimum Transmit Byte(1-1152)	960

**Deleting a Virtual serial port**

Select the corresponding virtual serial port, click the  icon to delete.

**Modify the Virtual serial port**


Select the corresponding virtual serial port, click the  icon to edit.

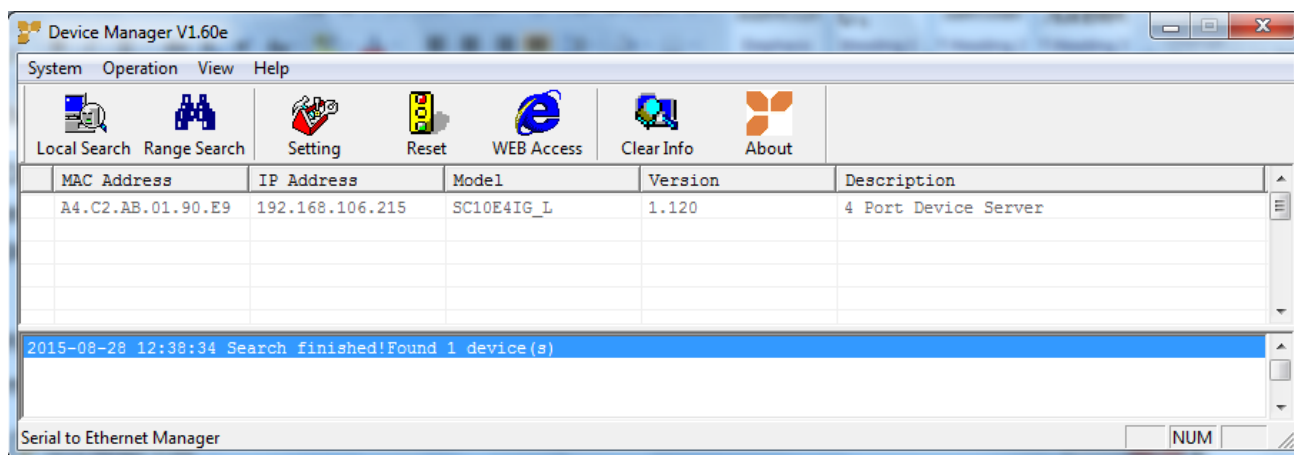
**NOTE :**

Make sure that all the firewalls including windows firewall should be closed during Virtual COM software installation.

### 3.3 Device Manager Software Introduction

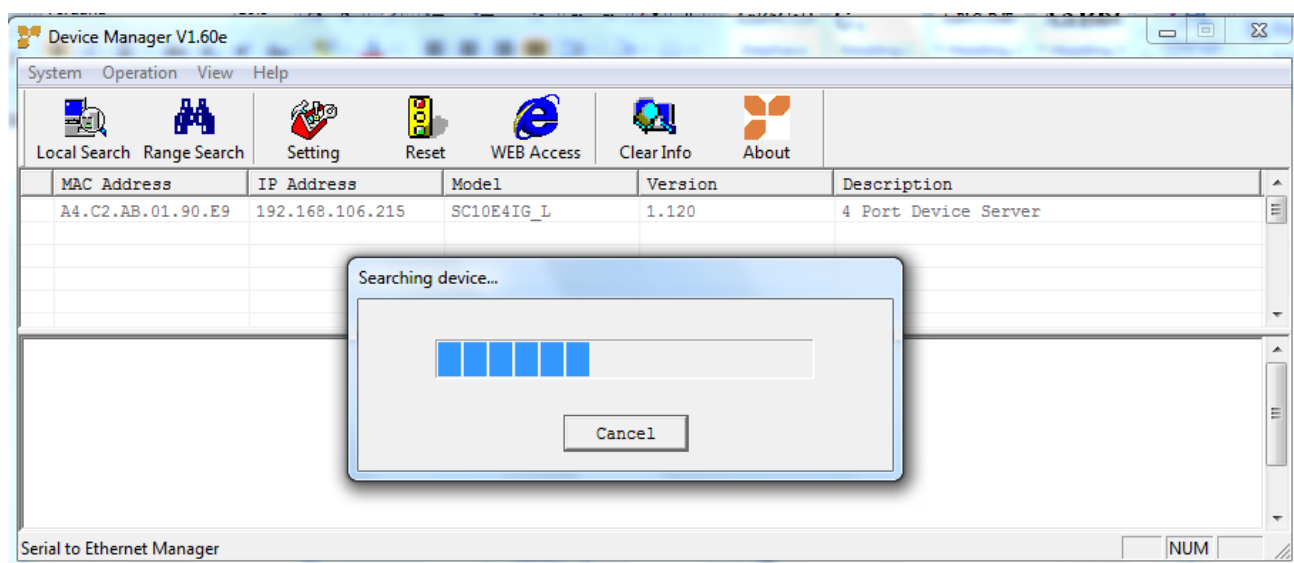
Device Manager is a comprehensive Windows GUI that can be used to conveniently configure and maintain multiple Serial Devices. It can search all the device, check and configure network parameter and serial port parameter of device. It also can remote update and reset device.

Firstly, open the Device Manager “ DeviceManagerV1.60e.exe”, you can select related button or menu to use each function

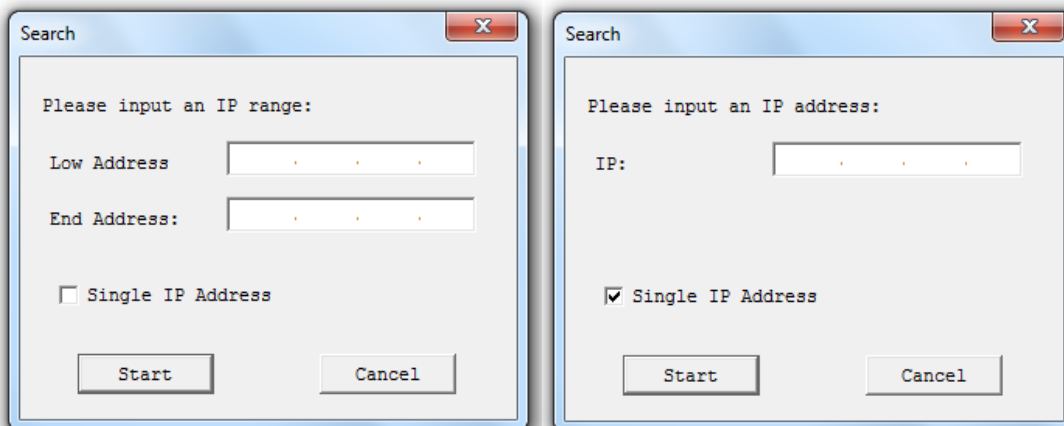


#### Searching Device

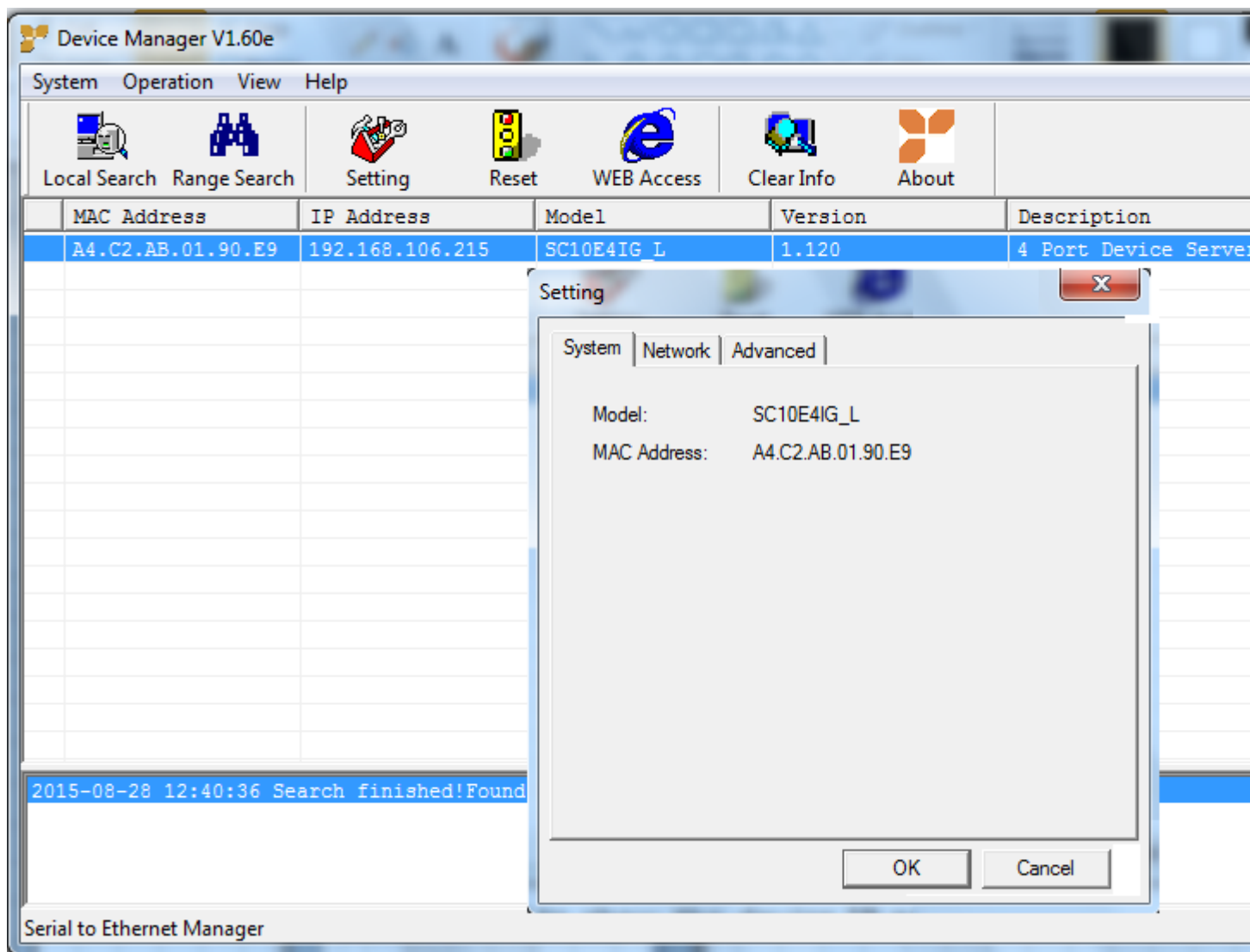
Through press “Local Search” button to update all Serial Device that are connected to the same LAN as your computer.



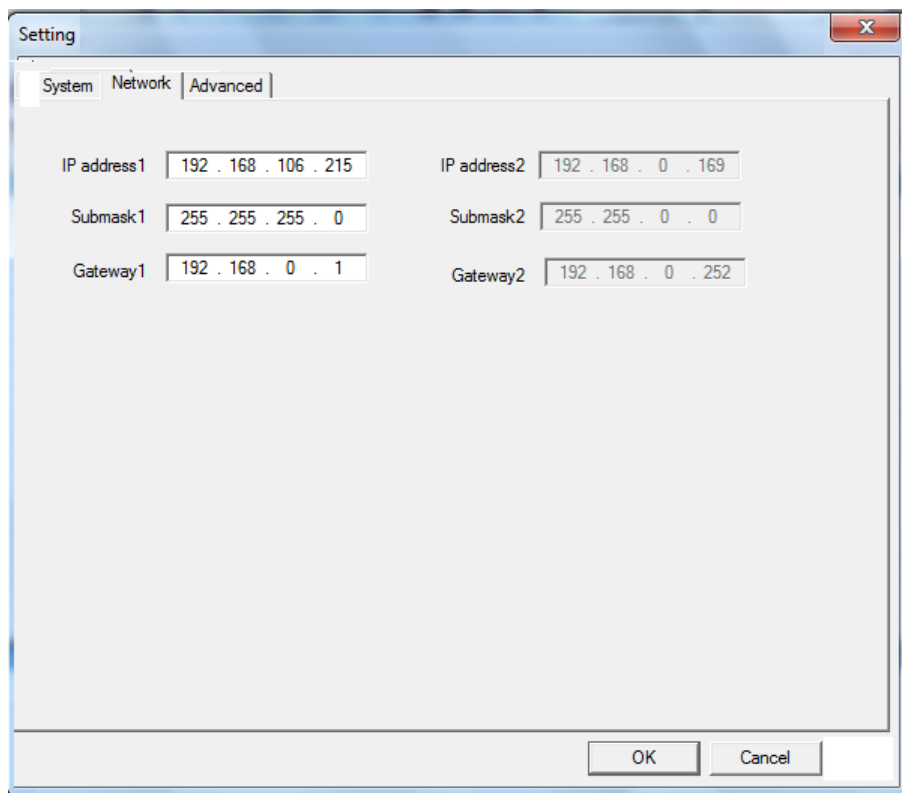
Also the devices can be searched by IP Range Search or by keying in fixed IP address.



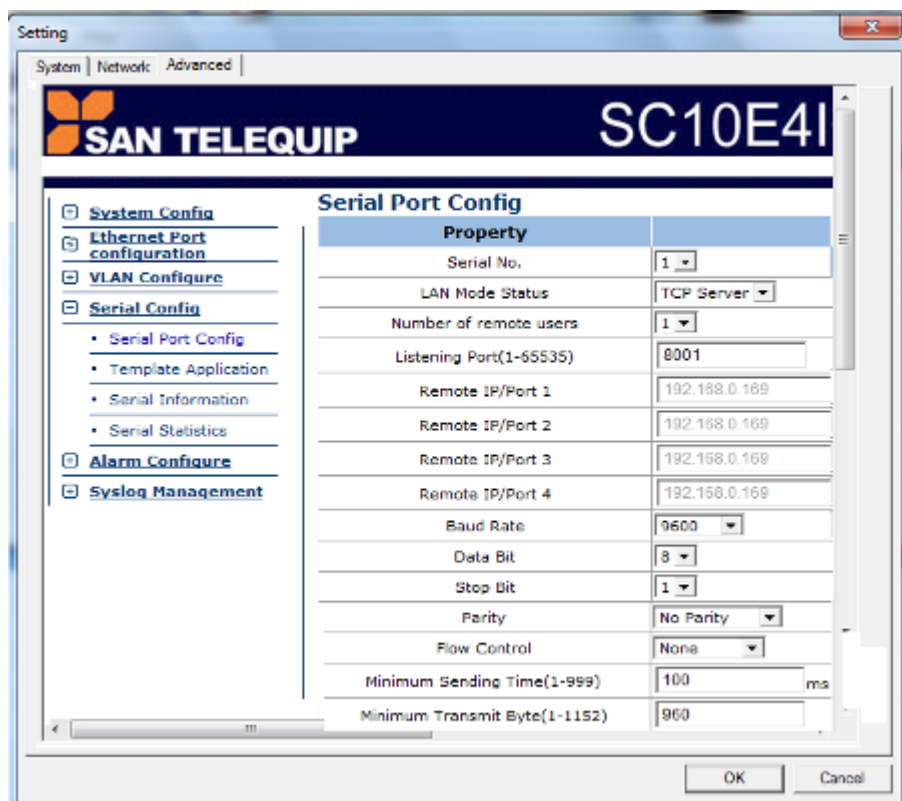
**Setting :** To modify the configuration of a particular Serial Device, first select the device entry, and then select Setting icon, or click on the Setting under the Setting menu. Press "System Information" can check the device Model, MAC address.



Press "Network" to show the device IP address, Submask and Gateway.



The COM Parameters page is used to modify the settings of Serial Port.



**Min Send Time:** Every time converter receives data from serial port, the timer value is set to zero. If the time interval reach the Min send time, and the Serial Port haven't received the next data, then the converter pushes the received data to the network. The default value of device Min Send Time is 100ms.

**Min Send Size:** The default value of device Min Send Size is 960 bytes. If the converter meets any of the 2 conditions, "Min Send Time" or "Min Send Size" it will send the data to the network. If serial port is at low baud rate, we suggest to change the Min Send Size to smaller value.

### 3.4 WEB Network Management Profile

#### 3.4.1 Using Your Web Browser

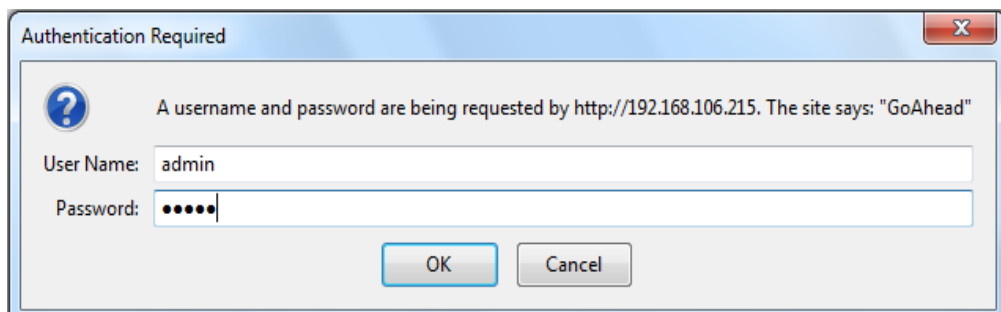
Open your browser, enter the device IP, and then enter the user name and password as the following steps.

##### Default IP

IP address: 192.168.0.100

##### User name and password:

The default user and password are both "admin".

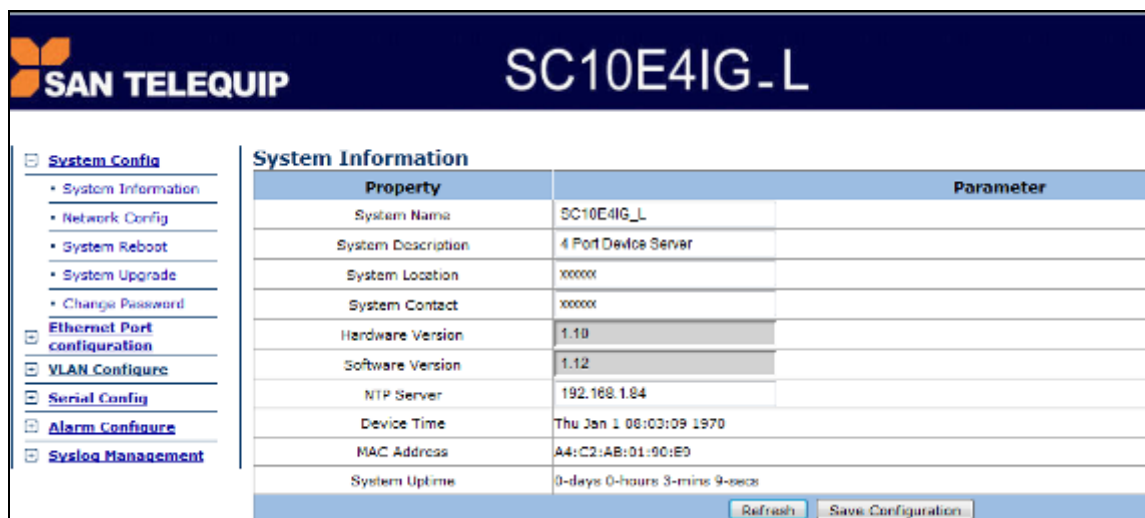


#### 3.4.2 WEB Function Setting Description

##### System Config

##### System Info

This page is to set the System Name, System Description, System Location, Contact Information, Hardware Version, Software Version, NTP Server and so on. Once you configure the NTP Server IP and press "OK", the device time will synchronize with the NTP Server.



The screenshot shows the 'System Information' page of the SAN TELEQUIP SC10E4IG\_L device. The left sidebar contains a navigation menu with options like System Config, Ethernet Port configuration, VLAN Configure, Serial Config, Alarm Configure, and Syslog Management. The main content area displays a table of system properties and parameters.

Property	Parameter
System Name	SC10E4IG_L
System Description	4 Port Device Server
System Location	xxxxxx
System Contact	xxxxxx
Hardware Version	1.10
Software Version	1.12
NTP Server	192.168.1.84
Device Time	Thu Jan 1 00:03:09 1970
MAC Address	A4:C2:AB:01:00:E0
System Uptime	0-days 0-hours 3-mins 9-secs

Buttons for 'Refresh' and 'Save Configuration' are located at the bottom right of the table.

Note: The Settings will be saved to the configuration file.

## Network Config

This page is to set the Device IP, Subnet Mask, Gateway & MAC Address, DHCP, LAN Mode (Redundancy Mode or Switch Mode) & DNS Server details.

## Redundancy Mode



The screenshot shows the 'Network Config' page of the SAN TELEQUIP SC10E4IG\_L device. The left sidebar is similar to the previous screenshot. The main content area is divided into three sections: LAN Mode Status, LAN Configure, and DNS Configure.

**LAN Mode Status:** Shows 'Redundancy Mode' selected with a radio button, and 'Switch Mode' unselected.

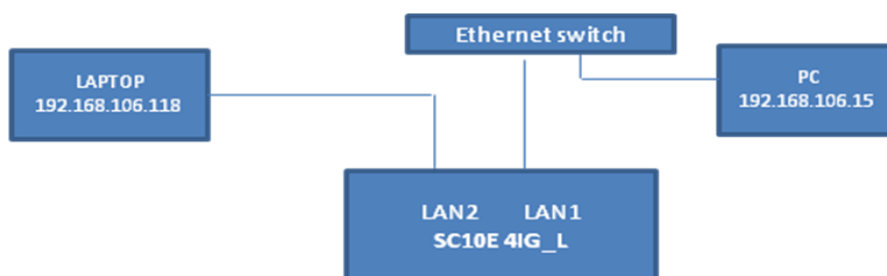
**LAN Configure:** Shows the following settings:

DHCP	<input checked="" type="checkbox"/> Enabled
IP Address	192.168.106.215
Subnet Mask	255.255.255.0
Default Gateway	192.168.106.50
MAC Address	A4:C2:AB:01:00:E0

**DNS Configure:** Shows the following settings:

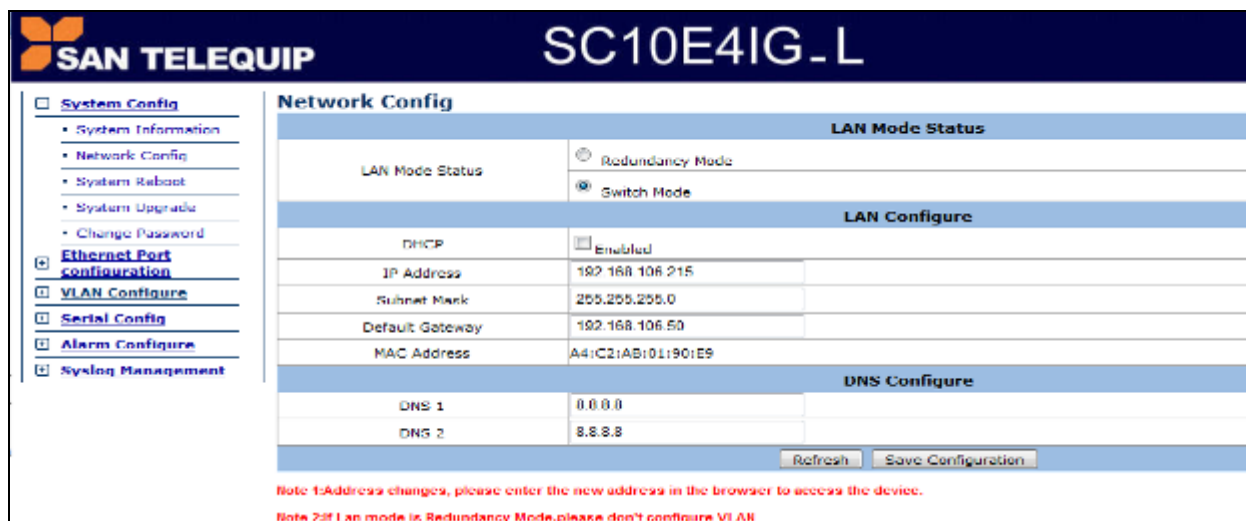
DNS 1	8.8.8.8
DNS 2	8.8.8.8

Buttons for 'Refresh' and 'Save Configuration' are located at the bottom right. Below the table, there are two red notes: 'Note 1: Address changes, please enter the new address in the browser to access the device.' and 'Note 2: If Lan mode is Redundancy Mode, please don't configure VLAN'.

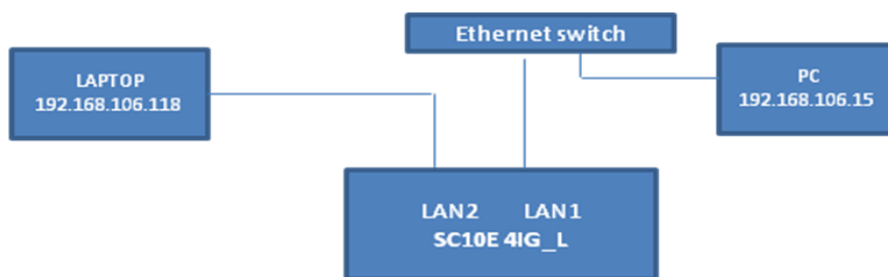


At a time one LAN port works. LAN1 is acting as a Master. When LAN 1 cable is removed then pinging starts after 2-3 sec in LAN2 but when LAN1 is connected again, LAN2 stop pinging & LAN1 start pinging. At a time one LAN port works.

### Switch Mode



The screenshot shows the Network Configuration page for the SC10E4IG-L device. The LAN Mode Status is set to Switch Mode. The LAN Configure section shows DHCP is enabled, IP Address is 192.168.106.215, Subnet Mask is 255.255.255.0, Default Gateway is 192.168.106.50, and MAC Address is A4:C2:AB:01:19:01E9. The DNS Configure section shows DNS 1 as 0.0.0.0 and DNS 2 as 8.8.8.8. There are 'Refresh' and 'Save Configuration' buttons at the bottom. Two notes are present: 'Note 1: Address changes, please enter the new address in the browser to access the device.' and 'Note 2: If Lan mode is Redundancy Mode, please don't configure VLAN'.

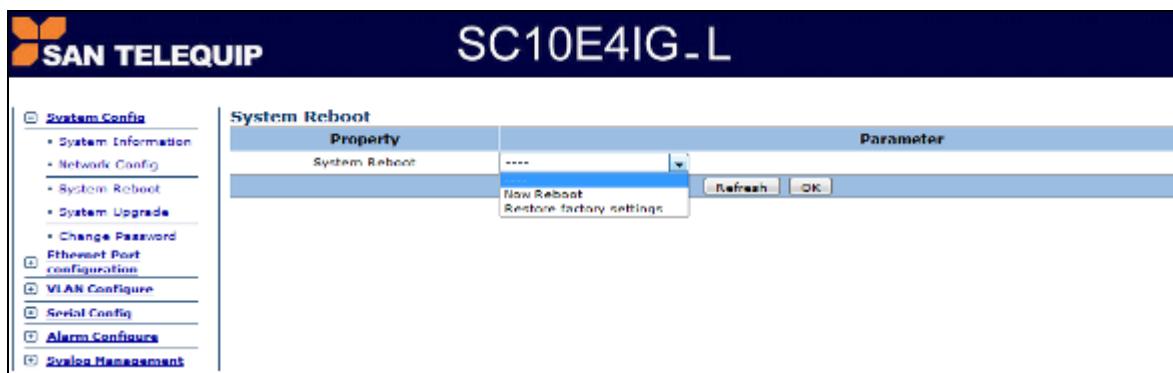


Both LAN ports work at a time.

Note: Once the IP address changes please enter the new address in your browser.

### System reboot

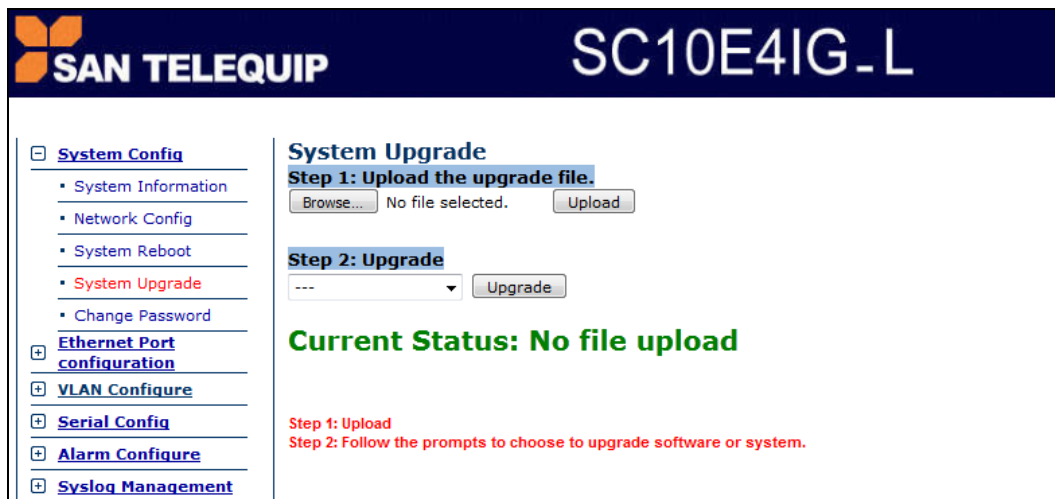
Reboot the device or restore factory settings.



The screenshot shows the System Reboot page for the SC10E4IG-L device. The System Reboot property is set to '----'. A dropdown menu is open, showing options for 'Now Reboot' and 'Restore factory settings'. There are 'Refresh' and 'OK' buttons at the bottom.

Note: If Restore factory setting is selected, system will reboot automatically.

## System Upgrade



**SAN TELEQUIP** SC10E4IG\_L

- System Config
  - System Information
  - Network Config
  - System Reboot
  - System Upgrade**
  - Change Password
- Ethernet Port configuration
- VLAN Configure
- Serial Config
- Alarm Configure
- Syslog Management

**System Upgrade**  
**Step 1: Upload the upgrade file.**  
 Browse... No file selected. Upload

**Step 2: Upgrade**  
 --- Upgrade

**Current Status: No file upload**

Step 1: Upload  
 Step 2: Follow the prompts to choose to upgrade software or system.

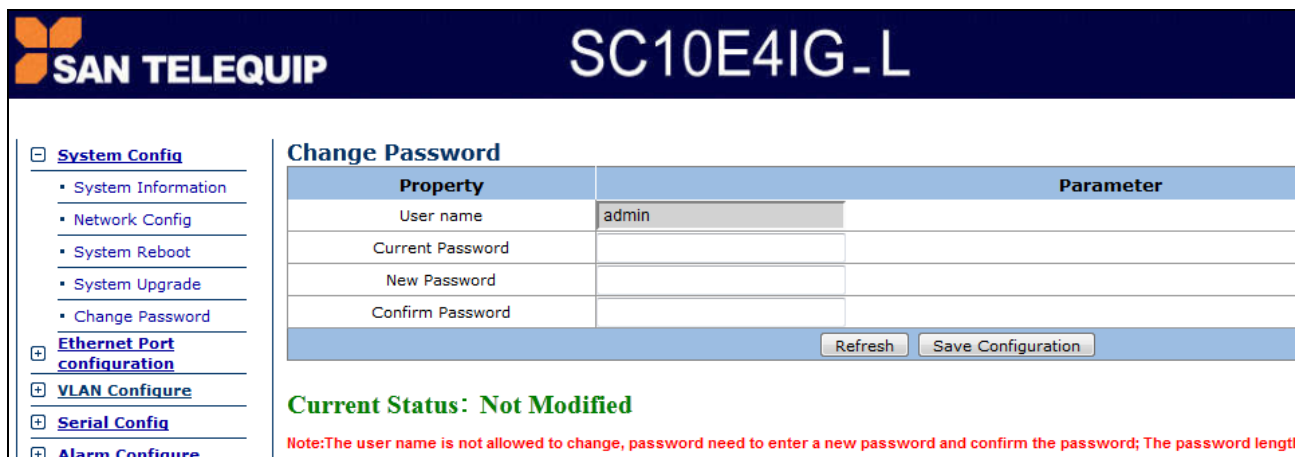
Upgrade Tips:

Step 1 : Upload the upgrade file

Step 2 : Choose upgrade software or configuration file to upgrade.

## Change Password

This page can change the Password.



**SAN TELEQUIP** SC10E4IG\_L

- System Config
  - System Information
  - Network Config
  - System Reboot
  - System Upgrade
  - Change Password**
- Ethernet Port configuration
- VLAN Configure
- Serial Config
- Alarm Configure

**Change Password**

Property	Parameter
User name	admin
Current Password	
New Password	
Confirm Password	

Refresh Save Configuration

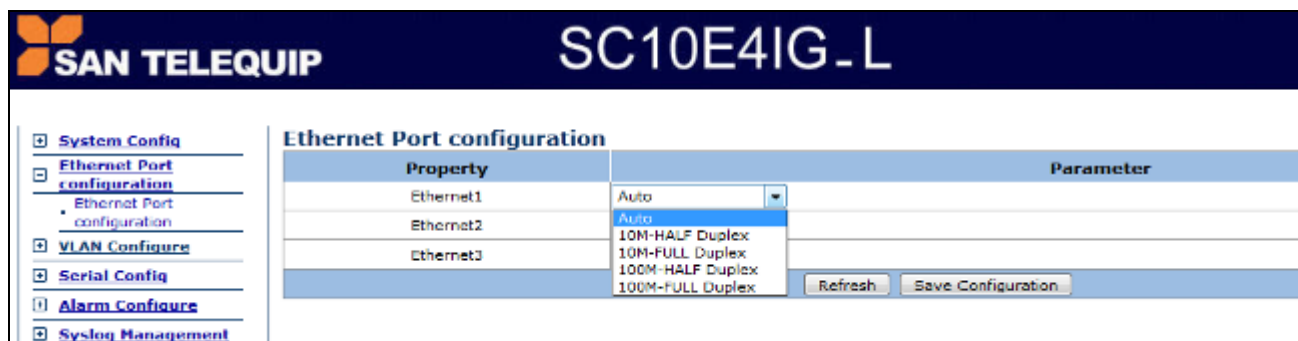
**Current Status: Not Modified**

Note: The user name is not allowed to change, password need to enter a new password and confirm the password; The password length

Note: The password length should not be less than 5 digits

## Ethernet Port Configuration

This page is to set the Ethernet Port to 10M-HALF Duplex, 10M-FULL Duplex, 100M-HALF Duplex, 100M-FULL Duplex or Auto Mode.



**SC10E4IG-L**

**Ethernet Port configuration**

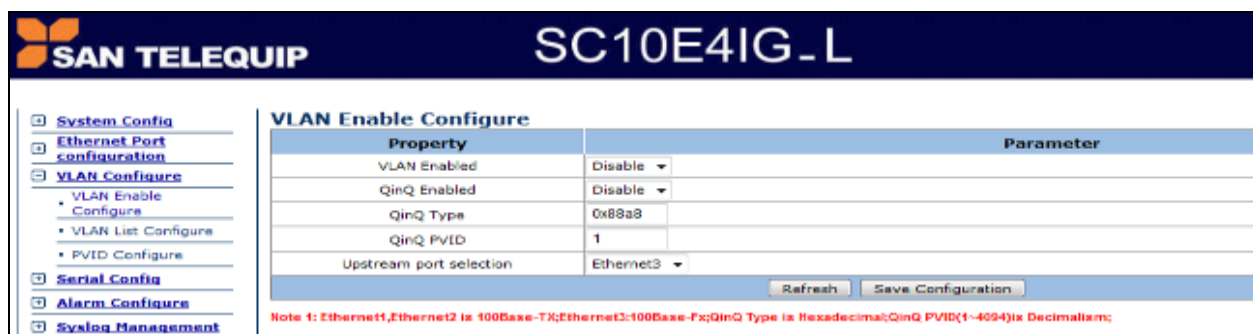
Property	Parameter
Ethernet1	Auto
Ethernet2	Auto
Ethernet3	10M-HALF Duplex 10M-FULL Duplex 100M-HALF Duplex 100M-FULL Duplex

Buttons: Refresh, Save Configuration

## VLAN Config

### VLAN Enable Configure

This page is to set VLAN Enable, QinQ Enable, QinQ Type, QinQ PVID and Upstream port selection.



**SC10E4IG-L**

**VLAN Enable Configure**

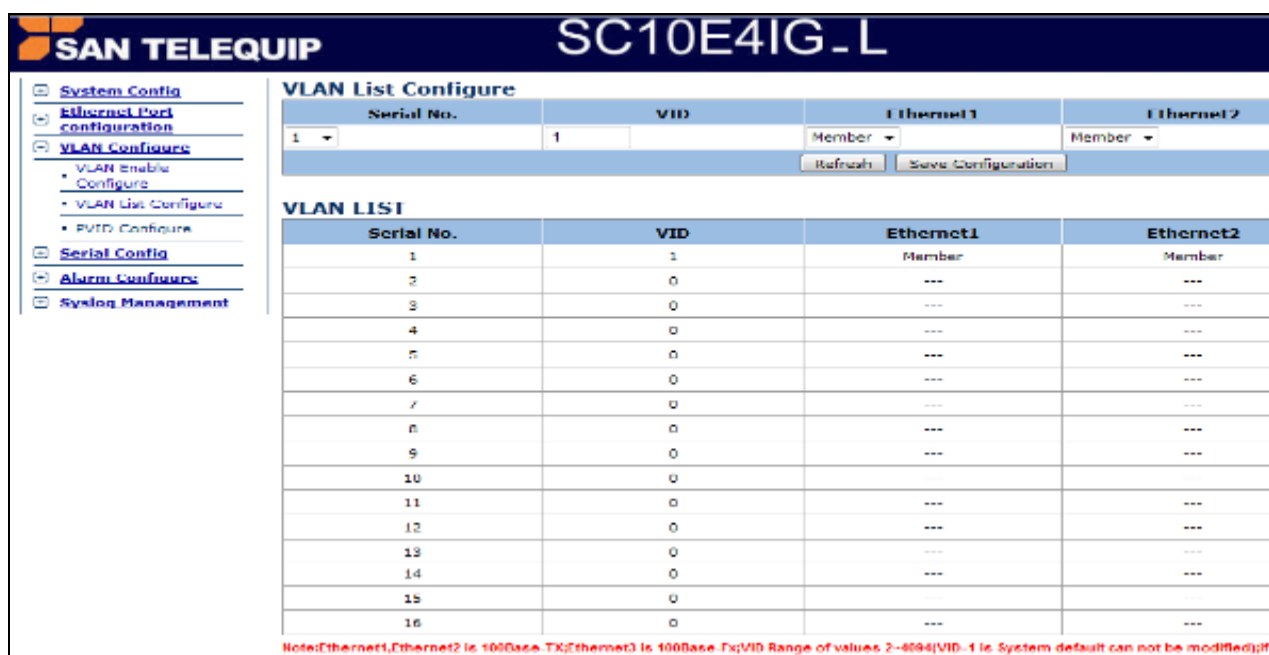
Property	Parameter
VLAN Enabled	Disable
QinQ Enabled	Disable
QinQ Type	0x88a8
QinQ PVID	1
Upstream port selection	Ethernet3

Buttons: Refresh, Save Configuration

Note 1: Ethernet1,Ethernet2 is 100Base-TX;Ethernet3:100Base-Fx;QinQ Type is Hexadecimal;QinQ PVID(1-4094)is Decimalism;

### VLAN List Configure

This page is to set the VLAN List table.



**SC10E4IG-L**

**VLAN List Configure**

Serial No.	VID	Ethernet1	Ethernet2
1	1	Member	Member

Buttons: Refresh, Save Configuration

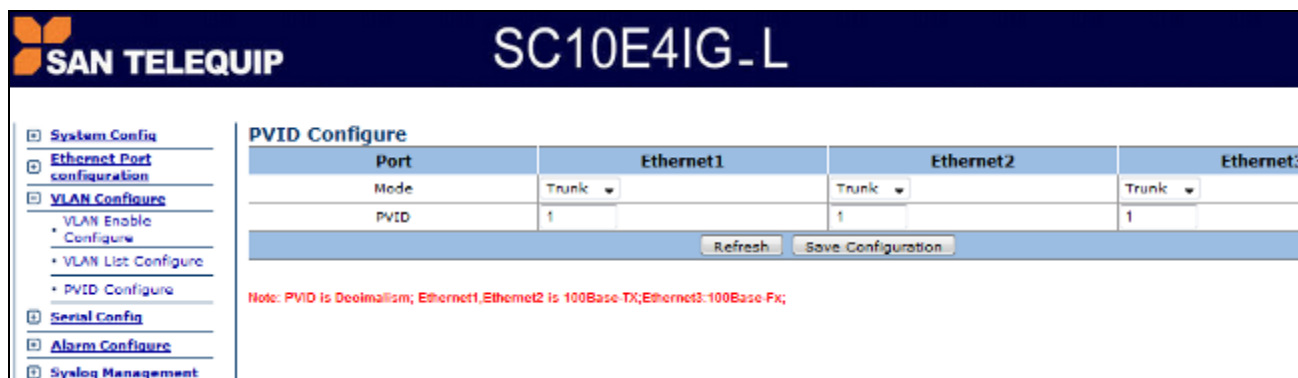
**VLAN LIST**

Serial No.	VID	Ethernet1	Ethernet2
1	1	Member	Member
2	0	---	---
3	0	---	---
4	0	---	---
5	0	---	---
6	0	---	---
7	0	---	---
8	0	---	---
9	0	---	---
10	0	---	---
11	0	---	---
12	0	---	---
13	0	---	---
14	0	---	---
15	0	---	---
16	0	---	---

Note:Ethernet1,Ethernet2 is 100Base-TX;Ethernet3 is 100Base-Fx;VID Range of values 2--4094(VID-1 is System default can not be modified);if

## PVID Configure

This page is to set the Ethernet Port PVID Configure.

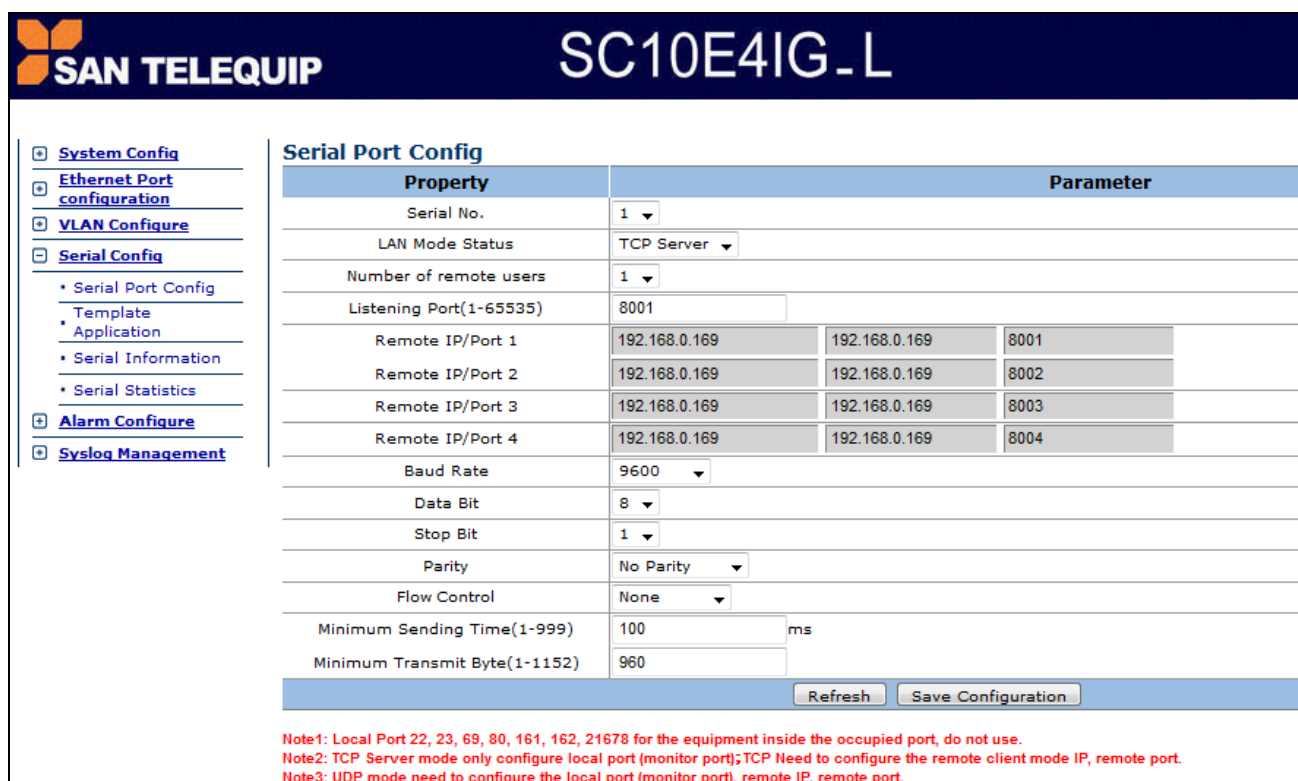


The screenshot shows the 'PVID Configure' page for device SC10E4IG-L. On the left is a navigation menu with options like System Config, Ethernet Port configuration, VLAN Configure, Serial Config, Alarm Configure, and Syslog Management. The main area contains a table for configuring PVID for Ethernet1, Ethernet2, and Ethernet3. Each port has a 'Mode' dropdown set to 'Trunk' and a 'PVID' input field set to '1'. Below the table are 'Refresh' and 'Save Configuration' buttons. A red note at the bottom states: 'Note: PVID is Decimallism; Ethernet1,Ethernet2 is 100Base-TX;Ethernet3:100Base-Fx;'.

## Serial Config

### Serial port Config

This page is to set single Serial port parameters, select the Serial No and then enter the details.



The screenshot shows the 'Serial Port Config' page for device SC10E4IG-L. The left navigation menu includes System Config, Ethernet Port configuration, VLAN Configure, Serial Config, Alarm Configure, and Syslog Management. The main area features a table with 'Property' and 'Parameter' columns. Parameters include Serial No. (1), LAN Mode Status (TCP Server), Number of remote users (1), Listening Port (8001), and four Remote IP/Port entries (all 192.168.0.169 with ports 8001-8004). Other settings include Baud Rate (9600), Data Bit (8), Stop Bit (1), Parity (No Parity), Flow Control (None), Minimum Sending Time (100 ms), and Minimum Transmit Byte (960). 'Refresh' and 'Save Configuration' buttons are at the bottom. Three red notes provide additional instructions: Note1 (avoid local ports 22, 23, 69, 80, 161, 162, 21678), Note2 (TCP Server mode requires local and remote IP/port), and Note3 (UDP mode requires local and remote IP/port).

## Template Application

This page is to set a batch of Serial port parameters.

**SAN TELEQUIP**
SC10E4IG-L

- System Config
- Ethernet Port configuration
- VLAN Configure
- Serial Config
  - Serial Port Config
  - **Template Application**
  - Serial Information
  - Serial Statistics
- Alarm Configure
- Syslog Management

### Template Application

Property	Parameter
Serial No.	<input type="checkbox"/> 01 <input type="checkbox"/> 02 <input type="checkbox"/> 03 <input type="checkbox"/> 04 <input type="checkbox"/> Select All
LAN Mode Status	TCP Server
Number of remote users	1
Listening Port(1-65535)	8001
Remote IP/Port 1	192.168.0.169 8001
Remote IP/Port 2	192.168.0.169 8002
Remote IP/Port 3	192.168.0.169 8003
Remote IP/Port 4	192.168.0.169 8004
Baud Rate	9600
Data Bit	8
Stop Bit	1
Parity	No Parity
Flow Control	None
Minimum Sending Time(1-999)	100 ms
Minimum Transmit Byte(1-1152)	960

TCP Server, UDP Mode:  
 Practical application to the serial port on the server "listening port" is the template "listening starting port+Serial No.-1".  
 Practical application to the serial port on the server "Remote Port" is the template "Remote start port+(Serial No.-1)\*4".  
 For example, the starting listening port is 1001, if the application 10,11, then they correspond to ports 1010 and 1011, respectively.

## Serial Information

Display the current status information of all the Serial ports.

**SAN TELEQUIP**
SC10E4IG-L

- System Config
- Ethernet Port configuration
- VLAN Configure
- Serial Config
  - Serial Port Config
  - Template Application
  - **Serial Information**
  - Serial Statistics
- Alarm Configure
- Syslog Management

### Serial Information

Serial No.	LAN Mode Status	Listening Port	Remote IP/Port 1	Remote IP/Port 2	Remote IP/Port 3	Remote IP/Port 4	Baud Rate	Data Bit	Stop Bit	Parity	Flow Control	Minimum Sending Time
1	TCP Server	8001	---	---	---	---	9600	8	1	No Parity	None	100
2	TCP Server	8002	---	---	---	---	9600	8	1	No Parity	None	100
3	TCP Server	8003	---	---	---	---	9600	8	1	No Parity	None	100
4	TCP Server	8004	---	---	---	---	9600	8	1	No Parity	None	100

## Serial Statistics

Check the detailed communication performance of each Serial port.

**SAN TELEQUIP**
SC10E4IG-L

- System Config
- Ethernet Port configuration
- VLAN Configure
- Serial Config
  - Serial Port Config
  - Template Application
  - Serial Information
  - **Serial Statistics**
- Alarm Configure
- Syslog Management

### Serial Statistics

Serial No.	Received from the Ethernet	Sent to the Serial Port	Received from the Serial Port	Sent to the Ethernet
1	40	40	508	508
2	0	0	0	0
3	0	0	0	0
4	0	0	0	0

Note: Auto refresh per 5 seconds.

Note: The statistics data refreshes every 5 seconds.

## **Alarm Configure**

We can configure various Alarms in the system as SNMP Traps or get Alarm Alerts on Emails.

## **SNMP Configure**

This page is to set SNMP function



Property	Parameter
SNMP	<input type="checkbox"/> Enable SNMP
Read Community	public
Write Community	private

## **E-mail Config**

This page is to set Sender's E-mail Address, Receiver's E-mail Address and Mail Server details. Please check the following:

1. Your email server should be valid. Check with your System Admin
2. Your System is Internet enabled else you will not receive emails
3. Your email id is working properly and can receive & transmit emails Confirm that your system admin has not blocked this domain
4. Check the User Name & Password of the email independently
5. The User name & password to be filled in the below screen should be that of the Sender email id holder
6. Use Test function to confirm your data fed in this screen shot is correct. Correct the data & recheck the Test function
7. Check the authenticity of the DNS Server which you have entered during the Configuration of this device. See page 19
8. Avoid using commercial email servers like Hotmail, Gmail etc



Property	Parameter
Sender's E-mail Address	response@santelequip.com
Receiver's E-mail Address 1	sandip@santelequip.com
Receiver's E-mail Address 2	service@santelequip.com
Receiver's E-mail Address 3	purchase@santelequip.com

**Mail Server**

Mail Server: mail.santelequip.com

Mail server authentication required.

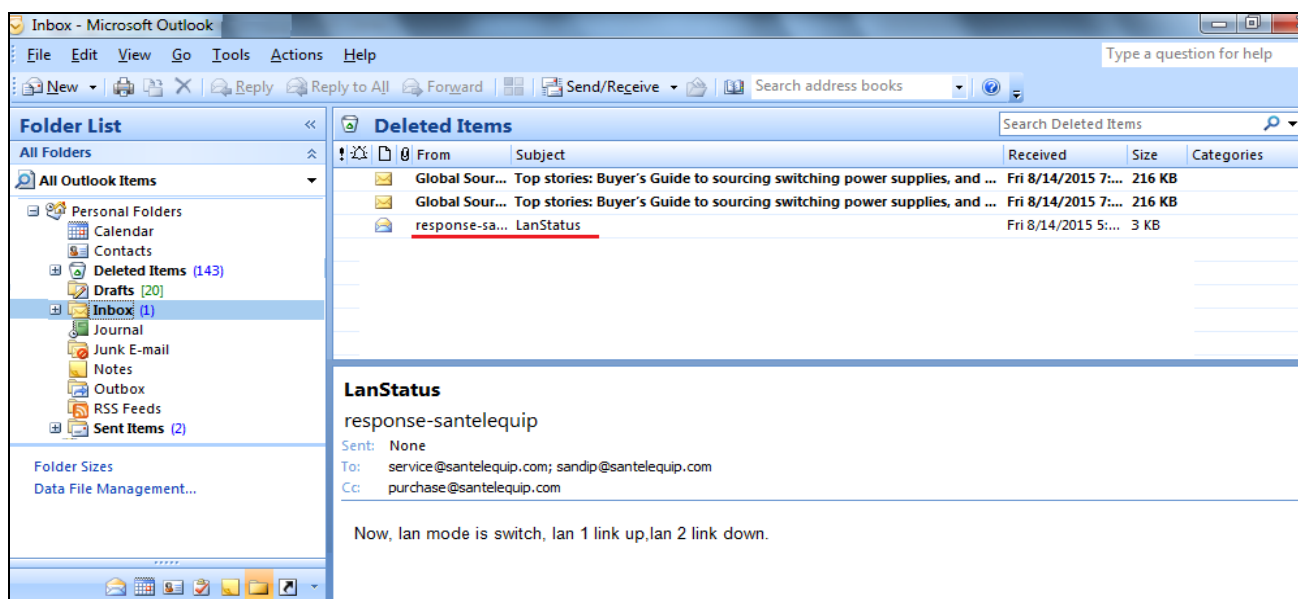
User name: response-santelequip

Password: .....

Buttons: Refresh, Save Configuration, test

Note: Before configure the E-mail warning function, you must set a Mail Server.

### LAN Status Event Mail Received



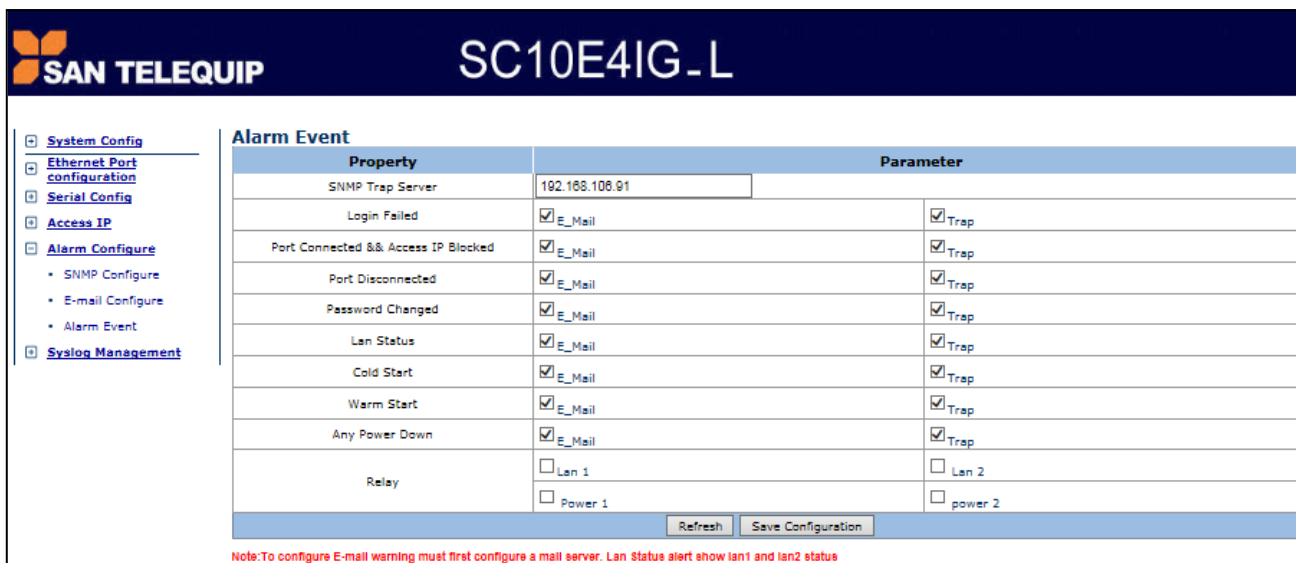
### Alarm Event

Set the Alarms for Login Failed, Port Connected, Port Disconnected, Password Changed, Lan Status and the SNMP Trap Server IP. You can choose out of the 8 Alerts available in our device. You can also choose the Alarm type as Traps or Emails or Both.

Relay warning output: One channel 1A, 24V DC. for Eth1 and Eth2 Link Down, Power 1 and Power 2 down .

You will have to load a MIB Browser on a PC to see the Traps generated The IP address of this PC should be entered as SNMP Trap Server in the below screen.

Select Receive Traps in the MIB



**System Config**

- Ethernet Port configuration
- Serial Config
- Access IP
- Alarm Configure**
  - SNMP Configure
  - E-mail Configure
  - Alarm Event
- Syslog Management

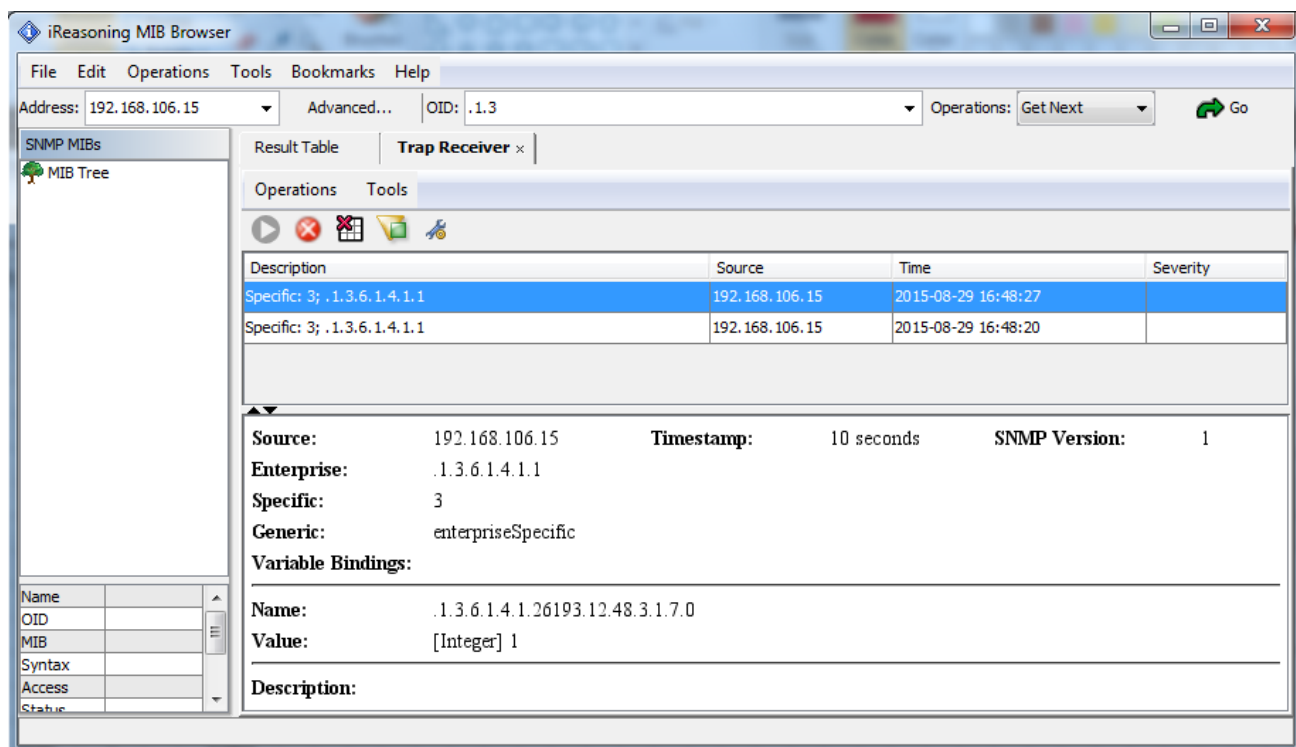
### Alarm Event

Property	Parameter	
SNMP Trap Server	192.168.106.91	
Login Failed	<input checked="" type="checkbox"/> E-Mail	<input checked="" type="checkbox"/> Trap
Port Connected && Access IP Blocked	<input checked="" type="checkbox"/> E-Mail	<input checked="" type="checkbox"/> Trap
Port Disconnected	<input checked="" type="checkbox"/> E-Mail	<input checked="" type="checkbox"/> Trap
Password Changed	<input checked="" type="checkbox"/> E-Mail	<input checked="" type="checkbox"/> Trap
Lan Status	<input checked="" type="checkbox"/> E-Mail	<input checked="" type="checkbox"/> Trap
Cold Start	<input checked="" type="checkbox"/> E-Mail	<input checked="" type="checkbox"/> Trap
Warm Start	<input checked="" type="checkbox"/> E-Mail	<input checked="" type="checkbox"/> Trap
Any Power Down	<input checked="" type="checkbox"/> E-Mail	<input checked="" type="checkbox"/> Trap
Relay	<input type="checkbox"/> Lan 1	<input type="checkbox"/> Lan 2
	<input type="checkbox"/> Power 1	<input type="checkbox"/> power 2

Refresh Save Configuration

Note: To configure E-mail warning must first configure a mail server. Lan Status alert show lan1 and lan2 status

Trap received in MIB Browser



iReasoning MIB Browser

Address: 192.168.106.15    Advanced...    OID: .1.3    Operations: Get Next    Go

SNMP MIBs

- MIB Tree

Result Table    Trap Receiver x

Operations    Tools

Description	Source	Time	Severity
Specific: 3; .1.3.6.1.4.1.1	192.168.106.15	2015-08-29 16:48:27	
Specific: 3; .1.3.6.1.4.1.1	192.168.106.15	2015-08-29 16:48:20	

Source: 192.168.106.15    Timestamp: 10 seconds    SNMP Version: 1

Enterprise: .1.3.6.1.4.1.1

Specific: 3

Generic: enterpriseSpecific

Variable Bindings:

Name: .1.3.6.1.4.1.26193.12.48.3.1.7.0

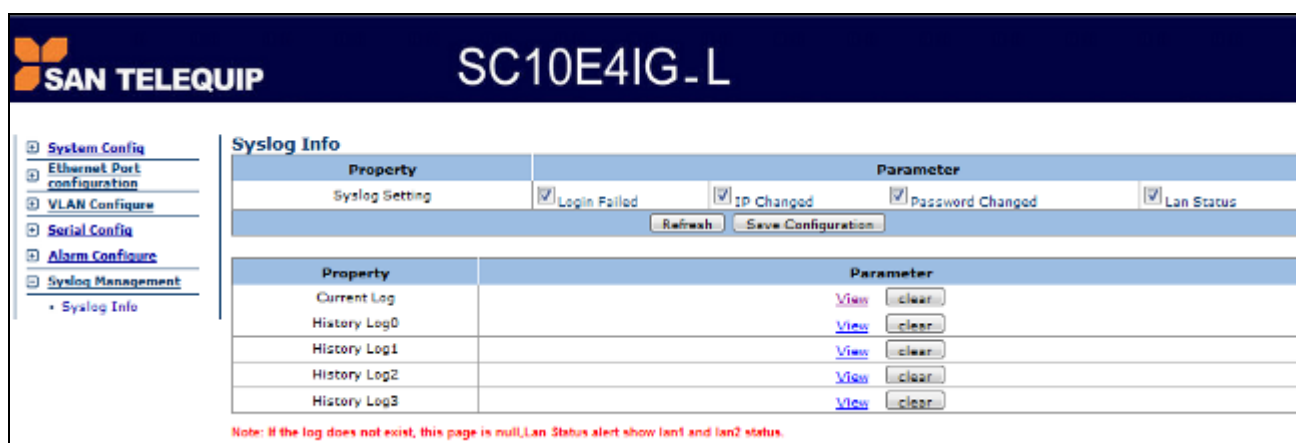
Value: [Integer] 1

Description:

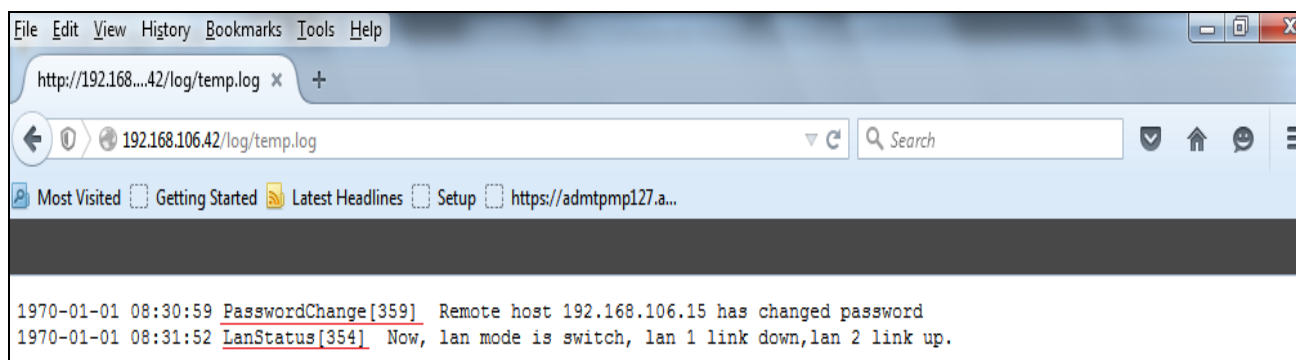
## Syslog Management

### Syslog Info

All the Alarms & System performance details are logged in SYSLOG too. You can choose to Set the Syslog to give you information on Login Failed, IP Changed, Password Changed and Lan Status. You can view the Syslog history and also clear it on this window.



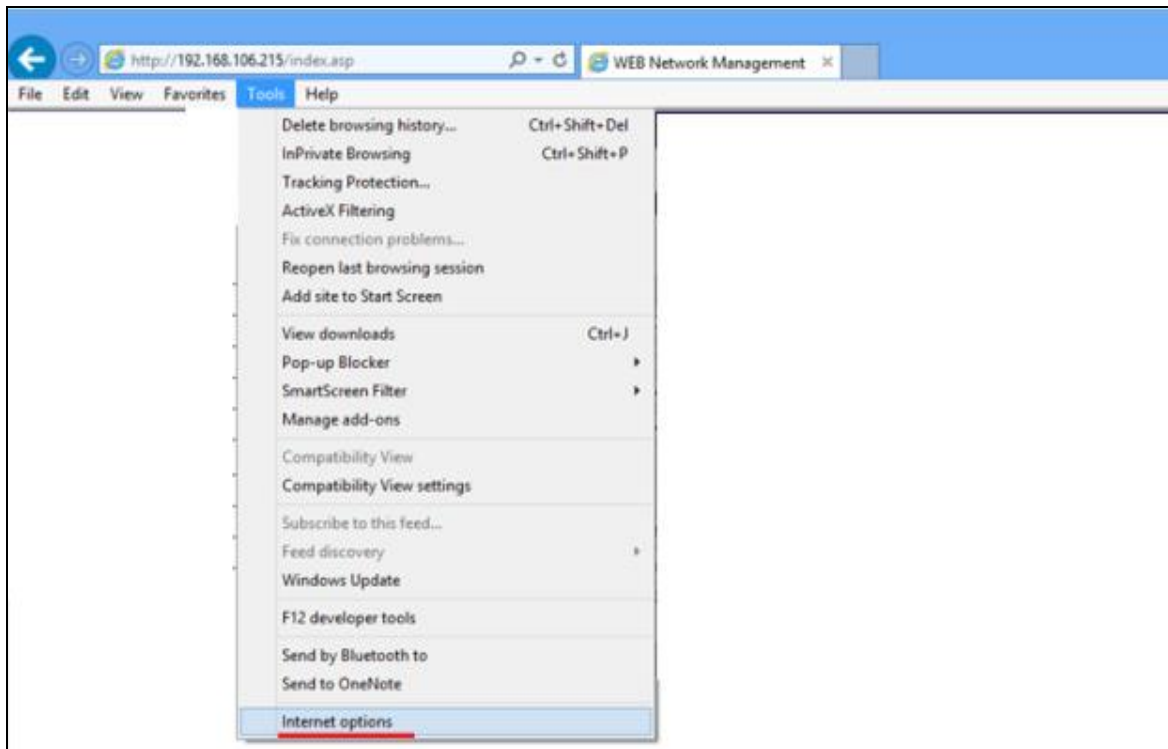
### Password change & LAN Status log received in Syslog.



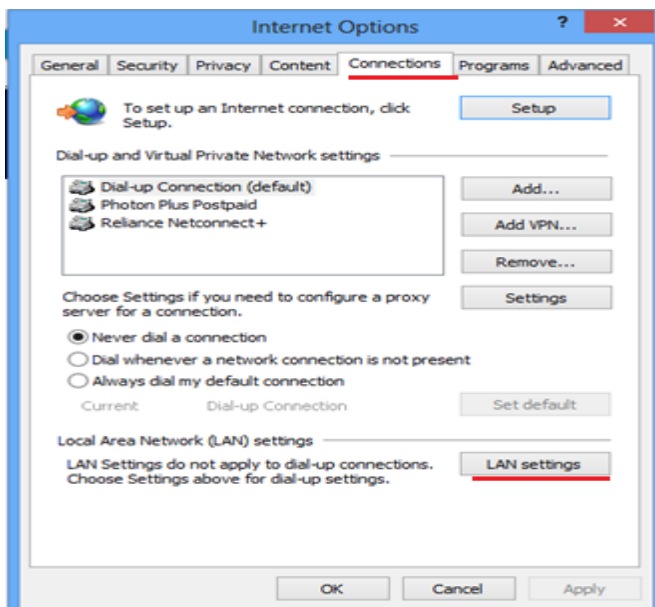
### WEB configuration page does not open in normal condition but when Connect to internet then WEB page is getting open.

If Internet Explorer "Proxy Server "option is selected, the IP address should be used of the SC10E4IG\_L then it works.

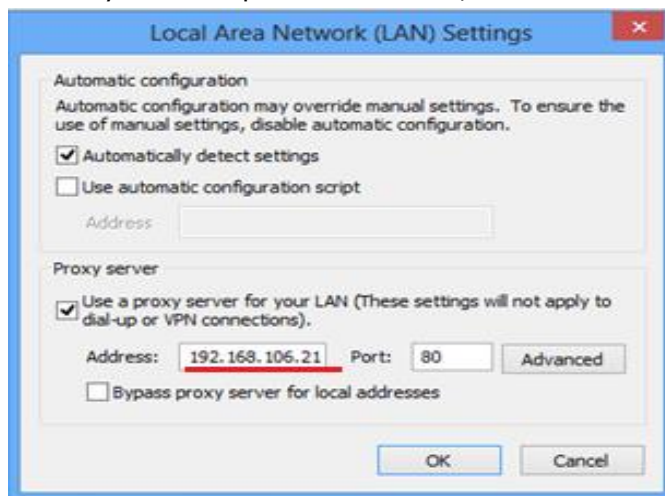
1. In Internet Explorer browser selects Tools / Internet options



2. Select Connections/ LAN settings



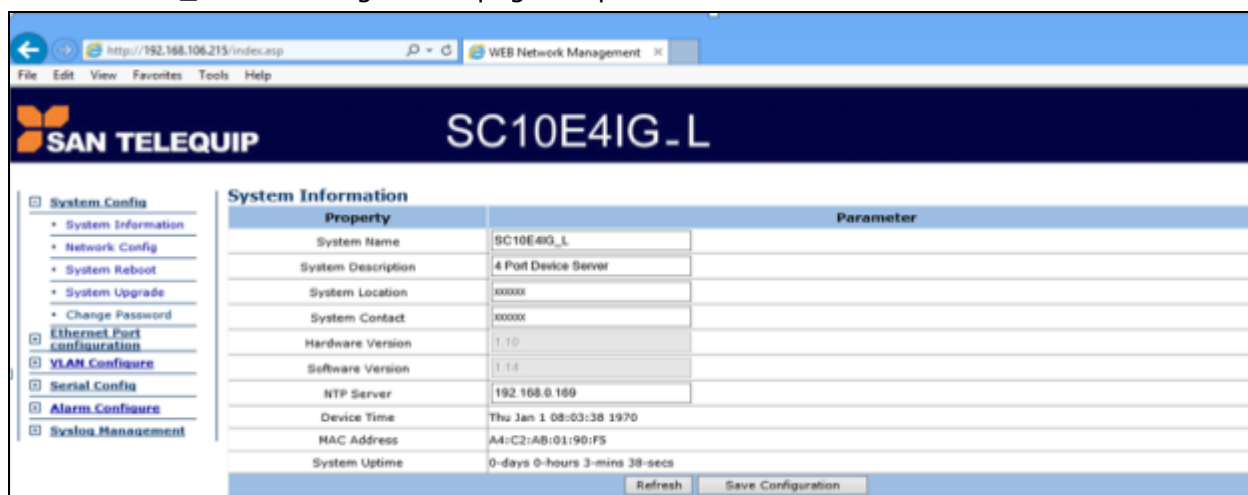
3. Proxy Server option is selected, IP address use of the "SC10E4IG"



4. Enter SC10E4IG\_L IP address in Internet Explorer browser then enter User name and password are both "admin"



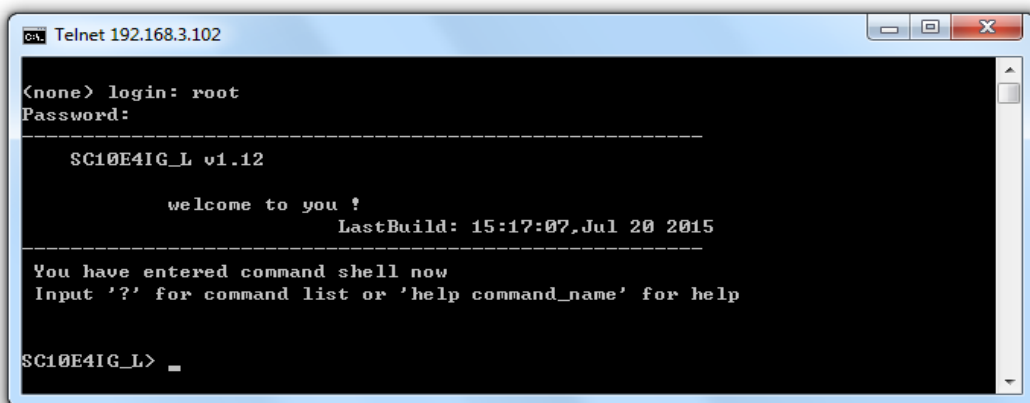
5. SC10E4IG\_L WEB configuration page is open



### 3.5 Telnet and Console Configuration Command

#### 1 User name and Password:

The default user and password are both "root".



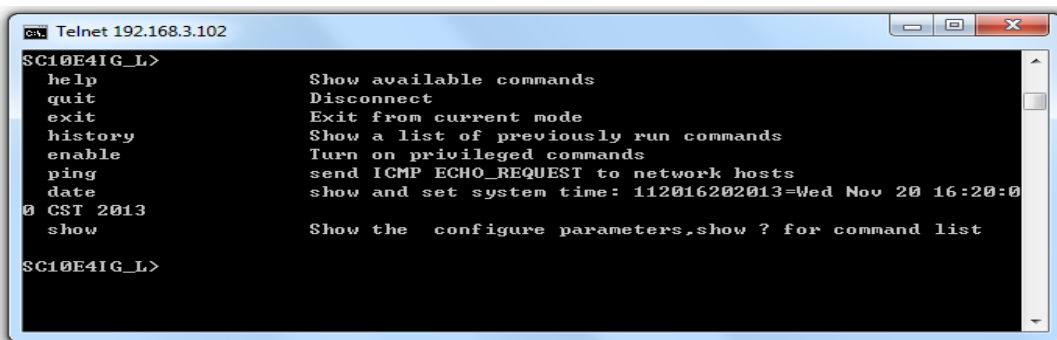
```
ca: Telnet 192.168.3.102
<none> login: root
Password:
-----
SC10E4IG_L v1.12

      welcome to you ?
                LastBuild: 15:17:07,Jul 20 2015
-----

You have entered command shell now
Input '?' for command list or 'help command_name' for help

SC10E4IG_L> _
```

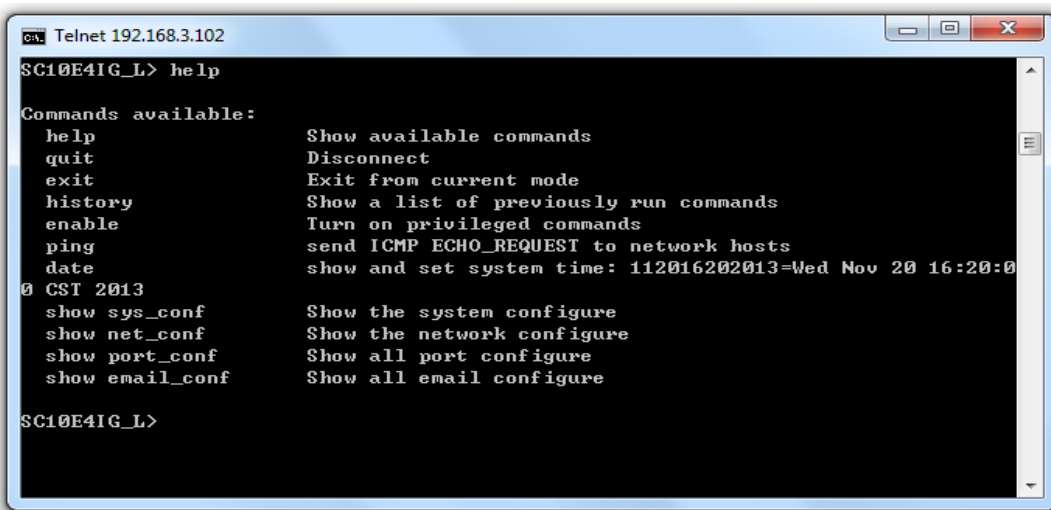
1.1 Enter '?' the screen displays as follows:



```
ca: Telnet 192.168.3.102
SC10E4IG_L>
help          Show available commands
quit         Disconnect
exit         Exit from current mode
history      Show a list of previously run commands
enable       Turn on privileged commands
ping         send ICMP ECHO_REQUEST to network hosts
date        show and set system time: 112016202013=Wed Nov 20 16:20:0
0 CST 2013
show        Show the configure parameters, show ? for command list

SC10E4IG_L>
```

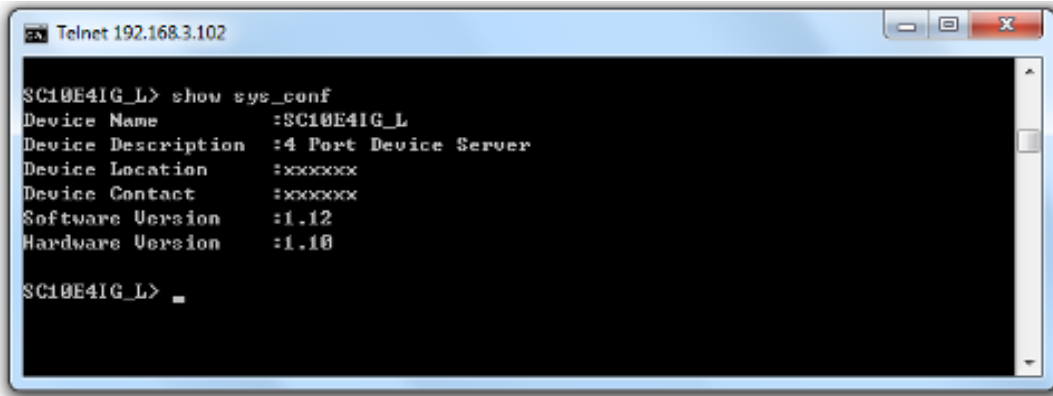
1.2 Enter "help", displays as follows:



```
ca: Telnet 192.168.3.102
SC10E4IG_L> help
Commands available:
help          Show available commands
quit         Disconnect
exit         Exit from current mode
history      Show a list of previously run commands
enable       Turn on privileged commands
ping         send ICMP ECHO_REQUEST to network hosts
date        show and set system time: 112016202013=Wed Nov 20 16:20:0
0 CST 2013
show sys_conf Show the system configure
show net_conf Show the network configure
show port_conf Show all port configure
show email_conf Show all email configure

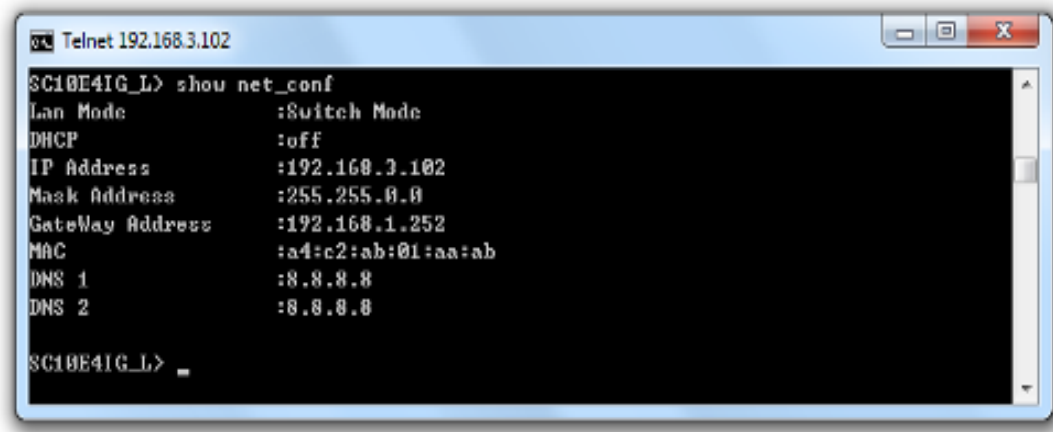
SC10E4IG_L>
```

1.3 Enter "show sys\_conf" to show the system configure.



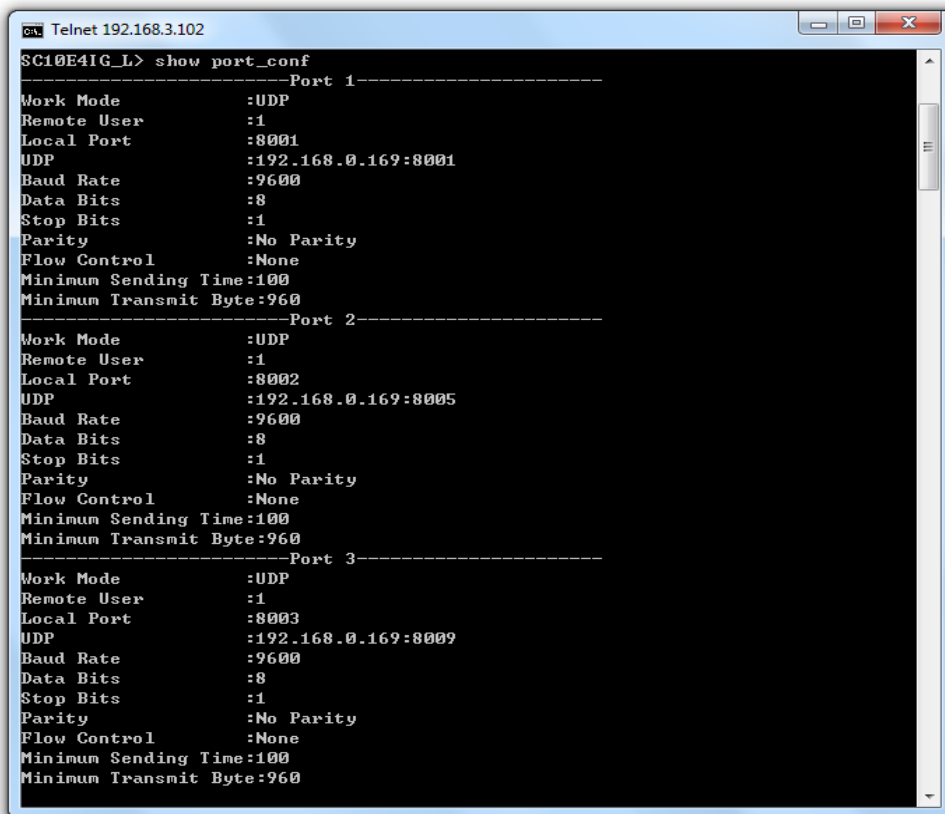
```
Telnet 192.168.3.102
SC10E41G_L> show sys_conf
Device Name      :SC10E41G_L
Device Description :4 Port Device Server
Device Location   :xxxxxxx
Device Contact    :xxxxxxx
Software Version  :1.12
Hardware Version  :1.10
SC10E41G_L> _
```

1.4 Enter “show net\_conf” to show the network configure.



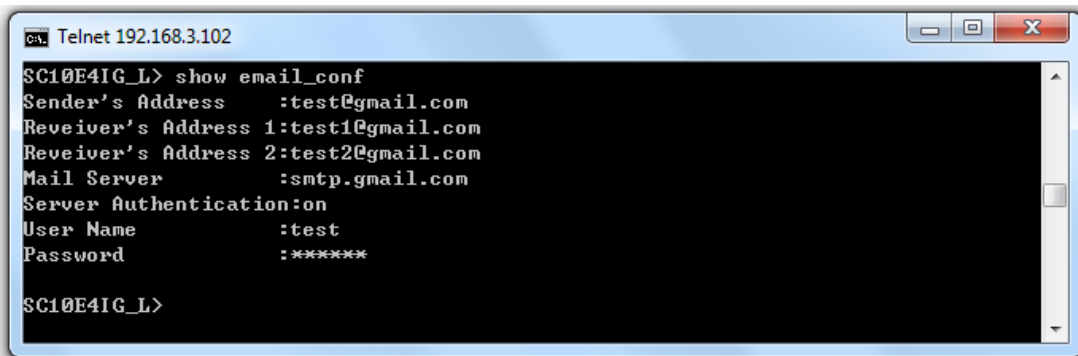
```
Telnet 192.168.3.102
SC10E41G_L> show net_conf
Lan Mode         :Switch Mode
DHCP              :off
IP Address       :192.168.3.102
Mask Address     :255.255.0.0
GateWay Address  :192.168.1.252
MAC              :a4:c2:ab:01:aa:ab
DNS 1            :8.8.8.8
DNS 2            :8.8.8.8
SC10E41G_L> _
```

1.5 Enter “show port\_conf” to show all port configure.



```
Telnet 192.168.3.102
SC10E4IG_L> show port_conf
-----Port 1-----
Work Mode      :UDP
Remote User    :1
Local Port     :8001
UDP            :192.168.0.169:8001
Baud Rate      :9600
Data Bits      :8
Stop Bits      :1
Parity         :No Parity
Flow Control   :None
Minimum Sending Time:100
Minimum Transmit Byte:960
-----Port 2-----
Work Mode      :UDP
Remote User    :1
Local Port     :8002
UDP            :192.168.0.169:8005
Baud Rate      :9600
Data Bits      :8
Stop Bits      :1
Parity         :No Parity
Flow Control   :None
Minimum Sending Time:100
Minimum Transmit Byte:960
-----Port 3-----
Work Mode      :UDP
Remote User    :1
Local Port     :8003
UDP            :192.168.0.169:8009
Baud Rate      :9600
Data Bits      :8
Stop Bits      :1
Parity         :No Parity
Flow Control   :None
Minimum Sending Time:100
Minimum Transmit Byte:960
```

1.6 Enter “show email\_conf” to show all email configure.

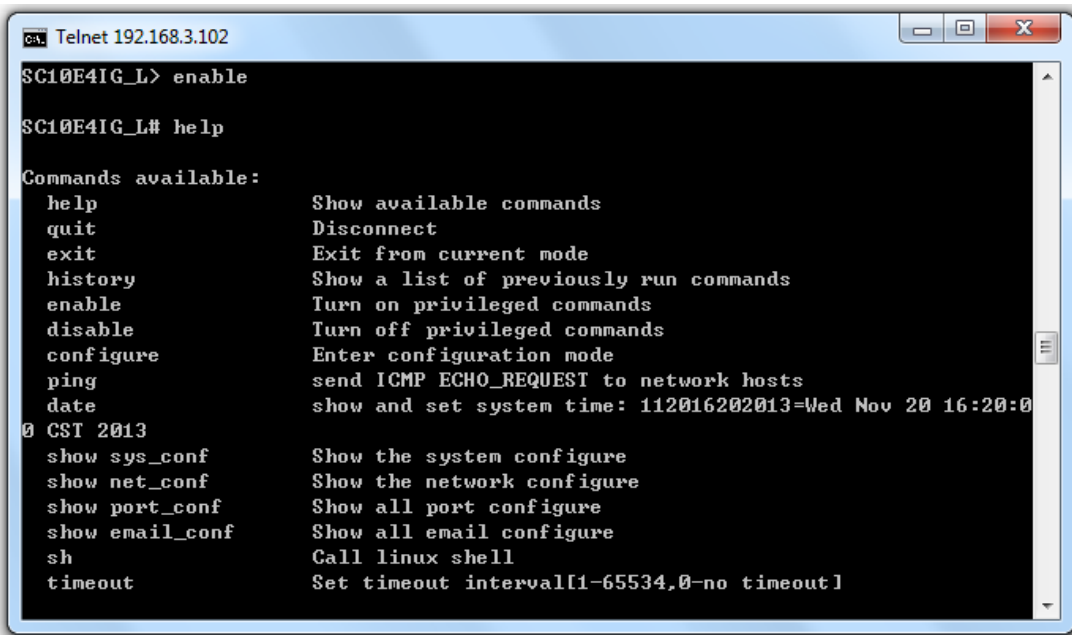


```
Telnet 192.168.3.102
SC10E4IG_L> show email_conf
Sender's Address      :test@gmail.com
Reveiver's Address 1:test1@gmail.com
Reveiver's Address 2:test2@gmail.com
Mail Server           :smtp.gmail.com
Server Authentication:on
User Name             :test
Password              :*****

SC10E4IG_L>
```

2 Enter the privileged commands: enable.

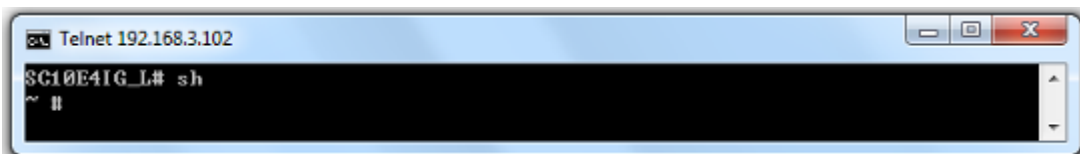
2.1 Input “help” or “?”



```
ca: Telnet 192.168.3.102
SC10E4IG_L> enable
SC10E4IG_L# help
Commands available:
  help           Show available commands
  quit           Disconnect
  exit           Exit from current mode
  history        Show a list of previously run commands
  enable         Turn on privileged commands
  disable        Turn off privileged commands
  configure      Enter configuration mode
  ping           send ICMP ECHO_REQUEST to network hosts
  date           show and set system time: 112016202013=Wed Nov 20 16:20:0
0 CST 2013
  show sys_conf  Show the system configure
  show net_conf  Show the network configure
  show port_conf Show all port configure
  show email_conf Show all email configure
  sh             Call linux shell
  timeout        Set timeout interval[1-65534,0=no timeout]
```

### 2.2 Enter “sh”---Call linux shell

Enter the Linux interface, like the previous version of the console, this is for our internal support.

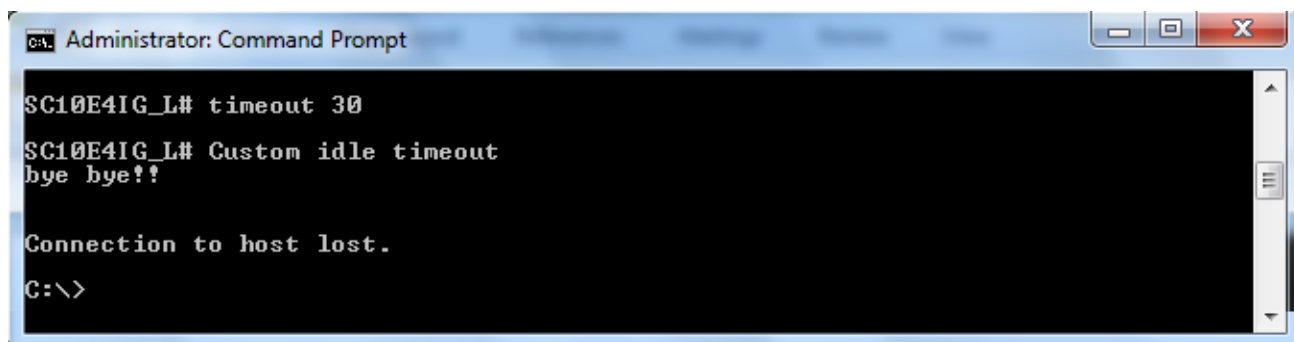


```
ca: Telnet 192.168.3.102
SC10E4IG_L# sh
~ #
```

### 2.3 timeout-----Set timeout interval

For example:

Input “timeout 30” which means that you cannot operate the system until the “30 seconds” expires.

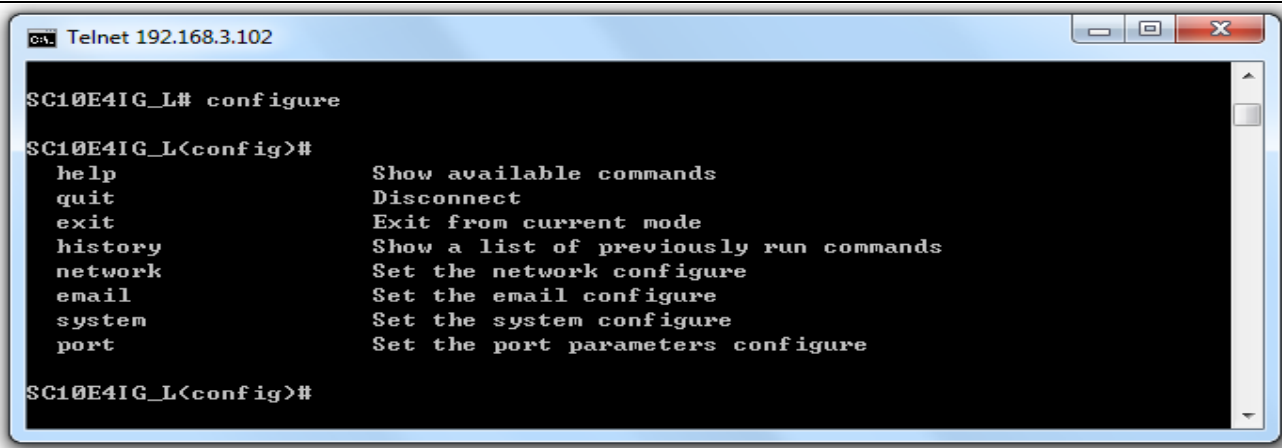


```
ca: Administrator: Command Prompt
SC10E4IG_L# timeout 30
SC10E4IG_L# Custom idle timeout
bye bye!!

Connection to host lost.
C:\>
```

### 3 Configuration Interface (config):

Enter “configure”, then “?” or “help”.



```
CA: Telnet 192.168.3.102

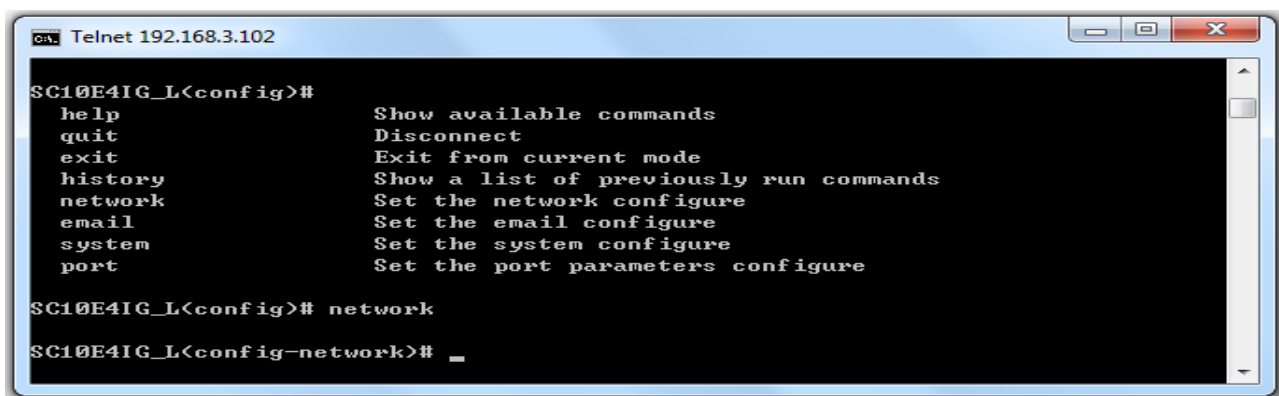
SC10E4IG_L# configure

SC10E4IG_L(config)#
  help          Show available commands
  quit          Disconnect
  exit          Exit from current mode
  history       Show a list of previously run commands
  network       Set the network configure
  email        Set the email configure
  system       Set the system configure
  port         Set the port parameters configure

SC10E4IG_L(config)#
```

### 3.1 Network Information Settings page

Enter "network", then "?" or "help".



```
CA: Telnet 192.168.3.102

SC10E4IG_L(config)#
  help          Show available commands
  quit          Disconnect
  exit          Exit from current mode
  history       Show a list of previously run commands
  network       Set the network configure
  email        Set the email configure
  system       Set the system configure
  port         Set the port parameters configure

SC10E4IG_L(config)# network

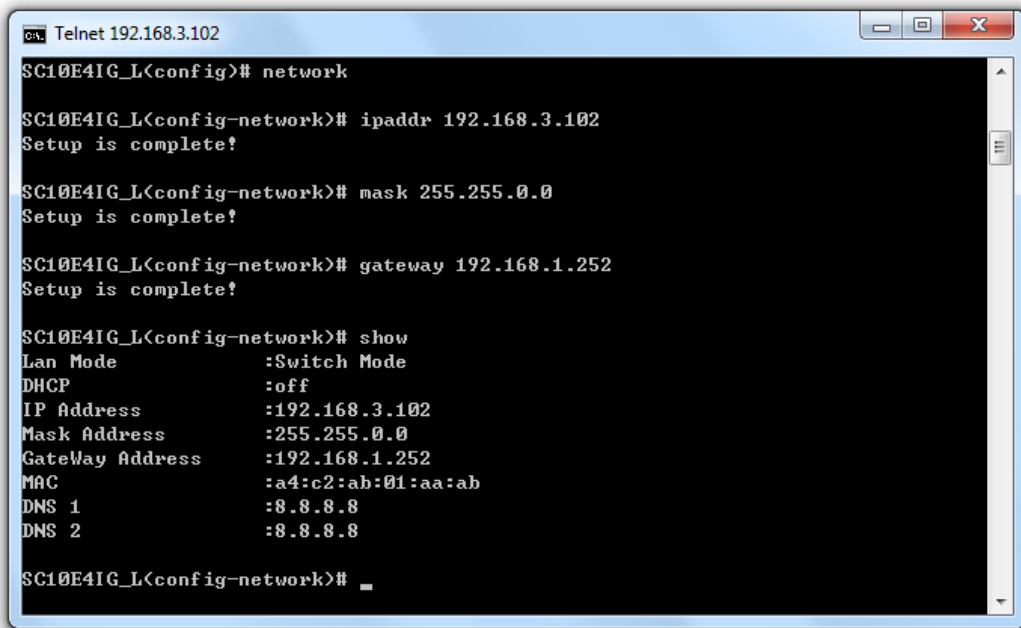
SC10E4IG_L(config-network)#
```

Usage : ipaddr xxx.xxx.xxx.xxx

Usage : mask xxx.xxx.xxx.xxx

Usage : gateway xxx.xxx.xxx.xxx

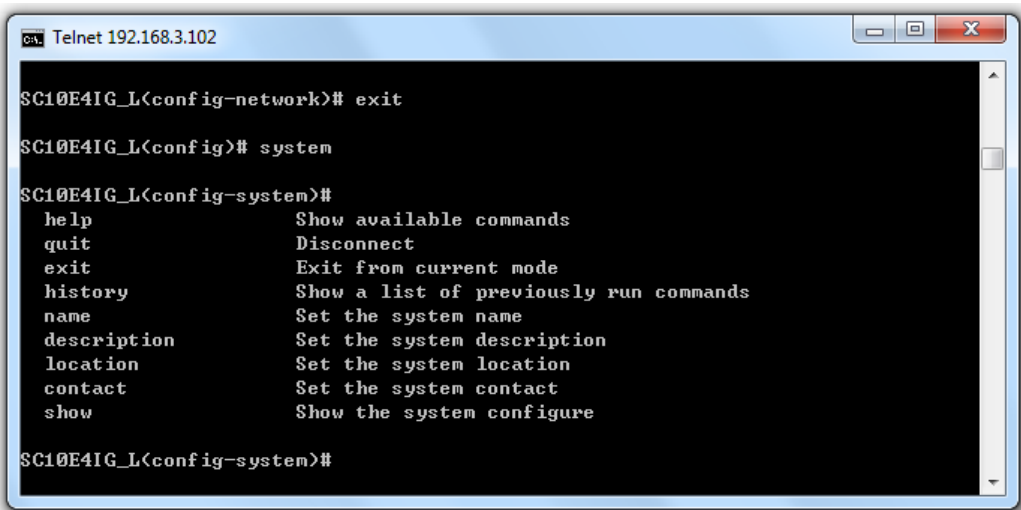
For example:



```
ca Telnet 192.168.3.102
SC10E4IG_L(config)# network
SC10E4IG_L(config-network)# ipaddr 192.168.3.102
Setup is complete!
SC10E4IG_L(config-network)# mask 255.255.0.0
Setup is complete!
SC10E4IG_L(config-network)# gateway 192.168.1.252
Setup is complete!
SC10E4IG_L(config-network)# show
Lan Mode           :Switch Mode
DHCP               :off
IP Address         :192.168.3.102
Mask Address       :255.255.0.0
GateWay Address    :192.168.1.252
MAC               :a4:c2:ab:01:aa:ab
DNS 1              :8.8.8.8
DNS 2              :8.8.8.8
SC10E4IG_L(config-network)#
```

### 3.2 System Information Settings page

Enter "system", then "?" or "help".



```
ca Telnet 192.168.3.102
SC10E4IG_L(config-network)# exit
SC10E4IG_L(config)# system
SC10E4IG_L(config-system)#
 help           Show available commands
 quit          Disconnect
 exit          Exit from current mode
 history       Show a list of previously run commands
 name          Set the system name
 description   Set the system description
 location      Set the system location
 contact       Set the system contact
 show         Show the system configure
SC10E4IG_L(config-system)#
```

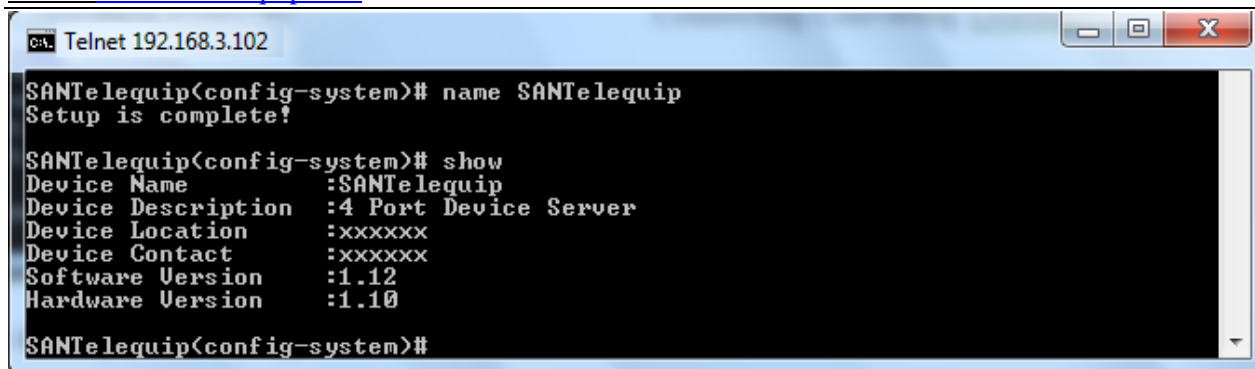
Usage : name [data]

Usage : description [data]

Usage : location [data]

Usage : contact [data]

For example:



```
CA: Telnet 192.168.3.102
SANTelequip(config-system)# name SANTelequip
Setup is complete!

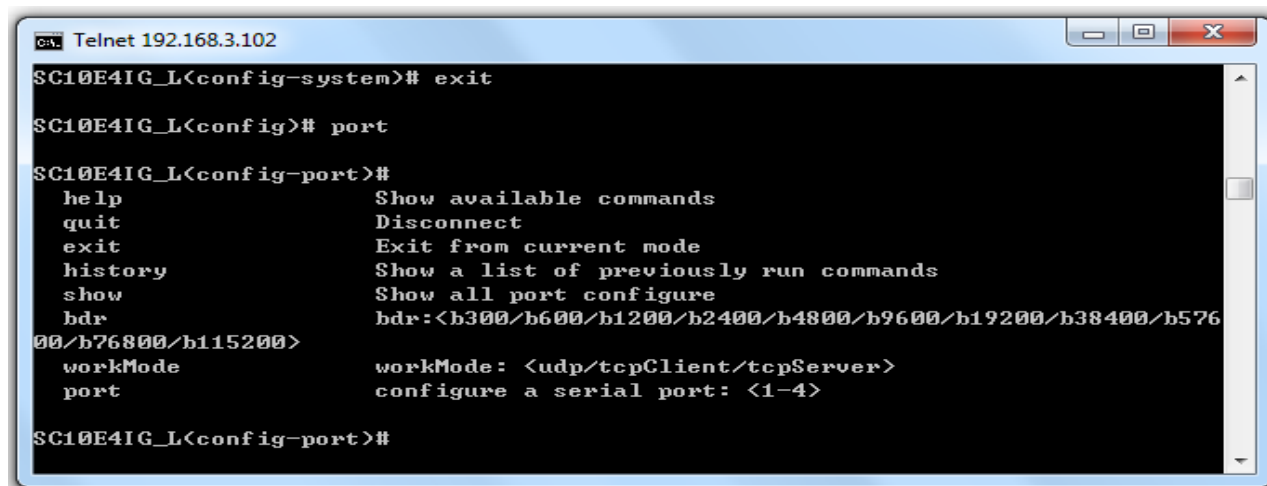
SANTelequip(config-system)# show
Device Name      :SANTelequip
Device Description :4 Port Device Server
Device Location  :xxxxxxx
Device Contact   :xxxxxxx
Software Version  :1.12
Hardware Version  :1.10
SANTelequip(config-system)#
```

The device name is changed to SAN\_TECH.

The default configuration is corresponding to the web page.

### 3.3 Port Information Settings page

Enter "port", then "?" or "help".



```
CA: Telnet 192.168.3.102
SC10E4IG_L(config-system)# exit
SC10E4IG_L(config)# port
SC10E4IG_L(config-port)#
help          Show available commands
quit          Disconnect
exit          Exit from current mode
history       Show a list of previously run commands
show          Show all port configure
bdr           bdr:<b300/b600/b1200/b2400/b4800/b9600/b19200/b38400/b576
00/b76800/b115200>
workMode      workMode: <udp/tcpClient/tcpServer>
port          configure a serial port: <1-4>
SC10E4IG_L(config-port)#
```

All the serial port Baud rate setting.

Usage : bdr b9600



```
CA: Telnet 192.168.3.102
SC10E4IG_L(config-port)# bdr b9600
Setup is complete!
SC10E4IG_L(config-port)#
```

All the serial port work mode setting.

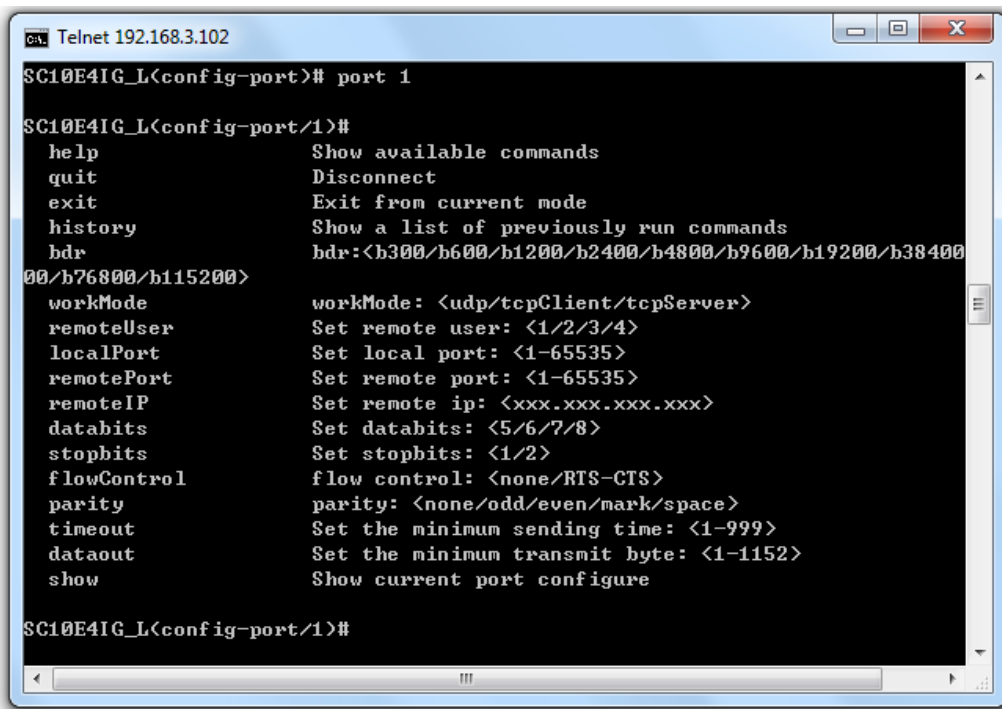


Single serial port setting.

Input :port x

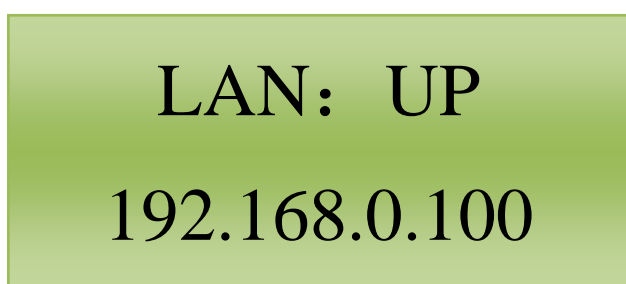
For example:

then "?" or "help".



## Chapter 4 LCD(Optional) Instructions

### 4.1 The Key Function



MENU : return to the previous menu.

SEL : enter the submenu. In the specific parameter setting, it functions as "confirm".

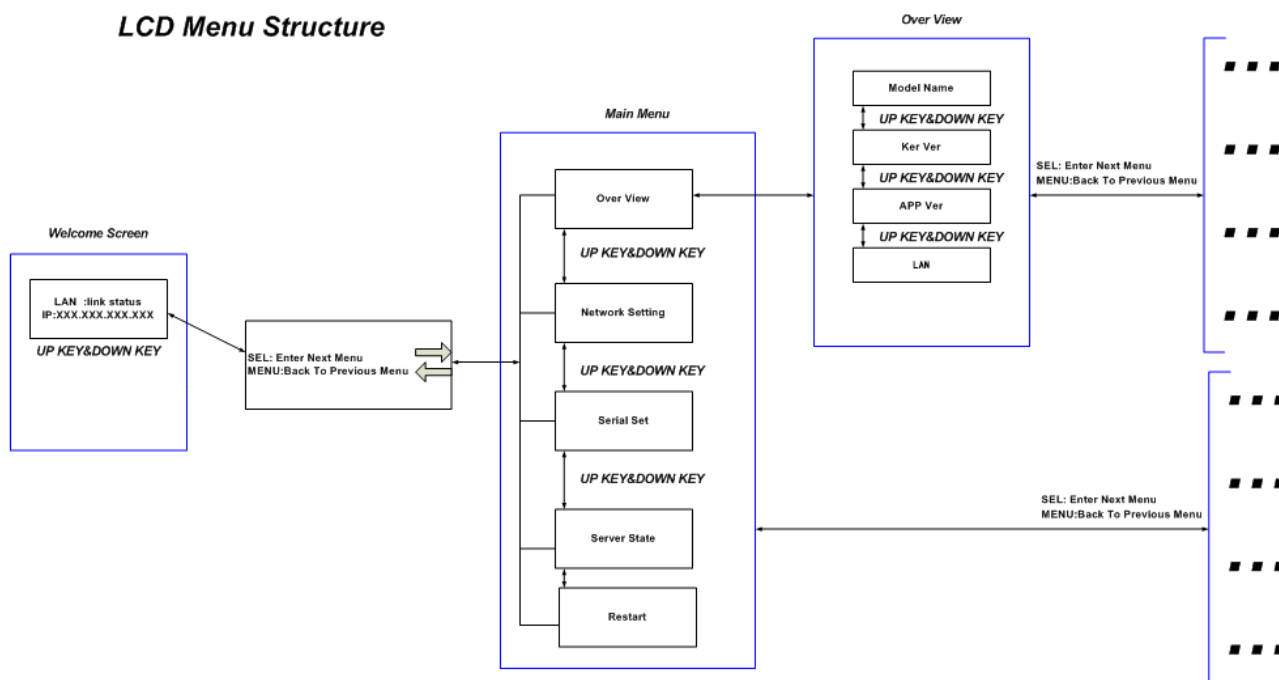
UP & DOWN : used for upward/downward scrolling

In the IP configuration interface,press "SEL" to enter the editing interface or move the cursor.

Note : The font and cursor on the LCD screen are both black.

### 4.2 The Menu Structure

LCD Menu Structure



### 4.3 Detailed Description

#### 4.3.1 Welcome Screen

After Power on, the LCD shows status and IP of LAN.

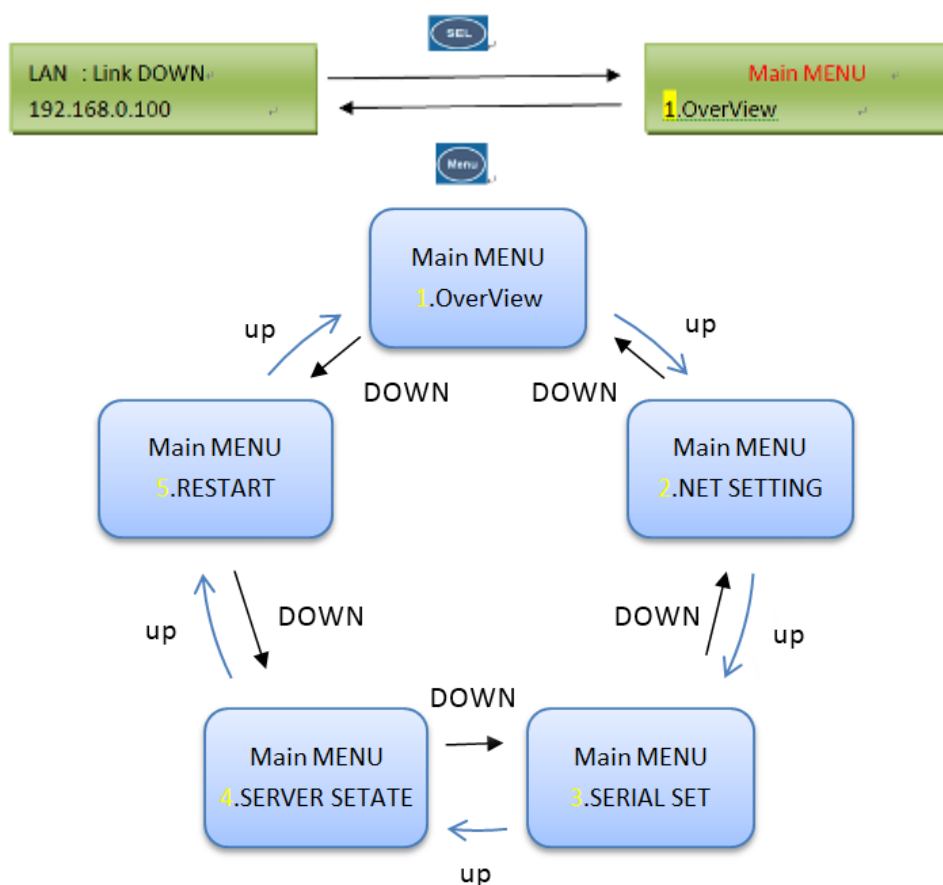
The display format is given as follows:



Input the default password 1234.





Press  to enter the main menu.

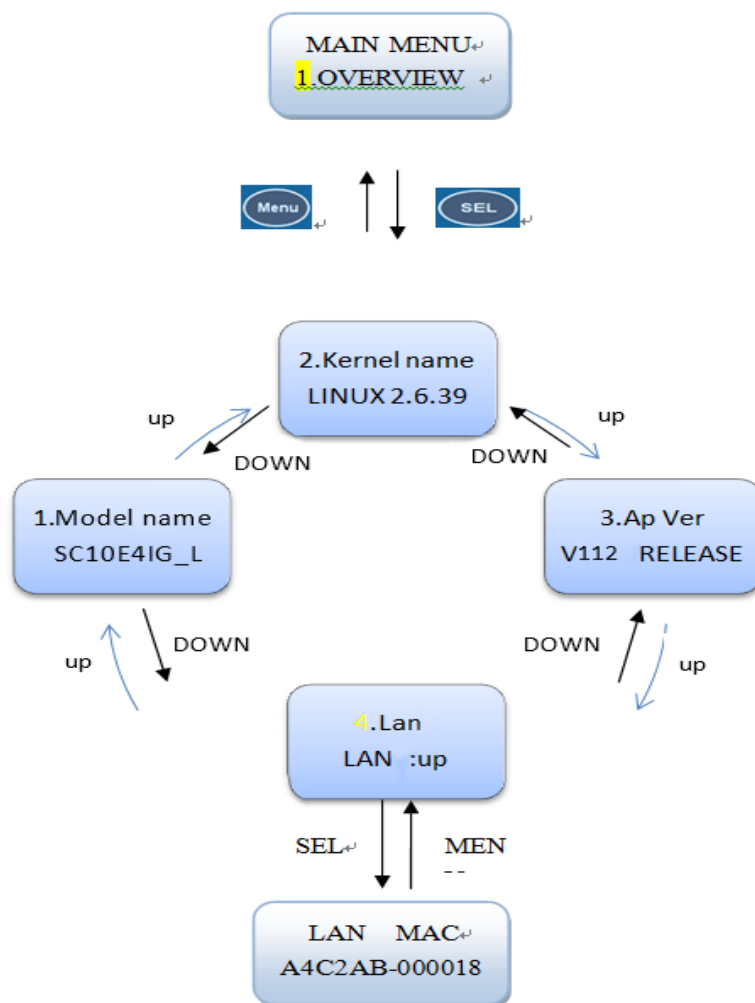
#### 4.3.2 Main Menu Structure



### 4.3.3 Overview



The yellow highlighted '1' above will blink (actual blinking in black and white). Press  to return to previous menu,  to enter the submenu, and ,  to switch between the different layers. If the cursor is blinking, you can enter the submenu or input the editing content. Working is displayed in a Simple flow chart :

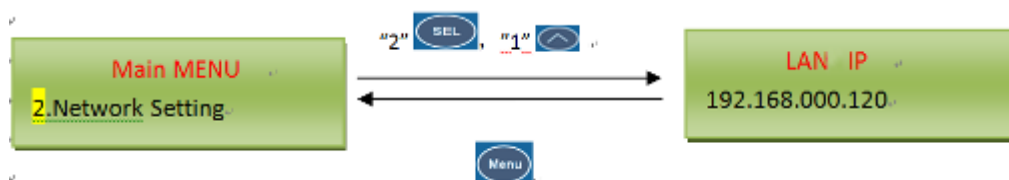


### 4.3.4 Network Settings





This option is to configure the network, including LAN Mode, IP, Net Mask etc.

On the page of LAN Mode, the Switch Pattern and Redundant Pattern are available. The yellow '2' above will blink (actually blinking in black and white). Press **Menu** to return to previous menu, **SEL** to enter the submenu, and **Up**, **Down** to switch between the equative layers. When the cursor is blinking, you can enter the submenu or input the editing content.



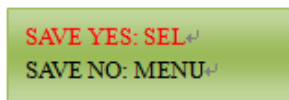
Note: "2" means press two times. "1" press once.

Steps to modify IP:

In , operate as above to enter . Then press

**SEL** to enter editing mode (the cursor will blink in the position of '1'). Press **SEL** to move back the cursor. Press **Up** or **Down** to modify IP. In this mode, you can press **Menu** to exit. If

the data (IP) is changed, the following interface will display:

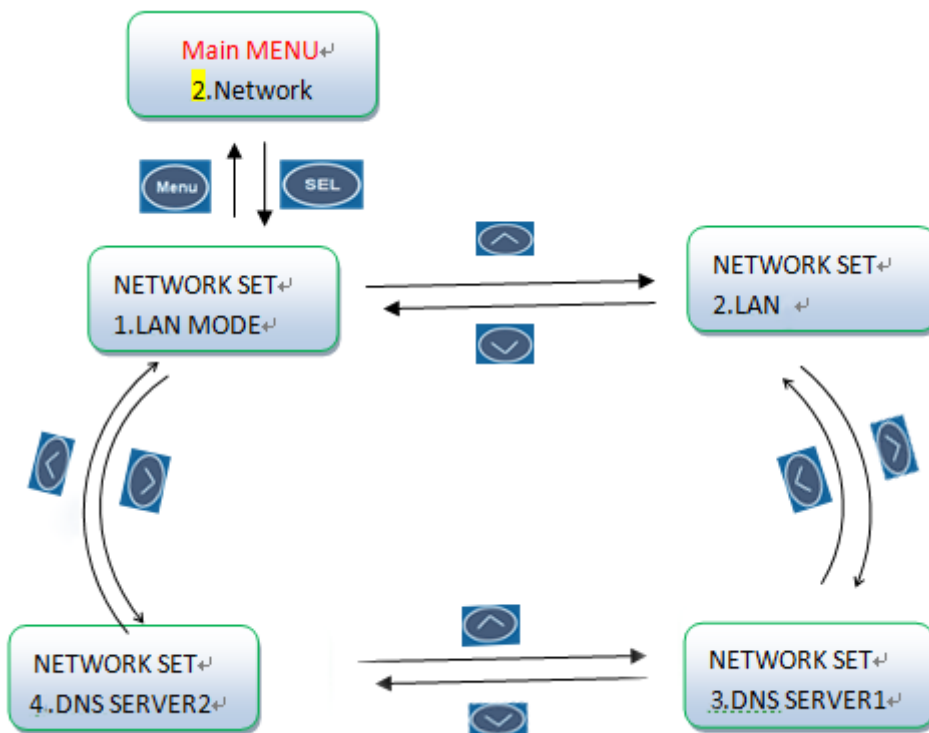


Then operate according to the screen prompts.

If the data (IP) is not changed, it will exit the edit mode without displaying the above content.

Note: Since the other Net Mask and Gateway editing operations are similar, we are not repeating the procedure.

Simple flow chart works as follows:



Note: The green border interface means that pressing "SEL" can enter the submenu. In the IP configuration interface, you can enter the editing interface or move the cursor by pressing "SEL". Pressing "MENU" to exit the edit mode or return to previous menu.

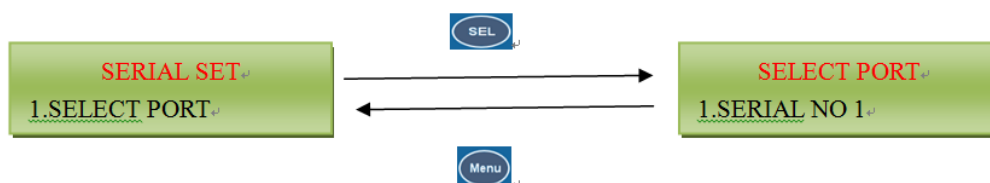
#### 4.3.5 Serial Settings




This option is to set the serial port. After entering this menu, four submenus are available: SELECT PORT, Select Mode, Parameter Set, Link Mode;

Before each configuration, you'd better access the "SELECT PORT" interface to confirm the current port in case is set. "Select Mode", "Parameter Set", "LINK Mode" etc parameters of the port selected in the "SELECT PORT".

The operations of "SELECT PORT" show as follows:




After operating as the above to enter . Then press , the cursor will blink in the yellow position. And press ,  to modify port number. Press  to exit.

If the port number is changed, the following interface will display: 

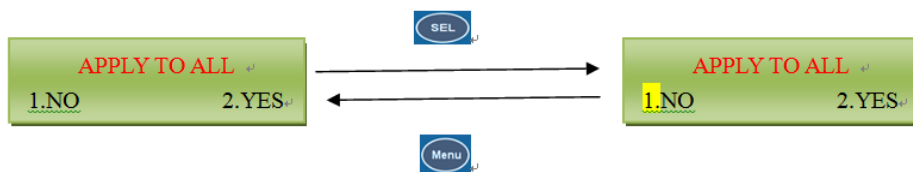
Then operate according to the screen prompts.






If the port number is not changed, it will exit the editing interface without displaying the above content.

Since configuration of other parameters are similar, no need to repeat here.

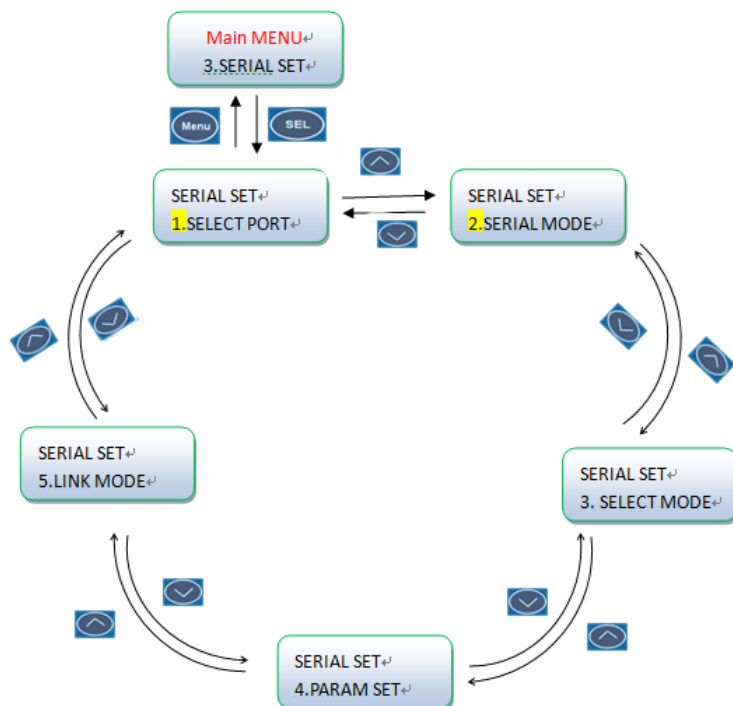
During the configuration of other parameters the screen may display , which asks whether to apply the configuration to all ports or not.

The operation is shown as follows:



After pressing , the cursor will blink on "NO/YES". Then press  or  to switch between "NO" and "YES", select  to confirm, and  to exit.

Simple flow chart works as follows:

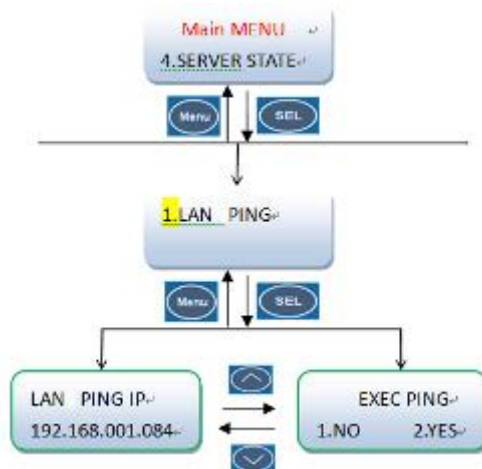


Note: The green border interface means that pressing "SEL" can enter the submenu. In the IP configuration interface, you can enter the editing interface or move the cursor by pressing "SEL". Pressing "MENU" to exit the edit status or return to previous menu.

#### 4.3.6 Server State



Simple flow chart works as follows:








The Key function refer to section “4.1 key distribution”. The Modification of LAN PING IP refer to “4.3.4 Network Settings”. EXEC PING refer to section “4.3.5 APPLY TO ALL” or “4.3.7 Restart”

As the functional is similar to LAN PING, so here we only illustrate the operation of LAN.

### 4.3.7 Restart



In this page, press  to enter the select status. Press  or  to switch between “NO” and “YES”. If the cursor is blinking, press  to select operation. Press  to exit or return to previous menu.