

TRP-C34X

32 Bit Ethernet to 1 RS232 and 1 RS422/485 Optical Isolated Converter



User's Manual

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1. Introduction

TRP-C34X RS232/422/485 Serial Server provides a transparent way of connecting Serial devices over Ethernet. It can transmit data between the Serial and Ethernet interfaces bi-directionally. To establish automatic or remote data acquisition, TRP-C34X Serial Server also provides 3KV optical isolation and surge protection to protect system from ground loops and destructive.

By specifying the IP address and the TCP Port number, a host computer can access different Serial Devices such as Serial Thermometers, Magnetic CNC Controller, Elevator, Data Acquisition Systems, POS Terminals, Industrial PCs etc., over the Network, you can centralize Serial Device management and distribute the management to different hosts at the same time. TRP-C34X makes possible to access distant Serial Devices over Network as if they were directly connected to the Standard COM Port of a Personal Computer.

TRP-C34X supports different modes of operation allowing user to operate the system in different environments.

Real COM Mode.

TRP-C34X comes equipped with COM drivers that work with Operating Systems WIN 32bit XP /Vista/2003Server/2008 Server (32-bit & 64-bit), 2000 Server OS, Win 7 (32-bit & 64-bit), The driver establishes a transparent connection between host and serial device by mapping the IP: Port Number of the TRP-C34X's Serial Port to a local COM Port on the host computer.

The important point is that Real COM Mode allows users to continue using RS-232/422/485 serial communications software like HyperTerminal and similar applications.

TCP Server Mode.

In TCP Server mode, TRP-C34X provides a unique IP: Port address on a TCP/IP network. TRP-C34X waits passively to be contacted by the host computer, allowing the host computer to establish a connection with and get data from the serial device. This operating mode supports up to 4 simultaneous connections, so that multiple hosts can collect data from the same serial device—at the same time.

TCP Client Mode.

In TCP Client mode, TRP-C34X can actively establish a TCP connection to a pre-defined host computer when serial data arrives. After the data has been transferred, TRP-C34X can automatically disconnect from the host computer by using the TCP alive check time or Inactivity time settings. This Operating Mode supports establishing the TCP connection up to 4 Destination Hosts.

UDP Mode.

Compared to TCP communication, UDP is faster and more efficient. In UDP mode, you can multi-cast data from the serial device to multiple host computers, and the serial device can also receive data from multiple host computers, making this mode ideal for message display applications.

When TRP-C34X working at unstable voltage industrial environment, the hardware circuit detection can prevent the power fail cause of the boot fail and Re-Boot.

1-1. Features

- Wide input range DC power supply.
- RS232/422/485 Built-in 3KV Optical-Isolation.
- Surge protection and over current and over voltage on RS-422/485 data lines.
- Supports Socket operation modes like TCP Server, TCP Client, and UDP using TCP/IP and UDP protocols.
- Support Auto-MDIX twisted pair crossover detection and auto-correction.
- Each Port maximum connection 4 host PC at TCP Server and TCP Client Mode.
- Maximum allowed bandwidth is 460 Kbps per Serial Port.
- Supports Web Console, Telnet Console.
- Runs in Stand Alone Mode.
- Built in Restore Factory default push button.
- Features Accessible Imps List to add or remove “legal” remote host IP Addresses to prevent unauthorized access to TRP-C34X.
- Features Auto IP Address Report to periodically report the IP Address of TRP-C34X to the assigned Host on Network.
- Auto direction RS485 flow control by hardware.
- Virtual COM drivers for WIN 32bit XP /Vista/2003Server/2008 Server (32-bit & 64-bit), 2000 Server OS, Win 7 (32-bit & 64-bit).
- Fully compatible with Ethernet and TCP/IP protocol.
- Power/Link and 2 pair Serial RX/TX mode LED indicator.
- Support screw terminal and standard external DC power adapter.
- Din rail or panel mounts support.

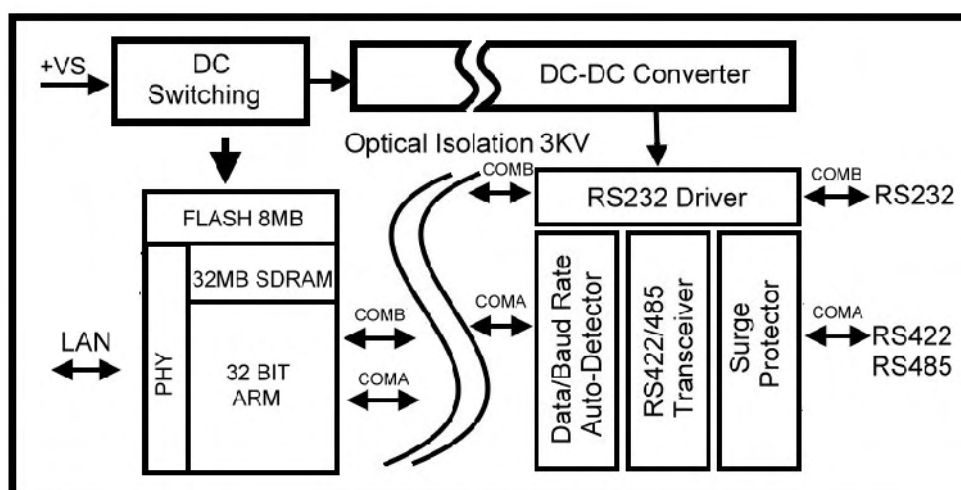
1-2. Features. Specification.

- CPU:32 bit 170MHZ with MMU.
- SDRAM:32MB.
- FLASH:8MB.

- Power Input Voltage: DC +10V to +30V.
- LAN: Auto-MDIX, 10/100 Mbps Auto-detecting.
- RS-232: TXD, RXD, RTS, CTS, ISO GND.
- RS-422: TX+, TX-, RX+, RX-, ISO GND.
- RS-485: Data +, Data -, ISO GND.
- Data Rate: 75~921Kbps.
- Parity: none, even, odd.
- Data Bits: 5, 6, 7 or 8.
- Stop Bits: 1, 1.5 or 2.
- Configuration through Windows Admin Utility / Web Console / Telnet Console.
- Supports Real COM mode using RFC 2217 protocol.
- Protocol: ICMP, TCP/IP, UDP, DHCP, Boot, Telnet, DNS, SNMP, HTTP, SMTP, SNTP.
- Power supply: Screw terminal, or standard external DC adapter.
- Serial interface: +/-15 KV ESD.
- RS422/485 interface: Surge, over current, over voltage protection.
- Power consumption: 12V/230 mA (without external device).
- Operating Temperature: 0 to 65 °C.
- Humidity: 0~90% Non-Condensing.
- Dimensions: 141(L)*78(W)*26.5(H) /mm.
- Weight: 450g (W/Packing).

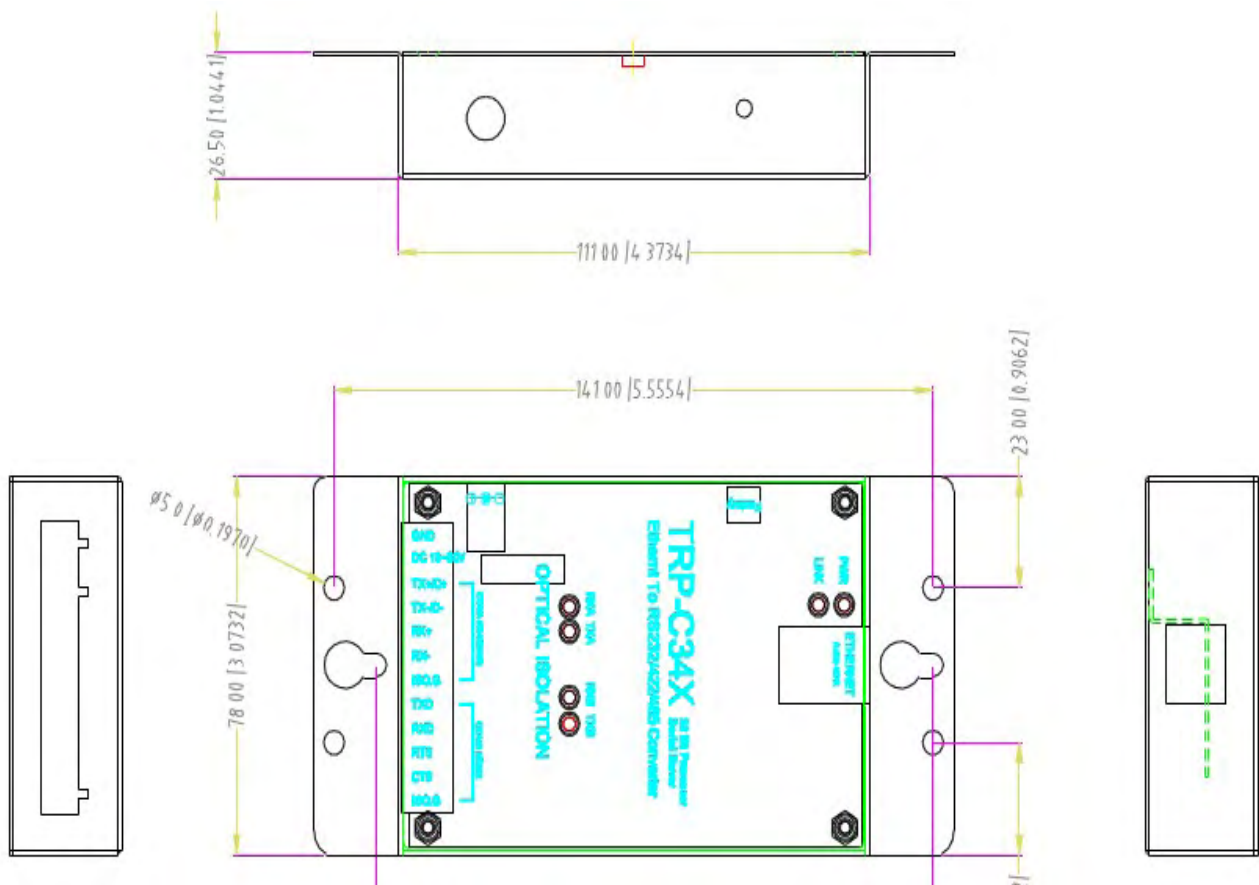
Hardware Description.

2-1. Block Diagram.



2-2. Panel layout and Dimension.

mm/Unit.



Notice: User can only choose either external DC-Jack or Screw terminal DC input. Do not use DC-Jack and screw terminal DC input simultaneously.

2-2. LED indicators.

PWR LED: Blinking: Not Ready.

ON: TRP-C34X Ready .

LINK LED: Ethernet cable connection and data active.

TX/RX LED: COMA: RS422/485 Transiting/Receiving Indicator.

COMB: RS232 Transiting/Receiving Indicator.

DC Jack: Power Input DC +10V to +30V. (Pleas use the 5.5*2.1mm DC JACK).

2-3. Factory default.

*** Push the factory restore button till the PWR LED off and then reboot.**

Hardware Setting:

COMA: Auto Switching RS422/485.

COMB: RS232.

Unlock Password: trycom.

Model Name: TRP-C34H-2S.

Basic configuration:

Accessible IPs	Auto Warning	IP Address Report	Passwo
Basic Settings	IP Settings	Port Settings	Operating Mod
<input type="checkbox"/> Modify Server Name : <input type="text" value="trycom"/>			
<input type="checkbox"/> Modify <input type="checkbox"/> Enable Inactivity Time : <input type="text"/> (Seconds)			
<input type="checkbox"/> Modify Time Zone : <input type="text" value="(GMT+05:30) India"/>			
Local Date : <input type="text" value="1/ 1/1970"/> Option			
Local Time : <input type="text" value="8"/> Hr(s) <input type="text" value="0"/> Min(s) <input type="text" value="41"/> Sec(s)			
TimeServer: <input type="text"/>			
<input type="checkbox"/> Modify <input checked="" type="checkbox"/> Enable Web Console <input checked="" type="checkbox"/> Enable Telnet Console			

IP setting:

Accessible IPs	Auto Warning	IP Address Report	Passwo
Basic Settings	IP Settings	Port Settings	Operating Mod
<input type="checkbox"/> Modify IP Address : <input type="text" value="192 . 168 . 3 . 22"/>			
<input type="checkbox"/> Modify Net Mask : <input type="text" value="255 . 255 . 255 . 0"/>			
Gateway : <input type="text" value="192 . 168 . 3 . 1"/>			
IP Configuration : <input type="text" value="Static"/>			
DNS Server1 : <input type="text" value="."/>			
DNS Server2 : <input type="text" value="."/>			
<input type="checkbox"/> Modify <input checked="" type="checkbox"/> Enable SNMP Community Name : <input type="text" value="public"/>			
Location : <input type="text"/>			
Contact : <input type="text"/>			
<input type="checkbox"/> Modify Subnet 2 : <input type="text" value="."/> Gateway 2 : <input type="text" value="."/>			

Port Setting:

COMA,COMB:115200,8,N,1.

Operating Mode: Real Com Mode.

Accessible IPs: None Setting.

Auto Warning: None Setting.

IP Address Report: None Setting.

Password: Factory: trycom

2-4. Push Button.

If lost the password or wrong setting, user can keep push button till the PWR LED off and then reboot back factory setting.

3. Installing TRP-C34X Hardware.

STEP1: Connect the power source from DC-Jack or screw terminal, the PWR LED will blinking, wait till PWR LED ON.

STEP2: Connect TRP-C34X with Ethernet port by RJ45 cable.

If the cable is properly connected the "LINK" LED will light up.

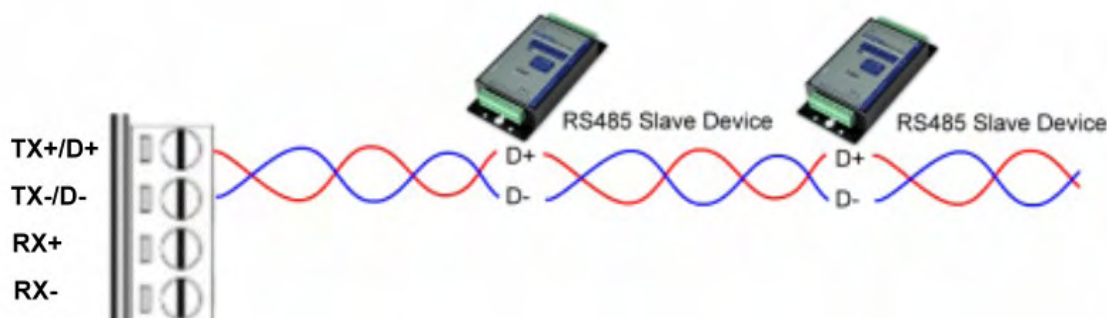
*The TRP-C34X Supports Auto-MDIX, A straight-through or crossover RJ45 cable can be used to make a connection directly to the HUB/Router/PC LAN port.

STEP3: Connect TRP-C34X to RS232 by AWG #12~30 wires.

Connect TRP-C34X to RS422/485 by AWG #12~30 twisted wires.

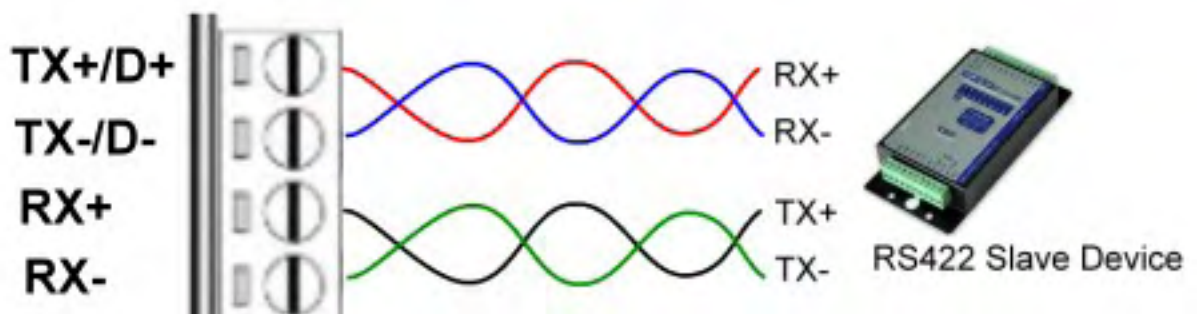
3-1.RS485 Wiring.

The RS-485 mode supports the Transmit and Receive channels use twisted pair wire half-duplex operation.



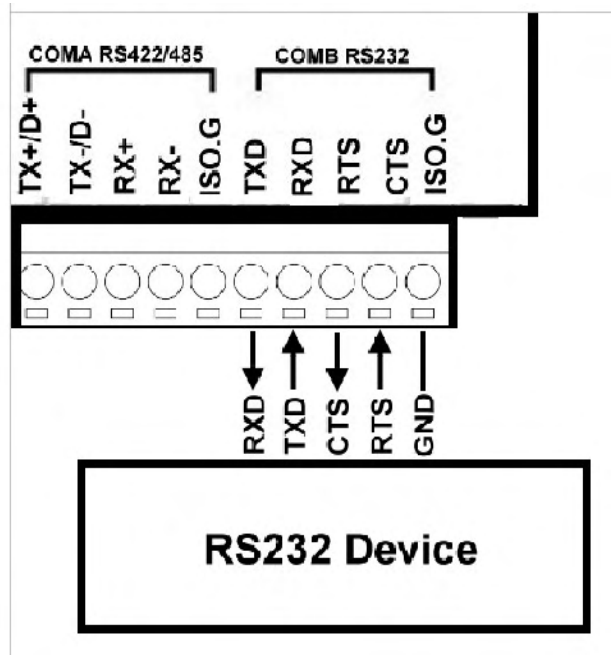
3-2.RS422 Wiring.

The RS-422 mode supports 4 channels with full duplex operation use dual twisted pair wire half-duplex operation.



3-3. RS232 Wiring.

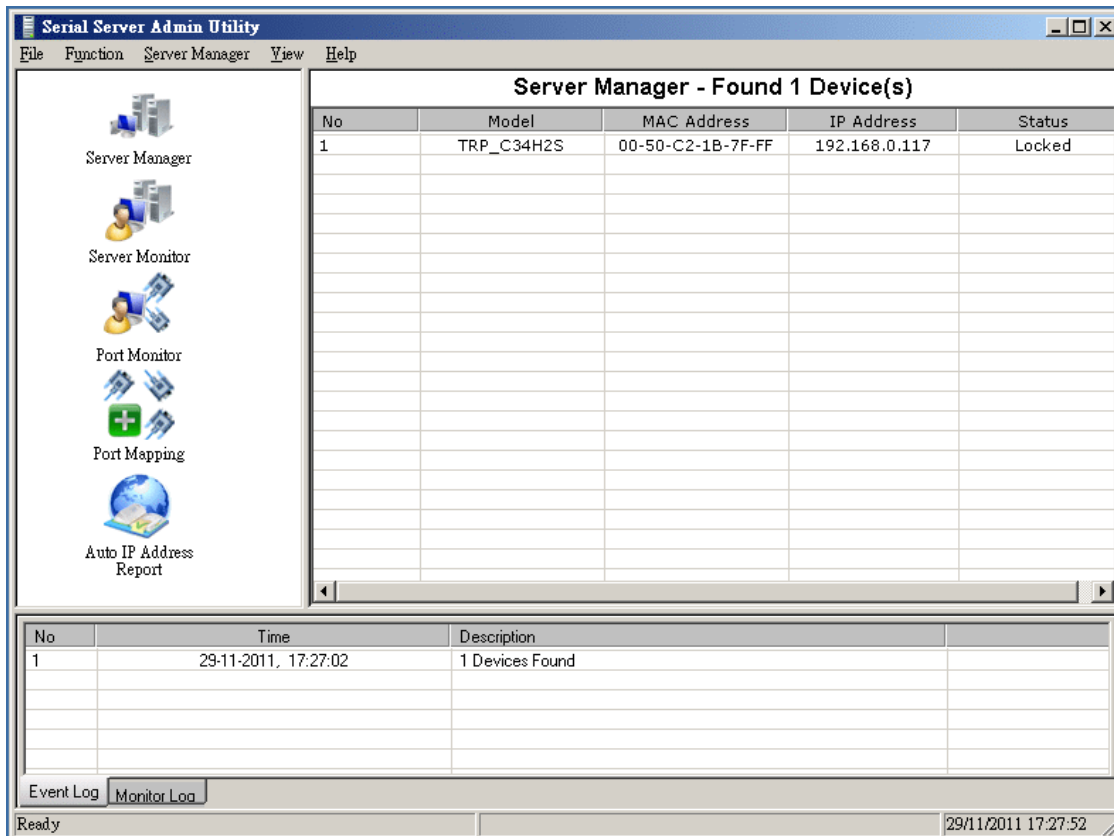
Refer to the Pin out table for connections.



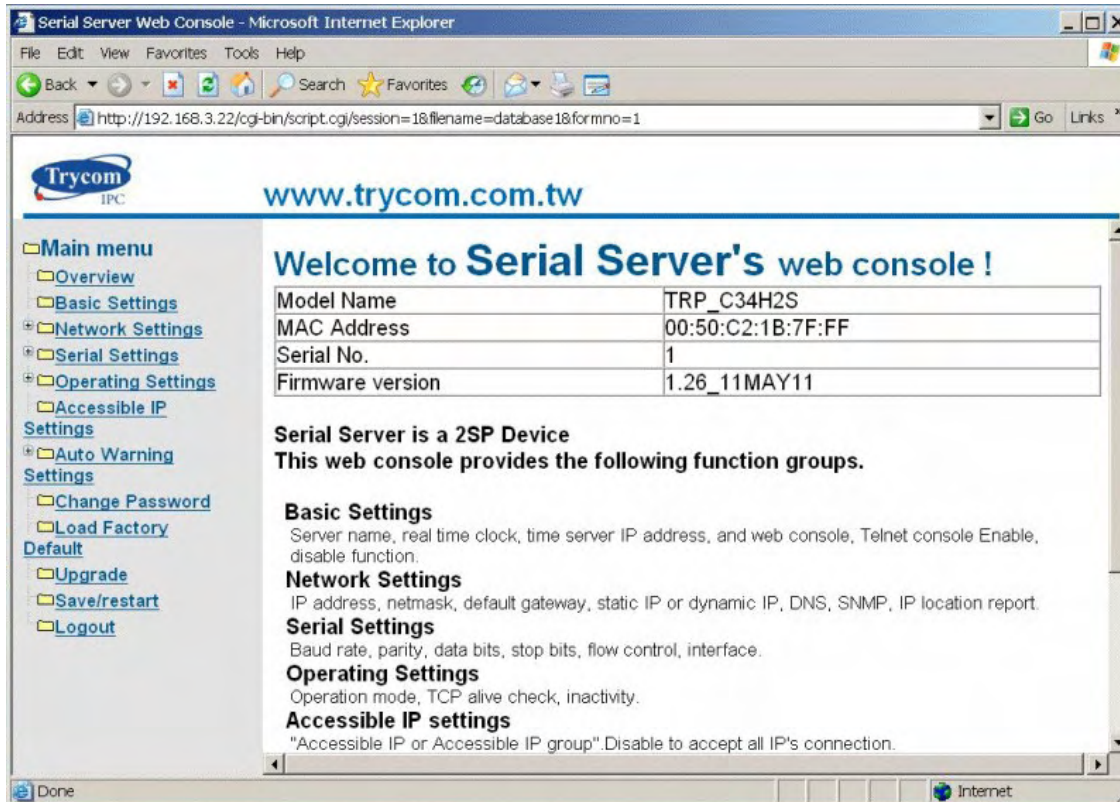
4. How to configure TRP-C34X.

There are 3 ways to access the TRP-C34X.

- a. Serial Server Admin Utility.



b. WEB Server.



c. Telnet.

```

c:\ Telnet 192.168.3.22
-----
Model Name       :TRP_C34H2S
MAC Address      :00:50:C2:1B:7F:FF
Serial Number    :1
Firmware Version :1.26_11MAY11
-----

<<Main Menu>>
(1) Basic Settings
(2) Network Settings
(3) Serial Settings
(4) Operating Settings
(5) Accessible IP Settings
(6) Auto Warning Settings
(7) Monitor
(8) Ping
(9) Password Settings
(a) Load Factory Defaults
(v) View Settings
(s) Save/Restart
(q) Quit

Key in your selection:

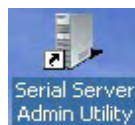
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4-1. Installing Serial Server Admin Utility.

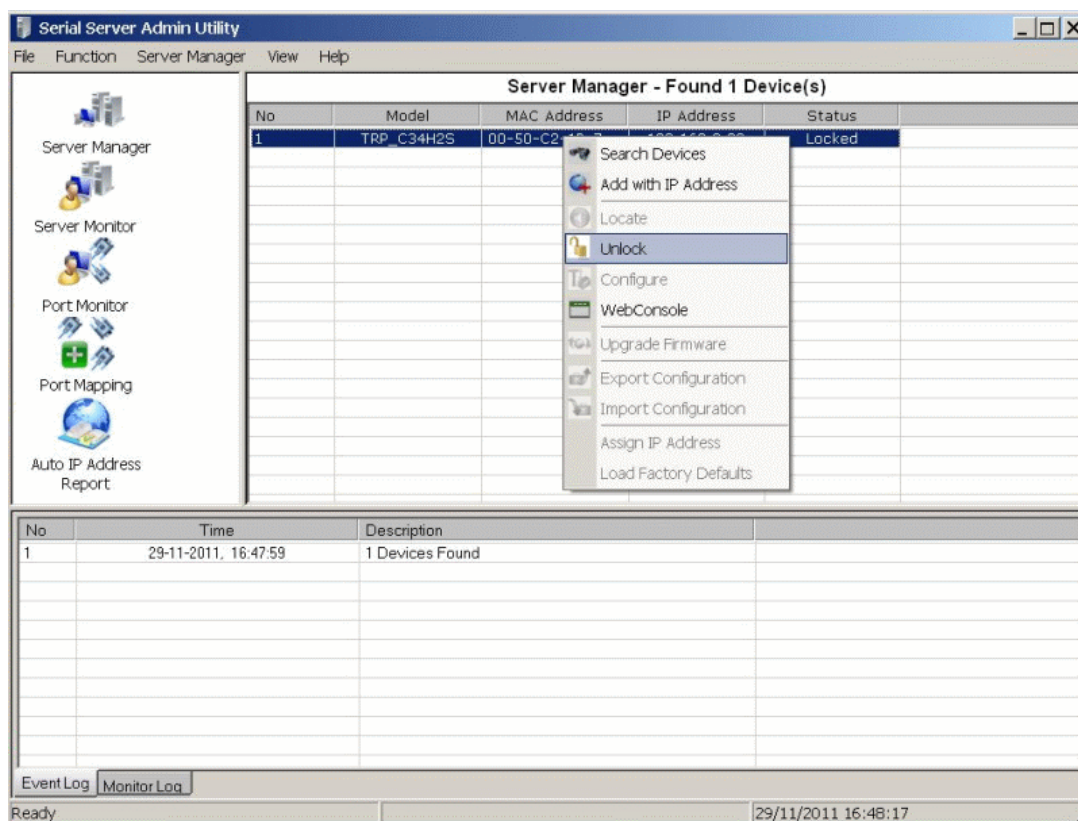
The "Serial Server Admin Utility" Support WIN XP/VISTA/2003 Server/2008 Server 32/64 bit, 2000 Server/Win 7.

Insert the TRP-Serial CD, find the TRP-C34X's folder" Utility" and run "PortSetup.exe"

When Installation is completed the wizard creates a Serial Server Admin Utility shortcut on the Desktop as shown below.



Double Click on the Serial Server Admin Utility then Right click on the main window or go to Server Manager in Menu Bar and select Search Devices to find the TRP-C34X on the network.



By default all the devices searched are locked and can be seen under the status column of the Server Manager Window in order to protect from unauthorized configuration changes.

In order to configure the device, it has to be Unlocked first. Unlock password: **trycom**

After the device has been Unlocked, the device can be configured for all Network, Serial, Operating settings. Select the device to be configured, Right Click on the selected device and click on configure to go to Configuration menu. (Double clicking on selected device can also open the Configuration menu).



This invokes the Server Manager Configuration Dialog as shown below.

Accessible IPs	Auto Warning	IP Address Report	Passwo
Basic Settings	IP Settings	Port Settings	Operating Mod
<input type="checkbox"/> Modify Server Name : <input type="text" value="trycom"/>			
<input checked="" type="checkbox"/> Modify <input checked="" type="checkbox"/> Enable Inactivity Time : <input type="text"/> (Seconds)			
<input type="checkbox"/> Modify Time Zone : <input type="text" value="(GMT+05:30) India"/>			
Local Date : <input type="text" value="1/ 1/1970"/> Option			
Local Time : <input type="text" value="8"/> Hr(s) <input type="text" value="0"/> Min(s) <input type="text" value="41"/> Sec(s)			
TimeServer: <input type="text"/>			
<input type="checkbox"/> Modify <input checked="" type="checkbox"/> Enable Web Console <input checked="" type="checkbox"/> Enable Telnet Console			

On Basic page, check the Modify check Box to change any of the Configuration details.

IP Setting:

Accessible IPs	Auto Warning	IP Address Report	Password
Basic Settings	IP Settings	Port Settings	Operating Mode

☐ Modify
 IP Address : 192 . 168 . 3 . 22

☐ Modify
 Net Mask : 255 . 255 . 255 . 0
 Gateway : 192 . 168 . 3 . 1
 IP Configuration : Static
 DNS Server1 :
 DNS Server2 :

☐ Modify ☒ Enable SNMP
 Community Name : public
 Location :
 Contact :

☐ Modify
 Subnet 2 : Gateway 2 :

On IP Settings Page, click the modify box first, you can modify all the Network parameter

- IP address
- Net Mask
- Gateway
- Click the IP Configuration drop-down box, to modify the parameter Static/DHCP/BOOTP.

The screenshot shows the 'Device Manager' window with the 'IP Settings' tab selected. The 'IP Mode' is set to 'Static'. The 'IP Address' is 192.168.3.22, 'Net Mask' is 255.255.255.0, and 'Gateway' is 192.168.3.1. The 'IP Configuration' dropdown is open, showing options: Static, DHCP, BOOTP, and BOOTP. The 'Community Name' is 'public'.

- DNS Server 1: When the user wants to visit a particular website, the computer asks the Domain Name System (DNS) Server for the website's correct IP address, and the

computer uses the response given by DNS Server to connect to the Web Server. DNS is the way that Internet Domain Names are identified and translated into IP address.

- f. DNS server 2: An optional alternative of DNS Server.
- g. Community Name: A community name is a plain-text password mechanism that is used to weekly authenticate queries to agents of managed network devices.
- h. Contact: The SNMP contact information usually includes an emergency contact name and telephone or pager or Mobile number.
- i. Location: This string is usually set to the street address where the TRP-C34X is physically located.

Port Settings Page

On the Port Settings page of the Server Manager dialog displays all the serial ports, present on the Serial Server model of the selected device. It also shows the corresponding serial settings in the settings column of the page

In order to see the current settings of any Serial port, select the port number in above window & then click on View settings.

To modify the serial settings check the modify box on the serial page. Then “View settings” tab would be converted into “Settings” tab as below:

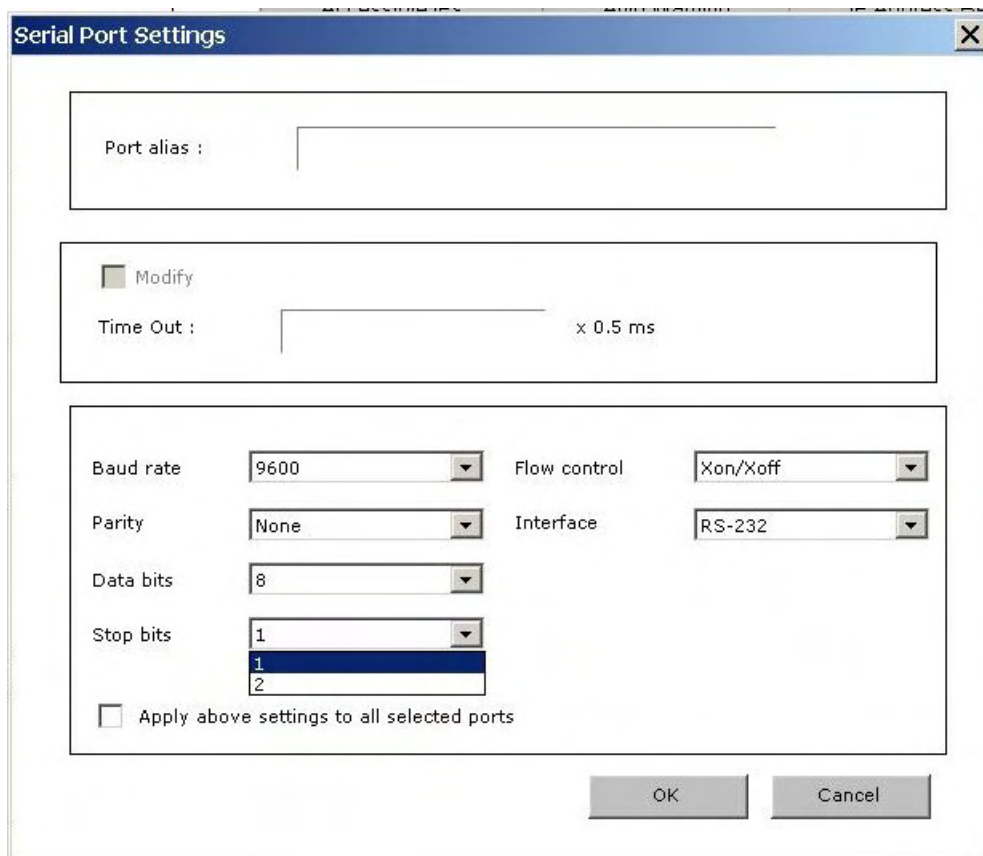
Accessible IPs	Auto Warning	IP Address Report	Passw
Basic Settings	IP Settings	Port Settings	Operating Mo

☐ Modify

Port	Alias	Settings	TimeOut	
1		128000bps,8-bit,None,1-bit,Xon/Xoff,R...		
2		128000bps,8-bit,None,1-bit,Xon/Xoff,R...		

[View Setting:](#)

Select any Serial Port and click on the Settings tab which will show serial settings dialog where all parameters can be viewed in enabled state.



The image shows a 'Serial Port Settings' dialog box. It has a title bar with a close button. The main area is divided into three sections. The first section has a label 'Port alias :' followed by a text input field. The second section has a checkbox labeled 'Modify' and a label 'Time Out :' followed by a text input field and a multiplier 'x 0.5 ms'. The third section contains several settings: 'Baud rate' (9600), 'Flow control' (Xon/Xoff), 'Parity' (None), 'Interface' (RS-232), 'Data bits' (8), and 'Stop bits' (1). The 'Stop bits' dropdown is open, showing options 1 and 2. At the bottom of this section is a checkbox labeled 'Apply above settings to all selected ports'. At the very bottom of the dialog are 'OK' and 'Cancel' buttons.

Setting	Value
Port alias	
Modify	<input type="checkbox"/>
Time Out	
Baud rate	9600
Flow control	Xon/Xoff
Parity	None
Interface	RS-232
Data bits	8
Stop bits	1
Apply above settings to all selected ports	<input type="checkbox"/>

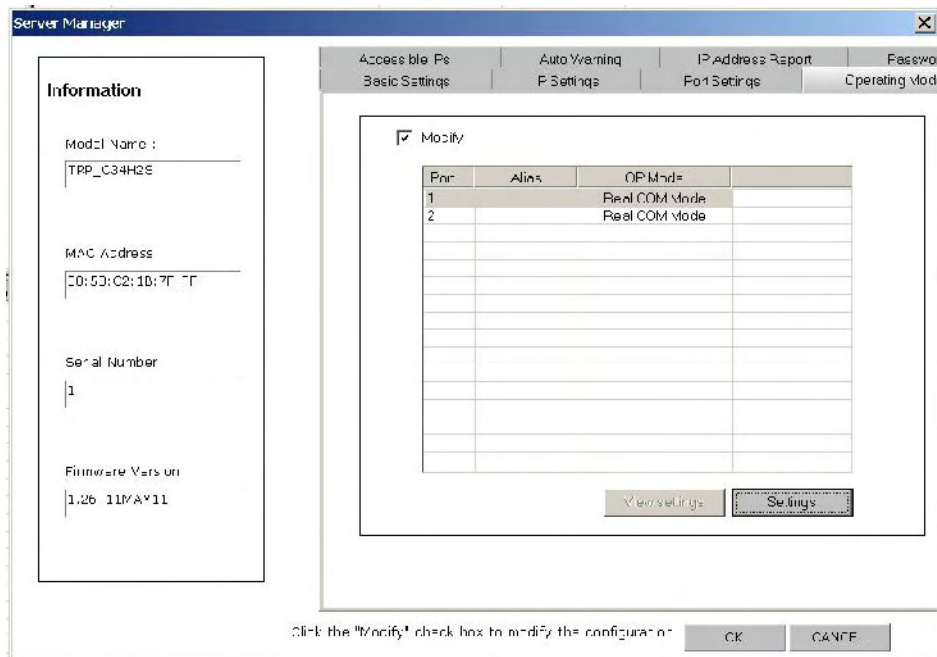
Click the checkbox “Apply Port Alias to all selected ports” to apply same port alias to all selected ports. Maximum length of Port alias is 5 characters.

Click the specific drop-down box or click the check box to modify the serial port settings viz., Baud Rate / Parity / Data Bits / Stop Bits / Flow control / Interface.

If Serial applications like Hyper Terminal opens a COM Port with any of above port Numbers in a Virtual PC then the serial settings of that particular port change as per the Hyper terminal session opened.

Operating mode

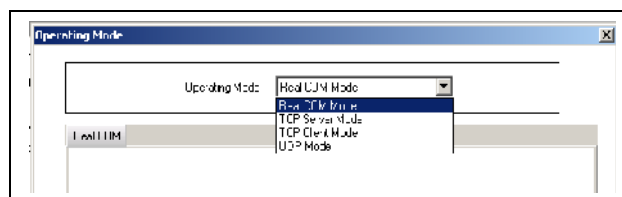
Click on Operating mode which opens the operating mode page as shown



Select any port and click on “View Settings” tab which shows the “Operating Mode” dialog Box as shown below. The default operating Mode is “Real Com” Mode.

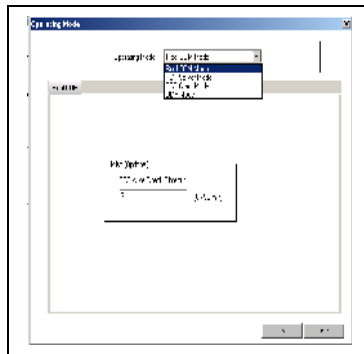
Note. TRP-C34X will restart automatically, after configuring the Operating Settings page. For all other pages, TRP-C34X will not restart.

If modify check box is checked to activate the parameter, double click or highlight and click “Settings” tab of the specific port to modify the operating mode. Click the Operating Mode drop-down box to set the Real Com Mode / TCP Server Mode /TCP Client Mode / UDP Mode as shown below.



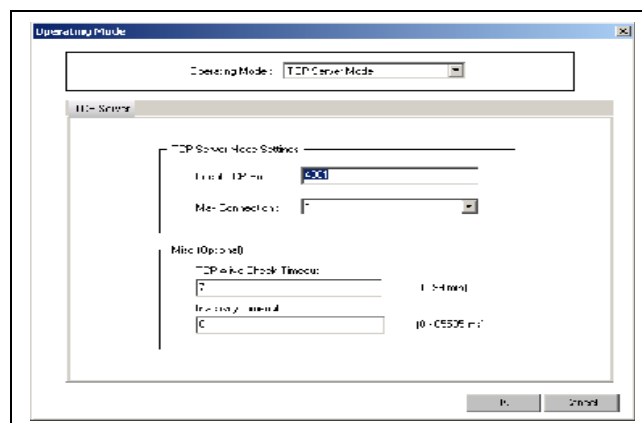
Real COM Mode

Key in the TCP Alive Check Timeout to set the timeout for TCP Alive time. The Default setting is 7 min. TRP-C34X automatically closes TCP connection if there is no TCP activity for the given time. After the connection is closed, TRP-C34X starts listening for another REAL COM driver’s connection form another host.



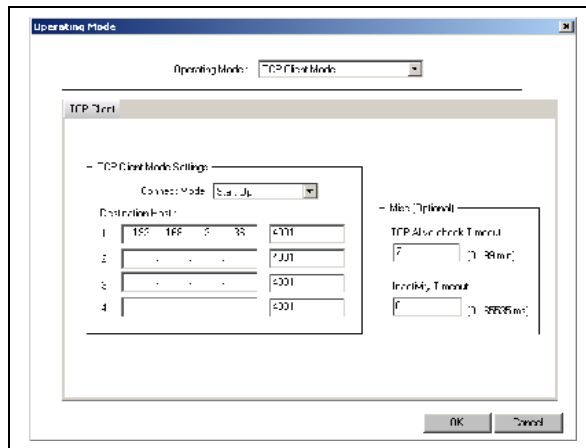
TCP Server Mode

- Local TCP Port: The TCP Port of TRP-C34X that uses to listen to the requests coming from Host Computers on Network in order to establish connection. The Host Computers should contact this Port in order to establish connection with the TRP-C34X.
- Click the Max Connection drop-down box to set Max connection options to 1 / 2 / 3 / 4.
- TCP Alive Check Timeout (Default setting is 7 min).
- Inactivity Timeout (Default setting is 0 ==> Disabled).



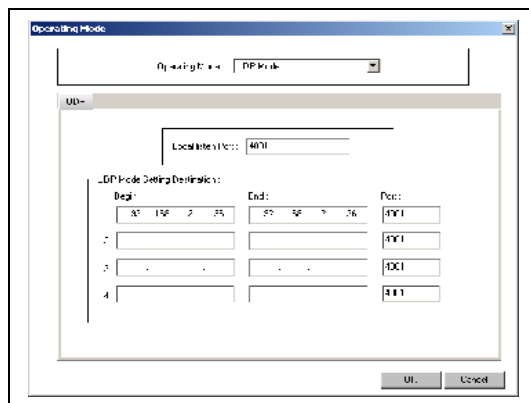
TCP Client Mode

- Click the Connect Mode drop-down box to set "Startup" / "Any character".
- Setting Destination IP address 1 and Port Number, allows TRP-C34X to connect actively to the remote host whose address is set by this parameter.
- Similarly Destination IP addresses 2 / 3 / 4, allows TRP-C34X to connect actively to the remote hosts whose address is set by this parameter.
- TCP Alive Check Timeout (Default setting is 7 min)
- Inactivity Timeout (Default setting is 0 ==> Disabled).



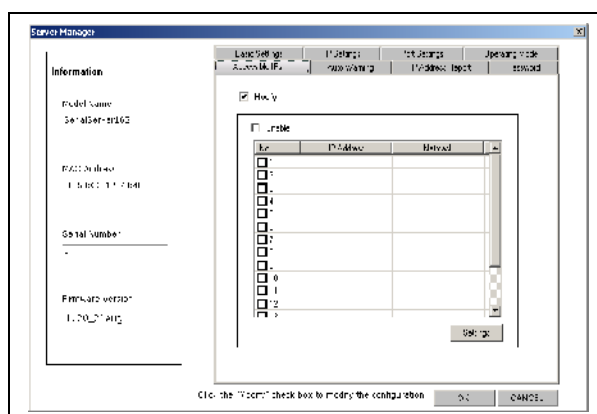
UDP Mode

- Local Listen port: The UDP port that uses to listen to Data from multiple host computers and also to multicast data to multiple host computers.
- UDP Mode Setting Destination:
- Destination IP address 1 / 2 / 3 / 4

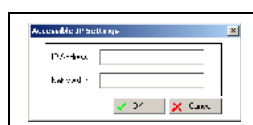


Accessible IP's Page

Accessible IP settings allow you to add or remove "legal" remote host IP address to prevent unauthorized access to TRP-C34X. Hosts that are included in this list can only access the TRP-C34X on the network.



On “Accessible IP’s” page , click the modify box to activate the parameter, Click on settings button to enter the IP Address and Net Mask of remote host that control the TRP-C34X .



You can allow one of the following cases by setting the parameter.

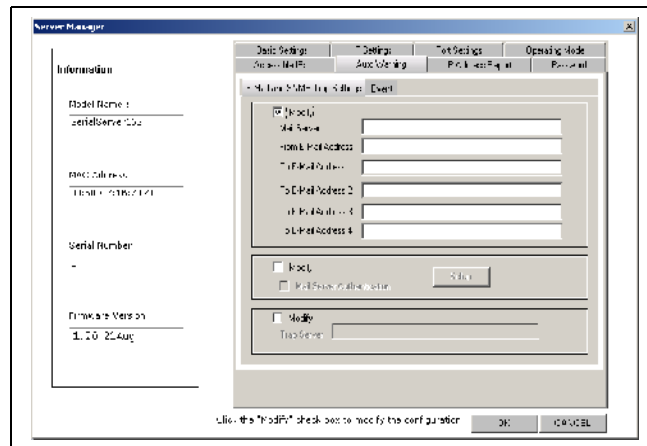
- Only one host of specific IP address can access the TRP-C34X. Enter “IP address/255.255.255.255” (e.g., “192.168.2.246/255.255.255.255”).
- Hosts on the specific subnet can access the TRP-C34X. Enter “IP address/255.255.255.0” (e.g., “192.168.2.0/255.255.255.0”).
- Any host can access the TRP-C34X. Disable this function by unchecking the “Enable” Check Box.

Refer the following table for more details about the configuration example.

Allowable Hosts	Input format
Any host	Disable
192.168.2.246	192.168.2.246 / 255.255.255.255
192.168.2.1 to 192.168.2.254	192.168.2.0 / 255.255.255.0
192.168.0.1 to 192.168.255.254	192.168.0.0 / 255.255.0.0
192.168.2.1 to 192.168.2.128	192.168.2.0 / 255.255.255.128
192.168.2.129 to 192.168.2.254	192.168.2.128 / 255.255.255.128

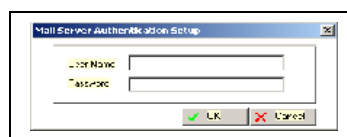
Auto Warning Page

Auto warning mechanism is a useful mechanism which sends the status messages to E-Mail id's and Trap Servers in order to warn or acknowledge the changes made to the TRP-C34X .

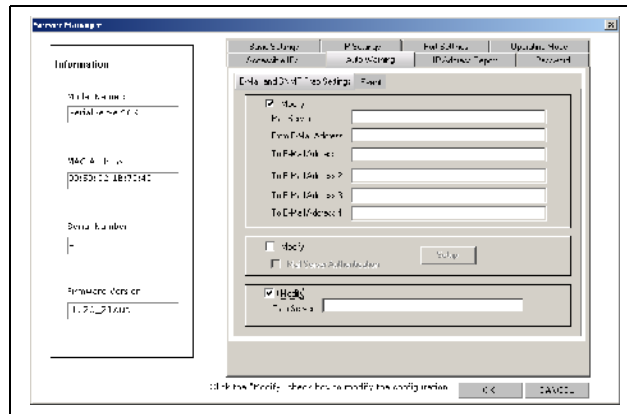


On Auto warning page under E-mail and SNMP Trap Setting Tab, click the modify box to activate the parameter.

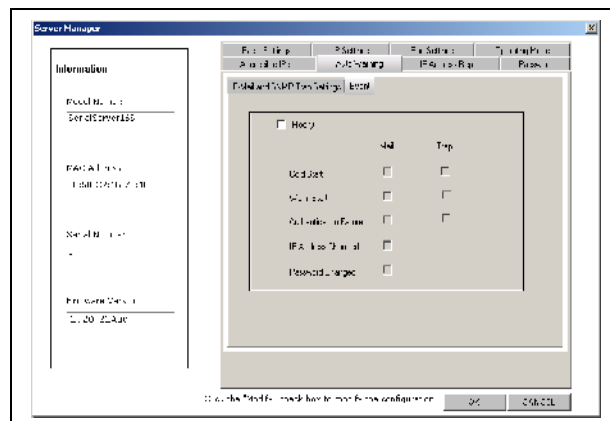
- a. On Mail server frame, input the IP Address or Domain Name of the Mail server.
- b. Input the From E-mail Address.
- c. Enter the email addresses in the To E-Mail address boxes (1, 2, 3, 4) to whom the acknowledgement has to be sent.
- d. If the Mail Server has to be authenticated, check the Modify box and check the “Mail Server authentication check box”, and then press Setup button
- e. Input the User Name and Password to modify the Mail Server Authentication Setup.



- f. To set or modify the Trap Server , check the Modify checkbox and enter the IP Address or Domain name of the Trap Server to which the Auto warning are to be sent.



On Auto warning page, under Event Tab, click the Modify box to activate the parameter, and click the checkbox to set the Events for which Auto warnings are to be sent.



To get Auto Warning E-Mails:

- i) Give the Mail Server IP address & authentication if required.
- ii) Give from ID & To ID
- iii) Select on what event you want to be notified by mail in "Eventtype" page.

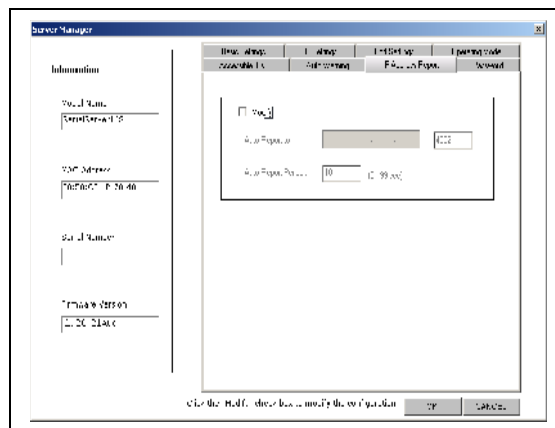
To get Auto Warning Trap Messages,

- i) Key in the IP address of the Linux Machine Trap server option.
- ii) In Network settings page enable SNMP and provide community name, contact, and location information.
- iii) Run this command on Linux PC "snmptrapd -f -Le".
- iv) Select the event type which you want to be notified.

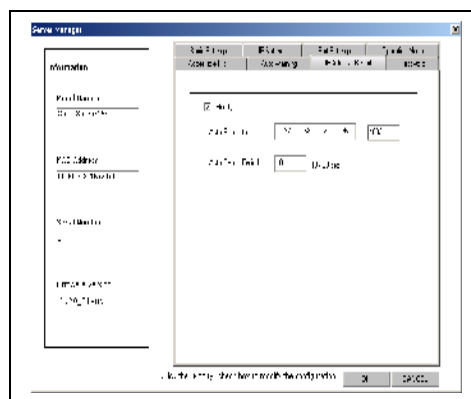
v) On that event notice that some messages will get printed on the console where you are executing the above snmptrapd command.

IP Address Report Page

Network management becomes difficult when TRP-C34X is forced into DHCP. Any IP changes due to DHCP in TRP-C34X are reported to the assigned Host on the Network.



On IP address Report, click the modify box to activate the parameter, and set the IP address, Port number and time period to Auto report to host.



The default Port number is 4002 and the default Auto Report Period is 10 s.

Password

Password can be set / modified & Disabled through this screen. Maximum length of 7 characters can be supported for TRP-C34X password. Alpha, Numeric & Alpha numeric type of passwords are supported.

Space is not allowed between any characters in password.

4-2. using the WEB Server mode.

TRP-C34X support web console for remote configuration of the TRP-C34X on the network. To view the web console, open any web browser (eg., Internet Explorer) and type the IP address in the address bar of the browser. A login form prompting for password appears. Login to the web console by **entering** the correct password and click submit. Default Password is “trycom”.

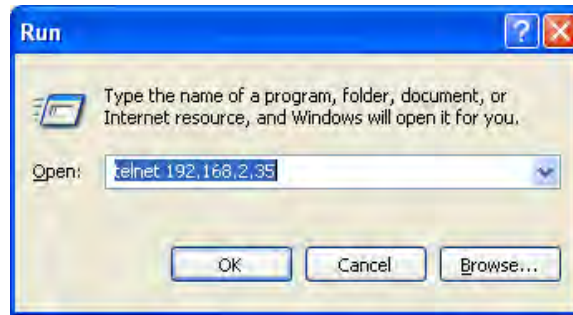


4-3. Telnet.

TRP-C34X implements a **Telnet Server** and can be invoked by making a Telnet from remote PC. In the “Basic Settings” page of “Windows Configuration Utility”, if the ‘**Enable Telnet Console**’ check box is enabled we can use the Telnet Console to modify the device parameters.

Go to **Start Menu > Run**

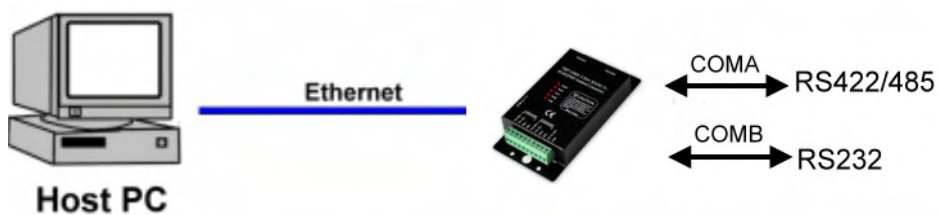
Run Telnet from remote pc with the IP address of TRP-C34X as shown below:



5. Application.

5-1. Real COM Mode.

TRP-C34X Basic 2 Real COM Port installs.

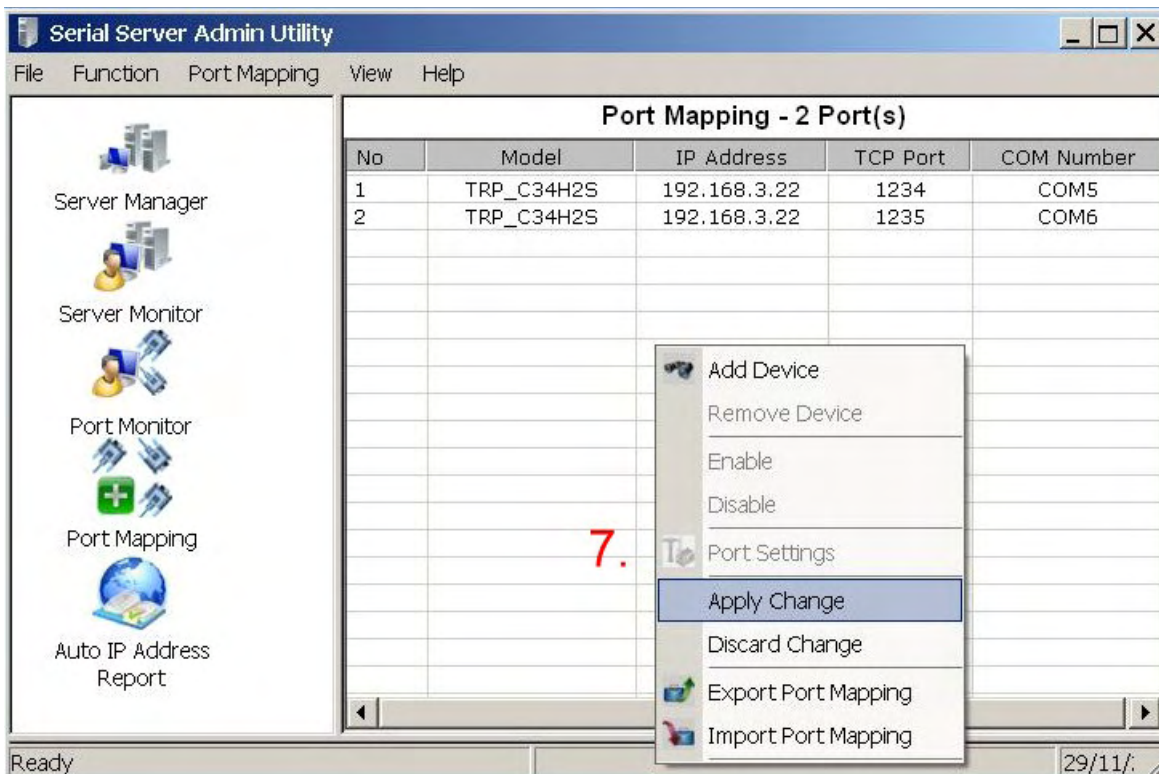


Example:

Step1: Connect PC-----RJ45-----TRP-C34X-----RS232/422/485 Device.

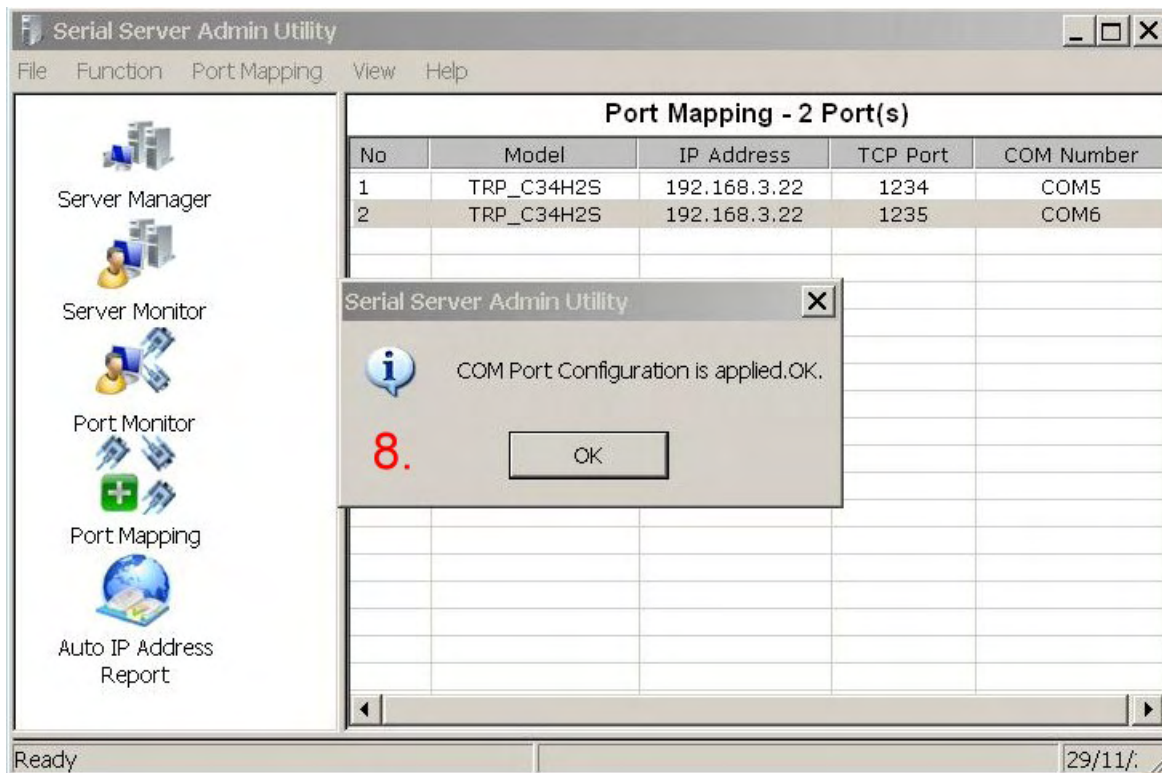
Step2: Run "Serial Server Admin Utility" and Right Click on the selected device and click on configure to go to Configuration menu.

Step3: Be sure "IP Setting"," Port Setting" and "Operating Mode" is correct.

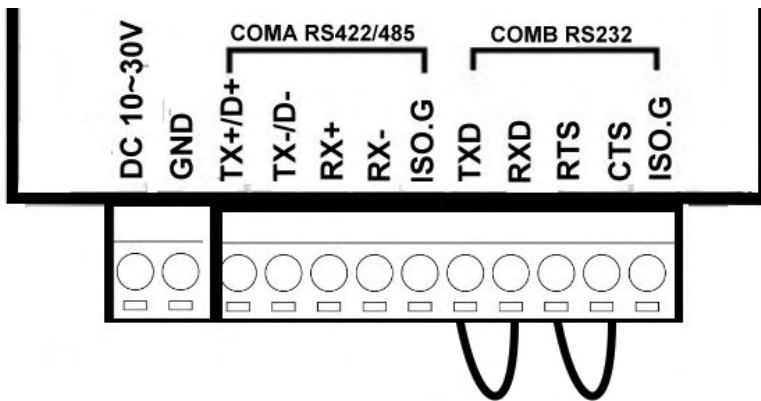


Step7: The TRP-C34X Real COM Mode setting OK.

****Notice: No matter how to change “Add device” or “Remove Device”, its need to be run “Apply change” for save COM Port configuration.***

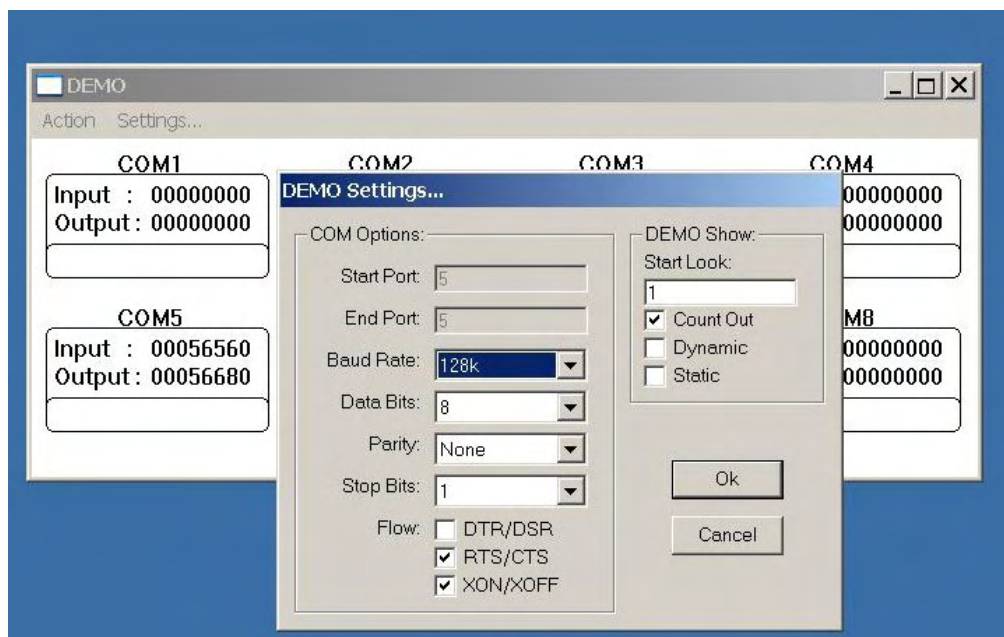


Step8: plug in RS232 LOOP back connector.



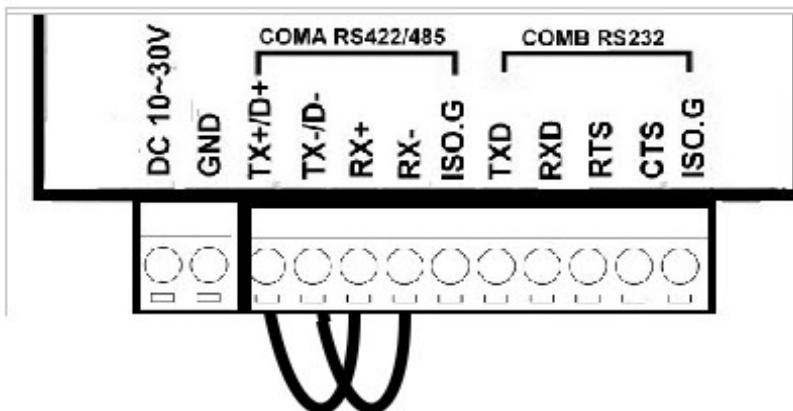
Step9: RUN “Demo.exe” and select “setting”.

Step10: Select “Action” then clicks “Connect”.

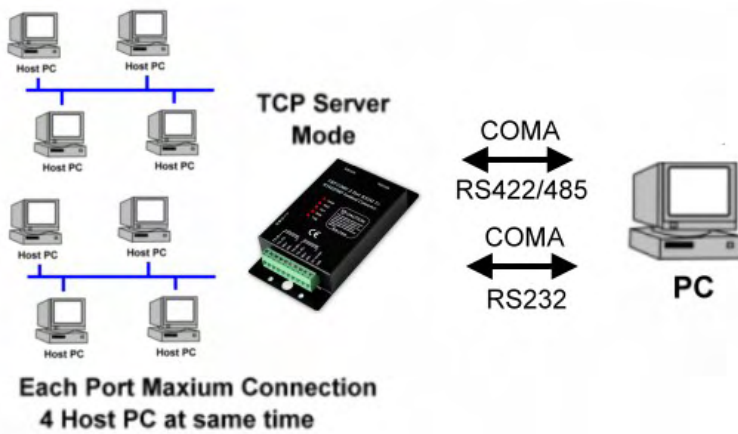


Step 11. User also test RS422 loop back, Please same above step.

***Demo setting “RTS/CTS” item need to Disable for test RS422.**



5-2. TCP Server Mode.

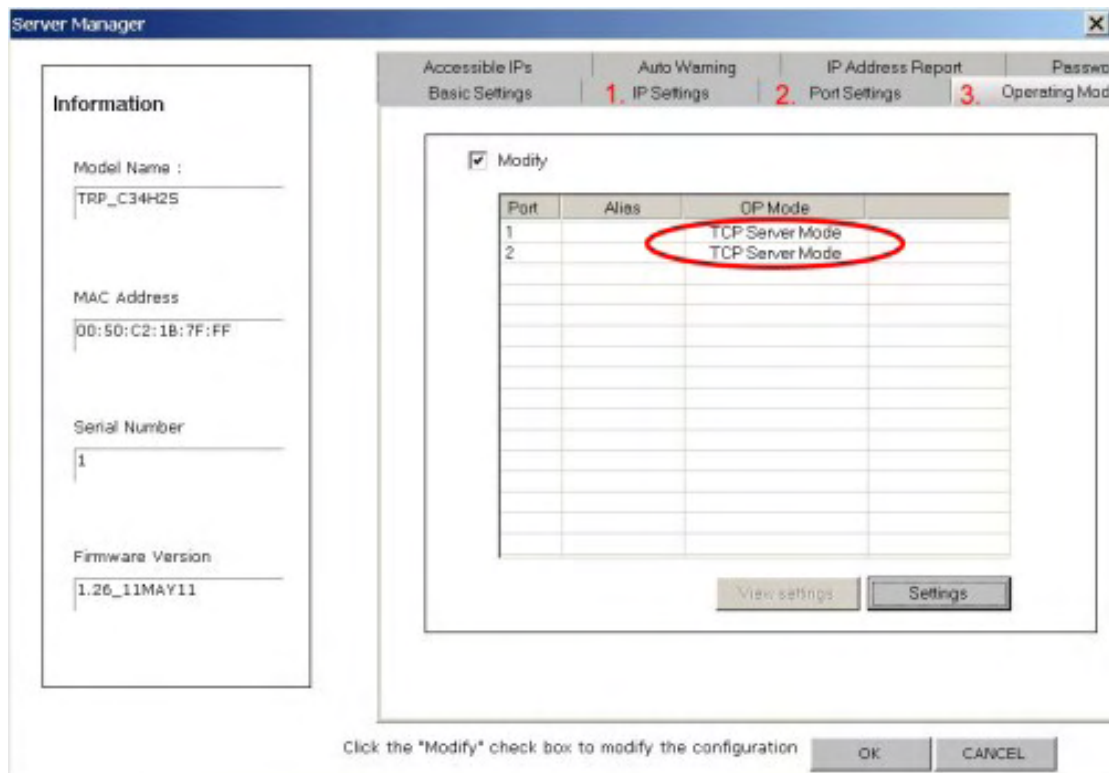


Example:

Step1: Connect Host PC 1~8----Ethernet----TRP-C34X----PC .

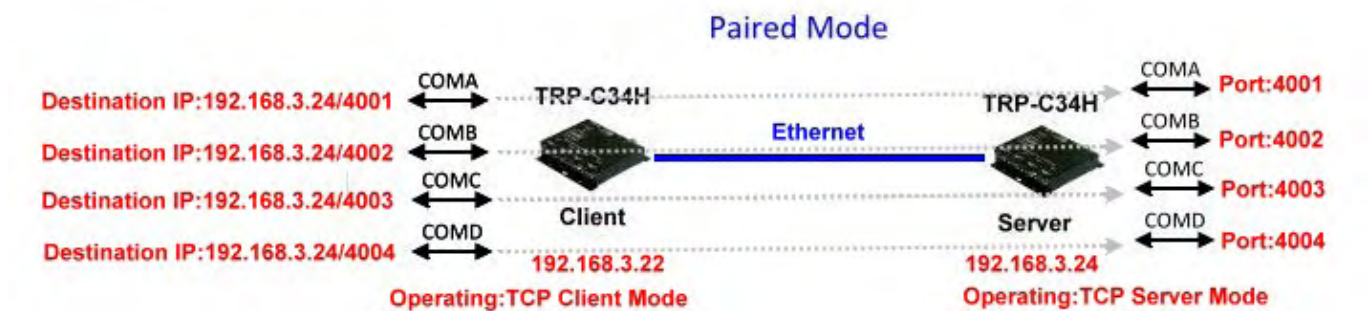
Step2: Run “Serial Server Admin Utility” and Right Click on the selected device and click on configure to go to Configuration menu.

Step3: Be sure “IP Setting”, “Port Setting” and “Operating Mode” is correct.



Step4: Select “Server Monitor” then right clicks “Add Device”.

Step5. Select “Go”.



Step1: Run "Serial Server Admin Utility" and Right Click on the selected device and click on configure to go to Configuration menu.

Step3: Be sure "IP Setting"," Port Setting" and "Operating Mode" is correct.

Step4: TRP-C34X Client setting, Select "Operating Mode" and then double click Port1~Port2 item same below.

Server Manager

Information

Model Name : SerialServer4S

MAC Address : 00:50:C2:1B:7F:02

Serial Number : 16

Firmware Version : 1.24_15NOV10

Accessible IPs Basic Settings Auto Warning IP Settings IP Address Report Port Settings **Operating Mode**

☒ Modify

Port	Alias	OP Mode
1		TCP Client Mode
2		TCP Client Mode
3		TCP Client Mode
4		TCP Client Mode

View settings Settings

Click the "Modify" check box to modify the configuration

OK CANCEL

a. Port 1 Setting.

Operating Mode

Operating Mode : TCP Client Mode

TCP Client

TCP Client Mode Settings

Connect Mode Start Up

Destination Host:

1	192 . 168 . 3 . 24	4001
2	.	4001
3	.	4001
4	.	4001

Misc (Optional)

TCP Alive check Timeout

7 (0 - 99 min)

Inactivity Timeout

0 (0 - 65535 ms)

OK Cancel

b. Port 2 Setting.

Operating Mode

Operating Mode : TCP Client Mode

TCP Client

TCP Client Mode Settings

Connect Mode Start Up

Destination Host:

1	192 . 168 . 3 . 24	4002
2	.	4001
3	.	4001
4	.	4001

Misc (Optional)

TCP Alive check Timeout

7 (0 - 99 min)

Inactivity Timeout

0 (0 - 65535 ms)

OK Cancel

Step5: TRP-C34X Server setting, Select "Operating Mode" and then double click Port1~Port2 item same below.

Operating Mode

Operating Mode : TCP Server Mode

TCP Server

TCP Server Mode Settings

Local TCP Port : 4002

Max Connection : 1

Misc (Optional)

TCP Alive Check Timeout : 7 (0 - 99 min)

Inactivity Timeout : 0 (0 - 65535 ms)

OK Cancel

Step6: Keep the TRP-C34X Server in LAN. Also keep the Client PC in LAN.

Step7: **Power ON the TRP-C34X Server and wait till it completely boots PWR LED ON first.**

Step8: Power ON the TRP-C34X Client and wait till it completely boots PWR LED ON.

Step9: Connect PC COM Port link TRP-C34X Client COMA~COMB by Cable.

Step10: Plug in TRP-C34X server COMA~COMB by loop back connector.

Step11: RUN "Demo.exe" and select correct baud-rate and data format.

DEMO

Action Settings...

COM1 Input : 00000000 Output : 00000000

COM2 Input : 00000000

COM3 Input : 00000000

COM4 Input : 00000000 Output : 00000000

COM5 Input : 00000000 Output : 00000000

COM8 Input : 00000000 Output : 00000000

DEMO Settings...

COM Options:

Start Port : 5

End Port : 8

Baud Rate : 115.2k

Data Bits : 8

Parity : None

Stop Bits : 1

Flow : ☒ DTR/DSR ☒ RTS/CTS ☒ XON/XOFF

DEMO Show:

Start Look : 1

☒ Count Out ☐ Dynamic ☐ Static

Ok Cancel

Step9: Select "Action" then clicks "Connect".

DEMO			
Action Settings...			
COM1 Input : 00000000 Output: 00000000	COM2 Input : 00000000 Output: 00000000	COM3 Input : 00000000 Output: 00000000	COM4 Input : 00000000 Output: 00000000
COM5 Input : 00021960 Output: 00022040	COM6 Input : 00021960 Output: 00022040	COM7 Input : 00022000 Output: 00022040	COM8 Input : 00021960 Output: 00022040

6. TRP-C34X Application Diagram.

