

User's Manual

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Before attempting to connect, operate or adjust this product, please save and read the User's Manual completely. The style of the product shown in this User's Manual may be different from the actual unit due to various models.

Safety Instructions

Always read the safety instructions carefully:

- Keep this User's Manual for future reference
- Keep this equipment away from humidity
- If any of the following situation arises, get the equipment checked by a service technician:
 - The equipment has been exposed to moisture.
 - The equipment has been dropped and damaged.
 - · The equipment has obvious sign of breakage.
 - The equipment has not been working well or cannot get it to work according to the User's Manual.

Copyright

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Introduction

The serial server supports multiple serial ports and allows you to control RS232/422/485 serial devices over a TCP/ IP based Ethernet. Both wire and wireless connection are supported. By specifying the IP Address and the TCP Port number, a host user can access different serial devices such as Serial Modems, Serial Thermometers, Magnetic Card Readers, Barcode Scanners, Data Acquisition Systems, POS Terminals, industrial PCs etc.. Besides, you can centralize serial device management and distribute the management to different users at the same time.

Features

- WiFi interface support up to 54Mbps link speed
- Security mode: WEP/WPA/WPA2
- RS-232/422/485 mode selected by S/W
- 15KV ESD immunity to serial interface
- 3KV optical coupling isolation
- 9~36 VDC wide range power input
- Versatile operating mode supported, including RealCOM, TCP Server, TCP Client and UDP
- 10/100/1000 Mbps Ethernet port for LAN
- DIN-rail mountable

Package contents

- Serial Device Server x1
- CD (Driver & User's Manual) x1
- Power adapter x1
- DIN mounting kit x1
- Screw x3
- RJ45 to DB9 Cable x4
- Power Terminal Connector x1

System requirement

- IBM compatible computer
- Windows Vista[®], Windows XP[®] 32/64-bit, Windows 2000[®], Windows Server 2008[®] 32/64-bit
- 64 MB RAM or higher
- Pentium[®] 233 MHz or higher

Product overview



1 WiFi antenna

- 2 Reset button: Presses to restore the factory default settings.
- **3** Link/Act: Lights green when connecting to an available network.
 - Flashes green when the wireless data is transmitting.
- 4 Power indicator: Lights up when the power is on.
- 5 Signal strength: Displays the status of WiFi signal strength.
- 6 RJ-45 Ethernet connector: Connects to an available LAN (Local area network)
- 7 RJ-45 connector: Connects to RS232/422/485 devices. For more detailed pin assignment of RJ45, refer to Pin assignment chapter.
- 8 DIN mounting: Attaches to a standard DIN-Rail.
- 9 5V3A DC Power jack
- 10 9~36 VDC power terminal

Connection

Power connection

To power the serial server, choose one of the below methods. Power LED lights up when the serial server's power is on.

DC-In

Plug the supplied power adapter into a wall outlet and the other end to the serial server's DC power jack.



Power cable

1. Insert the cable into the power terminal block.

2. Tighten the screw using screwdriver.

3. Plug the power terminal block into the serial server according to the connector's orientation.





Network connection

This serial server supports to connect an available LAN (Local Area Network) using wire or wireless. Select one of the following methods to connect the serial server. Note that the connection diagrams show below are examples only. The real applications may be different from the actual conditions.



Wireless connection

The device of router can be a DSL router, Ethernet Hub/Switch or 802.11x router/base station.

Wire connection



PC connection

Connect the serial server to a computer using Ethernet cable directly if you do not have a network.



Serial devices connection

Connect serial device(s) to the serial server when the serial server has been connected to a LAN. The supported serial devices of this serial server are serial modems, serial thermometers, magnetic card readers, barcode scanners, data acquisition systems, POS terminals, industrial PCs etc..

Note: Install the serial device's drivers before connecting to the serial server is recommended.



DIN mounting kit installation

This serial server can be placed to a flat surface, mounted on a wall or attached to a standard DIN-Rail. Screw the DIN mount kit into the hub as the illustration below before mounting.



Pin assignment

RJ45 Pin assignment



DB9 Pin assignment



Pin	RS-232	RS-422	RS-485 (4-wire)	RS-485 (2-wire)
1	DCD	TxD-(A)	TxD-(A)	Data-(A)
2	RxD			
3	TxD			
4	DTR	TxD+(B)	TxD+(B)	Data+(B)
5	GND	GND	GND	
6	DSR	RxD-(A)	RxD-(A)	
7	RTS	RxD+(B)	RxD+(B)	
8	CTS			
9				

Using SEC (Serial-to-Ethernet Connector)

Introduction

Serial to Ethernet Connector is an advanced software-based solution that allows you to share more than 255 serial port devices over network easily turning your computer into low-cost terminal server. Thus, any serial port device connected to your COM port could be accessed from anywhere in the world (via Internet or LAN) as if it is attached directly to the remote PC. When the attached serial port device sends communication data, it is actually transmitted over TCP/IP network and back from the network to your serial device. Serial to Ethernet Connector provides the ability to create several connection types for three main purposes:

- Share serial port for incoming connections (Server) Server connection will be waiting for incoming client connections and actually will share local real or virtual serial port into network. Server connection provides an ability to connect many clients simultaneously and each connected client is able to transmit input/output serial data to local real or virtual serial port.
- Connect serial port to Serial Device Server (Client) Creating client connection will initiate local real or virtual serial port data redirection to the remote server using TCP/ IP protocol.

You have to do is specify remote server's IP address (or network name) and TCP port to connect to. Once connection is established, all data sent from remote serial port device, attached to the server, will be genuinely delivered to local serial port where it can be further processed.

Share serial port using UDP

You can redirect input/output data from local real or virtual serial port using UDP/IP underlay protocol. Besides, you are able to broadcast all serial data to your local network.

Driver installation

1. Double click **SDS_Setup** in order to start installation process.



Note: This driver combines the utilities of Serial to Ethernet Connector and Serial to Ethernet Toolkit. Both utilities will be installed to the computer after running the installation.

 Follow the on-sereen instructions to complete the installation. Once the installation has been completed, Two shortcuts (and and) will appear on the desktop. To launch the utility, double-click the shortcut which created on the desktop. Alternatively, navigate the Start menu and locate the launcher in Programs submenu.

Note: Please install the utility before connecting the serial server to a computer.

Uninstall the software

Uninstall the Serial to Ethernet Connector To uninstall the Uninstall Serial to Ethernet Connector, click on Uninstall Serial to Ethernet Connector under Ethernet Software item in Programs submenu, and then follow the on-screen instructions.



Uninstall the Serial to Ethernet Toolkit

- 1. To uninstall the Serial to Ethernet Toolkit, click Control Panel in Programs submenu.
- Click Uninstall a program under Program > right click on Select Serial Device Server to bring up Uninstall.

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Quick starting guide

This guide will take you through the process of establishing client-server connection over TCP/IP network. To launch the **Serial to Ethernet Connector**, double click the shortcut so the desktop.

Sharing a local serial port on PC

 In Create connection tab choose the required connection type: Share serial port for incoming connections (Server). Also specify the name to identify this connection, for instance, COM1 [Server]



2. Select local serial port to be shared. For example, COM1



Note: A serial port name must not contain spaces inside.

3. Tick Create as virtual serial port checkbox to use a virtual serial port instead of a real one. The advantage of virtual serial ports technology is that you are not limited to the number of physical serial ports in a system, and thus you can free existing serial ports for other applications. **Note:** A virtual serial port can have the same name as the existing physical COM port. But in this case it will be accessed instead of physical one.

- Tick Strict baud rate emulation checkbox if you want to enable baud rate emulation, which permits virtual ports to work with the same speed as real ones.
- Specify TCP port, which will be used in connection. Make sure this port is not blocked by firewall and is not used by other servers in your system (DNS, SMTP, IIS, etc.).

Select port type you want to create	
Select Serial Port	Greate as virtual serial port
Remote IP/Host name: localhost	: 5000
	TCP port

6. Click Create connection button.



Now the shared serial port can be accessed from the Serial Device Server side (next page) with default settings.

Connecting to a shared serial port from the serial device server

 In Create connection tab choose the required connection type: Connect serial port to Serial Server Device. The name to identify this connection will be set automatically depending on the shared serial port, which participates in connection.



2. Specify the shared serial port number to connect to.



 Also specify the remote server's IP or name, as well as TCP port, used in connection. Click Add button to add IP address to IP's list.

Select port type you want to create	
Select Serial Port: COM1	Create as virtual serial port
Remote IP/Host name: localhost	: 5000 Add
server's IP or name	TCP port

4. Click Create connection button.



Now you are ready to start the communication process with default settings.

Creating UDP Connecting

Serial to Ethernet Connector lets you establish UDP/IP connection between serial ports. UDP connection may come useful for streaming big chunks of data as well as for Mail, DNS, Finger and other services.

To create a connection, follow these instructions: 1. Switch to **Create connection** tab.

 Specify connection name to identify this configuration. Default name is based on local serial port number, which participates in connection, and connection type in brackets.

Serial Serial	to Ethernet Connector 5.0 by Eltima Software _ X				
Edit 🙀 Delete 💽 Delete	all 🥥 Create mirror 🕜 Help -				
Serial to Ethernet Connector	Create connection 😥 Edit connection 🖳 Mirror connection				
COMS [Client]	COM1 [UDP] Create connection				
	Select connection type you want to create				
	Share serial port for incoming connections (Server) Connect serial port to remote host (Client) Share serial port using UP				
	Select port type you want to create				
	Select Serial Port: COM1 Create as virtual serial port Strict baudrate enulation				
	Remote IP/Host name: localhost : 5002				
	You can redirect all data from the local serial port using LDP. This type of connection also doen't require SEC presence on the remote host. Please, enable Advanced mode if you need more settings like port deering settings, pance between packets sending to prevent data losses, underlayer data transmission protocol, proxy and encryption.				
Activity log					

Select connection type you want to create. In this case it is Share serial port using UDP.

- In Select Serial Port field choose local serial port which will participate in connection: either add it manually, or select one from the drop-down list.
- Tick Create as virtual serial port option if you would like to use virtual serial ports instead of real ones.
- Tick Strict baud rate emulation checkbox if you want to enable baud rate emulation. You can find more details about our virtual serial port and baud rate emulation technologies here.
- Specify IP address (or network name) of the remote end and port number to connect to. Make sure that the port numbers are the same at both ends and are not blocked by firewall.
- You can also specify the port to receive the data, regardless of the port the data is sent to. It may be useful if you create UDP connection with several devices that have the same ports.
- 9. Finally, click **Create connection** button. Once connection is created, you can see it in Connections tree.
- 10. Open local serial port. You may use Windows HyperTerminal utility for this purpose. This step is necessary only if you want to verify whether the connection was created successfully.

- Create UDP connection at the remote end. Repeat steps 1-10 listed above. Make sure that the port numbers are the same at both ends and are not blocked by firewall.
- Now you are ready to start communication process with default settings. You can refer to Editing UDP connection section if you would like to edit a newly established connection.

Serial to Ethernet Toolkit Search a Serial Device Server



- Double click the shortcut = on the desktop.
- Connect a serial device server to the computer and then open the Serial to Ethernet Toolkit.
- 3. Click < Device Management> on the left window.
- 4. Click <Search> button on the right window.
- All the searched devices will be listed on the Device List when the search procedure is finished.

Web console

This Serial server supports the remote configuration using web console on the network. To use the web console, open a web browser (eg., Internet Explorer) and type the IP address which you have set in the **Network and Sharing Center** (string example of Windows $7^{\text{(B)}}$, the actual string is depending on your operating system).

Note: Configure the IP address to 192.168.3.X where the X is between 2 and 254. To set up your computer's IP address, refer to the operating system's instruction manual.



Login the web console, and then click **Submit**. By default, the password is **admin**.

Enter the p	assword to login	n
Password:	•••••	
Submit		

Network settings

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Const	Call Server 1				
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(Charles	SNMP	Enable © Disable			
Real Operating Settings	Community name	public			
Const	Contact				
Cherry Contract of	Location				
Conta		IP Address re	port		
Calconable IP Settings	Auto Report to IP				
* Auto Warning Settings	Auto report to TCP port	4012			
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				a Distance (Protected Marke Of	fe = \$105 ·

Network settings are used to setup network parameters for serial server. User must assign a valid IP address to serial server. Network system administrator will provide you with an IP address and related settings for the network. The IP address must be unique within the network (otherwise, serial server will not have a valid connection to the network).

IP Address

An IP address is a number assigned to a serial server. Computers use the IP address to identify and communicate with the device over the Network. Choose a proper IP address which is unique and valid in the network. By default, the IP address is **192.168.3.22** Default Net Mask will be **255.255.255.0** Default Gateway is **192.168.3.1**

IP Configuration

There are four possible IP Configuration modes, Static, DHCP, BOOTPM and DHCP/BOOTP respectively. These modes are located under the web console screen's IP configuration drop-down box In dynamic IP environments. The firmware will retry 3 times every 30 seconds until Network Settings are assigned by the DHCP or BOOTP server. The timeout for each try increases from 1 second, to 3 seconds, to 5 seconds. If the DHCP/BOOTP server is unavailable, the firmware will use the default IP Address, 192.168.3.22, Net mask, and Gateway for IP settings. The factory default is Static.

DNS Server 1/ DNS Server 2

In order to use serial server's DNS feature, you need to set the IP address of the DNS server to be able to access the host with the Domain Name. Serial server provides DNS Server 1 and DNS Server 2 configuration items to configure the IP address of the DNS Server. DNS Server 2 is included for use when DNS Sever 1 is unavailable. LAN server plays the role of DNS client. Functions that support domain name in serial server are Time Sever IP Address, TCP Client-Destination IP Address, Mail Server, SNMP Trap IP Address, and IP Location Server.

SNMP Settings

Enable or disable SNMP function. The factory default is **Enable**.

Community Name

A community name is a plain-text password mechanism that is used to weakly authenticate queries to agents of managed Network Devices. The factory default is **Public**.

Contact

The SNMP contact information usually includes an emergency contact name and telephone or pager number. The factory default is **NONE**.

Location

Specify the location string for SNMP agents such as serial server. This string is usually set to the street address where the serial server is physically located. The factory default is **NONE**.

IP address report

When serial servers are used in a dynamic IP environment, users must spend more time with IP management tasks. For example, serial server works as a server (TCP or UDP), and the host, which acts as a client, must know the IP address of the server. If the DHCP server assigns a new IP address to the server; the host must take care of what happens when the IP changes. Serial servers help out by periodically reporting their IP address to the IP Location Server, in case the dynamic IP has changed. The parameters shown below are used to configure the Auto IP Report function. There are two ways to develop an Auto IP Report Server" to receive serial server's Auto IP Report.

WiFi settings

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0	Key ID				
Ches	Authentication				
Real Operating Settings	Encryption Key				
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CO _{bat} 2	Net Mask	255,255,255,9			
	Cateway	192 198 2 1			
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* Claim Warning Settings			Submit		
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Change Password					
Cand Factory Delasit					
Clipgrade					
Sevenosat					
Logost					

Mode

- · Infra: Connect via an access point
- · Adhoc: Direct connect to a PC without an access point.

Scan Routers: Click <Scan Routers> to search the available wireless LAN(s), and then select a desired wireless LAN to join.

IP configuration: Enable the DHCP to get an IP address from the wireless router or disable to change the IP address, Subnet mask and Default Gateway.

Encryption: OFF and ON.

Key ID: Select a Key ID which you have set on the connected AP, and then enter the password. The serial server will detect the security mode automatically. **Note:** The password you entered must be the same as configured on the AP.

Serial settings

Senal Senar Man Canada - Window	es Internet Explorer og i bin horigt opilitesiens 13/1ier amps	Maked Mammel	• 2 * X A Dough	
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Done			a lateret (Protected Hock: 01	4 · \$105 ·

Serial Settings page is used to set serial port parameters and request for their status.

All of the items mentioned above will reflect real-time status. If its setting is override by some application setting, it will show the current running setting. To modify serial settings for a particular port, click on desired port number under Serial Settings. Those serial port parameters are meaningful only in multiple connection usage. When used in the single connection scenario, those setting will be override by application settings.

Port Alias

Port alias is specially designed to allow easy identification of the aerial devices which are connected to serial server's aerial port. The factory default is **None** and is optional.

Baud rate

Can be set from 110 bps to 921600 bps. The factory default is **115200** bps.

Data bits

Data bits are 5,6,7,8. The factory default is 8.

Stop bits

Stop bits are 1 ,2. The factory default is 1.

Parity

None, Even, Odd, Space, Mark. The factory default is **None**.

Flow control

Supports None, RTS/CTS, DTR/DSR, Xon/ Xoff. The factory default is **None**.

Interface: RS-232, RS-485/422 (4-wire), RS-485(2-wire)

Operating settings

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Main menu Doctore	Opera	ating Settings					
Benic Settings			Operating Setting	15			
Network Settings		Operating mode	TCP alive check time	Inactivity time	Max Connection		
C 1071 Interes	Port 1	REAL COM MODE	7		1		
Secial Settings	Port 2	REAL COM MODE	7		1		
Conti	Port 3	REAL COM MODE	7	0	1		
Contra Co	Port 4	REAL COM MODE	7	0	1		
Conta Conta							
Operating Settings							
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Change Password							
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Click **Operating Settings** to display the operating settings for all of serial server ports. To configure the desired port, click from left window under **Operating Settings** item.

Note: When the Serial server is under REAL COM mode, the default TCP ports are as follows:

Port 1	1234
Port 2	1235
Port 3	1236
Port 4	1237

Operation mode Real COM mode

CMain menu	Operating Settings	
Controlmer Catalian Settings Catalian Settings Catalian Settings Catalian Settings Catalian Settings Catalian		Pert 1
	Operation mode	Real COMMode •
	TCP alive check time	7 (0 - 99 min)
	Apply the above settings to all ports	
		2000

TCP Alive check time

1 to 99 min: Serial server automatically closes TCP connection if there is no TCP activity for the given time. After the connection is closed, serial server starts listening for another Real COM driver's connection from another host. The factory default is **7** minutes.

TCP server mode

Countries .	Operating Settings		
Citatis Latina	Port 3		
* Chetwork Settings	Operation mode	TCP Server Mode +	
	TCP alive check time	7 (0 - 99 min)	
Describe Settings	Inactivity time	0 (0 - 65535 ms)	
Chast	Max connection	1 (14)	
Contract 2	TCP Server mode		
Citera 1	Local TCP Port	4003	
Cuc.e	Apply the above settings	s to all ports	
* Auto Weening Sottings Change Password Rand Exclory Default Dispande Seeniotestan Rangest		(Submit)	

TCP Alive check time: The factory default is 7 minutes.
0 min: TCP connection is not closed due to an idle TCP connection.

 1 to 99 min: Serial server automatically closes TCP connection if there is no TCP activity for the given time. After the connection is closed, serial server starts listening for another host's TCP connection.

Inactivity time (0-65535 ms): The factory default is 0 ms.

- 0 ms: TCP connection is not closed due to an idle Serial Line.
- 0-65535 ms: serial server automatically closes the TCP connection if there is no Serial data activity for the given time. After the connection is closed, Serial Server starts listening for another host's TCP connection. This parameter defines the maintenances status as Closed or Listen on the TCP connection. The connection is closed if there is no incoming or outgoing data through the serial port during the specific Inactivity time.

If the value of inactivity time is set to 0, the current TCP connection is maintained until there is connection close request. Although inactivity time is disabled, the serial server will check the connection status between the serial server and remote host by sending keep alive packets periodically. If the remote host does not respond to the packet, it assumes that the connection was closed down unintentionally. Serial server will then force the existing TCP connection to close. To prevent the unintended loss of data due to the session disconnected, it is highly recommended that this value is set large enough so that
the intended data transfer is completed. Max connection: The factory default is 1. Max Connection is usually used when the user needs to receive data from different hosts simultaneously. The factory default only allows 1 connection at a time.

- Max. Connection 1: Serial server only allows 1 host to open the TCP connection to the specific serial port.
- Max Connection 2 to 4: Allow 2 to 4 host's TCP connection request to open the specific serial server's serial port, at the same time. When multiple hosts establish a TCP connection to the specific serial port at the same time, serial server will duplicate the serial data and transmit to all of the hosts. Ethernet data is sent on a first-in-first-out basis to the serial port when data comes into serial server from the Ethernet interface.

TCP client mode

CMain menu	Operating Settings	
Chencelone Control Settings Control Settings Control Settings		Port 3
	Operation mode	TCP Cleet/Vode •
	TCP alive check time	7 (0-99 min)
Description Sections	Inactivity time	0 (0-65535 ms)
Charles Contract of Contract o		TCP Client mode
		Destination IP Address
(Closed)	Destination IP Address 1	: 4301
Contra Contra	Destination IP Address 2	: 4001
Accessible IP Settings	Destination IP Address 3	:4001
* Auto Warning Settings	Destination IP Address 4	1401
Change Password	TCP Connect on	Startup II Any Character
Classification Default	Apply the above settings to	etroq la c
		Sidest

TCP Alive check time

- 0 min: TCP connection is not closed due to an idle TCP connection.
- 1 to 99 min: Serial Server automatically closes TCP connection if there is no TCP activity for the given time.

Inactivity time

- 0 ms: TCP connection is not closed due to an idle serial line.
- 0-65535 ms: Serial server automatically closes the TCP connection if there is no serial data activity for the given time. After the connection is closed, serial server starts listening for another host's TCP connection. This parameter defines the maintenances status as Closed or Listen on the TCP connection. The connection is closed if there is no incoming or outgoing data through the serial port during the specific Inactivity time. If the value of inactivity time is set to 0, the current TCP connection is maintained until there is connection close request.

Although inactivity time is disabled, the serial server will check the connection status between the serial server and remote host by sending keep alive packets periodically. If the remote host does not respond to the packet, it assumes that the connection was closed down unintentionally. Serial server will then force the existing TCP connection to close.

UDP mode

Contractor of a section of a	Port3					
Chaterick Sections	Operation mode	UDP Mode				
ROTation Testings		UDP mode				
Coversion Settions		Degin	End	Port		
Const Const	Destination IP Address 1			: 4001		
	Destination IP Address 2			: 4001		
Conta Conta	Destination IP Address 3			: 4001		
Contain the Continue	Destination IP Address 4			: 4001		
Change Pastings	Local Listen Port	4003				
	Apply the above settings to all ports					
		Submit				

Destination IP Address 1: Setting destination IP address 1, allows serial server to connect actively to the remote host whose address is set by this parameter.

Destination IP Address 2 / 3 / 4: Destination IP address 2/3/4, allows serial server to connect actively to the remote host whose address is set by this parameter.

Local Listen Port: The UDP port that serial server listens to and those other devices must use to contact serial server. To avoid conflicts with well-known UDP ports, the default is set to 4001.

Accessible IP settings

Serial server has an IP address based filtering method to control access to the serial server. Accessible IP Settings allows you to add or remove legal remote host IP addresses to prevent unauthorized access. Access to serial server is controlled by IP address. That is, if a host's IP address is in the accessible IP table, then the host will be allowed access to the serial server.

You can allow one of the following cases by setting the parameter in any of the 16 rules.

Settings	No.	Active the rule	IP Address	Netmask
d Deliver	1	10		
Settings	2	13		
Settings	3			
	4	8		
	5	12		
	6	12		
ing Settings	7			
	8	23		
	9	12		
	10	13		
ble IP Settings	11	17		
arning Settings	12	11		
or RMP loss	13	11		
Date .	14	11		
Passana Padanak	15			
and a second sec	16	-		

- Only one host of specific IP address can access the serial server.
 - Enter IP address/255.255.255.255 (e.g., "192.168.1.1/ 255.255.255.255").
- Hosts on the specific subnet can access the serial server.
 - Enter "IP address/255.255.255.0" (e.g., "192.168.1.0/2 55.255.255.255").
- Any Host can access the serial server.
 - Disable this function. By default the accessible IPs list is disabled.

Auto warning wettings

E-mail and SNMP trap

Clain menu Chronies Classic Settings Classic Settings Classic Settings Classic Settings	Auto warning: Email and SNMP trap				
		Mail server			
	Mail server				
	Ny server requires authentication User name Password				
- Call	From E-Mail address				
(Const)	E-Mail address 1				
Posts	E-Mail address 2				
*** Operating Settings	E-Mail address 3				
Contract Contract	E-Mail address 4				
Contract Contract		SNBP trap server			
Constant Section 201	SNMP trap server IP or domain name				
Caccessible IP Settings					
* Auto Warning Settings		Subrit			
Constant DMP has					
Change Password					
Cod Factory Deleak					
Clipgrade					
Saveinetat					
Logost					

<Mail server>

Enter the mail server IP address for the serial server to send auto warning mails to the mail server. If the mail server requires authentication, tick **My server requires** authentication check box and enter the User name / Password.

<From E-mail address1/2/3/4>

Input the Email address of the recipient to receive auto warning mails.

<SNMP trap server IP or domain name>

Input the SNMP trap server IP address or domain name for auto reporting.

Event type

Overview	Cold alard	10.00-0	10.000	
Casic Settings	Cold start	E Mail	E Trap	
Wetwork Settings	Warm start	🗄 Mail	E Trap	
Contrast Indicas	Authentification failure	C Mail	C Trap	
Constructions	IP address changed	CMail		
Secial Settings	Password changed	C Mail		
Cont				
Const.			Submit	
CO _{Del}				
Catal				
Coverating Settings				
Concerning Settings				
Operating Settings Chart Chart				
Characting Settings Charact Charact Charact				
Concording Sections Concord				
Concerning Settings Concerning Concernin				
Decoding Settings Chara				
Characting Settings				
Consisting Settings Desci De				
Constant Settings Const				
Concerning Settings Concerning Co				
Concerning Settings Charat Cha				
Controlog, Settings Chara: Char				

<Cold start>

This refers to start the system from power off (contrast this with Warm start). When performing a cold start, serial server will automatically issue an auto warning message by e-mail, or send an SNMP trap after rebooting.

<Warm start>

This refers to restart the computer without turning the power off. It's the opposite of cold start. When performing a warm start, serial server will automatically send an e-mail, or send an SNMP trap after rebooting.

<Authentication failure>

The user inputs a wrong password from the console or administrator. When authentication failure occurs, serial server will immediately send an e-mail or send an SNMP trap.

<IP Address changed>

The user has changed serial server's IP address. When the IP address changes, serial server will send an e-mail with the new IP address before serial server reboots.

If the serial server fails to send mail to the mail server after 15 seconds, serial server will be rebooting directly and abort the mail auto warning.

<Password changed>

The user has changed serial server's password. When the password changes , serial server will send an e-mail with the password change notice before serial server reboots. If the serial server fails to send mail to the mail server after 15 seconds, serial server will be rebooting directly and abort the mail auto warning.

<Mail>

This feature helps the administrator manage the serial server. Serial server sends mail to pre-defined mail boxes when the enabled events—such as cold start, warm start, authentication failure, etc.—occur. To configure this feature, click on the event type box.

<Trap>

This feature helps the administrator manage the serial server. Serial server send SNMP Trap to a pre-defined SNMP Trap server when the enabled events—such as cold start, warm start, authentication failure, etc.—occur. To configure this feature, you need to click on the event type box.

Change password

Input the Old password and New password to change the password. Leave the password boxes blank to erase the password.

CNain menu Connine Charic Settings	Change Password			
* Chebecok Settings	Old password			
Const. Jettings	New password			
anti Jettos	Confirm password			
* Secial Settings	Easting the Reserved	~		
- the t				
Cons2			Channe	
Chest Chest				
Province Sections				
Deal				
Ones				
(Chang)				
Conta				
Catconsible IP Settings				
* Auto Warning Settings				
Could and Shift Tap				
Constitue				
Change Password				
CLosd Factory Delasit				
Upgrade				
Savebostan				
Lagost				

In this case, the serial server will not have password protection. If user forgets the password, the ONLY way to configure serial server is by using the Reset button on serial server's casing to Load Factory Default. (default password is **admin**)

Load factory default

This function will reset all of serial server's settings to the factory default values.

Main menu	Restore Factory Settings
Contractione	
Basic Settings	Do you want to restore factory default settings?
* Chebrook Settings	Results factory defaults
Contrast Sections	
C and a bellines	
Seriel Settings	
Const	
Ones	
Const.	
Const.	
Correcting Settings	
Carnet	
COnvert 1	
Concert and a second se	
Come	
Calconsible IP Settings	
* Catato Warning Settinos	
Constant from the	
Concernit Taxes	
Change Paseword	
Cond Factory Default	
Clinerada	
- Constant of	
Cload Factory Delast Obgatele Secolostat	

The console must prompt the warning message to the users to notice them that previous settings will be lost.

Upgrade

The Upgrade page enables user to upgrade firmware from web console.

CMain menu	Firmware Upgrade				
Construction	Device IP address				
* Network Settings	TFTP Server IP				
Const. Settings	Filename				
3071 Johnson					
Seriel Settings	Upgrade Clear				
Contract Con					
(Charles)					
Contra 1					
Decating Settings					
Contract of the second					
Contract 2					
Cate					
Contract of the second					
Receiver in Section					
Contracting Strategy					
Const for					
Change Password					
Cod Factory Delesit					
Upgrade					
Savelentat					
CLogost C					

The upgrade option needs a TFTP Server program which needs to be run on the client PC from where the complete firmware Image is to be downloaded onto the serial server board.

The Device IP Address displays the IP address of the serial server.

Enter the TFTP server IP Address and the Filename of the update file, and then click **Upgrade**. The firmware will be completely upgraded.

Save/Restart

This function is used to save current setting and automatic restart the serial server.

CMain menu	Save/Restart
Contraction of the second	Plance obth Resided in head with one configuration
FORthersk Settings	Warning? Reboot will disconnect both serial and Ethernet connections and data maybe lost.
Und failure	Restat
C and a bellines	
Carles Settings	
Const	
Contra	
- mail	
Conta Conta	
Operating Settings	
Cont	
- the second	
Contract Con	
Chevrosoltin ID Continue	
* Class Warning Settings	
Constant for the loss	
Contrast Taxa	
Change Password	
Cand Factory Default	
Clipgrade	
Sevelostat	
Logost	

Click **Submit** to save and restart the serial server. Warning!! Reboot will disconnect both serial and Ethernet connections and data maybe lost.

Telnet console

Serial server implements a telnet server and can be invoked by making a telnet from remote PC.

- 1. Enable the **Telnet Console** function from **Windows Configuration Utility**.
- 2.Go to Start Menu > Run.
- Run telnet from remote pc with the IP address of serial server.

Run 💽 🔀
Type the name of a program, folder, document, or Internet resource, and Windows will open it for you.
Qpen: Intel 192.155.245
OK Cancel Browse

Main menu

- As soon as the telnet console is opened, it comes with an authentication screen displaying the Model Name, MAC Address, Serial Number and the Firmware version.
- 2. Enter the Password.



- 3. The Main menu contains following options
 - (1) Basic Settings: To configure basic settings like Server Name, Time Zone, Real Time Clock, Time server IP address, Enable/Disable Web and Telnet Consoles.
 - (2) Network Settings: To configure Network settings like IP Address, Net mask, Gateway, IP Configuration, DNS, SNMP and Auto IP Report.
 - (3) Serial Settings: To configure serial communication parameters like Baud Rate, Data bits, Stop bits, Parity and Flow control.
 - (4) Operating Settings: To configure operating settings like Operating Mode, TCP Alive Check and Inactivity.
 - (5) Accessible IP Settings: To configure accessible IP settings which allows you to add or remove Legal remote host IP addresses to prevent unauthorized access.
 - (6) Auto Warning Settings: To configure auto warning settings which sends the status messages to email id's and trap servers in order to warn or acknowledge the changes made in the serial server.
 - (7) Monitor: To monitor the serial line and sync settings in order to know the current status of serial server.

- (8) Ping: To test whether a particular host is reachable across an IP network.
- (9) Password Settings: To configure password settings like Enable / Disable Password or giving new password to the serial server.
- (a) Load Factory Defaults: To set the serial server to factory defaults.
- (v) View Settings: To view all the settings made in the serial server.
- (s) Save/Restart: To give soft restart.
- (q) Quit: To quit from the telnet console.

1. Basic settings

<< Main Menu >>

Type <1> and then press <Enter> on Main Menu screen to access Basic settings screen.



<<Main Menu -- >Basic settings >> 1-1. Type <1> and set the Server Name.



Note that the **Server Name** should not be more than 7 characters and no space should be allowed between characters.

1-2. Type <2> to set the Time zone for the serial server.

(0) (GMT-12:00) Kwajalein
(1) (GMT-11:00) Midway Island, Samoa
(2) (GMT-10:00) Hawaii
(3) (GHT-09:00) Alaska
(4) (ONT-08-00) Parific Time(USA & Canada)
(S) (GMT-07:00) Arizona
26) (Get-02-00) Mountain Time(USA & Canada)
(7) (GHT-05:00) Mexico
(B) (MT-05-00) Cantrol Time(USA & Constal)
(9) (Off-05-00) Indiana East Colombia Danama
24 John Of 1997 England Line Corte & Chandra
Carl Control Carlos and Carlos an
(b) (Q41+04:00) B011912, Venezuela
(c) (deri-de.do) Actarcic Time(canada), Braziri wesc
Col Covi-ostsoj Newtouno rano
(e) (GMT-03:00) Guyana
(T) (GMT-03100) Brazil East, Greenland
(g) (GMT-02:00) Nid-Atlantic
(h) (GRT-01:00) Azores
(1) (GMT)Gamb1a, L1ber1a,Morocco
(j) (GMT)Greenwich mean time
(n) Next Page
Enter Your Selection:

Select the **Time zone** for the serial server from the list displayed. Enter your selection 0-9 or a-j to set the **Time Zone** or type <n> to go to next page of **Time zone** screen and press <**Enter**>.



1-3. Type <3> to set the Local time and enter the Year, Month, Day, Hours, Minutes and Seconds for the local time information.



1-4. Type <4> to set the Time server for the serial server. Enter the IP address of the Time Server which you want to synchronize in time with the serial server.



1-5. Type <5> to access the Web console screen and type the number 0 or 1 to **Disable** or **Enable** the web console. (Web console was enabled by default).



1-6. Type <6> to access the Telnet console screen and type the number to Disable or Enable the telnet console. (Telnet console was enabled by default).



1-7. Type <**V**> to view the **Basic Settings** applied to the serial server, and then press <**Enter**>.



1-8. Type <m> to go back to the Main Menu. If any option in Basic Settings page was configured, telnet console will ask to save Settings.



 Type <1> to save changes or type <0> to quit without saving.

2. Network settings

<< Main Menu >>

Type <2> and then press <Enter> on the Main Menu to access network settings screen.



- << Main Menu -- >Network settings >>
- 2-1. Type <1/2/3> to change the settings of IP address / Net mask / Gateway of serial server respectively.



2-2. Type <4> to set IP configuration, and then type the number to set the IP Configuration.



2-3. Type <5/6> to set DNS 1 / DNS 2 servers. Give the IP Addresses of the DNS Servers.



2-4. Type <7> to Disable or Enable the SNMP.



2-5. Type <8> to set SNMP Community Name. Give any name. By default it is Public.



2-6. Type <9> to set SNMP contact. Give any name.



2-7. Type <a> to set SNMP location.



2-8. Type to set Auto IP Report. Give the IP address of the client PC to which the serial server has to give the auto IP report.



2-9. Type <c> to set Auto IP report to TCP port. Give the TCP Port No. of the client PC to which the serial server has to give the auto IP report. By default its value is 4002.



2-10. Type <d> to set **Auto IP report** period <0-99 secs>. By default its value is 10 secs.



2-11. Type <v> to view the settings, and then press <**Enter**>.



2-12. Type <m> to go back to the previous menu, and then press <Enter>. If any option in Network Settings page was configured, telnet console will ask to save Settings. Type <1> to save changes or type <0> to quit without saving.

3. Serial settings

<< Main Menu >>

Type <3> and then press <Enter> on the Main Menu to access serial settings screen.



<< Main Menu -- >Serial settings >>

Type <**1/2/3/.....**> and then press <**Enter**> to set the serial settings for the ports 1/2/3/.... respectively. The serial port settings has the menu shown below:



<<Main Menu -- >Serial settings -- > Port 1/2/3.....>> 3-1. Type <1> to set the Port Alias.



Note that **Port Alias** should not be more than 5 characters and no space should be allowed between characters.

3-2. Type <2> to access the **Baud rate** screen, and type the number to set **Baud rate**.



3-3. Type <3> to access the **Data bits** screen, and type the number to set the **Data bits**.



3-4. Type <4> to access the Stop bits screen, and type the number to set the Stop bits.



3-5. Type <5> to access the **Parity** screen, and type the number to set the **Parity**.



3-6. Type <6> to access Flow control screen, type the number to set the Flow control.



3-7. Type <7> to display the Interface.



Note that this model supports only RS232/RS-422/RS-485 Interface.

3-8. Type <8> to configure settings Apply to all ports.



3-9. Type <v> to view the settings of the Port.



3-10. Type <m> to go back to the previous menu. If any option in Serial Port Settings page was configured,

telnet console will ask to save settings. Type <1> to save changes or type <0> to quit without saving. Again type <m> to go back to **Main Menu**.

4. Operating settings

<<Main Menu >>

Type <4> and then press <Enter> on the Main Menu to access operating settings screen.



<<Main Menu -- >Operating settings >>

Type <**1/2/3**/......> to set the operating settings for the respective ports 1/2/3/....., and then press <**Enter**>.



<<Main Menu -- >Operating settings -- > Port 1/2/3/.... >> Type <1> to access the Operating mode of port, and type number to set the operating mode.



4-0. Real com mode

1. Real com mode is set with "0".... Following screen appears while entering into **Real Com Mode**.



By default, operating mode for all ports is **Real Com Mode**.

 Type <2> to set TCP Alive check time from the range (0-99 min). By default its value is 7 mins.



3. Type <3> to configure settings apply to all ports.



 Type <v> to view the settings made in Real Com mode as below.



 Type <m> to go back to the previous screen. If any option in Operating Port Settings page was configured, telnet console will ask to save settings. Type <1> to save changes or Type <0> to quit without saving.

4-1. TCP server mode

 Real com mode is set with "1".... Following screen appears while entering into TCP Server Mode.



Type <2> to set TCP Alive check time from the range (0-99 min). By default its value is 7 mins.



3. Type <3> to set Inactivity time from the range (0-65535 ms). By default its value is 0 ms.



 Type <4> to set the Max connection from the range (1-4). By default its value is 1.



Note that the **Real Com Mode** only 1 connection per port is allowed at a time, for other modes max connection setting applies. Type <5> to set the Local TCP Port. By default its value is 4001.



6. Type <a> to configure settings apply to all ports.



Type <v> to view settings made in TCP Server Mode as below.



 Type <m> to go back to previous screen. If any option in Operating Port Settings page was configured, Telnet Console will ask to save settings. Type <1> to save changes or type <0> to quit without saving.

4-2 TCP Client Mode

 Real com mode is set with "2".... Following screen appears while entering into TCP Server Mode.



2. Type <2> to set **TCP Alive check time** from the range (0-99 min). By default its value is 7 mins.



Type <3> to set Inactivity time from the range (0-65535 ms). By default its value is 0 ms.



 Type <4 / 6 / 8 / a> to set the Destination IP Address 1 / 2 / 3 / 4.



 Type <5 / 7 / 9 / b> to set the Destination Port 1 / 2 / 3 / 4 from the range (0-65535). By default its value is 4001.



 Type <c> to set the TCP Connect ON Mode. Type
 to select Start up mode or Type <1> to select Any Character mode. By default the Connect ON Mode is Start up.



7. Type <d> to configure settings apply to all ports.



Type <v> to view settings made in TCP Client Mode as below.



 Type <m> to go back to previous screen. If any option in Operating Port Settings page was configured, telnet console will ask to save settings. Type <1> to save changes or type <0> to quit without saving.

4-3 UDP Client/Server Mode

 Real com mode is set with "3".... Following screen appears while entering into UDP Client/Server Mode.



2. Type <2 / 5 / 8 / b> to set Destination IP End Address 1 / 2 / 3 / 4.



3. Type <3 / 6 / 9 / c> to set Destination IP End Address 1 / 2 / 3 / 4.



 Type <4 / 7 / a / d> to set Destination Port 1 / 2 / 3 / 4 from the range (0-65535). By default its value is 4001.



5. Type <e> to set Local Listen Port from the range (0-65535). By default its value is 4001.



6. Type <f> to configure settings apply to all ports.



 Type <v> to view the settings made to UDP Client/ Server Mode as below.



 Type <m> to go back to the previous screen. If any option in Operating Port Settings page was configured, Telnet Console will ask to save Settings. Type <1> to save changes or Type <0> to quit without saving. Again type <m> to go back to Main Menu.

5. Accessible IP settings

<< Main Menu >>

Type <5> on the Main Menu, and then press <Enter> to access Accessible IP settings page.



- <<Main Menu -- >Accessible IP Settings >>
- Type <0> to Enable Accessible IP List. Type <1> to enable or type <0> to disable.



 Type <1~g> to activate the rules 1~g. To activate the rules, type 1 to enable or type <0> to disable. Then type the IP address and Net Mask on each rule to allow the authorised clients in order to access serial server.



 Type <v> to view the settings made on Accessible IP Settings page.

key in your selecci		
Eaching the access?	ald TO list anable	
chapte one accessi	and an array of the second	ACC ACC ACC 4
Ruite I enublie		
Rule 2 I onsabile		
Rule 3 disable		
Bule 4 disable		
Jule 5 disable		
Rule 6 disable		
Rule / chsable		
Rule 8 chsable		
Rule 9 disable		
Rule 10 disable		
aule 11 dirthle		
tule 12 diashle		
Note 12 Greating		
Rule 13 015401e		
Rule 14 disable		
Rule 15 disable		
Rule 16 disable		
Brass Any Value To Co.		
FIGURE AND THE CO		

4. 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

 Type <m> to go back to the previous menu. If any rule in Accessible IP Settings page was configured, telnet console will ask to save settings. Type <1> to save changes or <0> quit without saving.

6. Auto warning settings

<< Main Menu >>

Type <6> on the Main Menu, and then press <Enter> to access Auto warning settings page.



<< Main Menu -- >Auto warning settings>> 6-1 Email and SNMP trap

Type <1> to access Email and SNMP trap.



- << Main Menu -- >Auto warning settings -- >Email and SNMP Trap >>
- Type <1> to set the Mail server. Give the IP address of the mail server.



 Type <2> to set the My server requires authentication screen, Enable if the mail server requires authentication and set the user name and password. Disable if authentication is not required.



3. Type <3> to set From account address.



4. Type <4 / 5 / 6 /7> to set the Email address 1 / 2 / 3 / 4.



5. Type <8> to set the SNMP Trap server IP or domain name.



Type <v> to view the settings made in Email and SNMP strap page.



 Type <m> to back to the previous menu. If any option in Email and SNMP trap page was configured, telnet console will ask to save settings. Type <1> to save changes or type <0> to quit without saving. 6-2 Event type << Main Menu -- >Auto warning settings >> Type <2> to access Event type.



- << Main Menu -- >Auto warning setting -- >Event type >> 1. Type <1> to set the event Cold start. We can enable the
 - auto warning methods: Mail or Trap.



 Type <2> to set the event Warm Start. We can enable the auto warning methods: Mail or Trap.



3. Type <3> to set the event Authentication Failure. We can enable the auto warning methods: Mail or Trap.


Type <4> to set the event IP Address Changed. We can only enable the auto warning method: Mail.



5. Type <5> set the event **Password Changed**. We can only enable the auto warning method: **Mail**.



6. Type <v> to view the settings made in Event Type page.



 Type <m> to back to the Main Menu. If any option in Event Type page was configured, telnet console will ask to save settings. Type <1> to save changes or <0> quit without saving.

7. Monitor

<< Main Menu >>

Type <7> on the Main Menu, and then press <Enter> to access Monitor settings page.



<< Main Menu -- >Monitor >>

 Type <1> to monitor the Line status of serial server serial ports, and then press <Enter> to quit.

Port 1 2 3 4	Mode REAL_COMM REAL_COMM REAL_COMM REAL_COMM	IP1 TCP_LISTEN TCP_LISTEN TCP_LISTEN TCP_LISTEN	192	193
Press	Enter to qui	t		

 Type <2> to monitor the Async status, and then press <Enter> to quit.



 Type <3> to monitor the Async-Setting status, and then press <Enter> to quit.

Port	Baudrate	Bits	Parity	Stop	RTS/CTS	XON/XOFF
1	460800		None			
2	460800		None			
3	460800		None			
4	460800		None			
Press	Enter to g					

4. Type <m> to go back to the Main Menu.

8. Ping

<< Main Menu >>

Type <8> on the Main Menu, and then press <Enter> to access Ping settings page.

nput target host IP address:_

Give the Target Host IP address and press <Enter>. Type <Ctrl-c> to stop the ping and to go back to Main Menu.

Input target host IP address:192.168.2.36 PING 192.168.2.36 (192.168.2.36): 56 data bytes 64 bytes from 192.168.2.36: tom_seq=1 ttl=128 time=0.6 ms 64 bytes from 192.168.2.36: torm_seq=1 ttl=128 time=0.6 ms

If the IP Address of DNS Server is given in **Network Settings** page, then we can translate the **Domain name** given in this ping option to IP address. See the screen below.

> Input target host IP address:www.moschip.com PING www.moschip.com (209.216.203.97): 56 data bytes

9. Change password

<< Main Menu >>

Type <9> on the Main Menu, and then press <Enter> to access Password Settings page.



<< Main Menu -- > Password Settings>>

 Type <1> to Enable password to the serial server. Type <1> to Enable or type <0> to Disable the Password Status.



 Type <2> to Change the Password of the serial server. Enter the Old Password. Then give the New Password and then Re-enter New Password.



10. Load factory defaults

<< Main Menu >>

Type <a> on the Main Menu, and then press <Enter> to access the Load factory Defaults settings page.



Regulatory compliance

FCC conditions

This equipment has been tested and found to comply with Part 15 Class B of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference

(2) This device must accept any interference received and include interference that may cause undesired operation.

CF

This equipment is in compliance with the requirements of the following regulations: EN 55 022: CLASS B

WEEE information

For EU (European Union) member users: According to the WEEE (Waste electrical and electronic equipment) Directive, do not dispose of this product as household waste or commercial waste. Waste electrical and electronic

equipment should be appropriately collected and recycled as required by practices established for your country. For information on recycling of this product, please contact your local authorities, your household waste disposal service or the shop where you purchased the product.



CE



Specification

Item	Description
Ports	4xRS-232/422/485
Connector	8-pin RJ-45
FIFO	512 bytes
ESD protect	15KV ESD, 3KV isolation (RS-485)
Transmission Speed	110bps~921.6Kbps
Interface	GigaLAN / Wi-Fi
Interface connector	RJ-45 / Antenna
Power requirements	5V3A DC / 9~36 VDC
Operating	0 ~ 55°C
temperature	
Operating humidity	5 ~ 95% RH
Regulatory approvals	FCC / CE

FCC INFORMATION

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

 This device may not cause harmful interference, and 2. This device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

--Reorient or relocate the receiving antenna.

--Increase the separation between the equipment and receiver.

--Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

--Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

RF Exposure: A distance of 20 cm shall be maintained between the antenna and users, and the transmitter module may not be co-located with any other transmitter or antenna.



4-Port Wireless Serial Device Server User's Manual