

rBOX610 Series

Robust Din-rail Fanless Embedded System – Web Configuration and App

Software User's Manual



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Chapter 1 Introduction

The rBOX610 comes with a set of application software providing functionalities like Serial Server, Modbus Gateway, 3G Configuration, GPS Configuration, DIO Configuration, SNMP, Alarm, and etc. Users also can download this package from website given below and install it on rBOX610.

http://www.axiomtek.com/Download/Download/rBOX610/rBOX610AP-2.2.2.tar.gz



Software Structure

The rBOX610 comes with a set of application software including Serial Server App, Modbus Gateway App, 3G App, GPS App, and Apps for DIO Configuration, SNMP, Alarm, and etc.

Through web browser, user can communicate with Web Server App for configuring Apps like Serial Server App, Modbus Gateway App, 3G App and etc. After set up, setting values are stored in a configuration file which is simultaneously used by Web Server App and other Apps.

Some data are stored in EEPROM, which will be read by some Apps when being executed. To ensure normal functioning of the Apps, it is strongly recommended that you should avoid modifying these data.

1.1 Specifications

- OS: Linux
 - Kernel: 2.6.35.3 (with Freescale and Axiomtek hardware modified patch)

• Support Protocol Types

- ICMP
- TCP/IP
- UDP, DHCP, Telnet, SNMP, HTTP, HTTPS, SSL, SMTP, ARP, NTP, DNS, PPP, PPPoE, FTP, TFTP

Protocol in Details

- SNMP
 - Support V1/V2C/V3
 - Support SNMP Private MIB
 - Support read/write
- HTTP/ HTPPS
 - Support SSL
 - Support configuration Import/ Export

• Support Software Types (Developed by Axiomtek)

Serial Server

- Support TCP Server/ TCP Client/ UDP/ Pair/ VC
- Support IP filter
- Support 32 TCP connections
- Support QoS

Modbus Gateway

- Support Modbus TCP/ Modbus RTU/ Modbus ASCII
- Support IP filter
- Support 32 connections
- Support TCP for multiple comport
- Support QoS
- 3G
 - Support user name/password
 - Detect signal strength
- GPS
 - Detect signal strength
 - Support satellite positioning

• Support Functionalities

- Remote Manager
 - Remote log (coming soon)
 - Email
 - SNMP
 - Support Trap
- Serial Port Redirector for Windows[®]
 - Windows[®] XP/ Windows[®] 2003 (32-bit, 64-bit)/ Windows[®] 7 (32-bit, 64-bit)/ Windows[®] Vista (32-bit, 64-bit)/ Windows[®] 2008 (32-bit, 64-bit)
 - Real com (visual com)
 - Centralized management
 - Import/ Export for real com

Default Reading

- Support default reading for MAC, IP and Model No

Support Hardware I/O •

- **Digital I/O** Read digital input
 - Write digital output
- СОМ
 - RS-232/422/485 mode setting



All specifications and images are subject to change without notice.



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Chapter 2 Getting Started

2.1 Install the Application

Follow steps below to install the application package on rBOX610.

- 1. Download rBOX610AP-2.2.2.tar.gz.
- To extract the compressed file. For Windows[®] users, you may use the WinRAR compression software utility. For Linux users, extract the source tar ball with the following command: \$ tar zxf rBOX610AP-2.2.2.tar.gz
- 3. Now you can see the following 3 files:
 - rBOX610AP: Application package installation program.
 - uninstall.sh: A script file for uninstalling application package.
 - readme: A readme file.
- 4. Copy rBOX610AP and uninstall.sh to USB flash drive.
- 5. Boot up the rBOX610 and mount USB flash drive.
 \$ mkdir -p /mnt/usb
 \$ mount /dev/sda1 /mnt/usb
 \$ cp /mnt/usb/rBOX610AP /root
 \$ cp /mnt/usb/uninstall.sh /root

Install the application. \$ cd /root \$./rBOX610AP If you see the message 'Install success', then please reboot rBOX610. \$ reboot 6. After successful installation, the App LAN1 default IP address is 192.168.0.254 and LAN2 default IP address is 192.168.10.1. Open a web browser and key in the IP address into web browser's address bar. Then you can see the following web.config page displayed.



Please enter the default password "admin" when you login the web configuration page under Web App.

2.2 Uninstall the Application

Follow steps below to uninstall the application package from rBOX610.

- Execute uninstall.sh to uninstall the application.
 \$ cd /root
 \$ sh uninstall.sh
- 2. Reboot rBOX610. \$ reboot

Chapter 3 Application Software

3.1 Web Configuration

Web Server App not only acts as Web portal from where user can configure Apps like Serial Server, Modbus Gateway, 3G, GPS, but also provides functionalities for configuring system time, alert by email or SNMP trap, enabling digital input/output, changing password, restoring factory default configuration, configuration file import/export and restarting system.

Follow instructions below for web configuration.

- 1. Login the rBOX610.
- 2. Open a web browser and key in the IP address: 192.168.0.254, into web browser's address bar. Then you can see the following web-based login page displayed.



- 3. Enter the factory default password: admin.
- 4. Then click the "Submit" button to login to the overview manual.

• Overview Menu:

This system overview window gives the general information on rBOX610.



Protocol Mode:

There are 3 protocol modes: None, Serial Server and Modbus; which stands for 3 different controlling Apps. If None mode is selected, Web Server App takes control, all four COM ports are disabled (not used by application) which means users are allowed to develop COM port related programs, and the overall menu keep unchanged.

If Serial Server mode is selected, the controlling App is Serial Server App, and the following menu items change in accordance to allow applicable configuration. If Modbus mode is selected, the controlling App is Modbus Gateway App, and the following menu items change in accordance to allow applicable configuration.

• In None Mode: Web Server App takes control.

Choose None from the "Protocol Mode" drop-down list. Click "Submit" button when you have finished setting protocol mode.



Basic Network:

In Basic Network Settings page, users are allowed to edit Network Settings and Time Settings.

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IP configuration

Click "IP configuration" drop-down menu to choose Static or DHCP from the drop-down list. User can manually assigns (if Static is selected) or DHCP server automatically supplies (if DHCP is selected) an IP address, gateway address and subnet mask to Modbus Gateway.

IP address

Click in "IP address" text box and type a new address to change the IP address.

Netmask

Click in "Netmask" text box and type a new address to change the Netmask.

Gateway

Click in "Gateway" text box and type a new address to change the Gateway.

DNS server 1, 2, 3

Click in "DNS server 1", "DNS server 2" or "DNS server 3" text box and fill in DNS information.

• System Time:



Time zone (24-hour)

Click "Time zone" drop-down menu to select a different time zone from the drop-down list.

Local time

Click in "Local time" text box to set date and time .

Time server

Click in "Time server" text box to enter time server address. Check this option to enable time server.

• Alarm Type:



If "Trap" or "Email" is checked, when event occurs the alarm message will be sent out by email or SNMP trap respectively.

Message	Event	
Log-in password error	Login with wrong password.	
Password has been reset	Change password.	
IP has been modified	Change IP address (should plug power off and on).	
Serial port status change System has warm-started	Change serial port or mode configuration.	
Accessible IP status change Device has warm-started	Access Control List changed.	
Device has warm-started	Port restart.	
Serial port status change Device has warm-started	Change serial port or mode configuration.	
Reset to Default (keep networking settings)	Restore factory defaults (keep networking settings).	
Reset to Default	Restore factory defaults (all).	
Device has started System has cold-started	Power plug on.	
DI(DO) NO. status – High(Low)	DIO status changed.	
Interface(eth0,ppp0) status – Link up(down)	Network interface link up or link down.	

• Email Alert:

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SMTP Host

Click in "SMTP Host" text box and enter IP address of the SMTP (Simple Mail Transfer Protocol) host.

SMTP Port

Click in "SMTP Port" text box and enter the SMTP port number. The default SMTP port number is 25.

Login ID

Login the account of SMTP.

Password

Login the password for SMTP.

Sender

Sender's name.

Sender Email address

Sender's mailbox.

E-mail address 1~4

Click in "E-mail address 1~4" text box and specify email addresses for receiving emails. Use this option to enable email address 1~4 by checking the "Enable" box.

• SNMP Trap:

This option is for IP address of remote SNMP trap receiver. Click in the text box and enter IP address of the remote SNMP trap receiver.



Once you have finished entering IP address, click the "Submit" button.

• 3G:

This option is for 3G settings.



3G

Choose "Enable" to connect 3G. Or choose "Disable" to unlink 3G.

APN

Click in the text box and enter access point name.

Dial number

Click in the text box and enter dial-up number.

Username

Click in the text box and enter username.

Password

Click in the text box and enter password.

• DIO:

This option is for digital input and output read/write.



DI1~4

Read only. The text boxes show status levels on digital inputs.

DO1~4

Read/write. Write high/low state to digital outputs, and read high/low state from digital outputs. The state read back is the current status level on digital output pin. It doesn't represent the status level after digital output pin is connected to external device.

• GPS:

This option is for GPS settings.



GPS engine

Choose "Enable" to allow GPS to send out data. Or choose "Disable" to close GPS.

Display raw data on web page

Select raw data format to display on web page.

GPS update frequency

You can determine how often GPS raw data is updated. If global positioning fails, the update frequency value will be ignored and directly set to 1sec. If global positioning succeeds, this setting value automatically takes effect.

GPS data redirect

Send GPS raw data to LAN. Only activated if the option box is checked.

GPS data redirect port

Similar to the tcp port, its default value is 5208. This option is read only.

GPS data redirect max client

The maximum connections are 4. This option is read only.

• Change Password:



Old password

Click in the text box and enter old password of user admin.

New password

Click in the text box and enter new password of user admin.

Confirm password

Click in the text box and enter new password again to confirm.

When you have finished changing password, click the "Submit" button.

• Restore Factory Default:



Restore factory defaults (all)

Check this option to restore Apps to its factory default values.

Restore factory defaults (keep networking settings)

Check this option to restore Apps to its factory default values, but keep the networking settings.

When you have finished restoring factory defaults, click the "Submit" button.

• Import Configuration:

Re-configure and then import the configuration file. After reboot, the rBOX610 will use the new imported configuration file.



• Export Configuration:

Export the configuration file of rBOX610.

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3.2 3G App

The rBox610 embeds 3G module providing the third generation wireless broadband network. The 3G App monitors 3G module operating information. For 3G configuration, see section 3.1 Web Configuration.

• 3G Status:

Display 3G status.

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Operator

Show 3G operator.

Signal intensity

Show 3G signal intensity.

IP address

The IP address obtained if 3G dial-up is successful.

Tx packets

Total number of packets transmitted.

Rx packets

Total number of packets received.

Tx bytes

Total number of bytes transmitted.

Rx bytes

Total number of bytes received.

3.3 GPS App

The rBox610 embeds GPS receiver module that receives location and time data from a space-based navigation system (Global Positioning System). The GPS App reads and displays these data, giving a way to locate rBox610 itself. For GPS configuration, see section 3.1 Web Configuration.

• GPS Information:

Display GPS status, longitude, latitude, altitude, average speed, azimuth, data time and raw data.

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Protocol Settings		GPS information	
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System Monitoring	Latitude		
D 3G Status	Altitude	-	
GPS Status	Average Speed		
🖲 🔁 Restart	DateTime	2 - 12	
		\$GPGSV,4,1,16,10,18,,24,,14,*70	
		\$GPGSV,4,2,16,25,08,09,23*7F	
		\$GPGSV.4.4.16.041117037F	
		\$GPRMC_VN*53	
		\$GPGSA,A,1	
	Raw data	\$GPVTG_T_M_N_K_N*2C	
		refresh	

GPS Status

Can't find GPS device: GPS device is not installed. The engine is disabled. Searching for satellite: Unlocated. Position fixed: Positioning.

Date Time

Display current time of GPS.

Raw data

Display current raw data of GPS.

• Restart System:

Click the "Restart" button to restart the rBox610.



3.4 Serial Server App

Choose Serial Server from the "Protocol Mode" drop-down list to change to Serial Server function. Click "Submit" button when you have finished setting protocol mode.



• Bind Network Interface

Select the network interface used for transmitting and receiving data packets. This feature is limited to Serial Server and GPS data redirect only.



The selection list includes eth0, eth1 and system default. But if 3G dial-up is successful, the ppp0 interface will automatically be added to the list.

• Serial Port Status

Here user can configure serial port settings that include port status and port defined by user.

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Protocol Settings	Name	Parameters	Interface	OP Mode	Status	
System Management	Port1	921600 BN1 None 921600 SN1 None	232	TCP Server	Running	
System Monitoring	Port3	921600 BN1 None	232	TCP Server	Running	
B 3G Status	Port4	921600 8N1 None	232	TCP Server	Running	
GPS Status						
🗝 Serial Port Status						
Serial to Network Connections						
Restart						

• Serial to Network Connections View the network connections status of serial port on the Serial Device Server.

3.4.1 Virtual Com Mode Setting

The Xport utility maps a serial port to a COM port on PC.

• Operation Modes:

Application

Click "Application" drop-down menu to select Virtual Com from the drop-down list.

RFC2217

RFC2217 is used to establish a transparent connection between a host computer and a serial device by mapping the serial port on the Serial Device Server to a local COM port on the host computer. RFC2217 is always enabled for Virtual Com Mode Setting.

TCP Port

Click in "TCP Port" text box and type a TCP Port number assigned to the serial port on the Serial Device Server. The default TCP Port number is 601.

Max-client

The maximum number of host computers that can receive data from the Serial Device Server simultaneously. Click "Max-client" drop-down menu to select 1~32 from the drop-down list.

Apply the above settings to all serial ports

Check this option to apply the above settings to all serial ports.

Click "Submit" button when you have finished the Virtual Com Mode Setting.

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 Serial Port Settings Port Status Port 1 Operation Modes Communication Parameters Accessible IP List Port 2 Port 3 Port 4 System Management System Monitoring Restart 	Application Vitual Com RFC217 Enable TOP Port 601 Max-client 1 Apply the above settings to all serial ports Submit	
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• Communication Parameters:

Protocol timeout auto-detect

Check this option to support protocol timeout auto-detect. The Serial Device Server will automatically test the TCP connection to remote host. If the TCP connection is idle, the TCP connection will be closed and the port will be freed for other hosts.

Protocol timeout

Click in "Protocol timeout" text box and type a period of protocol timeout assigned to the serial port on the Serial Device Server. The connection will be closed and the port will be freed for connection with other hosts when serial port stops data transmission for a defined period of time (protocol timeout). The default protocol timeout is 0ms.

Baud rate

Click "Baud rate" drop-down menu to select baud rate 50~921600bps from the drop-down list. The default baud rate of the serial port is 9600bps.

Data bits

Click "Data bits" drop-down menu to select data bits 5, 6, 7, or 8 from the drop-down list for the serial port. The default data bits of the serial port is 8 bits.

Stop bits

Click "Stop bits" drop-down menu to select Stop bits 1 or 2 from the drop-down list for the serial port. The default stop bits of the serial port is 1 bit.

Parity

Click "Parity" drop-down menu to select parity None, Odd, Even, Mark, or Space from the drop-down list for the serial port. The default parity of the serial port is None.

Flow control

Click "Flow control" drop-down menu to select flow control None, Hardware, or Software from the drop-down list for the serial port. The default flow control of the serial port is None.

Mode

Click "Mode" drop-down menu to select mode RS232, RS485, or RS422 from the drop-down list for the serial port. The default mode of the serial port is RS232.

Delimiter1, 2

Click in "Delimiter1, 2" text box and Delimiter1, 2 assigned to the serial port on the Serial Device Server. Check this option to enable Delimiter1, 2. The data will be transmitted if the Delimiter1 is received or Delimiter1 and Delimiter2 are received.

Force transmit

Click in "Force transmit" text box and specify force transmit to the serial port on the Serial Device Server. The data will be transmitted when the force transmit is reached. The default force transmit of the serial port is 0 to disable Force transmit.

Apply the above settings to all serial ports

Check this option to apply the above settings to all serial ports.

Click "Submit" button when you have finished setting communication parameters.

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	Delimiter2 Force transmit	(Hex 00+FF) ☐ Enable (Hex 00+FF) ☐ Enable 0 ms (note:"0" means disabled)	
a	Apply the above settings to a	Il serial ports	

• Access Control List:

Access Control List

Check this option to enable the access control list. Disable will allow all IP's connection request.

IP1~32

Click in "IP1~32" text box and specify IP addresses that can access to the serial port on the Serial Device Server. Check this option to enable the IP addresses.

Click "Submit" button when you have finished setting access control list.

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Protocol Settings		Port1	
Protocol Mode	IP1	Enable	
Serial Port Settings	IP2	Enable	
Bind Network Interface	IP3	Enable	
Porci Operation Modes	IP4	Enable	
Communication Parameters	125	Enable	
Access Control List	IP6	Enshie	
Port2	IP7	Enable	
Port3	100	Enable	
Port4 Port4	100	Enable	
System Management	12.0	Enable	
System Monitoring	IP10	Enable	
Restart	IP11	Enable	
	IP12	Enable	
	IP13	Enable	
	IP14	Enable	
	IP15	Enable	
	IP16	Enable	
	IP17	Enable	
	IP18	Enable	
	IP19	Enable	
	IP20	Enable	
	IP21	Enable	
	IP22	Enable	
	IP23	Enable	
	IP24	Enable	
	IP25	Enable	
	17.2.5	L Cristile	

3.4.2 Pair Connection

One Serial Device Server is assigned as the master and the other Serial Device Server as the slave.

• Operation Modes:

Application

Click "Application" drop-down menu to select Pair Connection from the drop-down list.

RFC2217

RFC2217 is used to establish a transparent connection between a host computer and a serial device by mapping the serial port on the Serial Device Server to a local COM port on the host computer. RFC2217 is always enabled for Pair Connection Setting.

Mode

Click "Mode" drop-down menu to select Master or Slave from the drop-down list.

IP

Click in "IP" text box and specify the IP address of the Slave Serial Device Server of Pair Connection.

TCP Port

Click in "TCP Port" text box and type a TCP Port number assigned to the serial port on the Serial Device Server. The default TCP Port number is 601.

Apply the above settings to all serial ports

Check this option to apply the above settings to all serial ports.

Click "Submit" button when you have finished the Pair Connection Setting.

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overview Menu	Pair Connection Setting	I.			
© Overview		Port1			
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ê		😵 Internet			

• Communication Parameters:

Protocol timeout auto-detect

Check this option to support protocol timeout auto-detect. The Serial Device Server will automatically test the TCP connection to remote host. If the TCP connection is idle, the TCP connection will be closed and the port will be freed for other hosts.

Protocol timeout

Click in "Protocol timeout" text box and type a period of protocol timeout assigned to the serial port on the Serial Device Server. The connection will be closed and the port will be freed for connection with other hosts when serial port stops data transmission for a defined period of time (protocol timeout). The default protocol timeout is 0ms.

Baud rate

Click "Baud rate" drop-down menu to select baud rate 50~460800bps from the drop-down list for the serial port. The default baud rate of the serial port is 9600bps.

Data bits

Click "Data bits" drop-down menu to select data bits 5, 6, 7, or 8 from the drop-down list for the serial port. The default data bits of the serial port is 8 bits.

Stop bits

Click "Stop bits" drop-down menu to select stop bits 1 or 2 from the drop-down list for the serial port. The default stop bits of the serial port is 1 bit.

Parity

Click "Parity" drop-down menu to select parity None, Odd, Even, Mark, or Space from the drop-down list for the serial port. The default parity of the serial port is None.

Flow control

Click "Flow control" drop-down menu to select flow control None, Hardware, or Software from the drop-down list for the serial port. The default flow control of the serial port is None.

Mode

Click "Mode" drop-down menu to select mode RS232, RS485, or RS422 from the drop-down list for the serial port. The default mode of the serial port is RS232.

Force transmit

Click in "Force transmit" text box and specify force transmit to the serial port on the Serial Device Server. The data will be transmitted when the force transmit is reached. The default force transmit of the serial port is 0 to disable force transmit.

Apply the above settings to all serial ports

Check this option to apply the above settings to all serial ports.

Click "Submit" button when you have finished setting communication parameters.

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overview Menu	Communication Parameters	
Basic Network Settings		Port1
 Bont Status Port Status Operation Modes Communication Parameters Accessible IP List Port2 Port3 Port4 System Management System Monitoring Restart 	Protocol timeout auto-detect Protocol timeout Baud rate Data bits Stop bits Parity Flow control Mode Delimiter1 Delimiter2 Force transmit Apply the above settings to a	□ support □ ms 9600 v 8 v 1 v None v RS232 v Data Packing (Hex 00-FF) □ Enable ↓(Hex 00-FF) □ Enable 0 ms (note*0" means disabled) all serial ports Submit
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3.4.3 TCP Server Setting

TCP Server mode is default link mode of serial settings, and it can wait for connecting requests from remote host PCs which running Xport utility. Default TCP Port number of serial port on Serial Device Server is 601.

• Operation Modes:

Application

Click "Application" drop-down menu to select TCP Server from the drop-down list.

RFC2217

RFC2217 is used to establish a transparent connection between a host computer and a serial device by mapping the serial port on the Serial Device Server to a local COM port on the host computer. Check this option to enable RFC2217 for TCP Server Setting.

TCP Port

Click in "TCP Port" text box and type a TCP Port number assigned to the serial port on the Serial Device Server. The default TCP Port number is 601.

Max-client

The maximum number of host computers that can receive data from the Serial Device Server simultaneously. Click "Max-client" drop-down menu to select 1~32 from the drop-down list.

Apply the above settings to all serial ports

Check this option to apply the above settings to all serial ports.

Click "Submit" button when you have finished TCP Server Setting.

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🚺 overview Menu	TCP Server Settin	g		
• Overview			Port1	
Basic Network Settings Settings Port Status Port Status Operation Modes Communication Parameters Accessible IP List Port2 Port3 Port4 System Management System Monitoring Restart	Application RFC2217 TCP Port Max-client Apply the above s	TCP Server	Submit	
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• Communication Parameters:

Protocol timeout auto-detect

Check this option to support protocol timeout auto-detect. The Serial Device Server will automatically test the TCP connection to remote host. If the TCP connection is idle, the TCP connection will be closed and the port will be freed for other hosts.

Protocol timeout

Click in "Protocol timeout" text box and type a period of protocol timeout assigned to the serial port on the Serial Device Server. The connection will be closed and the port will be freed for connection with other hosts when serial port stops data transmission for a defined period of time (protocol timeout). The default protocol timeout is 0ms.

Baud rate

Click "Baud rate" drop-down menu to select baud rate 50~921600bps from the drop-down list for the serial port. The default baud rate of the serial port is 9600bps.

Data bits

Click "Data bits" drop-down menu to select data bits 5, 6, 7, or 8 from the drop-down list for the serial port. The default data bits of the serial port is 8 bits.

Stop bits

Click "Stop bits" drop-down menu to select stop bits 1 or 2 from the drop-down list for the serial port. The default stop bits of the serial port is 1 bit.

Parity

Click "Parity" drop-down menu to select parity None, Odd, Even, Mark, or Space from the drop-down list for the serial port. The default parity of the serial port is None.

Flow control

Click "Flow control" drop-down menu to select flow control None, Hardware, or Software from the drop-down list for the serial port. The default flow control of the serial port is None.

Mode

Click "Mode" drop-down menu to select mode RS232, RS485, or RS422 from the drop-down list for the serial port. The default mode of the serial port is RS232.

Delimiter1, 2

Click in "Delimiter1, 2" text box and Delimiter1, 2 assigned to the serial port on the Serial Device Server. Check this option to enable Delimiter1, 2. The data will be transmitted if the Delimiter1 is received or Delimiter1 and Delimiter2 are received.

Force transmit

Click in "Force transmit" text box and specify force transmit to the serial port on the Serial Device Server. The data will be transmitted when the force transmit is reached. The default force transmit of the serial port is 0 to disable force transmit.

Apply the above settings to all serial ports

Check this option to apply the above settings to all serial ports.

Click "Submit" button when you have finished setting communication parameters.

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Basic Network Settings		Port1	
Serial Port Settings Port Status O Port1 Operation Modes Communication Parameters Accessible IP List Port2 Port3 Port3 Port4 System Management	Protocol timeout auto-detect Protocol timeout Baud rate Data bits Stop bits Parity Flow control Mode Delimiter1	□ support 0 ms 9600 v 8 v 1 v None v RS232 v Data Packing (Hex 00-FF) □ Enable	
0 System Monitoring 0 Sestart	Delimiter2 Force transmit Apply the above settings to a	(Hex 00-FF) Enable 0 ms (note:10" means disabled) all serial ports	
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• Access Control List:

Access Control List

Check this option to enable the access control list. Disable will allow all IP's connection request.

IP1~32

Click in "IP1~32" text box and specify IP addresses that can access to the serial port on the Serial Device Server. Check this option to enable the IP addresses.

Click "Submit" button when you have finished setting access control list.

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Overview Menu	Access Control Lis		
Overview	Enable the acces	s control list ("Disable" will allow all IP's connection request.)	
Protocol Settings		Port1	
Protocol Mode Secial Post Settings	IP1	Enable	
Bind Network Interface	IP2	Enable	
P Port1	IP3	Enable	
Deration Modes	IP4	Enable	
Communication Parameters	IP5	Enable	
Access Control List	IP6	Enable	
Port2	IP7	Enable	
Port3	IPR	Enable	
Porte P	IPO	Enable	
System Management	ID10		
> System Monitoring	1011	Enable	
> Restart	IP11	Enable	
	IP12	Enable	
	IP13	Enable	
	IP14	Enable	
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	IP20	Enable	
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	IP25	Enable	

3.4.4 TCP Client Setting

User may enter IP addresses and port numbers of remote host computers to establish connection from Serial Device Server to remote host computers.

• Operation Modes:

Application

Click "Application" drop-down menu to select TCP Client from the drop-down list.

RFC2217

RFC2217 is used to establish a transparent connection between a host computer and a serial device by mapping the serial port on the Serial Device Server to a local COM port on the host computer. Check this option to enable RFC2217 for TCP Client Setting.

Connect timeout

Click in "Connect timeout" text box and type a period of connect timeout assigned to the serial port on the Serial Device Server. The connection will be closed and the port will be freed for connection with other hosts when serial port stops data transmission for a defined period of time (connect timeout). The default connect timeout is 3 seconds.

Re-connect interval

Click in "Re-connect interval" text box and type a period of re-connect interval assigned to the serial port on the Serial Device Server. The connection will be reestablished with other hosts for a defined period of time (re-connect interval). The default re-connect interval is 3 seconds.

IP1~32, Port

Click in "IP1~32" and "Port" text boxes and specify IP addresses and port numbers of remote host computers.

Apply the above settings to all serial ports

Check this option to apply the above settings to all serial ports.

Click "Submit" button when you have finished the TCP Client Setting.

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Overview Menu	TCP Client Setting			
Destaval Settings			Port1	
Protocol Securigs	Application	TCP Client 💙		
Serial Port Settings	RFC2217	Enable		
Bind Network Interface	Connect timeout	3	second	
Port1	Re-connect interval	3	second	
Operation Modes			Remote IP list	
Communication Parameters	IP1		Port	
Access Control List	IP2		Port	
Port2	IP3		Port	
Port3	IP4		Port	
Port4	IP5		Port	
Restart Senal Port System Management	IP6		Port	
System Management	IP7		Port	
Restart	IP8		Port	
	IP9		Port	
	IP10		Port	
	IP11		Port	
	IP12		Port	
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a de la companya de l	IP17		Port	
	IP18		Port	
	IP19		Port	
	IP20		Port	
	IP21		Port	
	IP22		Port	

• Communication Parameters:

Protocol timeout auto-detect

Check this option to support protocol timeout auto-detect. The Serial Device Server will automatically test the TCP connection to remote host. If the TCP connection is idle, the TCP connection will be closed and the port will be freed for other hosts.

Protocol timeout

Click in "Protocol timeout" text box and type a period of protocol timeout assigned to the serial port on the Serial Device Server. The connection will be closed and the port will be freed for connection with other hosts when serial port stops data transmission for a defined period of time (protocol timeout). The default protocol timeout is 0ms.

Baud rate

Click "Baud rate" drop-down menu to select baud rate 50~460800bps from the drop-down list for the serial port. The default baud rate of the serial port is 9600bps.

Data bits

Click "Data bits" drop-down menu to select data bits 5, 6, 7, or 8 from the drop-down list for the serial port. The default data bits of the serial port is 8 bits.

Stop bits

Click "Stop bits" drop-down menu to select stop bits 1 or 2 from the drop-down list for the serial port. The default stop bits of the serial port is 1 bit.

Parity

Click "Parity" drop-down menu to select parity None, Odd, Even, Mark, or Space from the drop-down list for the serial port. The default parity of the serial port is None.

Flow control

Click "Flow control" drop-down menu to select flow control None, Hardware, or Software from the drop-down list for the serial port. The default flow control of the serial port is None.

Mode

Click "Mode" drop-down menu to select mode RS232, RS485, or RS422 from the drop-down list for the serial port. The default mode of the serial port is RS232.

Delimiter1, 2

Click in "Delimiter1, 2" text box and Delimiter1, 2 assigned to the serial port on the Serial Device Server. Check this option to enable Delimiter1, 2. The data will be transmitted if the Delimiter1 is received or Delimiter1 and Delimiter2 are received.

Force transmit

Click in "Force transmit" text box and specify force transmit to the serial port on the Serial Device Server. The data will be transmitted when the force transmit is reached. The default force transmit of the serial port is 0 to disable force transmit.

Apply the above settings to all serial ports

Check this option to apply the above settings to all serial ports.

Click "Submit" button when you have finished setting communication parameters.

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Apply the above settings to all serial ports Submit		Delimiter1 Delimiter2 Force transmit Apply the above settings to a	Data Packing (Hex 00-FF) Enable (Hex 00-FF) Enable 0 ms (note*0" means disabled) all serial ports Submit	

3.4.5 UDP Setting

Serial Device Server can be configured in a UDP mode to establish connection using Unicast or Multicast data from the serial device to one or multiple host computers. Vice versa is also true.

• Operation Modes:

Application

Click "Application" drop-down menu to select UDP from the drop-down list.

Server1~32, Port

Click in "Server1~32" and "Port" text boxes to specify IP addresses and port numbers of remote UDP Servers.

UDP Port

Click in "UDP Port" text box and type a UDP port number assigned to the Source UDP Clients. The default UDP port number is 601.

Source IP 1~32

Click in "Source IP 1~32" text box to specify IP addresses of Source UDP Clients.

Apply the above settings to all serial ports

Check this option to apply the above settings to all serial ports.

Click "Submit" button when you have finished the UDP Setting.

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Overview					
> Protocol Settings	Application LIDP	~	Porti		
Protocol Mode	REC2217 Enable				
Serial Port Settings	Rem	iote UDP Server list		Source UDP Client list	
Bind Network Interface			UDP Port	601	
Port1	Server1	Port	Source IP 1	(P)	
Communication Recomptors	Server2	Port	Source IP 2	(IP)	
D Access Control List	Server3	Port	Source IP 3	(P)	
Port2	Server4	Port	Source IP 4	den	
Port3	Server5	Port	Source IP 5	(P)	
Port4	Canad	Post	Course ID 6	0P)	
Restart Serial Port	Centero Centero	Folt	Source IP 6	(9)	
System Management	Server/	Port	Source IP 7	(IP)	
System Monitoring	Server8	Port	Source IP 8	(P)	
Restart	Server9	Port	Source IP 9	(P)	
	Server10	Port	Source IP 10	(P)	
	Server11	Port	Source IP 11	(IP)	
	Server12	Port	Source IP 12	(IP)	
	Server13	Port	Source IP 13	(P)	
	Server14	Port	Source IP 14	de	
	Server15	Port	Source IP 15	(IP)	
	Server16	Port	Source IP 16	(P)	
	Server17	Port	Source IP 17	(P)	
	Carvar10	Port	Source IP 17	0P)	
	Canado	Pun	Source IP 18	(P)	
	Server19	Port	source IP 19	(P)	
	Server20	Port	Source IP 20	(P)	
	Server21	Port	Source IP 21	(P)	
	Server22	Port	Source IP 22	(P)	
	Server23	Port	Source IP 23	(P)	

• Communication Parameters:

Protocol timeout auto-detect

Check this option to support protocol timeout auto-detect. The Serial Device Server will automatically test the TCP connection to remote host. If the TCP connection is idle, the TCP connection will be closed and the port will be freed for other hosts.

Protocol timeout

Click in "Protocol timeout" text box and type a period of protocol timeout assigned to the serial port on the Serial Device Server. The connection will be closed and the port will be freed for connection with other hosts when serial port stops data transmission for a defined period of time (protocol timeout). The default protocol timeout is 0ms.

Baud rate

Click "Baud rate" drop-down menu to select baud rate 50~460800bps from the drop-down list for the serial port. The default baud rate of the serial port is 9600bps.

Data bits

Click "Data bits" drop-down menu to select data bits 5, 6, 7, or 8 from the drop-down list for the serial port. The default data bits of the serial port is 8 bits.

Stop bits

Click "Stop bits" drop-down menu to select stop bits 1 or 2 from the drop-down list for the serial port. The default stop bits of the serial port is 1 bit.

Parity

Click "Parity" drop-down menu to select parity None, Odd, Even, Mark, or Space from the drop-down list for the serial port. The default parity of the serial port is None.

Flow control

Click "Flow control" drop-down menu to select flow control None, Hardware, or Software from the drop-down list for the serial port. The default flow control of the serial port is None.

Mode

Click "Mode" drop-down menu to select mode RS232, RS485, or RS422 from the drop-down list for the serial port. The default mode of the serial port is RS232.

Delimiter1, 2

Click in "Delimiter1, 2" text box and Delimiter1, 2 assigned to the serial port on the Serial Device Server. Check this option to enable Delimiter1, 2. The data will be transmitted if the Delimiter1 is received or Delimiter1 and Delimiter2 are received.

Force transmit

Click in "Force transmit" text box and specify force transmit to the serial port on the Serial Device Server. The data will be transmitted when the force transmit is reached. The default force transmit of the serial port is 0 to disable force transmit.

Apply the above settings to all serial ports

Check this option to apply the above settings to all serial ports.

Click "Submit" button when you have finished setting communication parameters.

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3.5 Modbus Gateway App

Choose Modbus from the "Protocol Mode" drop-down list to change to Modbus function. Click "Submit" button when you have finished setting Protocol Mode.

• Port Group:

Group1

Use this option to check COM port 1~4. The checked COM port will be linked to the common TCP1.

Group2

Use this option to check COM port $1\sim4$. The checked COM port will be linked to the common TCP2.

Group3

Use this option to check COM port 1~4. The checked COM port will be linked to the common TCP3.

Group4

Use this option to check COM port 1~4. The checked COM port will be linked to the common TCP4.

Each COM port is limited to a single group.



3.5.1 LAN Port

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LAN Modbus must be set as master when Serial Modbus is set as slave, or vice versa.

• Modbus TCP:

Modbus Mode

Check and choose Modbus TCP.

Master/Slave

Check and select master or slave.

TCP Message Timeout

Click in "TCP Message Timeout" text box and type a period of TCP Message Timeout.

Apply the above settings to all serial ports

Check this option to apply the above settings to all serial ports

Click "Submit" button when you have finished the Modbus Modes Setting.

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Overview Menu	LAN-Modbus Mode Settings	
Gateway Settings	Lan-Modbus Mode Settings	
Protocol Mode	Modbus Mode S Modbus TCP O Modbus ASCII	
Serial Port Settings	Master / Slave	
Serial Port Group	TCP Message Inneout 100 ms (10ms-3000ms)	
Bind Network Interface	Apply the above settings to all senal ports	
E S LAN Port	Submit	
Modbus Modes		
Connection Modes		
🖲 💽 Serial Port		
Access Control List		
Port2		
Port4		
🖲 🔊 System Management		
System Monitoring		
🖲 🔊 Restart		
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• Operation Modes:

Connection Mode

Click "Connection Mode" drop-down menu to select TCP Master or TCP Slave from the drop-down list.

TCP Port

Click in "TCP Port" text box and type a TCP Port number assigned to the serial port on the Modbus Gateway.

Max-client

The maximum number of host computers that can receive data from the Modbus Gateway simultaneously. Click "Max-client" drop-down menu to select 1~32 from the "Max-client" drop-down list.

Apply the above settings to all serial ports

Check this option to apply the above settings to all serial ports.

Click "Submit" button when you have finished the Connection Modes Setting.

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Overview Menu	LAN Operation Mode	is Setting		
Overview		Portt		
© Protocol Mode	Connection Mode	TCP Master Mote Select the Connection Mode the same as your Modbus device's operation mode.		
🖻 🗾 Serial Port Settings	TCP Port	502		
Serial Port Group	Apply the above set	Inne to all certal norte		
Bind Network Interface	inter opping and above over			
E > LAN Port		Submit		
Modbus Modes				
Connection Modes				
Access Control List				
Port2				
Port3				
Port4 System Management				
Basic Settings				
Alarm Settings				
Advance Settings				
 Configuration System Monitoring 				
Restart				

• Modbus RTU:

Modbus Mode

Check and choose Modbus RTU.

Master/Slave

Check and select master or slave.

TCP Message Timeout

Click in "TCP Message Timeout" text box and type a period of TCP Message Timeout.

Apply the above settings to all serial ports

Check this option to apply the above settings to all serial ports.

Click "Submit" button when you have finished the Modbus Modes Setting.

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Overview Menu	Lan-Modbus Mode Set	tings	
Basic Network Settings		Lan-Modbus Mode Settings	
🖻 🚺 Serial Port Settings	Modbus Mode	○ Modbus TCP ④ Modbus RTU ○ Modbus ASCII	
Port Status	Master / Slave	Master O Slave	
Protocol Mode	TCP Message Timeout	100 ms (10ms~5000ms)	
Port Merge	Apply the above setting	is to all serial ports	
🖻 🚺 Port1			0
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Modbus Modes			
Connection Modes			
🖶 🔯 Serial Port			
Accessible IP List			
System Management			
System Monitoring			
🕂 🚺 Restart			
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• Operation Modes:

Connection Mode

Automatically set as RTU/ASCII connection.

TCP Port

Click in "TCP Port" text box and type a TCP Port number assigned to the serial port on the Modbus Gateway.

Max-client

The maximum number of host computers that can receive data from the Modbus Gateway simultaneously. Click "Max-client" drop-down menu to select 1~32 from the "Max-client" drop-down list.

Apply the above settings to all serial ports

Check this option to apply the above settings to all serial ports.

Click "Submit" button when you have finished the Connection Modes Setting.

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Address a http://192.168.1.10/index	Modbus.asp	🗸 💽 Go
Overview Menu	Lan Operation Mod	les Setting
Overview		Port1
 Basic Network Settings Serial Port Settings Port Status Port Status Port Merge Port Merge Port Merge Port Merge Serial Port Modbus Modes Connection Modes Serial Port Accessible IP List System Management System Monitoring Restart 	Connection Mode TCP Port Max-client Apply the above se	RTU/ASCII Connetion Vote:Select the Connection Mode the same as your Modbus device's operation mode. 502 1 device's to all serial ports Submit
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• Modbus ASCII:

Modbus Mode

Check and choose Modbus ASCII.

Master/Slave

Check and select master or slave.

TCP Message Timeout

Click in "TCP Message Timeout" text box and type a period of TCP Message Timeout.

Apply the above settings to all serial ports

Check this option to apply the above settings to all serial ports.

Click "Submit" button when you have finished the Modbus Modes Setting.



• Operation Modes:

Connection Mode

Automatically set as RTU/ASCII connection.

TCP Port

Click in "TCP Port" text box and type a TCP Port number assigned to the serial port on the Modbus Gateway.

Max-client

The maximum number of host computers that can receive data from the Modbus Gateway simultaneously. Click "Max-client" drop-down menu to select 1~32 from the "Max-client" drop-down list.

Apply the above settings to all serial ports

Check this option to apply the above settings to all serial ports.

Click "Submit" button when you have finished the Connection Modes Setting.

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3.5.2 Serial Port

Note

LAN Modbus must be set as master when Serial Modbus is set as slave, or vice versa.

Modbus Modes:

Modbus Mode

Check and choose Modbus RTU or Modbus ASCII.

Master/Slave

Check and select master or slave.

Serial Message Timeout

Click in "Serial Message Timeout" text box and type a period of Serial Message Timeout.

Apply the above settings to all serial ports

Check this option to apply the above settings to all serial ports.

Click "Submit" button when you have finished the Modbus Modes Setting.

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Address 🍓 http://192.168.1.10/indexModbus.a	sp		👻 🔁 Go		
Overview Menu	Serial-Modbus Mode Settings				
Basic Network Settings		Serial-Modbus Mode Settings			
🖻 🚺 Serial Port Settings	Modbus Mode	Modbus RTU ○ Modbus ASCII			
Port Status	Master / Slave	Master O Slave			
Protocol Mode	Serial Message Timeout	100 ms (10ms~5000ms)			
Port Merge	Apply the above settings	s to all serial ports			
🖻 🚺 Port1					
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🖻 🚺 Serial Port					
Modbus Modes					
Communication Parameters					
Accessible IP List					
System Management					
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• Communication Parameters:

Protocol timeout auto-detect

Check this option to support protocol timeout auto-detect. The Modbus Gateway will automatically test the TCP connection to remote host. If the TCP connection is idle, the TCP connection will be closed and the port will be freed for other hosts.

Protocol timeout

Click in "Protocol timeout" text box and type a period of protocol timeout assigned to the serial port on the Modbus Gateway. The connection will be closed and the port will be freed for connection with other hosts when serial port stops data transmission for a defined period of time (protocol timeout). The default protocol timeout is 0ms.

Baud rate

Click "Baud rate" drop-down menu to select baud rate 50~460800bps from the drop-down list for the serial port. The default baud rate of the serial port is 9600bps.

Data bits

Click "Data bits" drop-down menu to select data bits 5, 6, 7, or 8 from the drop-down list for the serial port. The default data bits of the serial port is 8 bits.

Stop bits

Click "Stop bits" drop-down menu to select stop bits 1 or 2 from the drop-down list for the serial port. The default stop bits of the serial port is 1 bit.

Parity

Click "Parity" drop-down menu to select parity None, Odd, Even, Mark, or Space from the drop-down list for the serial port. The default parity of the serial port is None.

Flow control

Click "Flow control" drop-down menu to select flow control None, Hardware, or Software from the drop-down list for the serial port. The default flow control of the serial port is None.

Mode

Click "Mode" drop-down menu to select mode RS232, RS485, or RS422 from the drop-down list for the serial port. The default mode of the serial port is RS232.

Delimiter1, 2

Click in "Delimiter1, 2" text box and Delimiter1, 2 assigned to the serial port on the Modbus Gateway. Check this option to enable Delimiter1, 2. The data will be transmitted if the Delimiter1 is received or Delimiter1 and Delimiter2 are received.

Delimiter Process

Click "Delimiter Process" drop-down menu to select Do Nothing or Strip Delimiter from drop-down list for the serial port.

Force transmit

Click in "Force transmit" text box and specify force transmit to the serial port on the Modbus Gateway. The data will be transmitted when the force transmit is reached. The default force transmit of the serial port is 0 to disable force transmit.

DSCP

Click in "DSCP" text box and type 0~63 to the serial port on the Modbus Gateway.

Apply the above settings to all serial ports

Check this option to apply the above settings to all serial ports.

Click "Submit" button when you have finished setting communication parameters.

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Protocol Mode	Baud rate	9600 🗸		
Port Merge	Data bits	8 🛩		
E I I an Port	Stop bits	1 🛩		
B Serial Port	Parity	None 💌		
Modbus Modes	Flow control	None 💌		
Communication Parameters	Mode	RS232 Data Backing		
Accessible IP List	Delimiter1			
🗉 🔝 System Management	Delimiter2			
System Monitoring	Delimiter Process	Do Nothing		
🗄 🖸 Restart	Force transmit	0 ms (note:"0" means disabled)		
	DSCP			
	Apply the above settings to a	Il serial ports		
		Submit		
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• Access Control List:

Send keep alive

Check this option to send keep-alive packet.

Enable the access control list

Check this option to enable the access control list. Disable will allow all IP's connection request.

IP1 ~ 32

Click in "IP1~32" text box and specify IP addresses that can access to the serial port on the Modbus Gateway. Check this option to enable the IP addresses.

Click "Submit" button when you have finished setting Access Control List.