
Model ATC-1000WF

WiFi Solutions for Serial Connections

User Manual



Updated on 2013/11/05



Tel: +86 755 - 8345 - 3318

Fax: +86 755 - 8355 - 5891

<http://www.szatc.com>

Important Announcement

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Published by

SHENZHEN ATC TECHNOLOGY CO., LTD

Room 809, Taikang Building, Tairan Industrial & Trading Zone, Futian District, Shenzhen China

Latest product info: <http://www.szatc.com>

Phone: +86 755 - 8345 - 3318

Fax: +86 755 - 8355 - 5891

E-mail: Sales@szatc.com Nicamhong@szatc.com

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1 Introduction

ATC-1000WF wireless serial device servers give you an easy way to connect your RS-232/485/422 serial device to WLAN.

The RS232 connection application has been used for a long time. RS232 cable has limitations in distance. WLAN has become a worldwide standard protocol for wireless application. There are many application for using RS232 connection over WLAN,include POS,data capture,telemetry,PLC controllers,remote control,vending machine,industrial control ,and others.The device that supports connection over WLAN is called as wireless to Serial Server.

ATC-1000WF wireless serial device servers support automatic IP configuration protocols and manual configuration via a handy web browser console.An external antenna increases the range of the wireless connection.Users can position the adjustable antenna for maximum signal strength or even replace the antenna with their own for additional flexibility and scalability.This feature is particularly useful when a serial device is connected in a high interference area.As an added feature,a signal strength indicator is located on the front panel to make it easier to troubleshoot connection problems.

ATC-1000WF wireless serial device servers ensure the compatibility of network software that uses a standard network API by providing TCP Server Mode, TCP Client Mode, and UDP Mode. The Real COM/TTY drivers allow software that works with COM/TTY ports to be set up to work over a TCP/IP network in no time. This excellent feature preserves your software investment and lets you enjoy the benefits of networking your serial devices instantly.

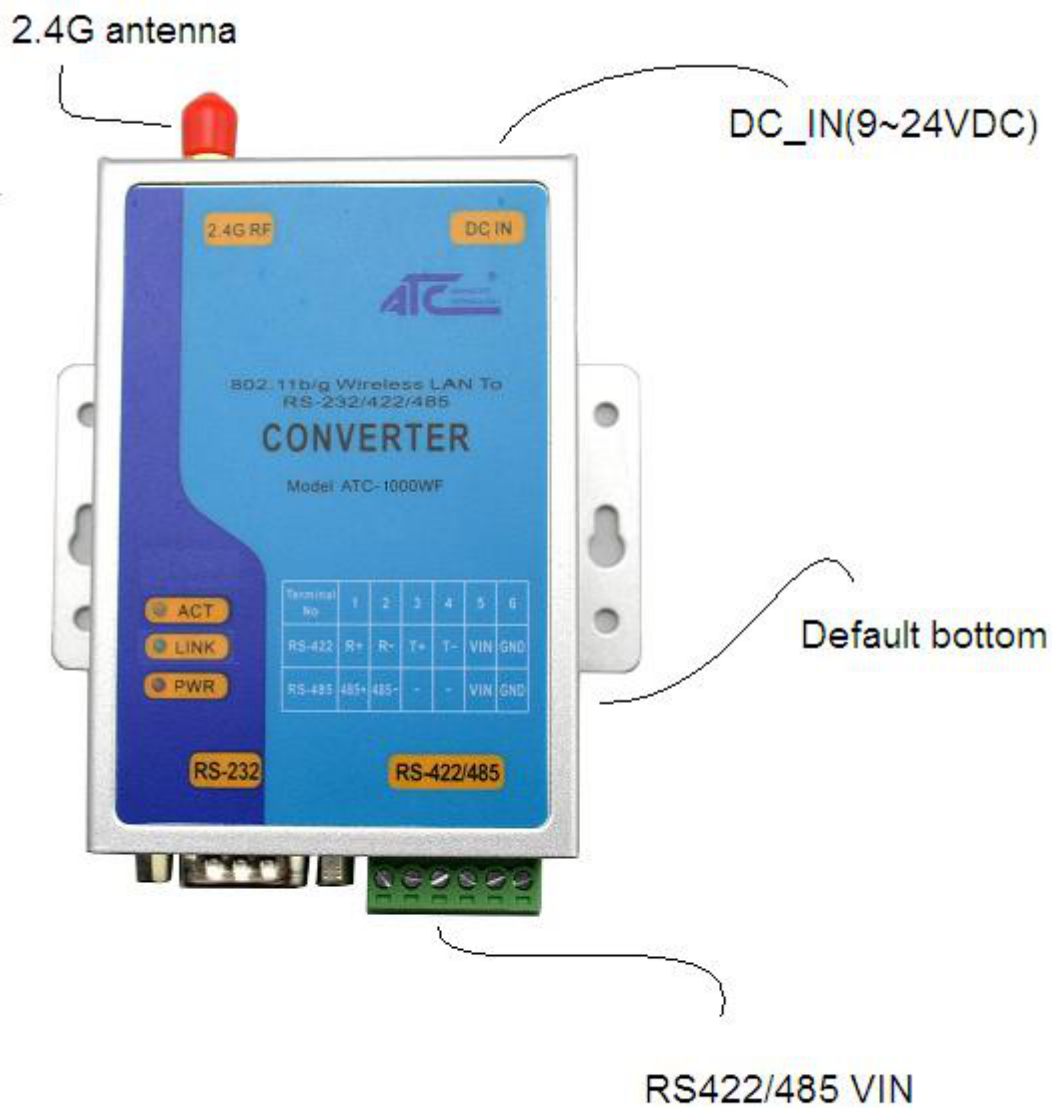
To make your management task easier, the ATC-1000WF provides additional features, such as password authentication, IP filter, WEP support for 64-bit and 128-bit encryption, and SNMP support.

Packaging

Please check ones package contains the following items:

- § ATC-1000WF x 1
- § Power Adapter 9~24VDC x 1
- § Product CD containing configuration utility x 1
- § ATC-1000WF quick start guide x 1
- § Monopole Antenna (2dBi RP-SMA) x 1

2 Hardware Setup



2.1 LED Indicators

2.1.1 LINK LED

Message	Description
Off	Wi-Fi Disconnected
On	Wi-Fi Connected
Table 1. LINK LED Message	

2.1.2 ACT LED

Message	Description
Off	No data transmit between serial port and RF
Blinking	Data transmit between serial port and RF
Table 2. ACT LED Message	

2.1.3 PWR LED

Message	Description
On	Power on
Off	Power off
Table4. PWR LED Message	

2.2 Installation Procedures

Installation of antenna:

Screw the SMA male pin of the antenna to the female SMA outlet of the ATC-1000WF tightly.

Warning: The antenna should be screwed tightly, or the signal quality of antenna will be influenced!

Installation of cable:

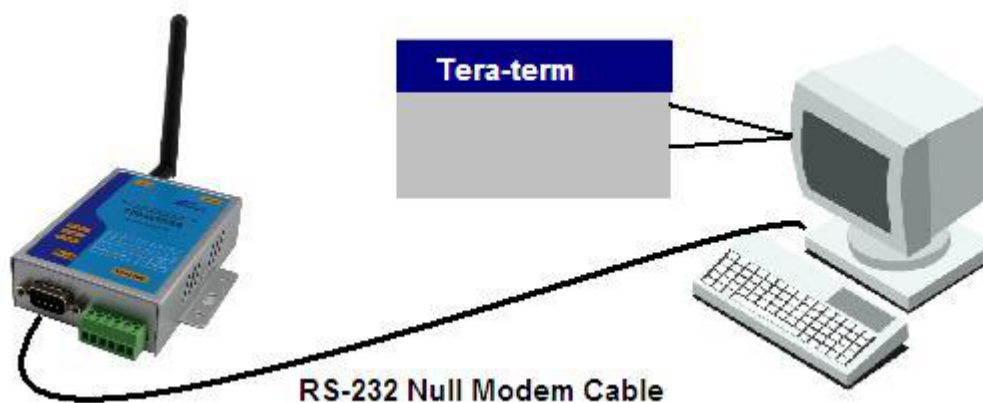
Uses a RS232 or RS422 or RS485 data cable connect the ATC-1000WF to user's device.

2.3 Power

The power range of ATC-1000WF is DC 9~24V. We recommend use to use the standard DC 9V/1A power adapter.

3 Configuration

Before configuration, we should connect the ATC-1000WF to a PC with a RS-232 cable as following.



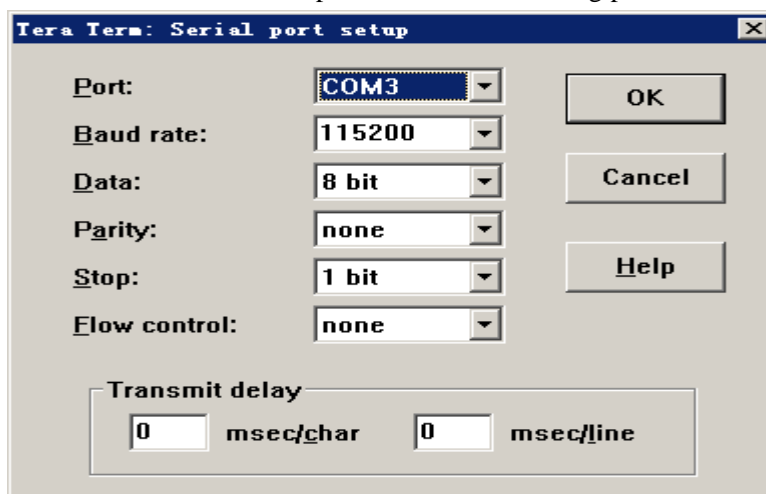
3.1 Configuration Introduction

For ATC-1000WF you can configure via webpage or send command by **Tera-Term**.

3.2 Configure via Tera-Term

Default parameters of serial port are: 115200bps, 8bits, no parity, 1 stop bit, no flow control.

Firstly,configure **Tera-Term** with the default parameters,like following picture.



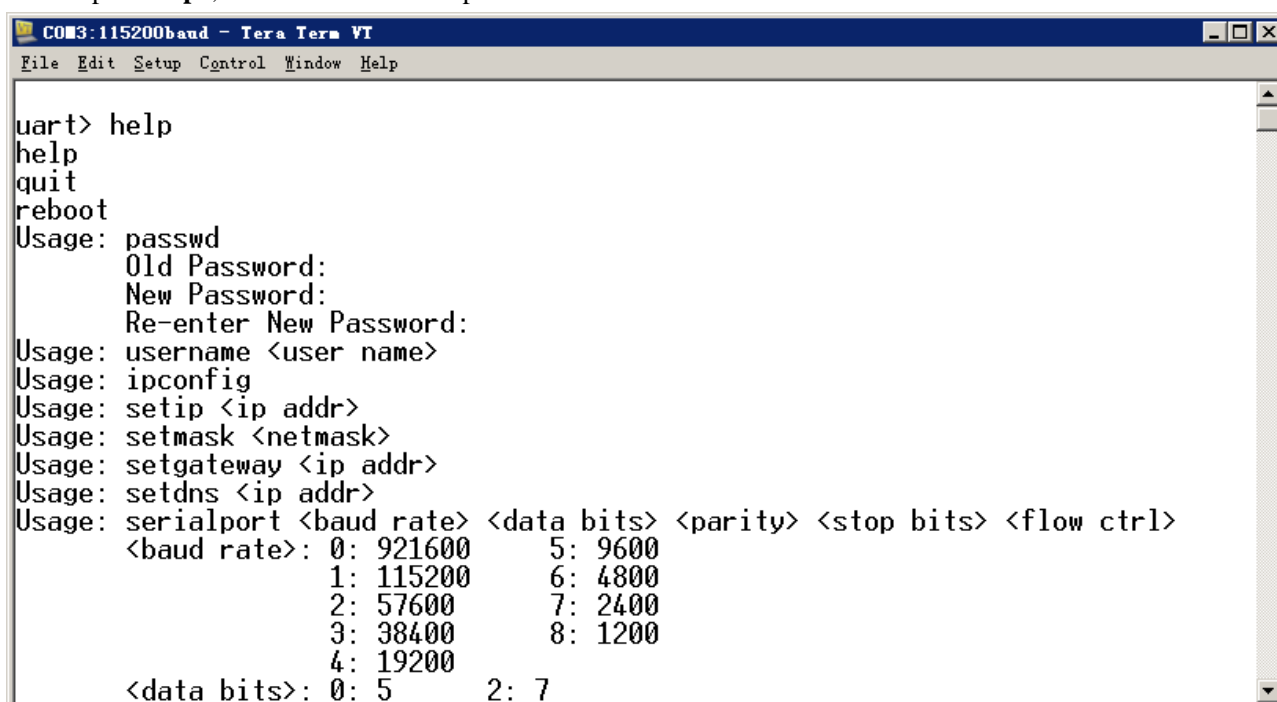
Run **Tera-Term** on the PC,and then enter “+++”.The interface like following will appear.



```
COM3:115200baud - Tera Term VT
File Edit Setup Control Window Help

uart>
```

Then input “help”,the all command will print in the window.Like below.



```
COM3:115200baud - Tera Term VT
File Edit Setup Control Window Help

uart> help
help
quit
reboot
Usage: passwd
      Old Password:
      New Password:
      Re-enter New Password:
Usage: username <user name>
Usage: ipconfig
Usage: setip <ip addr>
Usage: setmask <netmask>
Usage: setgateway <ip addr>
Usage: setdns <ip addr>
Usage: serialport <baud rate> <data bits> <parity> <stop bits> <flow ctrl>
      <baud rate>: 0: 921600    5: 9600
                  1: 115200   6: 4800
                  2: 57600    7: 2400
                  3: 38400    8: 1200
                  4: 19200
      <data bits>: 0: 5      2: 7
```

The commands can be classified into two functions, one is to execute command and the other is to set configuration. The commands for setting configuration can be used in 2 ways: one is to display the current settings when no argument is given and the other is to set the configuration with provided arguments.

3.2.1 Detail description for command

Following will introduce some commonly used commands.

Ø +++

When you power on ATC-1000WF,enter this command turn to CMD mode.

Ø AXCmd2Net

Enter this command, ATC-1000WF will return back to data transmit mode.

Ø help

Enter this command to get all command of this product.

Ø setnt <0 = Infra mode, 1 = Ad-hoc mode>

This command can change the work mode of WLAN.

For example: `setnt -- check current work mode`
`setnt 0 -- turn to Infra mode (AP)`

Ø `sisrvy`

Enter this command to search available access point.

Ø `jbss <ID in site-survey table>`

Enter this command to access a point available. The ID number must be an index in the site survey result list.

Ø `ipconfig`

Use this command to check current network parameters of ATC-1000WF, such as IP address, subnet address and gateway address.

Note: Every command should be send out with “<CR>” ---- the “Enter” key on keyboard.

3.3 Configure by Webpage

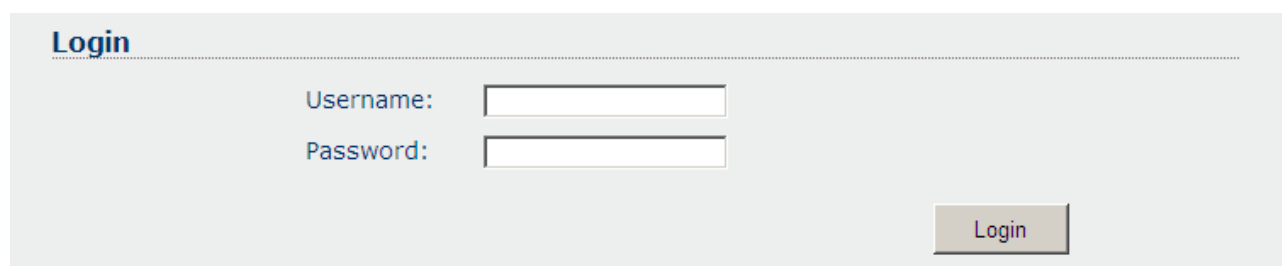
Here we will use Infra mode (AP) as example. And you also can use Ad-Hoc mode to do this, the webpage is same. When access to a router by AP mode, the product will assign an IP address by router. For example: 192.168.1.100.

3.3.1 Login Authentication Page

Run the Internet Explorer, type the IP address into the address bar, like following.



When enter to this address, the following page will appear.



Default User Name: **admin**, Default User Name: **admin**.

The HTTP server will redirect to Basic page if the authentication is successful.

3.3.2 Basic Page

Serial Settings

Device Name:
 Device name can be up to 16 characters.

Data Baud Rate:

Data Bits:

Data Parity:

Stop Bits:

Flow Control:

Rs485:

Network Settings

DHCP Client:

Static IP Address:

Static Subnet Mask:

Static Default Gateway:

Static DNS Server:

Connection Type:

Transmit Timer (ms):
 Please enter an integer between 10~65535.

Server/Client Mode:

Server Listening Port:
 Please enter an integer between 1024~65535.

Client Destination Host Name/IP:
 Please enter host name or IP address(e.g. asix.com.tw or 10.4.1.100).

Client Destination Port:
 Please enter an integer between 1024~65535.

Apply

Cancel

Restore_Default

Reboot

On this page, the **Client Destination Host Name/IP** field can accept either host name or IP address format; for example, you can enter “abnerliu.vicp.cc” or “192.168.1.200” in this field.

This page supports 4 command bottoms:

Ø **Apply** : submits the current settings on this page to the device server.

Ø **Cancel**: cancels the changed settings on this page.

Ø **Restore_Default:** restore the device server back to factory default setting. When click it, a warning dialog will appear. You can click **OK** to continue operation or click **Cancel** to cancel the operation.

Ø **Reboot:** restart the device server.

When clicking Apply or Reboot, a confirmation window will appear. User can click OK to continue the operation, or click Cancel to cancel the operation.

3.3.3 Advanced Page

		Logout
Basic	Advanced	Security
WiFi	WiFi Wizard	Status
Boot Loader Firmware Upgrade		
TFTP Server IP:	<input type="text" value="0.0.0.0"/>	
File Name:	<input type="text"/>	File name can be up to 63 characters.
		<input type="button" value="Apply"/> <input type="button" value="Cancel"/> <input type="button" value="Upgrade_Bootldr"/>
MCPU Firmware Upgrade		
TFTP Server IP:	<input type="text" value="0.0.0.0"/>	
File Name:	<input type="text"/>	File name can be up to 63 characters.
		<input type="button" value="Apply"/> <input type="button" value="Cancel"/> <input type="button" value="Upgrade_MCPU"/>
WCPU Firmware Upgrade		
TFTP Server IP:	<input type="text" value="0.0.0.0"/>	
File Name:	<input type="text"/>	File name can be up to 63 characters.
		<input type="button" value="Apply"/> <input type="button" value="Cancel"/> <input type="button" value="Upgrade_WCPU"/>
E-mail & Auto Warning Report Settings		
E-mail Server Address/IP:	<input type="text" value="asix.com.tw"/>	Please enter host name or IP address(e.g. asix.com.tw or 10.4.1.100).
From E-mail Address:	<input type="text" value="ds@asix.com.tw"/>	
To E-mail Address 1:	<input type="text" value="to1@asix.com.tw"/>	
To E-mail Address 2:	<input type="text" value="to2@asix.com.tw"/>	
To E-mail Address 3:	<input type="text" value="to3@asix.com.tw"/>	
Cold Start:	<input type="text" value="Disable"/>	
Authentication Failure:	<input type="text" value="Disable"/>	
Local IP Address Changed:	<input type="text" value="Disable"/>	
Password Changed:	<input type="text" value="Disable"/>	

This page supports 3 firmware upgrade bottoms. Note that before user performs the firmware upgrade, one should start TFTP server.

Ø **Upgrade_Bootldr:** upgrades the boot-loader firmware and then reboot the device server.

Ø **Upgrade_MCPU:** upgrades the MCU firmware and then reboot the device server.

Ø **Upgrade_WCPU:** upgrades the WCPU firmware and then reboot the device server.

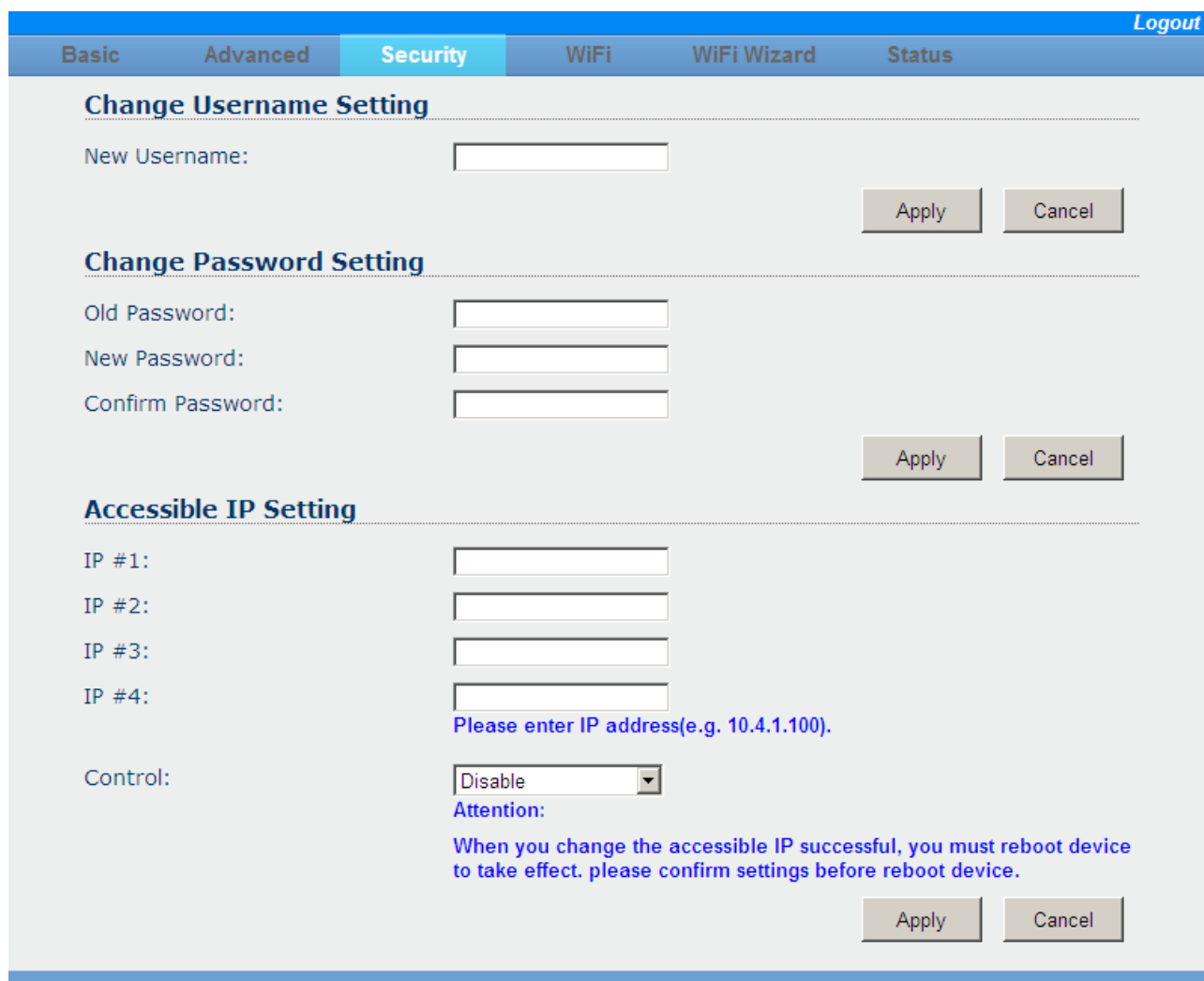
User should enter correct TFTP server IP address and the firmware file name (without file path is fine) for upgrade before clicking these bottoms.

When clicking Apply or any firmware upgrade button, a confirmation window will appear. User can press OK to continue the operation, or press Cancel to cancel the operation.

The E-mail Server Address/IP field can accept host name or IP address format, for example, you can enter “abnerliu.vicp.cc” or “1921.168.2.100” in this field.

The device server supports the DHCP server service and user can setup the settings of DHCP server and press Apply to change the current settings.

3.3.4 Security Page



Change Username Setting

New Username:

Apply Cancel

Change Password Setting

Old Password:

New Password:

Confirm Password:

Apply Cancel

Accessible IP Setting

IP #1:

IP #2:

IP #3:

IP #4:

Please enter IP address(e.g. 10.4.1.100).

Control:

Attention:
When you change the accessible IP successful, you must reboot device to take effect. please confirm settings before reboot device.

Apply Cancel

On this page, the Accessible IP Setting must be used with care. User should enter correct accessible IP address(s) before enabling this function. The new configuration will take effect after the device server reboots.

When clicking Apply, a confirmation window will appear. User can press OK to continue the operation, or press Cancel to cancel the operation.

When clicking Logout at the top right corner of the page, the session will be logged out and redirected to the login page.

3.3.5 WiFi Page

Basic
Advanced
Security
WiFi
WiFi Wizard
Status
Logout

System Settings

Network Mode:

Channel:

Service Area Name/SSID:

Security Mode:

WEP Encryption Key Settings

Key Length:

Key Index Select:

Key Index 0:

Key Index 1:

Key Index 2:

Key Index 3:

Please enter 10-digit hex for 64-bit key length or 26-digit hex for 128-bit key length.

AES/TKIP Encryption Key Settings

AES/TKIP Passphrase:

Please enter a string between 8~63 digits in length.

WiFi Advanced Settings

TX Data Rate:

Transmission Power Level:

Preamble Mode:

Beacon Interval (ms):

Please enter an integer between 20~1000.

RTS Threshold:

Please enter an integer between 0~2432.

Auto Power Control Mode:

The page configures the WiFi settings of device server's WiFi network. Note that the current value of WEP Key Index 0~3 fields will be displayed according to Key Length field being selected, either 64 bits or 128 bits (i.e. WEP-64 or WEP-128).

When clicking Apply, a confirmation window will appear. User can press OK to continue the operation, or

press Cancel to cancel the operation.

3.3.6 WiFi Wizard Page

The WiFi Wizard is similar to WiFi page but provides a step by step procedure to help user to configure WiFi network settings and avoid incorrect settings. The WiFi Wizard includes following 6 sub-pages:

- Ø WiFi Link Settings sub-page
- Ø Encryption Selection sub-page
- Ø WiFi Network Advanced Settings sub-page
- Ø The Wizard Complete Successfully sub-page

3.3.6.1 WiFi Link Settings sub-page



The screenshot shows the 'WiFi Wizard' page in a web interface. At the top, there is a navigation bar with tabs: 'Basic', 'Advanced', 'Security', 'WiFi', 'WiFi Wizard' (highlighted), and 'Status'. A 'Logout' link is visible in the top right corner. The main content area has a heading 'Welcome to the WiFi Setup Wizard' and a sub-heading 'This wizard helps you set up your device to join a WiFi access point or set up its own security-enabled WiFi network.' Below this, there are four configuration fields: 'Network Mode' (dropdown menu set to 'Infrastructure'), 'Channel' (dropdown menu set to '1'), 'Service Area Name/SSID' (text input field containing 'galaxywind' with a note below it: 'The service area name can be up to 31 characters.'), and 'Security Mode' (dropdown menu set to 'No Security' with a note below it: 'AES/TKIP is unsupported in Ad-hoc mode.'). At the bottom of the form, there are two buttons: 'Next' and 'Finish'.

This sub-page provides basic configuration for device server' s WiFi network.

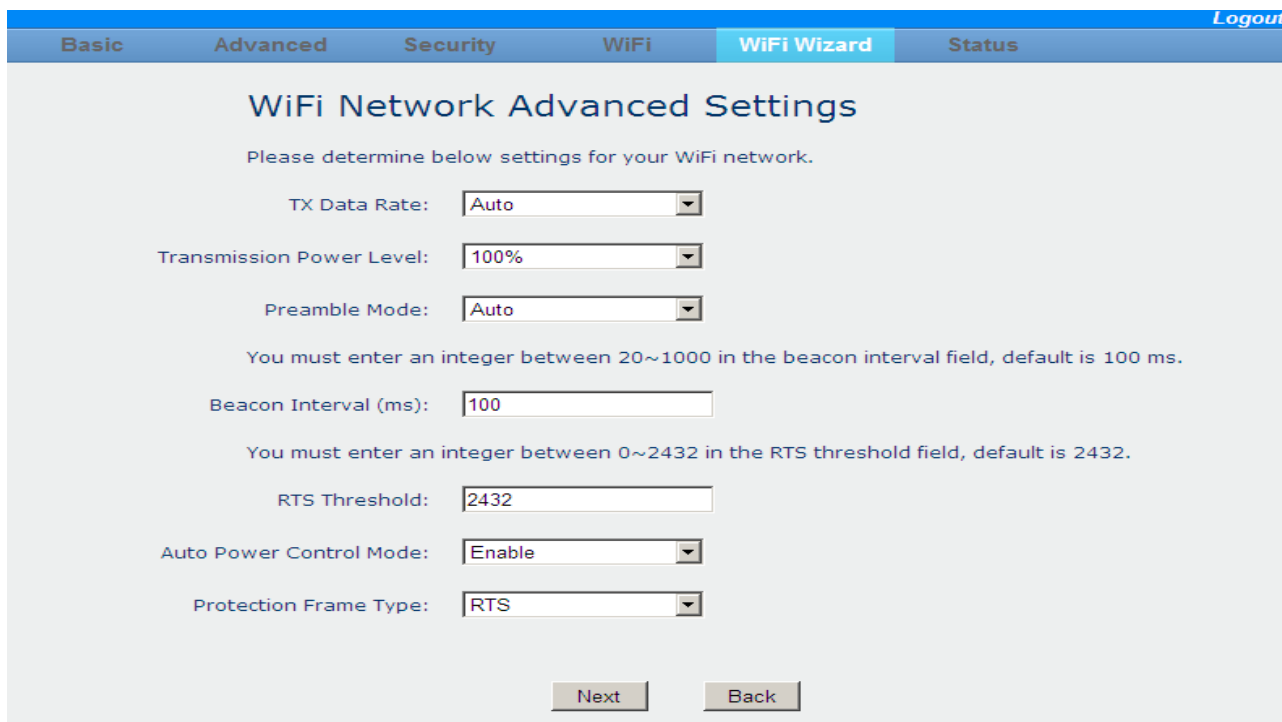
3.3.6.2 Encryption Selection sub-page



The screenshot shows a web interface with a blue header bar containing navigation tabs: Basic, Advanced, Security, WiFi, WiFi Wizard (selected), and Status. A Logout link is in the top right corner. The main content area has a title "Select an Encryption Type for Your WiFi Network" and a sub-instruction: "Select an encryption type for your WiFi network, if you do not modify any encryption key, please select the previous key settings." There are three radio button options: "WEP encryption key settings", "AES/TKIP pre-shared key settings", and "Use the previous key settings" (which is selected). At the bottom are "Next" and "Back" buttons.

This sub-page configures the encryption type that will be used.

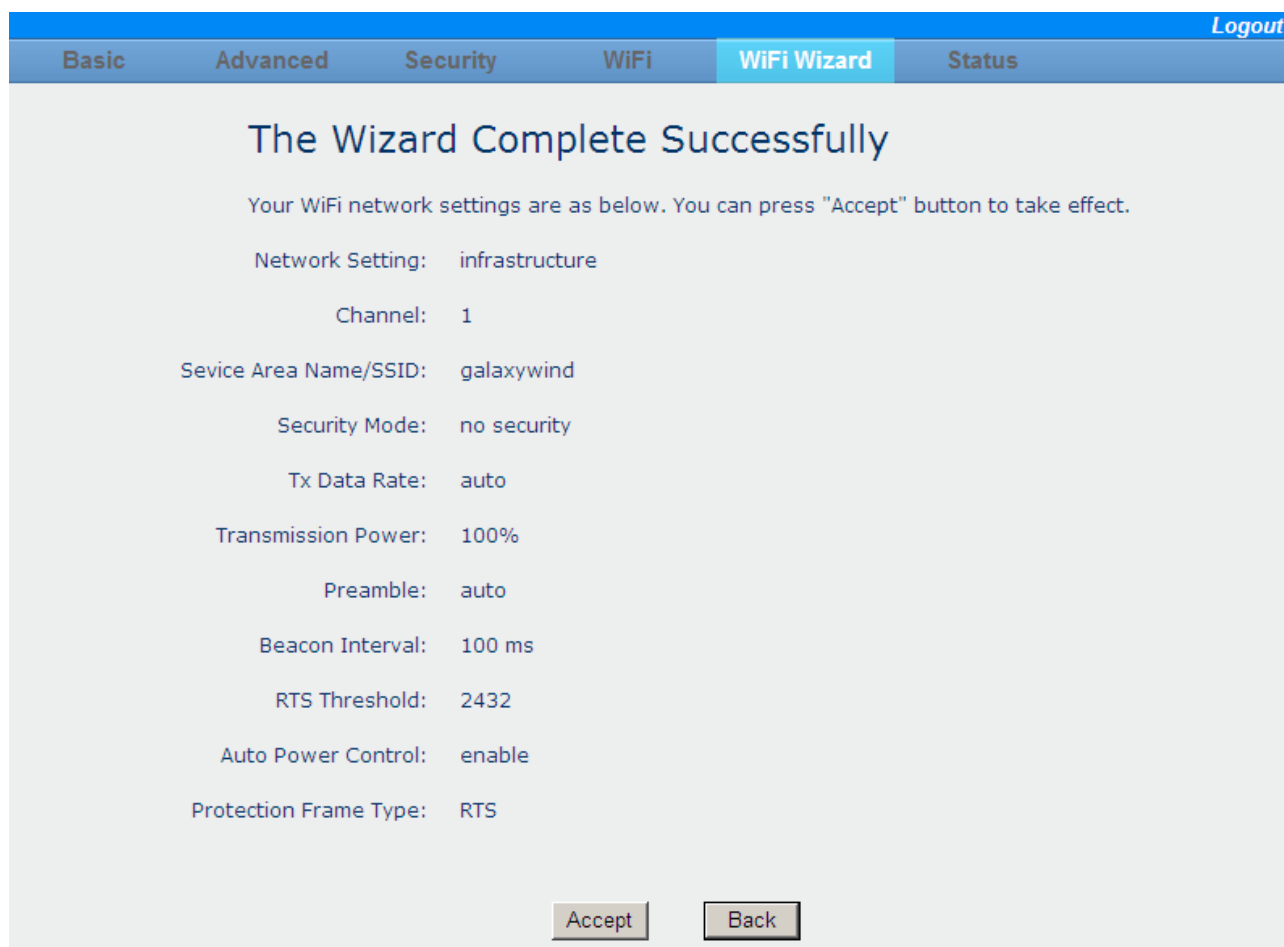
3.3.6.3 WiFi Network Advanced Settings sub-page



The screenshot shows a web interface with a blue header bar containing navigation tabs: Basic, Advanced, Security, WiFi, WiFi Wizard (selected), and Status. A Logout link is in the top right corner. The main content area has a title "WiFi Network Advanced Settings" and a sub-instruction: "Please determine below settings for your WiFi network." There are several settings: "TX Data Rate" (Auto), "Transmission Power Level" (100%), "Preamble Mode" (Auto), "Beacon Interval (ms)" (100), "RTS Threshold" (2432), "Auto Power Control Mode" (Enable), and "Protection Frame Type" (RTS). There are also two explanatory lines: "You must enter an integer between 20~1000 in the beacon interval field, default is 100 ms." and "You must enter an integer between 0~2432 in the RTS threshold field, default is 2432." At the bottom are "Next" and "Back" buttons.

This sub-page configures either WEP-64 or WEP-128 key settings, if WEP encryption is chosen for device server' s WiFi network. The Key Index selects the active key to use among the 4 Key Indexes. Note that the key length must be 10 characters for WEP 64 bits or 26 characters for WEP 128 bits.

3.3.6.4 The Wizard Complete Successfully sub-page



Basic Advanced Security WiFi **WiFi Wizard** Status [Logout](#)

The Wizard Complete Successfully

Your WiFi network settings are as below. You can press "Accept" button to take effect.

Network Setting: infrastructure

Channel: 1

Service Area Name/SSID: galaxywind

Security Mode: no security

Tx Data Rate: auto

Transmission Power: 100%

Preamble: auto

Beacon Interval: 100 ms

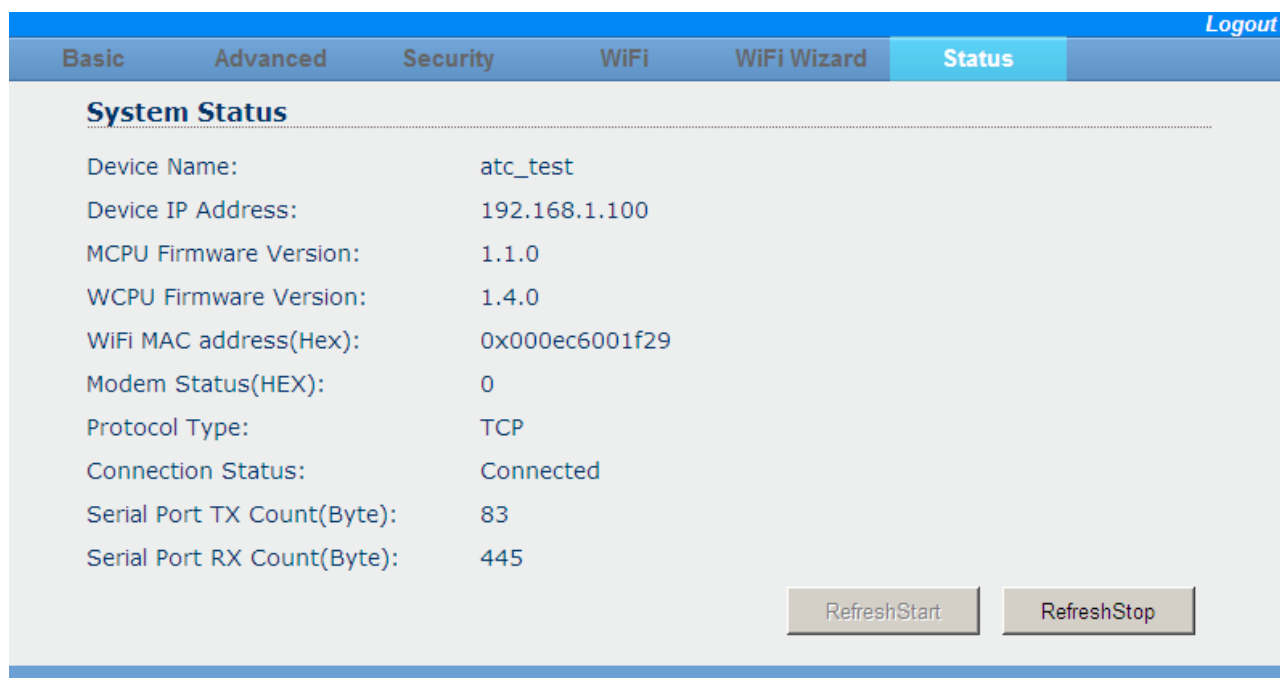
RTS Threshold: 2432

Auto Power Control: enable

Protection Frame Type: RTS

This sub-page displays the new WiFi settings user has configured but not yet saved to ATC-1000WF device. Now, user can review and confirm them.

3.3.7 Status Page



This page displays the current status of ATC-1000WF device server with auto-refreshing in every 3 seconds.

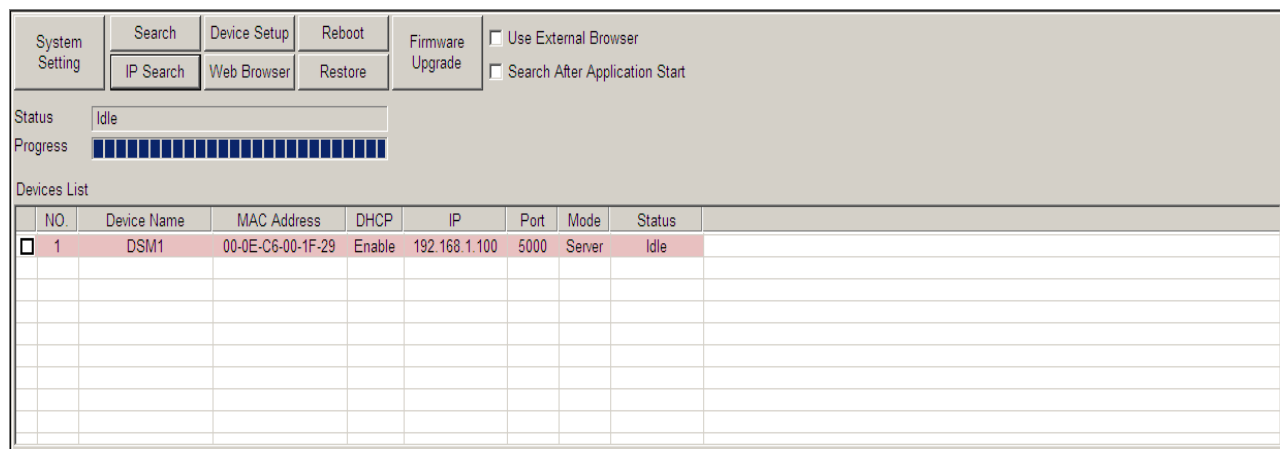
3.4 Software Function Description

This section describes the detailed information of various software functions available, such as AXR2W Configuration Utility.

3.4.1 Device Monitor Tool

This section describes the detailed functions of Device Monitor tool in AXR2W Configuration Utility.

3.4.1.1 Function Window



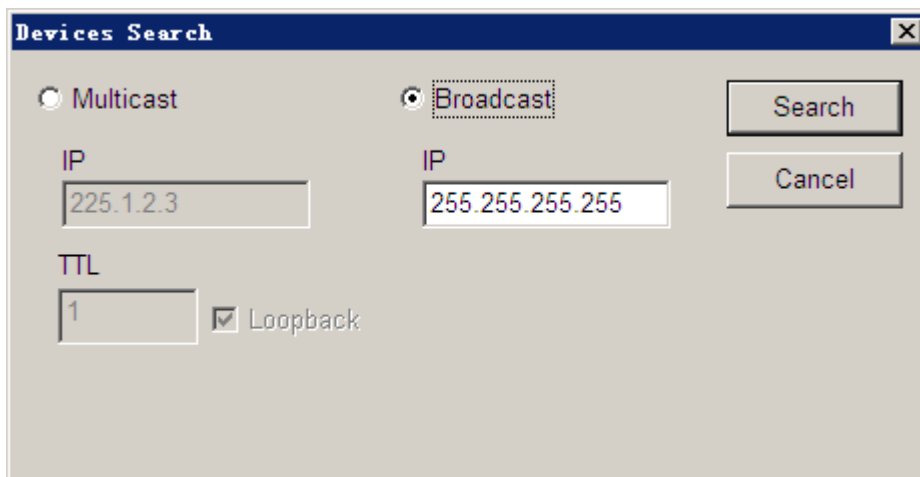
NO.	Device Name	MAC Address	DHCP	IP	Port	Mode	Status
<input type="checkbox"/> 1	DSM1	00-0E-C6-00-1F-29	Enable	192.168.1.100	5000	Server	Idle

The Device Management tool provides following functions:

- Ø **System Setting:** configures the Search, Reboot, and Reset period.
- Ø **Search:** searches for available AX220xx device(s) on the wireless LAN network.
- Ø **IP Search:** searches the AX220xx device with a specified IP address.
- Ø **Device Setup:** configures the settings of the selected AX220xx device.
- Ø **Web Browser:** opens remote configuration web server of the selected AX220xx device.
- Ø **Reboot:** restarts the selected AX220xx device.
- Ø **Restore:** configures the selected AX220xx device back to factory default settings and restarts it.
- Ø **Firmware Upgrade:** upgrades the firmware code of the selected AX220xx device.

3.4.1.2 Search Dialog

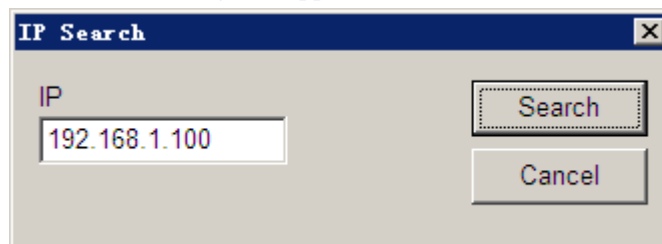
When click the **search** bottom,the search dialog will appear.



This function can support two ways to search device.One is UDP Multicast and UDP Broadcast.The default setting is Broadcast.

3.4.1.2 IP Search Dialog

When clicking IP Search, the IP Search dialog will appear.



Enter the IP address of the device to search the device. E.g.:192.168.1.100

3.4.1.3 Device Setup Dialog

When clicking Device Setup, the Device Setup dialog will pop up with 4 tabs: **Network Setting, Serial Port Setting, WiFi Setting, and DHCP Server Setting.**

Device Setup
✕

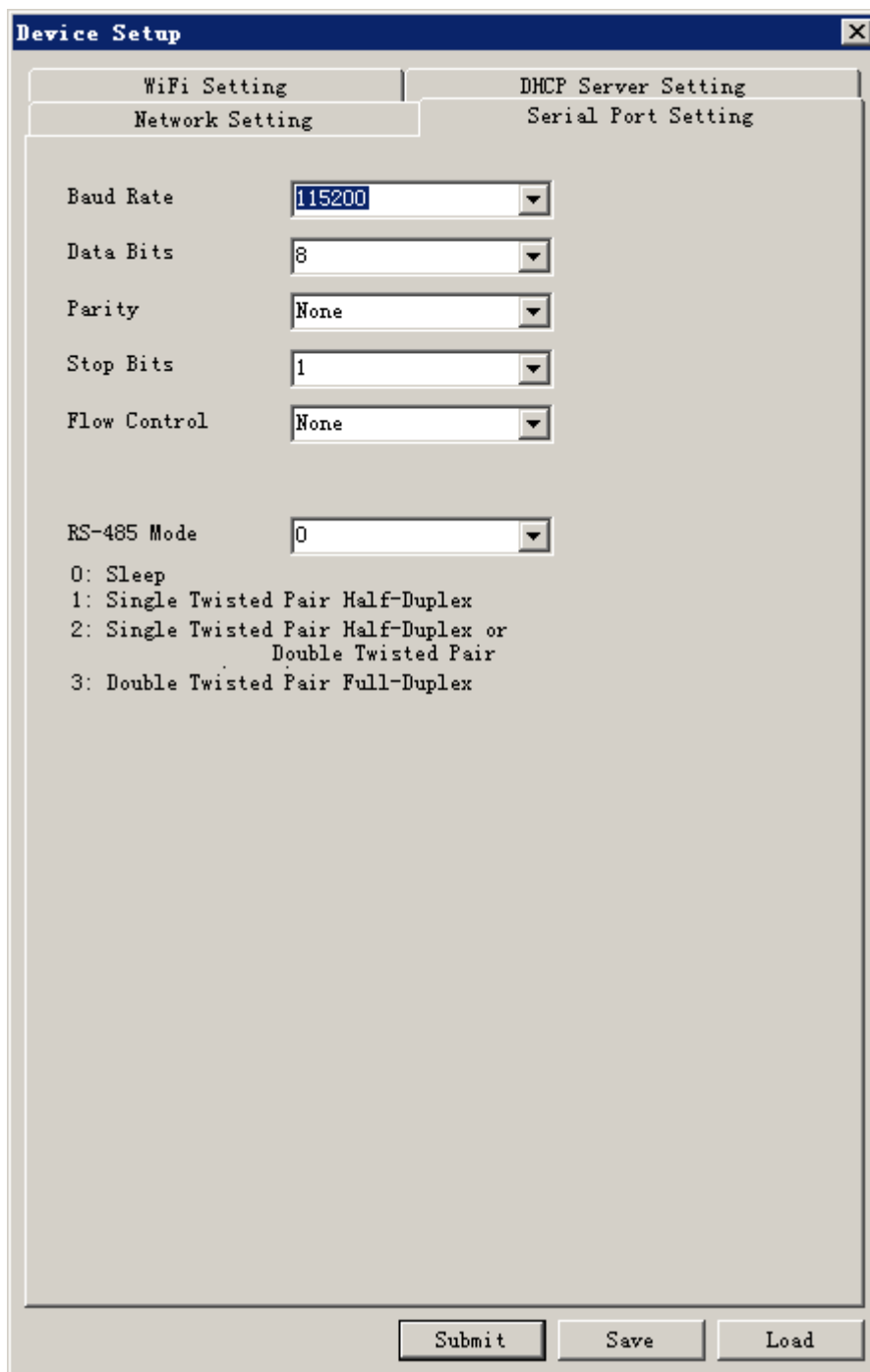
WiFi Setting	DHCP Server Setting
Network Setting	Serial Port Setting

Device Name	<input type="text" value="DSM1"/>			
MAC Address	<input type="text" value="00-0E-C6-00-1F-29"/>			
DHCP	<input type="text" value="Enable"/>	Data Packet Type <input type="checkbox"/> UDP <input checked="" type="checkbox"/> TCP <input type="checkbox"/> Auto connect after reboot		
<input checked="" type="radio"/> Server Static IP <input type="text" value="192.168.1.100"/> Data Listening <input type="text" value="5000"/>		Management Packet Type <input checked="" type="checkbox"/> Broadcast <input type="checkbox"/> Multicast		
<input type="radio"/> Client Destination Port <input type="text" value="5000"/> Destination Hostname/IP <input type="text" value="192.168.2.2"/>				
Subnet Mask	<input type="text" value="255.255.255.0"/>	Accessible IP Addresses <input type="checkbox"/> Enable IP <input type="text" value="0.0.0.0"/> IP 2 <input type="text" value="0.0.0.0"/> IP 3 <input type="text" value="0.0.0.0"/> IP 4 <input type="text" value="0.0.0.0"/>		
Gateway	<input type="text" value="192.168.2.1"/>			
DNS Server	<input type="text" value="168.95.1.1"/>			
Transmit Timer	<input type="text" value="100"/>			
SMTP Configuration Parameters				
Domain Name	<input type="text" value="asix.com.tw"/>			
From Address	<input type="text" value="ds@asix.com.tw"/>			
To Address	<input type="text" value="to1@asix.com.tw"/>			
To Address	<input type="text" value="to2@asix.com.tw"/>			
To Address	<input type="text" value="to3@asix.com.tw"/>			
Event Enable/Disable				
IP	<input type="text" value="Disable"/>	Cold	<input type="text" value="Disable"/>	
Password Change	<input type="text" value="Disable"/>			
Authentication	<input type="text" value="Disable"/>			
<input type="button" value="Submit"/> <input type="button" value="Save"/> <input type="button" value="Load"/>				

Network Setting

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The screenshot shows a 'Device Setup' dialog box with a 'Serial Port Setting' tab selected. The dialog has a title bar with a close button. Inside, there are four tabs: 'WiFi Setting', 'DHCP Server Setting', 'Network Setting', and 'Serial Port Setting'. The 'Serial Port Setting' tab contains the following settings:

- Baud Rate: 115200
- Data Bits: 8
- Parity: None
- Stop Bits: 1
- Flow Control: None
- RS-485 Mode: 0

Below the RS-485 Mode dropdown, there is a list of options:

- 0: Sleep
- 1: Single Twisted Pair Half-Duplex
- 2: Single Twisted Pair Half-Duplex or Double Twisted Pair
- 3: Double Twisted Pair Full-Duplex

At the bottom of the dialog, there are three buttons: 'Submit', 'Save', and 'Load'.

Serial Port Setting

Device Setup
✕

Network Setting

Serial Port Setting

WiFi Setting

DHCP Server Setting

System Settings

Wireless Mode	<input type="text" value="802.11b/g"/>
Network Mode	<input type="text" value="Infrastructure"/>
Channel	<input type="text" value="1"/>
Service Area	<input type="text" value="galaxywind"/>
Security Mode	<input type="text" value="No Security"/>

WEP Encryption Key Settings

Key Length	<input type="text" value="64 bits"/>
Key Index Select	<input type="text" value="Key Index 0"/>
Key Index	<input type="text" value="1234567890"/>
Key Index	<input type="text" value="0987654321"/>
Key Index	<input type="text" value="A1B2C3D4E5"/>
Key Index	<input type="text" value="0123456789"/>

(Please enter 10 or 26 Hex digits for 64 or 128 bits)

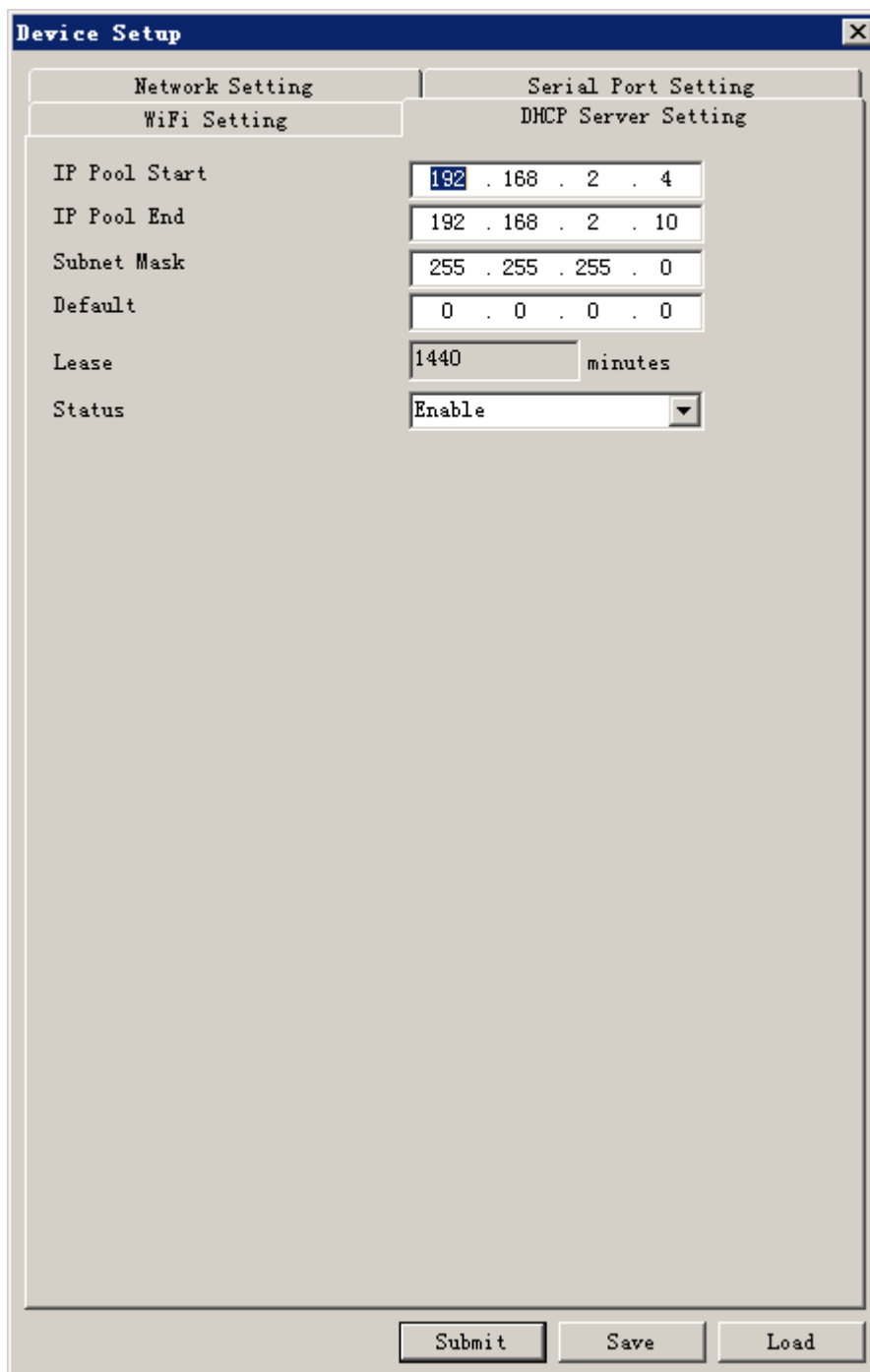
AES/TKIP Encryption Key Settings

AES/TKIP Passphrase (8 ~ 63)	<input type="text" value="12345678"/>
------------------------------	---------------------------------------

WiFi Advanced Settings

TX Data Rate	<input type="text" value="Auto"/>
Transmission Power Level	<input type="text" value="100%"/>
Preamble Mode	<input type="text" value="Auto"/>
Beacon Interval (20ms ~)	<input type="text" value="100"/> ms
RTS Threshold (0 ~)	<input type="text" value="2432"/>
Auto Power Control Mode	<input type="text" value="Enable"/>
Protection Frame Type	<input type="text" value="RTS"/>

Wifi Setting



Network Setting		Serial Port Setting	
WiFi Setting		DHCP Server Setting	
IP Pool Start	192 . 168 . 2 . 4		
IP Pool End	192 . 168 . 2 . 10		
Subnet Mask	255 . 255 . 255 . 0		
Default	0 . 0 . 0 . 0		
Lease	1440	minutes	
Status	Enable		

Submit Save Load

DHCP Server Setting

3.4.1.4 Firmware Upgrade Dialog

Note that before user performs the firmware upgrade, one should start TFTP Server tools first.

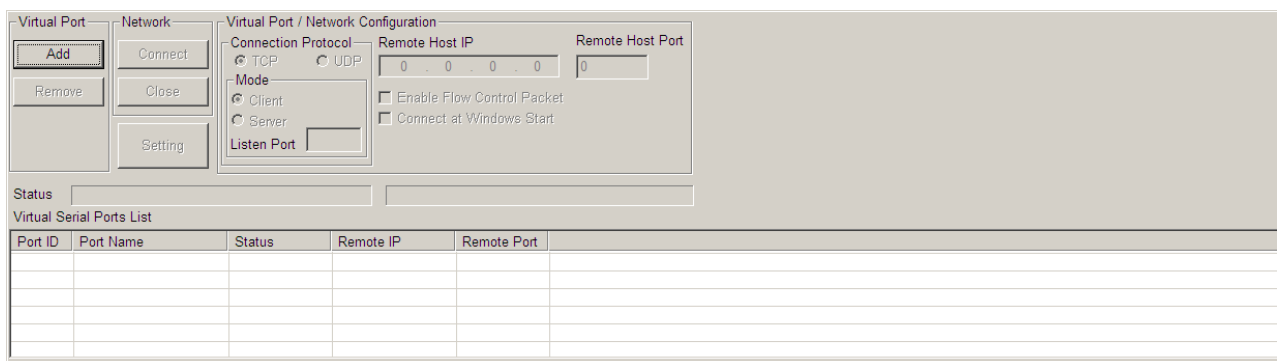
- Ø Select the target ATC-1000WF RS-232 to WiFi device from the Devices List.
- Ø Click Firmware Upgrade to bring up the Firmware Upgrade dialog.
- Ø Choose the firmware file type.

- Ø Input a correct ATC-1000WF RS-232 to WiFi firmware file name.
- Ø Input the TFTP server IP address.
- Ø Click Upgrade Firmware to start upgrading the new ATC-1000WF firmware code.

3.4.2 Virtual Serial Port

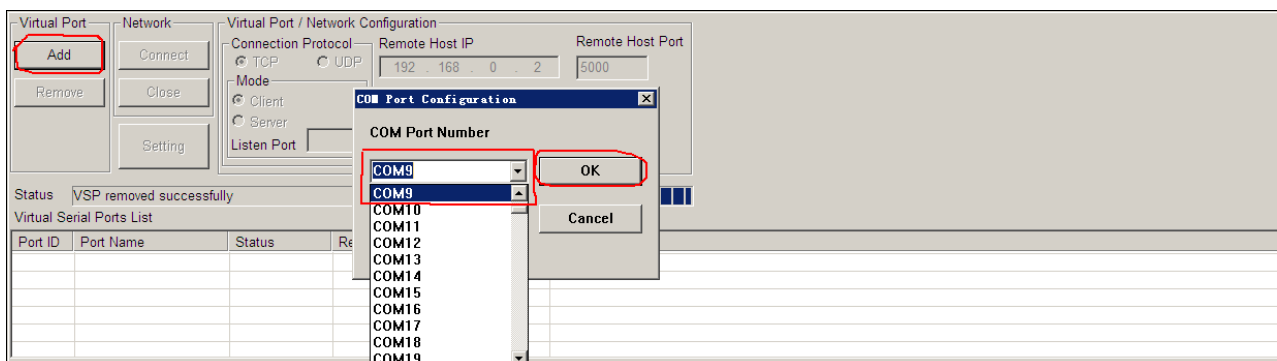
This section describes the detailed functions of Virtual Serial Port tool in AXR2W Configuration Utility.

3.4.2.1 Function Window

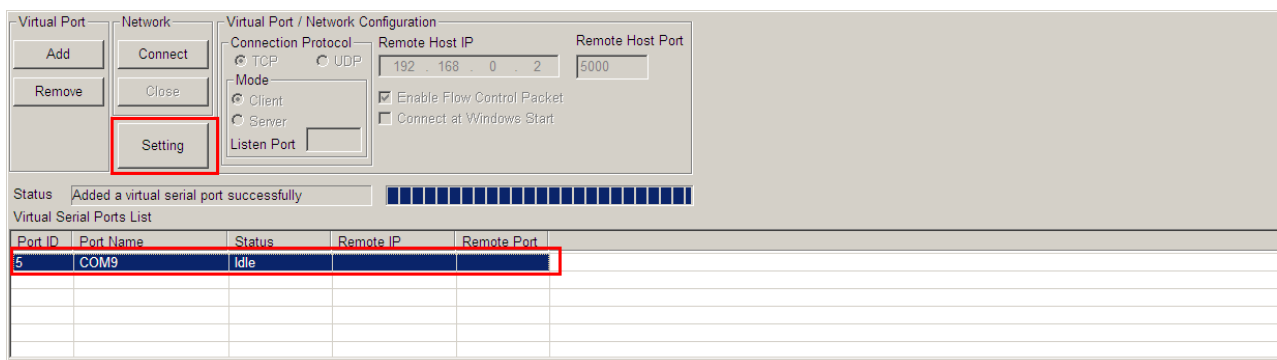


3.4.2.2 Add a Virtual Port

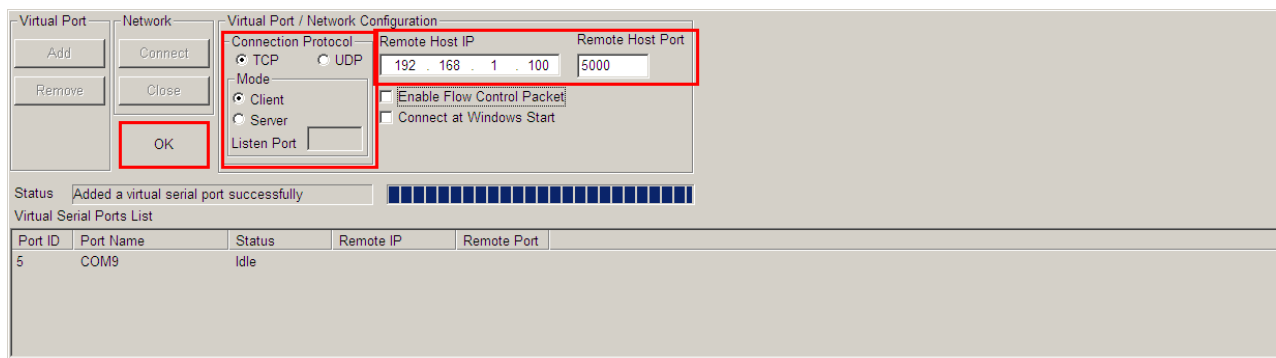
Step 1: Click Add to add a Virtual Serial Port. Below example shows a COM9 Virtual Serial Port being added.



Step2: Select the added Serial Port from the Ports List. And then click setting.



Step3: Select Protocol and work mode, enter the IP address and port number of ATC-1000WF which you want to make a Virtual Port. Then press OK.



3.5 Configure via Telnet

When user wants to use the console through a Telnet client, user must run the Telnet client on PC and the DS must have established the WiFi connection with PC already.

For example, under DOS prompt, user can enter “*telnet 192.168.1.100*”. Then the Telnet client will establish the connection with ATC-100WF’s Telnet server and the message “*username:* “ will show up, if successful. Follow the steps above to login the console of ATC-1000WF.

The command under telnet is same to the command under serial port.

Note: if user enter “telnet IP_Address PortNo.” will enter to the data transmitter mode. For example: “*telnet 192.168.1.100 5000*”.



**Room809, Taikang Building, Tairan Industrial&Trading
ZoneFutian District, Shenzhen,P.R China**

Tel: +86 755 - 8345 - 3318

Fax:+86 755 - 8355 - 5891

E-mail:<mailto:tech@szatc.com>

WEB:<http://www.szatc.com>