
Model ATC-1000WF

WiFi Solutions for Serial Connections

User Manual



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Important Announcement

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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.

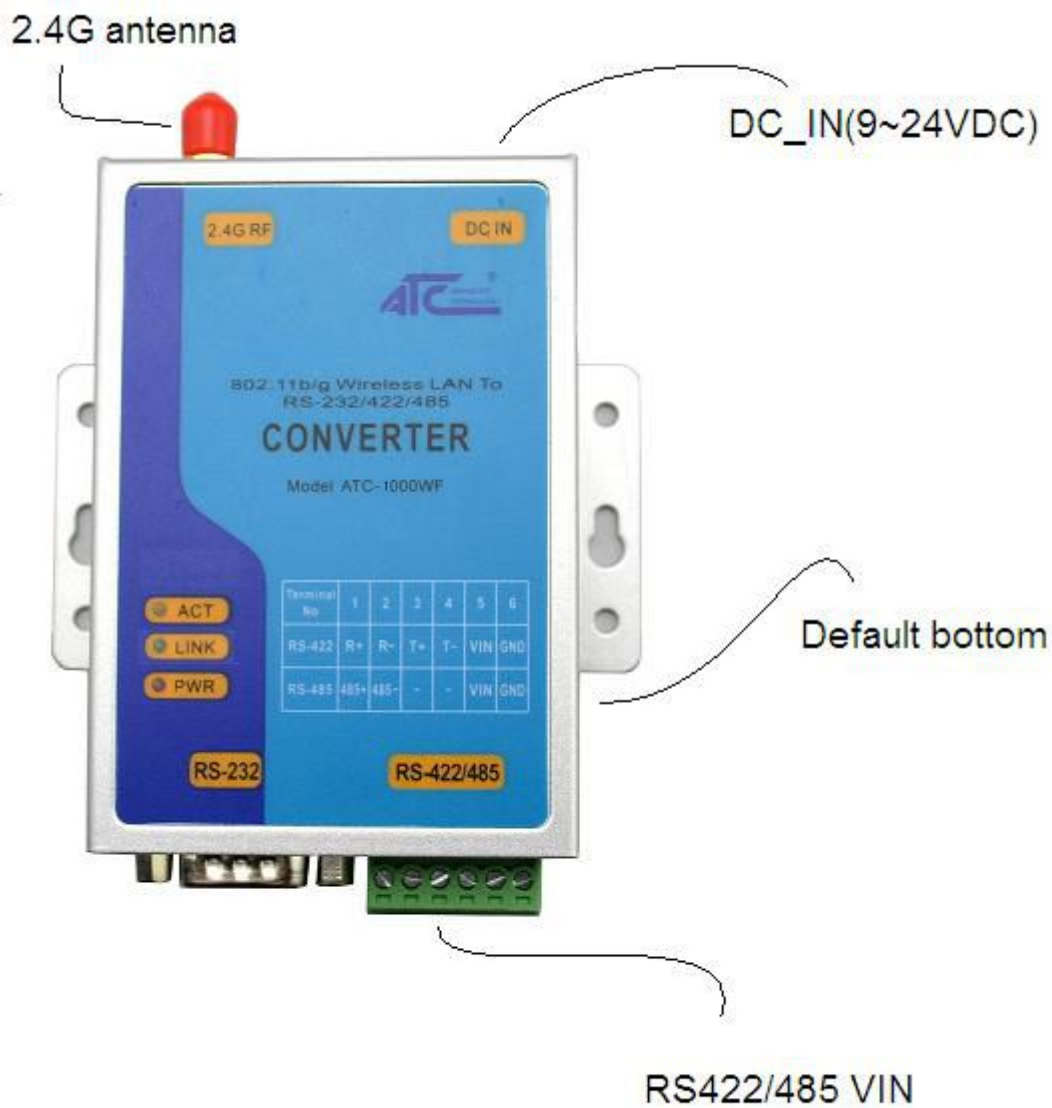
To make your management task easier, the ATC-1000WF provides additional features, such as password authentication, IP filter, WEP support for 64-bit and 128-bit encryption, and SNMP support.

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:

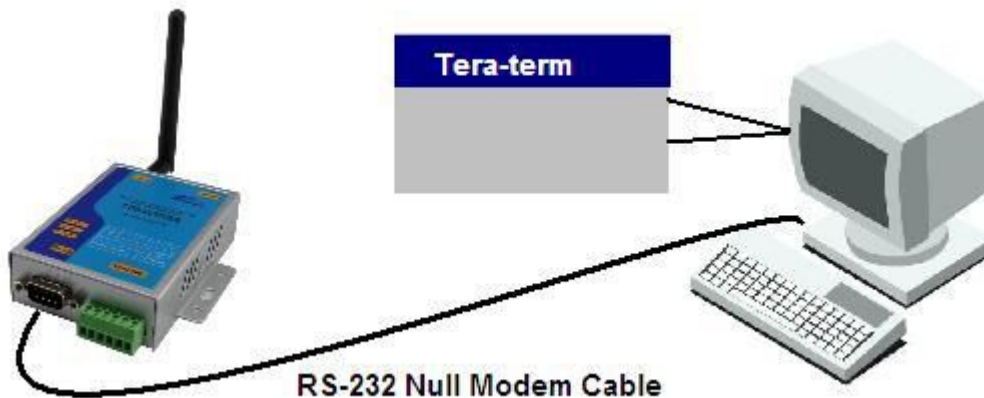
Uses a RS232 or RS422 or RS485 data cable connect the ATC-1000WF to user's device.

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.



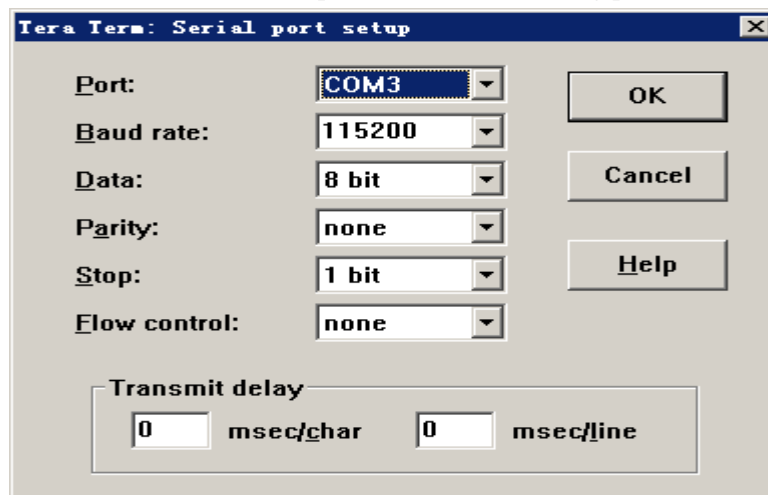
3.1 Configuration Introduction

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

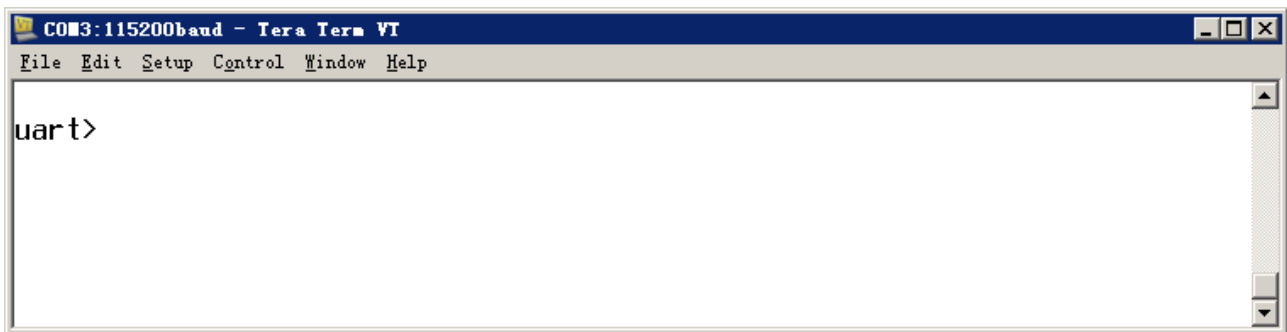
3.2 Configure via Tera-Term

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

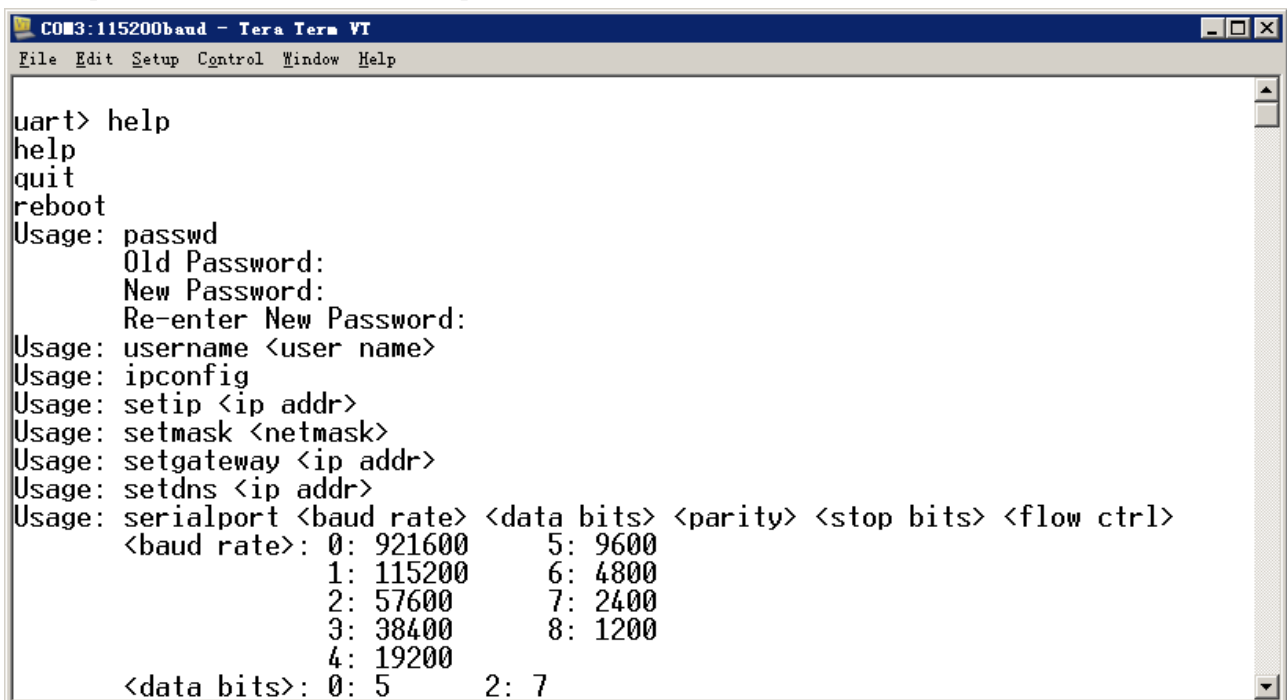
Firstly,configure **Tera-Term** with the default parameters,like following picture.



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



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



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 to 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

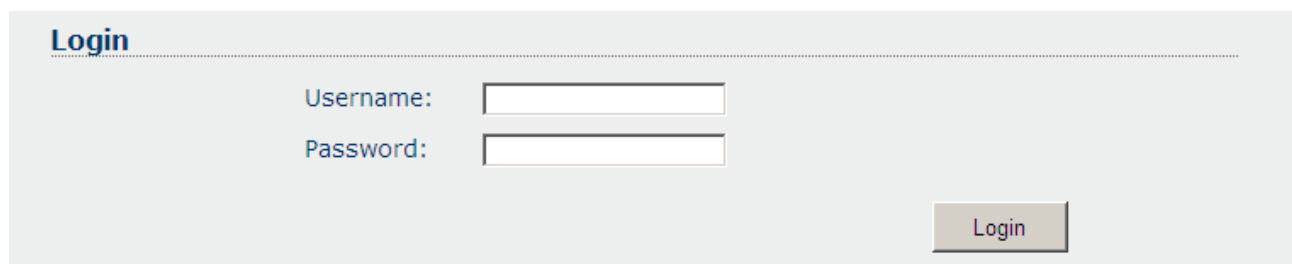
Here we will use Infra mode (AP) as example.And you also can use Ad-Hoc mode to do this,the webpage is same. When access to a router by AP mode, the product will assign an IP address by router. For example:192.168.1.100.

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.



The screenshot shows a web page titled "Login". It contains two input fields: "Username:" and "Password:". To the right of the "Password:" field is a "Login" button.

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.

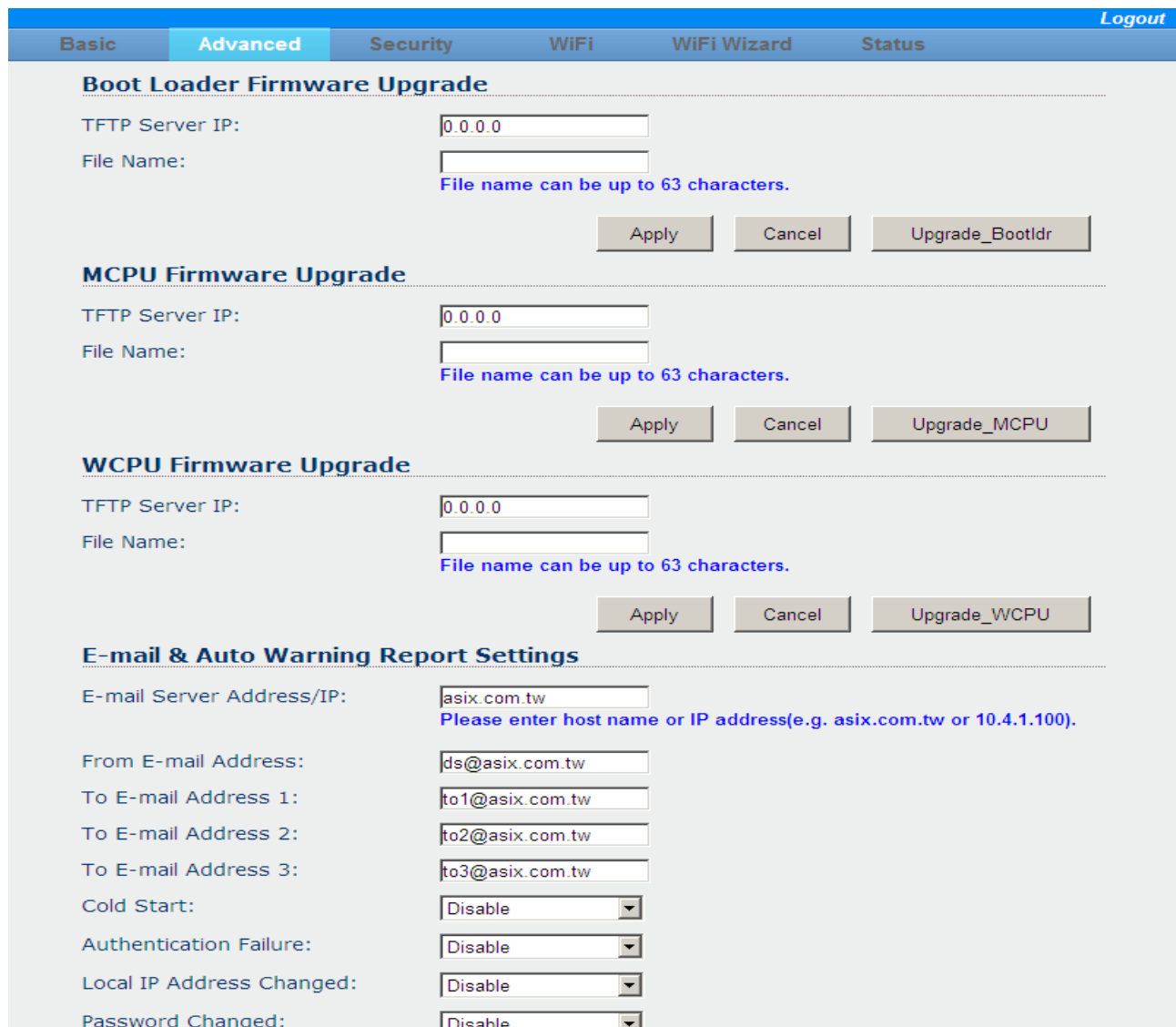
Ø **Cancel**: cancels the changed settings on this page.

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



The screenshot shows the 'Advanced' tab of the ATC web interface. It contains four sections: 'Boot Loader Firmware Upgrade', 'MCPMU Firmware Upgrade', 'WCPMU Firmware Upgrade', and 'E-mail & Auto Warning Report Settings'. Each firmware upgrade section has input fields for 'TFTP Server IP' (default 0.0.0.0) and 'File Name' (with a note 'File name can be up to 63 characters.'), and buttons for 'Apply', 'Cancel', and a specific upgrade button ('Upgrade_Bootldr', 'Upgrade_MCPMU', 'Upgrade_WCPMU'). The email settings section includes fields for 'E-mail Server Address/IP' (default asix.com.tw), 'From E-mail Address' (default ds@asix.com.tw), and three 'To E-mail Address' fields (defaults to1@asix.com.tw, to2@asix.com.tw, to3@asix.com.tw). It also has dropdown menus for 'Cold Start', 'Authentication Failure', 'Local IP Address Changed', and 'Password Changed', all currently set to 'Disable'.

This page supports 3 firmware upgrade buttons. 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_MCPMU:** upgrades the MCPMU firmware and then reboot the device server.

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

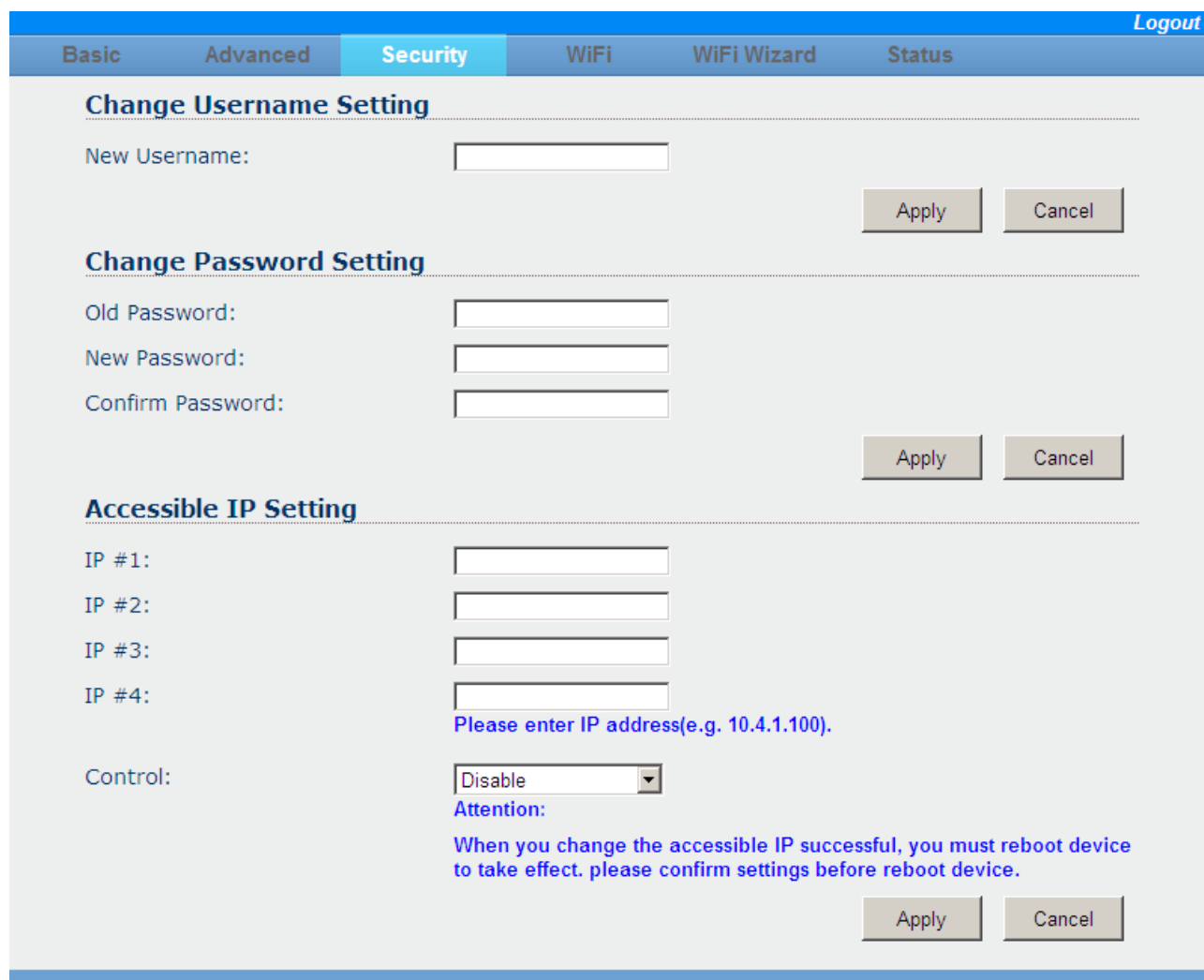
User should enter correct TFTP server IP address and the firmware file name (without file path is fine) for upgrade before clicking these bottoms.

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:		Infrastructure													
Channel:		1													
Service Area Name/SSID:		galaxywind													
Security Mode:		No Security													
WEP Encryption Key Settings															
Key Length:		64 bits													
Key Index Select:		Key Index 0													
Key Index 0:		1234567890													
Key Index 1:		0987654321													
Key Index 2:		a1b2c3d4e5													
Key Index 3:		0123456789													
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:		12345678													
Please enter a string between 8~63 digits in length.															
												Apply		Cancel	
WiFi Advanced Settings															
TX Data Rate:		Auto													
Transmission Power Level:		100%													
Preamble Mode:		Auto													
Beacon Interval (ms):		100													
Please enter an integer between 20~1000.															
RTS Threshold:		2432													
Please enter an integer between 0~2432.															
Auto Power Control Mode:		Enable													

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

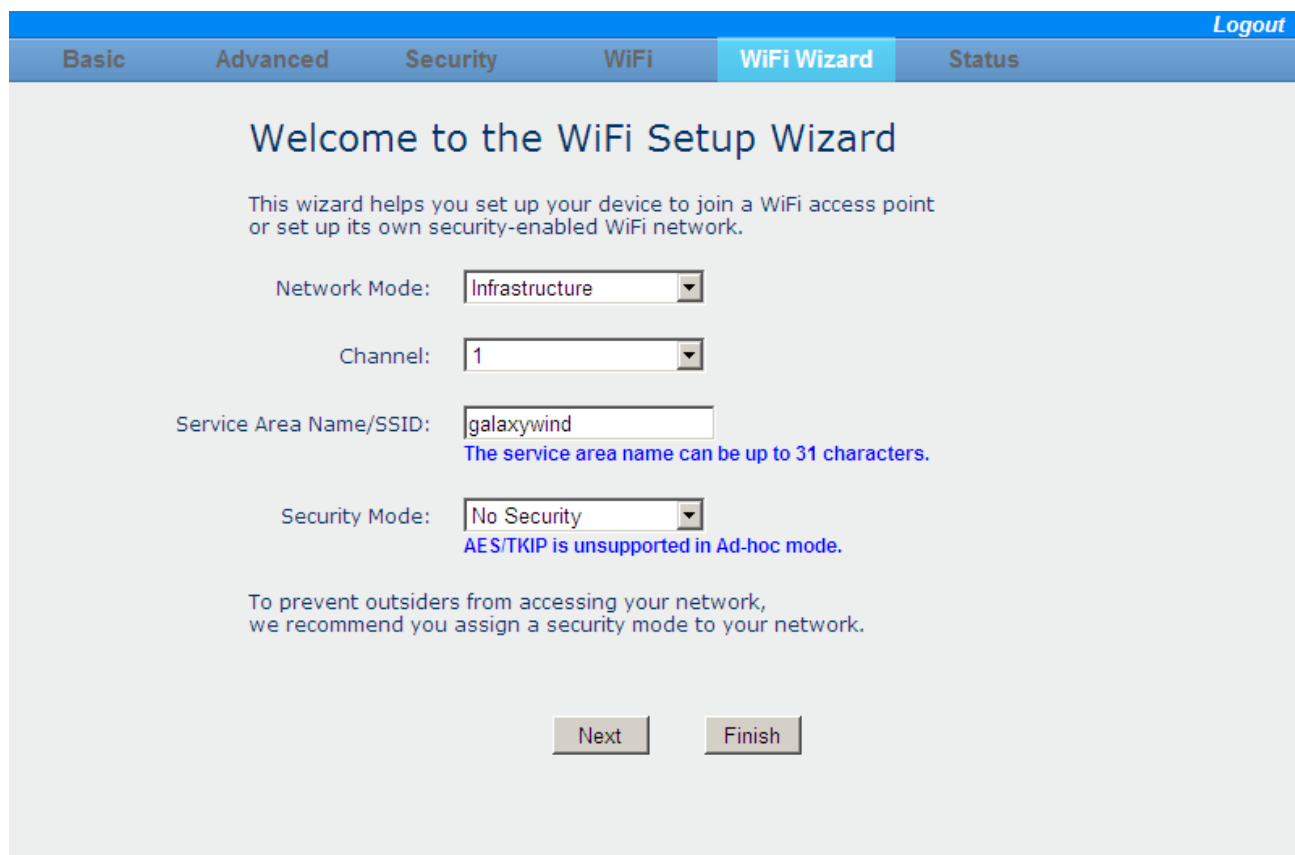
press Cancel to cancel the operation.

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 in the top right corner. The main content area has the title 'Welcome to the WiFi Setup Wizard' and a description: '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 stating 'The service area name can be up to 31 characters.'), and 'Security Mode' (dropdown menu set to 'No Security' with a note below it stating 'AES/TKIP is unsupported in Ad-hoc mode.'). At the bottom, there are two buttons: 'Next' and 'Finish'.

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

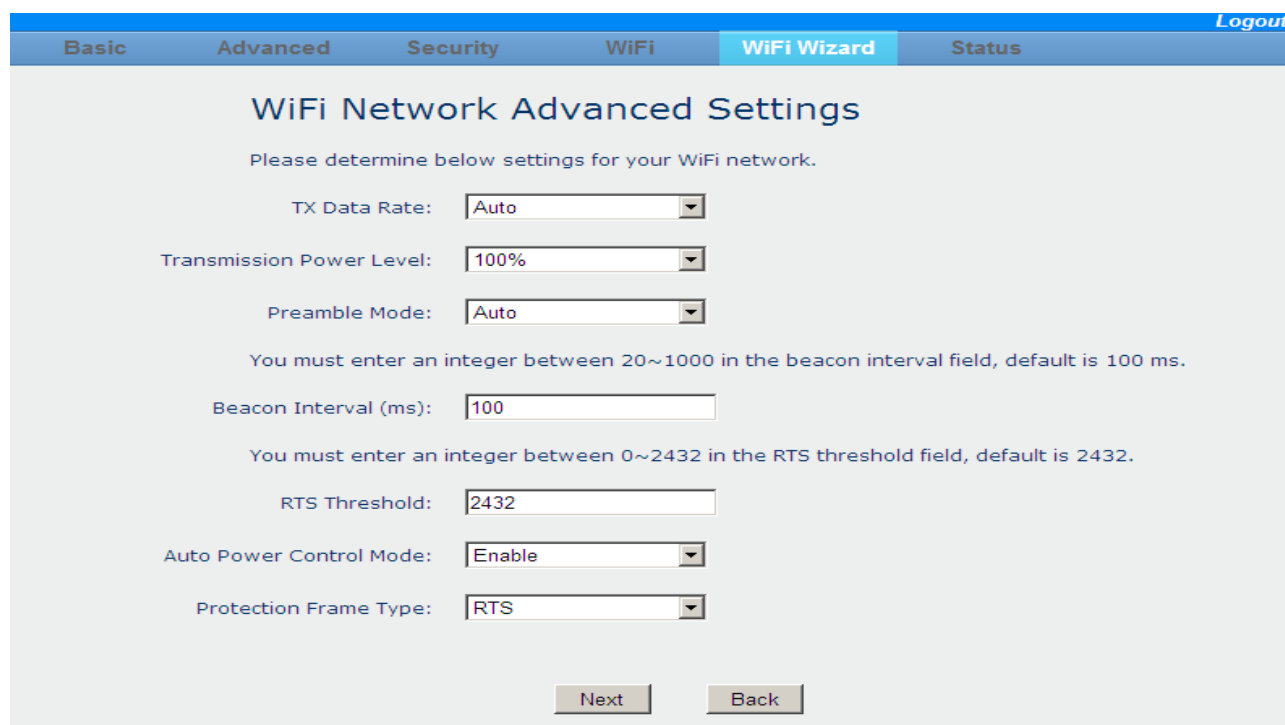
3.3.6.2 Encryption Selection sub-page



The screenshot shows the 'WiFi Wizard' tab selected in the top navigation bar. The page title is 'Select an Encryption Type for Your WiFi Network'. Below the title, there is a sub-header: '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'. The 'Use the previous key settings' option is selected. At the bottom, there 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 the 'WiFi Wizard' tab selected in the top navigation bar. The page title is 'WiFi Network Advanced Settings'. Below the title, there is a sub-header: 'Please determine below settings for your WiFi network.' There are several settings with dropdown menus or text input fields: '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 two instructional messages: '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, there 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

[Logout](#)

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

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

[Logout](#)

Basic	Advanced	Security	WiFi	WiFi Wizard	Status
-------	----------	----------	------	-------------	--------

System Status

Device Name:	atc_test
Device IP Address:	192.168.1.100
MCPU Firmware Version:	1.1.0
WCPU Firmware Version:	1.4.0
WiFi MAC address(Hex):	0x000ec6001f29
Modem Status(HEX):	0
Protocol Type:	TCP
Connection Status:	Connected
Serial Port TX Count(Byte):	83
Serial Port RX Count(Byte):	445

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

System Setting	Search	Device Setup	Reboot	Firmware Upgrade	<input type="checkbox"/> Use External Browser <input type="checkbox"/> Search After Application Start
	IP Search	Web Browser	Restore		

Status: Idle

Progress:

Devices List

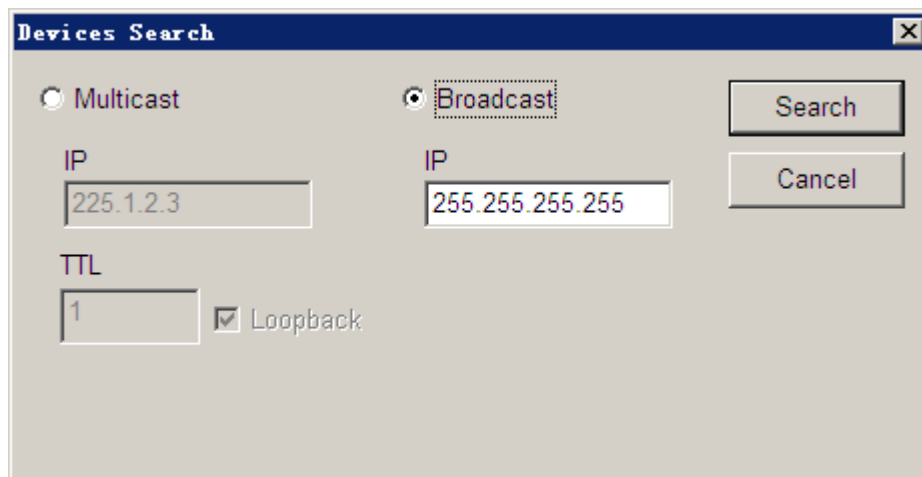
NO.	Device Name	MAC Address	DHCP	IP	Port	Mode	Status
<input type="checkbox"/>	1	DSM1	00-0E-C6-00-1F-29	Enable	192.168.1.100	5000	Server Idle

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: DSM1

MAC Address: 00-0E-C6-00-1F-29

DHCP: Enable

☒ Server

Static IP: 192.168.1.100

Data Listening: 5000

☐ Client

Destination Port: 5000

Destination Hostname/IP: 192.168.2.2

Subnet Mask: 255.255.255.0

Gateway: 192.168.2.1

DNS Server: 168.95.1.1

Transmit Timer: 100

Data Packet Type

☐ UDP

☒ TCP

☐ Auto connect after reboot

Management Packet Type

☒ Broadcast

☐ Multicast

Accessible IP Addresses

☐ Enable

IP: 0.0.0.0

IP 2: 0.0.0.0

IP 3: 0.0.0.0

IP 4: 0.0.0.0

SMTP Configuration Parameters

Domain Name: asix.com.tw

From Address: ds@asix.com.tw

To Address: to1@asix.com.tw

To Address: to2@asix.com.tw

To Address: to3@asix.com.tw

Event Enable/Disable

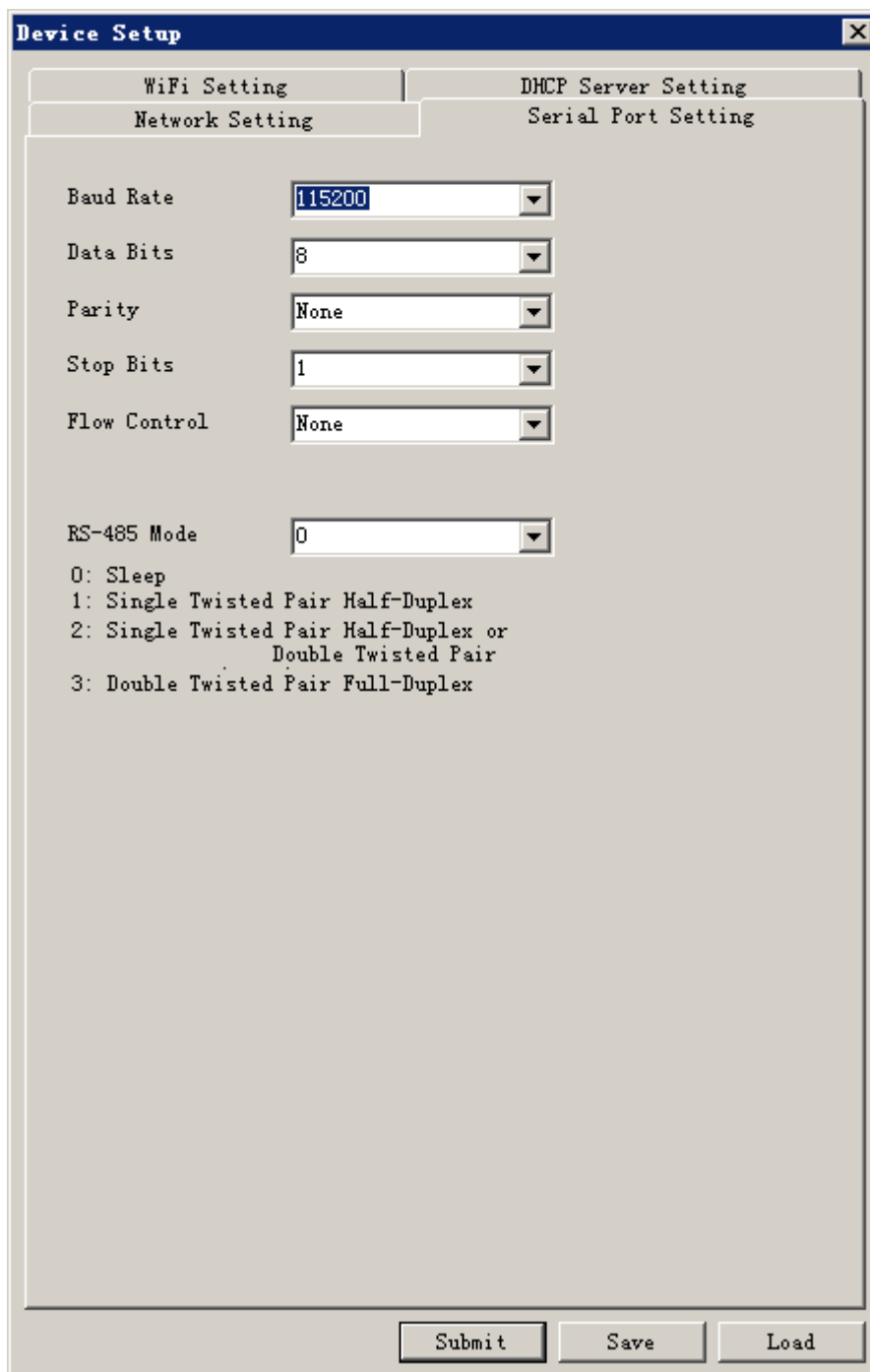
IP: Disable Cold: Disable

Password Change: Disable

Authentication: Disable

Submit Save Load

Network Setting



The image shows a 'Device Setup' dialog box with a blue title bar and a close button. It contains four tabs: 'WiFi Setting', 'DHCP Server Setting', 'Network Setting', and 'Serial Port Setting'. The 'Serial Port Setting' tab is active. It features several configuration options, each with a label and a dropdown menu. The 'Baud Rate' is set to 115200. 'Data Bits' is 8, 'Parity' is None, 'Stop Bits' is 1, and 'Flow Control' is None. The 'RS-485 Mode' is set to 0. Below the dropdowns, a list of RS-485 modes is provided: 0: Sleep, 1: Single Twisted Pair Half-Duplex, 2: Single Twisted Pair Half-Duplex or Double Twisted Pair, and 3: Double Twisted Pair Full-Duplex. At the bottom of the dialog are three buttons: 'Submit', 'Save', and 'Load'.

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

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

Submit Save Load

Serial Port Setting

Device Setup

Network Setting Serial Port Setting

WiFi Setting DHCP Server Setting

System Settings

Wireless Mode 802.11b/g

Network Mode Infrastructure

Channel 1

Service Area galaxywind

Security Mode No Security

WEP Encryption Key Settings

Key Length 64 bits

Key Index Select Key Index 0

Key Index 1234567890

Key Index 0987654321

Key Index A1B2C3D4E5

Key Index 0123456789

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

AES/TKIP Encryption Key Settings

AES/TKIP Passphrase (8 ~ 63)

12345678

WiFi Advanced Settings

TX Data Rate Auto

Transmission Power Level 100%

Preamble Mode Auto

Beacon Interval (20ms ~) 100 ms

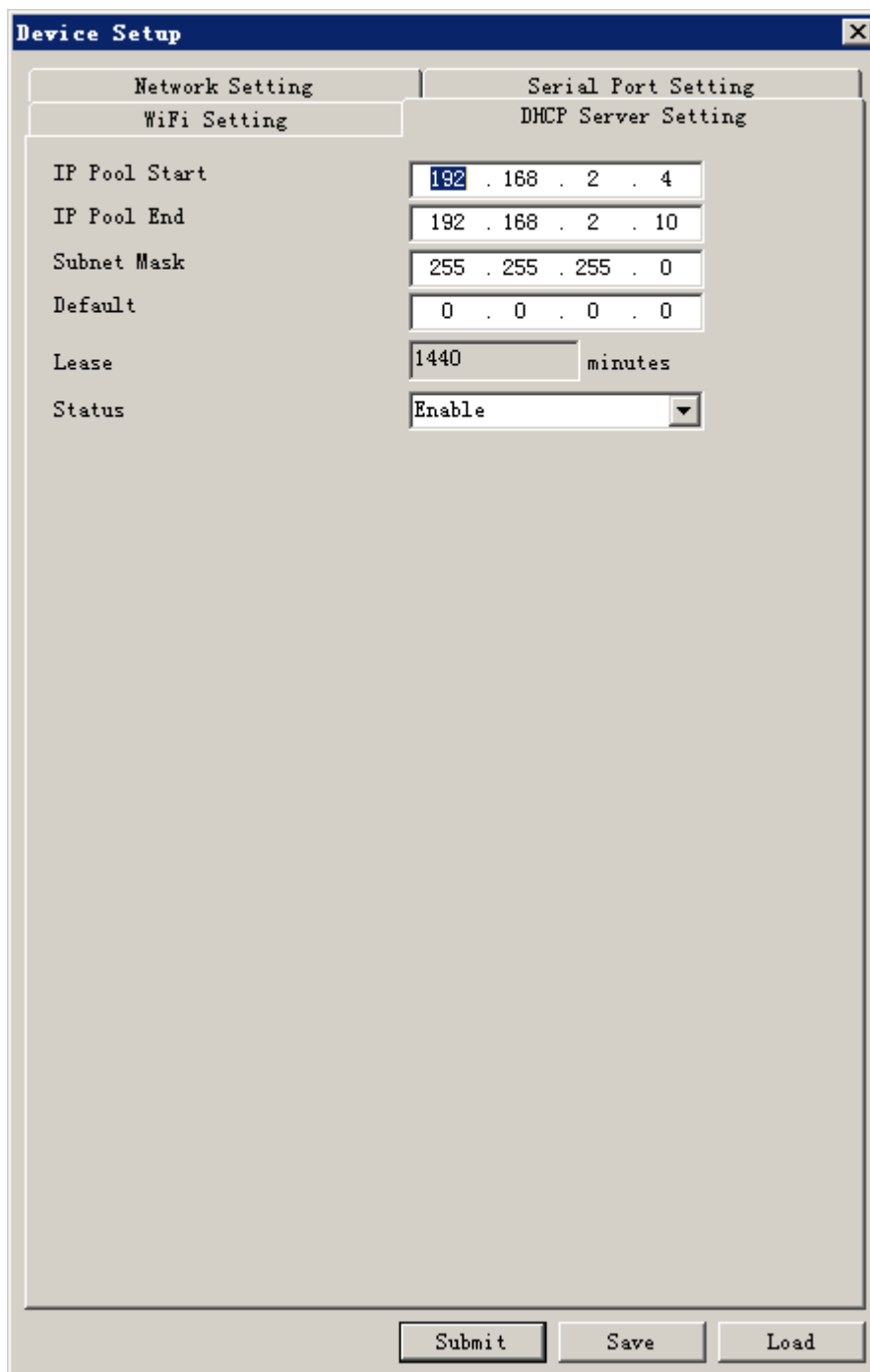
RTS Threshold (0 ~) 2432

Auto Power Control Mode Enable

Protection Frame Type RTS

Submit Save Load

Wifi Setting



The image shows a 'Device Setup' dialog box with a tabbed interface. The 'WiFi Setting' tab is selected, and within it, the 'DHCP Server Setting' sub-tab is active. The settings are as follows:

Field	Value
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

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

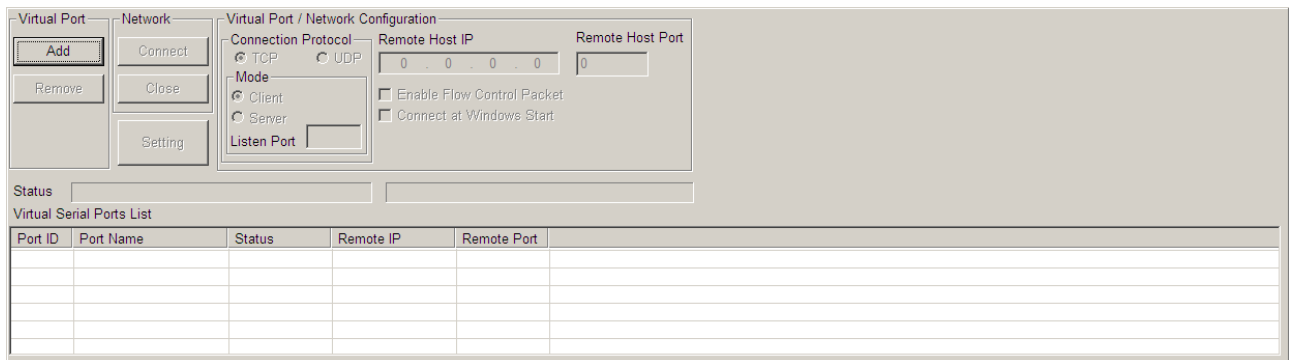
- Ø Select the target ATC-1000WF RS-232 to WiFi device from the Devices List.
- Ø Click Firmware Upgrade to bring up the Firmware Upgrade dialog.
- Ø Choose the firmware file type.

- 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.

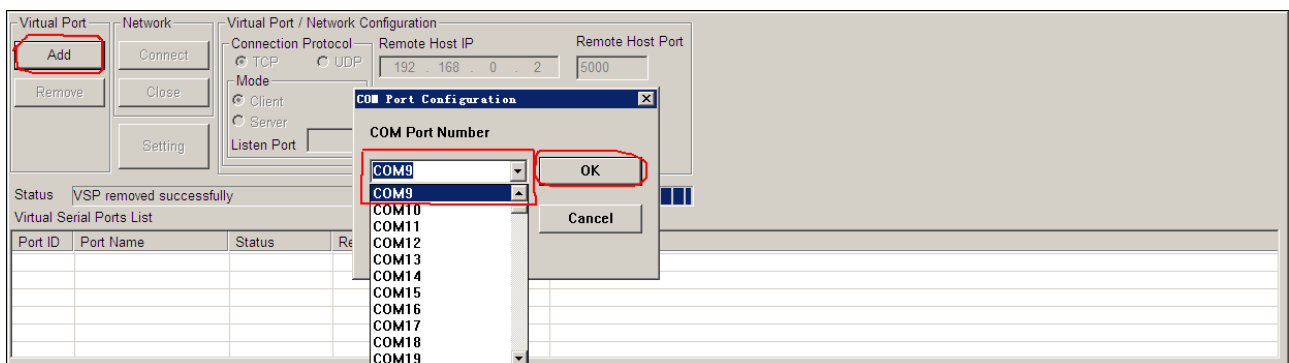
3.4.2.1 Function Window



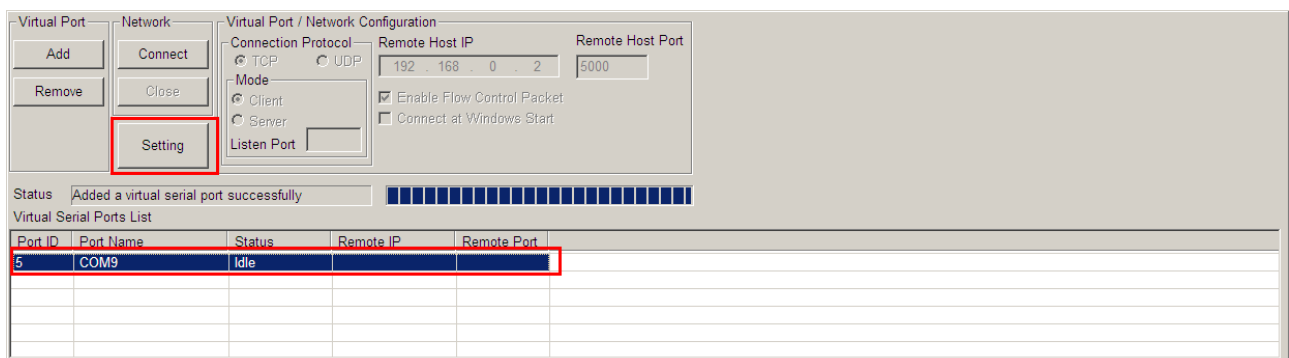
Port ID	Port Name	Status	Remote IP	Remote Port

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.

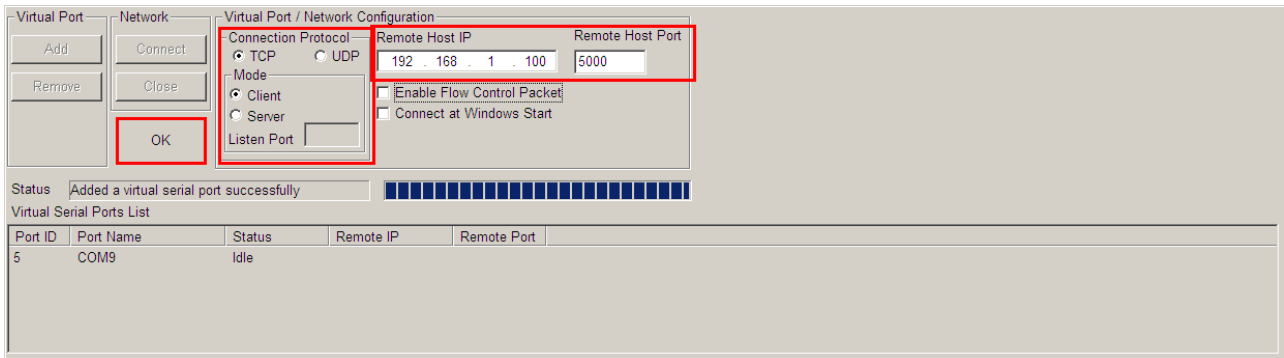


Step2: Select the added Serial Port from the Ports List. And then click setting.



Port ID	Port Name	Status	Remote IP	Remote Port
5	COM9	Idle		

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.



Port ID	Port Name	Status	Remote IP	Remote Port
5	COM9	Idle		

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*”.



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