IAR-630-C, IAR-630-D

User Manual

Version 1.0

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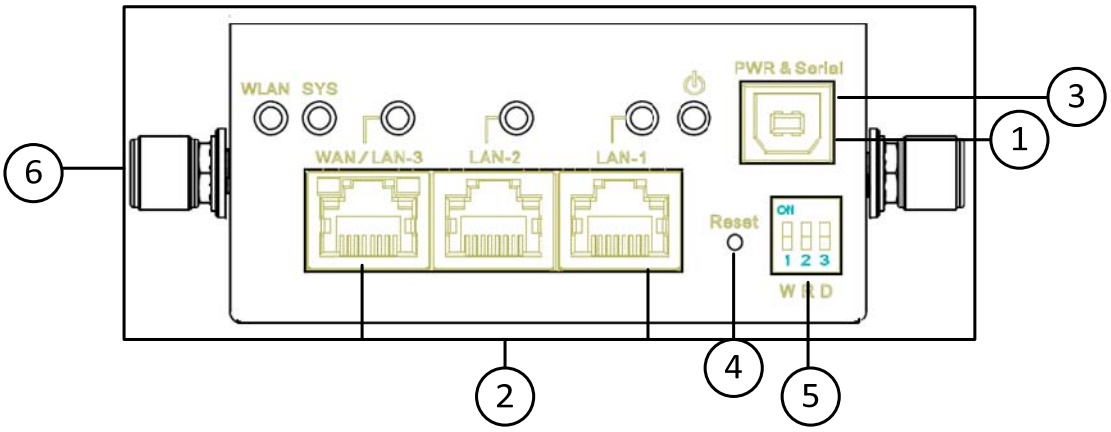
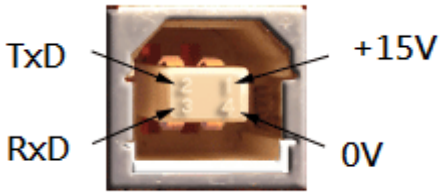
Hardware Overview

1. Interface Description



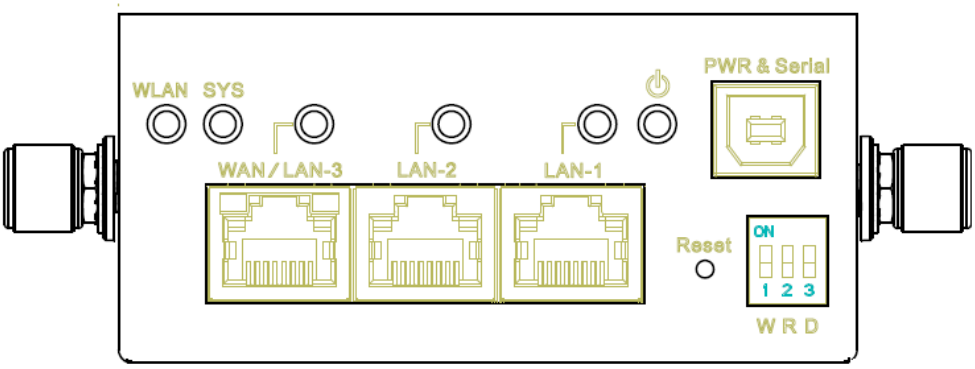
Item	Port		Description
1	PWR	PWR & Serial	15V(12~24V) DC Power Input
2	Ethernet	LAN-1	10/100Base-T(X)，RJ45
		LAN-2	10/100Base-T(X)，RJ45
		WAN/LAN-3	10/100/1000Base-T(X)， RJ45
3	Console	PWR & Serial	RS232，115200，8，1, None
4	Reset	Reset	Press reset button 5 seconds , then the device will restore default configure
5	DIP- Switch	W	ON:WAN OFF: LAN
		R	ON: RF Enable OFF: RF Disable
		D	ON: DHCP Enable OFF: DHCP Disable
6	ANT	ANT	SMA, Female

2. USB Connecter Pinout



Pin1: +15V
Pin2: UART_TxD
Pin3: UART_RxD
Pin4: 0V

3. LED Description

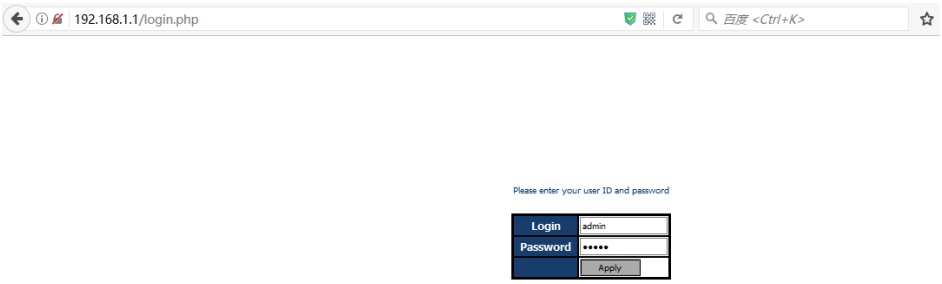


LED	Color	Status	Description
PWR	Green	ON	DC power is active
WLAN	Green	ON	WLAN is active
		Blinking	Data is being transmitted
SYS	Green	ON	System startup is complete
LAN	Green	ON	LAN port link is active
		Blinking	Data is being transmitted

Management Interface

1. Device Default Setting：

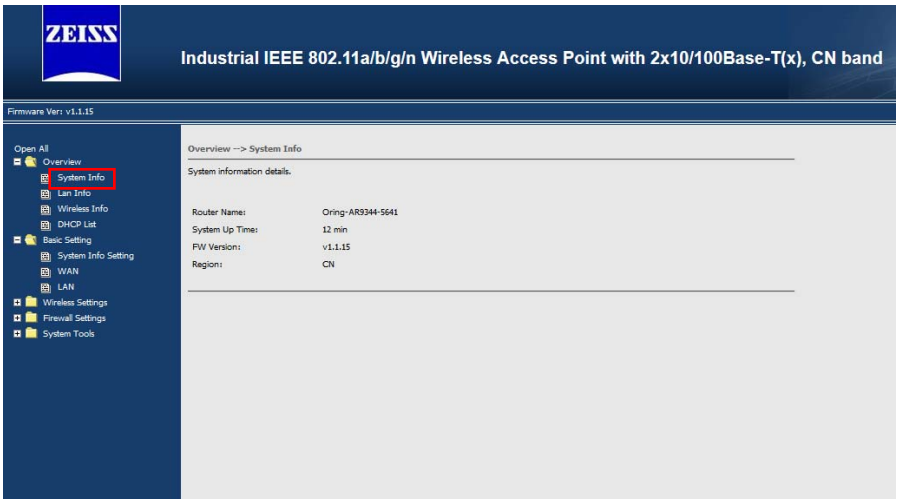
IP Addesss:192168.1.1/255.255.255.0
Username: admin
Password: admin



2. Over View

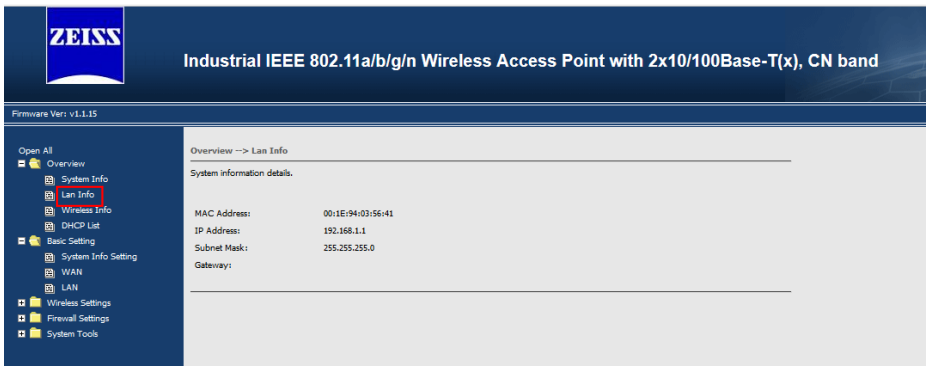
2.1 System Info

This Page will show the System Information in detail



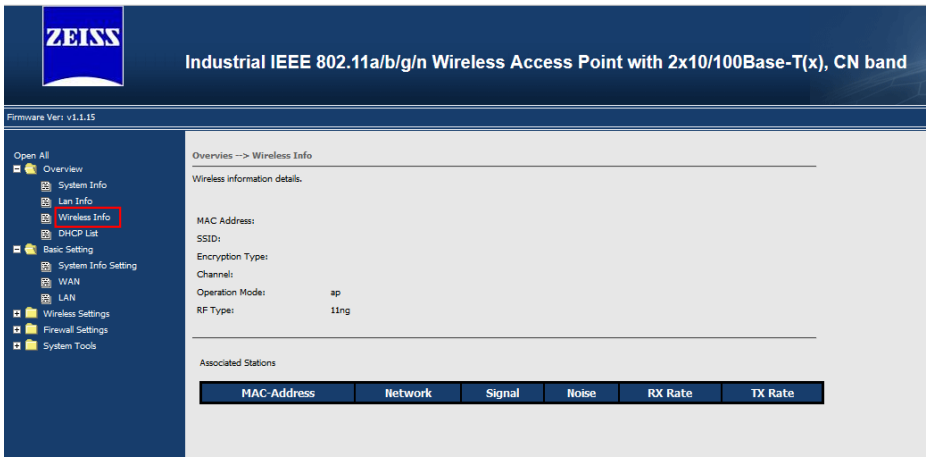
2.2 LAN Info

This Page will show the LAN Information in detail.



2.3 Wireless Info

This Page will show the wireless Information in detail.



2.4 DHCP List

This Page will show the wireless DHCP client list IP address and Mac address

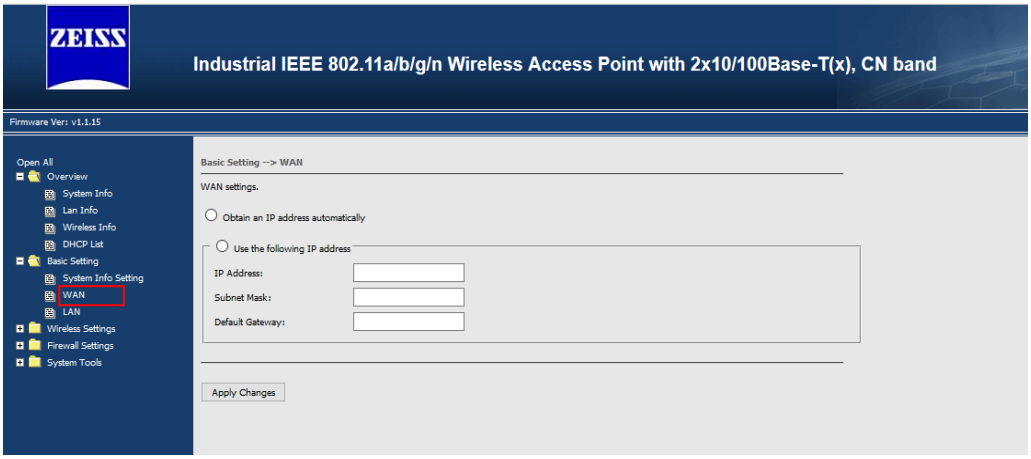
3. Basic Setting

3.1 System Info Setting

You can change the device name and click “Apply Change” button to save configuration.

3.2 WAN

System provides dip switch to easily configure LAN-3 Ethernet Port from LAN to WAN mode in order to connect to outside network, you can set the WAN IP by DHCP or Static IP mode.



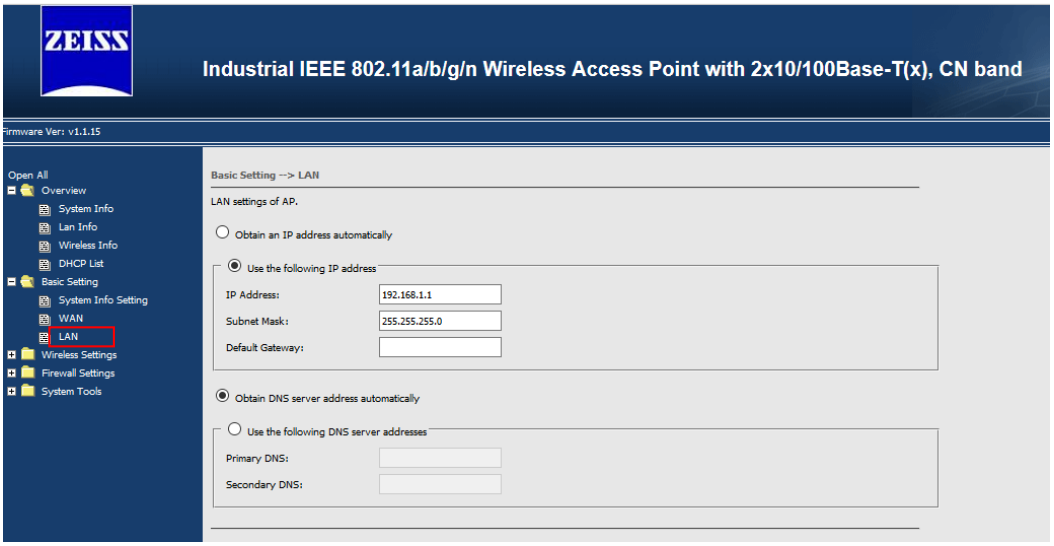
Label	Description
Obtain an IP address automatically	Select this option if you would like to obtain an IP address automatically assigned by DHCP server in your network
Use the following IP	Select this option if you are manually assigning an IP address, subnet and Gateway

address	

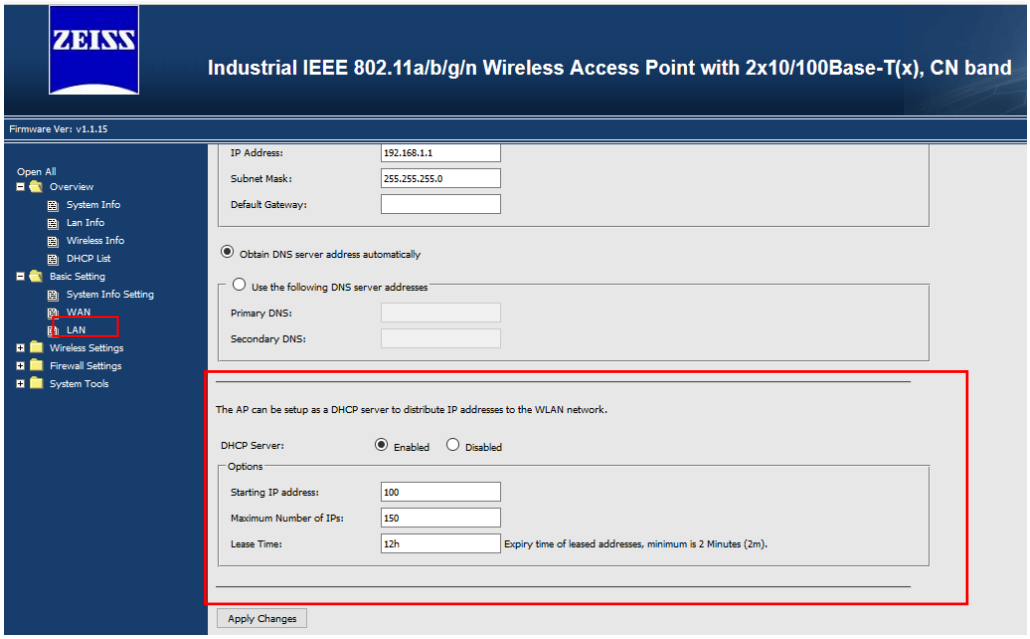
Note: 1. The device default LAN-3 Port is LAN mode, WAN mode is disable. You must first set the LAN port as WAN mode by Dip Switch “W”

.

3.3 LAN



Label	Description
Obtain an IP address automatically	Select this option if you would like to obtain an IP address automatically assigned by DHCP server in your network
Use the following IP address	Select this option if you are manually assigning an IP address.

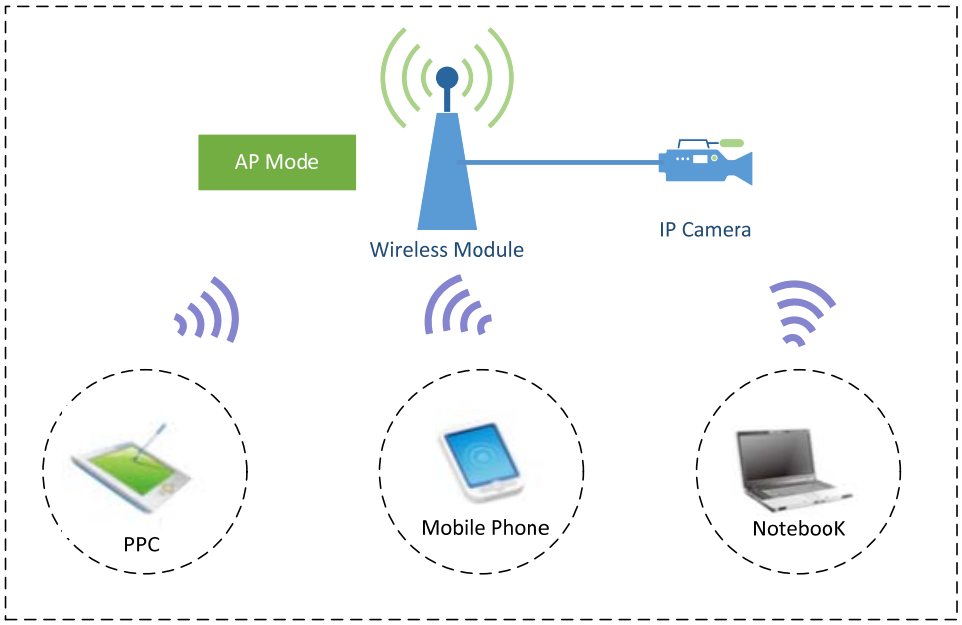


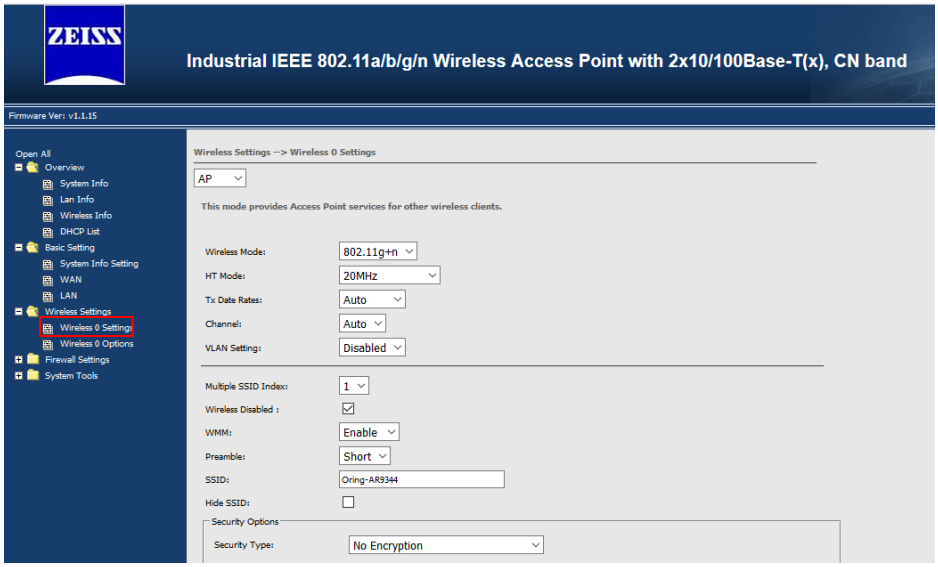
Label	Description
DHCP Server	Enable or Disable the DHCP Server function. Note: DHCP Enable/Disable is configured by DIP Switch
Starting IP address:	The dynamic IP assign range. Start IP address is the beginning of the dynamic IP assigns range.
Maximum Number of IPs:	The dynamic IP assign range. High IP address is the end of the dynamic IP assigns range.
Lease time	It is the time period that system will reset the dynamic IP assignment to ensure the dynamic IP will not been occupied for a long time or the server doesn't know that the dynamic IP is idle.

4. Wireless Setting

4.1 AP Mode

This mode provides Access Point services for other wireless clients





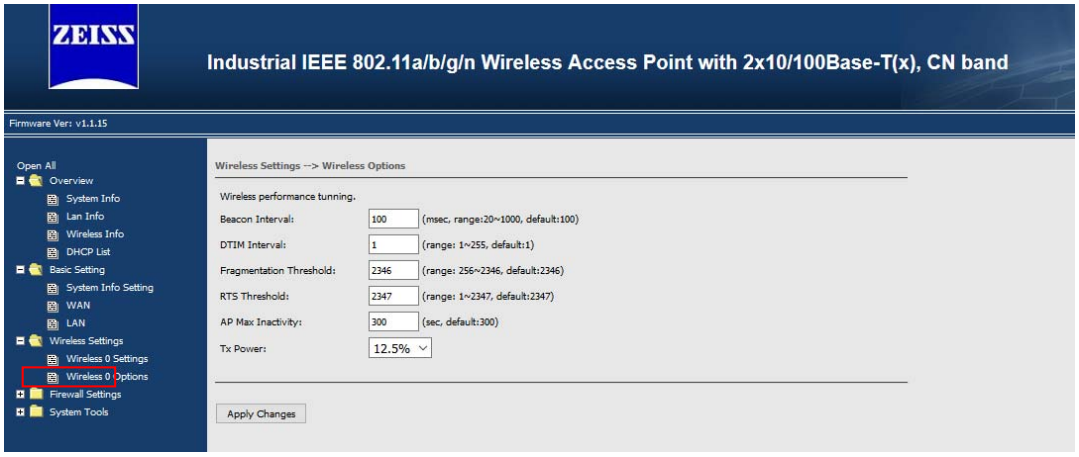
Label	Description
Device Mode	AP: Device plays the role of wireless Access Point Client: Device plays the role of wireless Client WDS: Device plays the role of wireless bridge Notes: The default mode is AP Mode

Wireless Mode	Set wireless RF mode, the default setting is g/n mode
HT Mode	Select your channel width, If you are not sure which option to use, select20/40 MHz(Auto)
TX Data Rate	Set device transmit data rate
Channel	This option is only adjustable when the Device plays the role of wireless AP ;If the device acts as a wireless client, it follows the channel of the associated access point Notes: The Default Channel is Auto in order to make the device Scan the best free channel.
VLAN Setting	Set Wireless VLAN port as untagged VLAN port

Label	Description
Multiple SSID Index	You can configure the device to use up to 4 SSIDs, and configure each SSID differently.
Wireless Disabled	Enable/Disable Wireless Function Notes: You can Enable/Disable wireless function by Dip switch “R”.
WMM	WMM is a QoS standard for WLAN traffic. Voice and video data will be given priority bandwidth when enabled with WMM supported wireless clients.
SSID	Service Set Identifier Default is the default setting. The SSID is a unique name that identifies a network. All devices on the network must share the same SSID name in order to communicate on the network. If you change the SSID from the
HIDE SSID	Enable” HIDE SSID” function , then Wireless Client can’t scan the device’s SSID
Security Option	Select the type of security for your wireless network at Security Type: None/WEP/WPA/WPA2-Personal /WPA-PSK or WPA2-PSK

4.2 Wireless Option

Wireless Option related parameters are presented in this section to help you set up your wireless network in detail

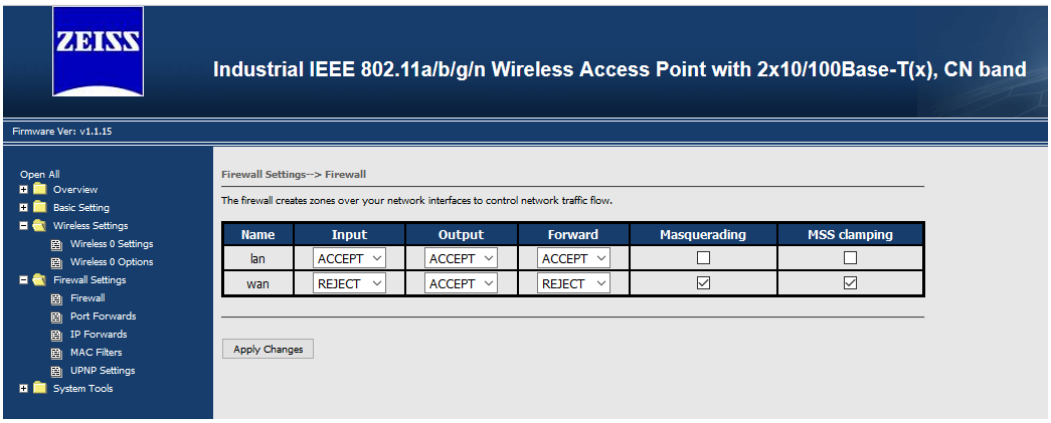


Label	Description
Beacon Interval	Indicates the frequency interval of the beacon
DTIM interval	Indicates how often the device sends out a Delivery Traffic Indication Message
Fragmentation Threshold	Specifies the maximum size a data packet before splitting and creating another new packet
RTS Threshold	Determines how large a packet can be before the Access Point coordinates transmission and reception to ensure efficient communication
AP MAX Inactivity	Specifies the maximum wireless client can connect the device
TX Power	Users can manually select a target power to mask max output power.

5. Firewall settings:

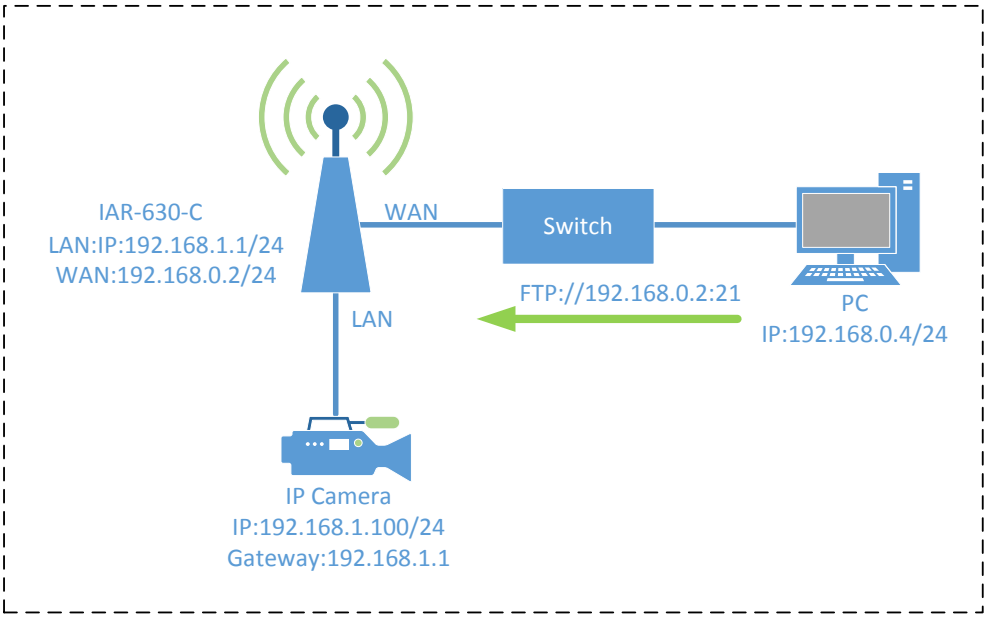
5.1 Firewall

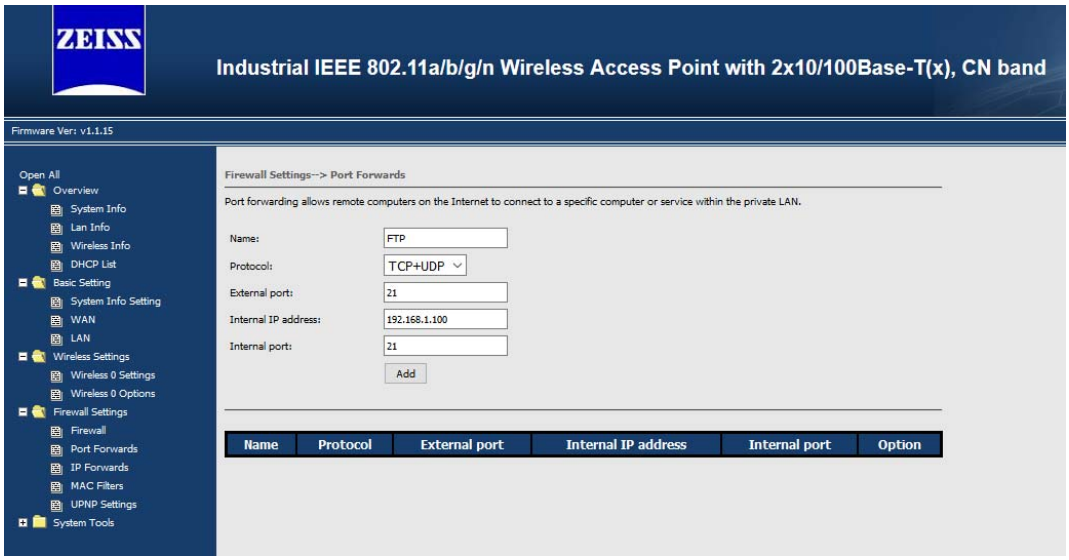
You can set Firewall Rule to control the network traffic flow



5.2 Port Forwards

Port Forward can allow the external device access the internal device application by device WAN IP address and TCP/UDP Number, for example: FTP, Email….



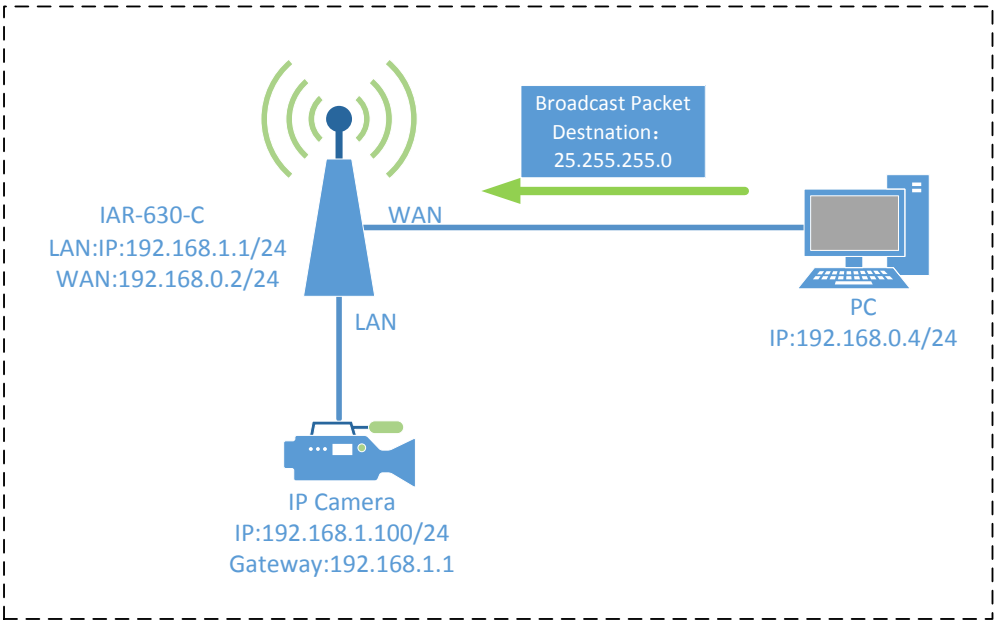


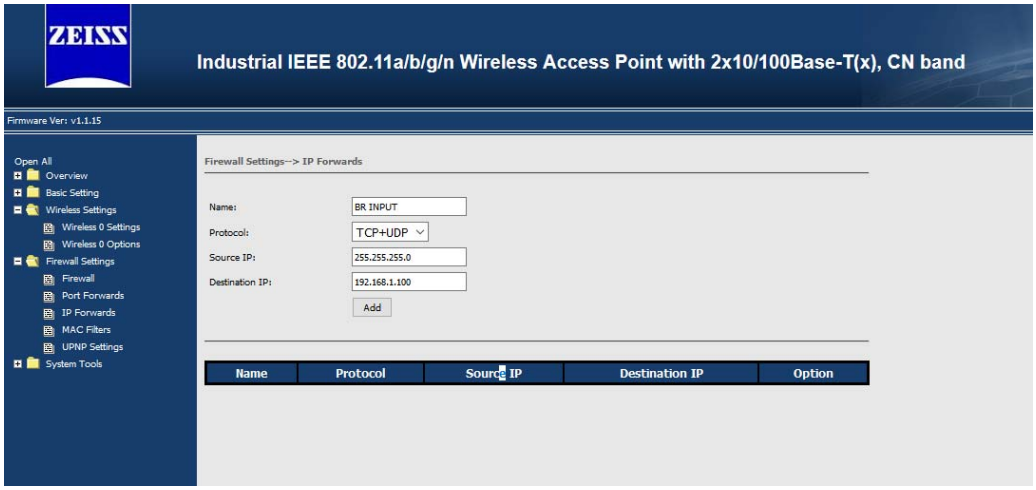
Label	Description
Name	Set the application Name
Protocol	Set the data communication type TCP/UDP
External Port IP	Enter external TCP/UDP number for External device access inter
Internal IP address	Set the internal device IP address
Internal Port	The Application use internal TCP/UDP number

Notes: As shown above Picture, the PC from external network can use ftp application which provide from IP camera

5.2 IP Forwards

IP Forwards is a policy-based IP Address that allows specified “source IP addresses” packets from the external WAN Device forwarded to specified the destination IP address from internal device.



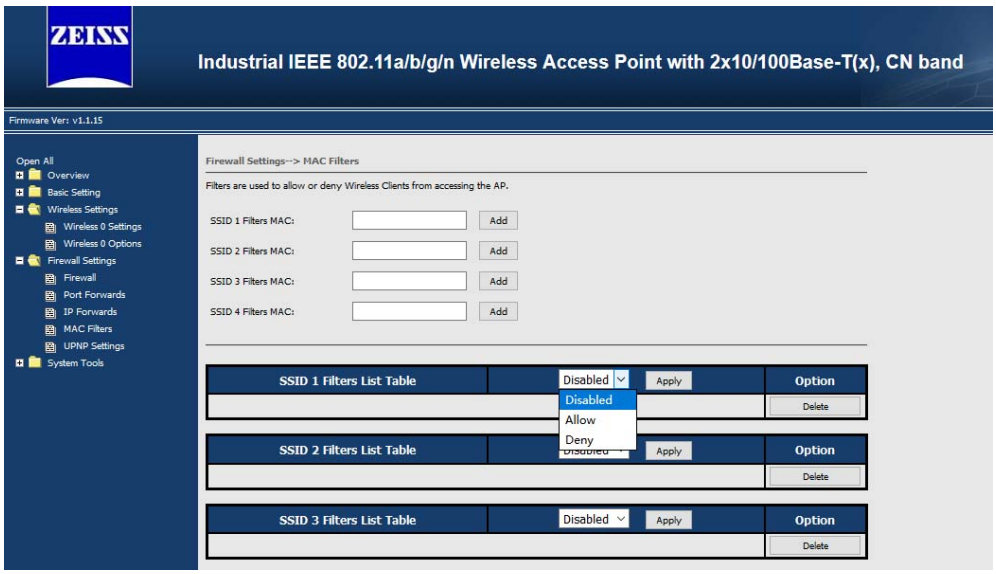


Label	Description
Name	Set the application Name
Internal Port	The packets used TCP/UDP number
Source IP	The Packets Source IP address
Destination IP	The Packets Destination IP address

Notes: As shown above picture, the packets with Destination IP “255.255.255.0” sent by PC will be forwarded to the IP camera with destination IP “192.168.1.100”

5.3 MAC Filters

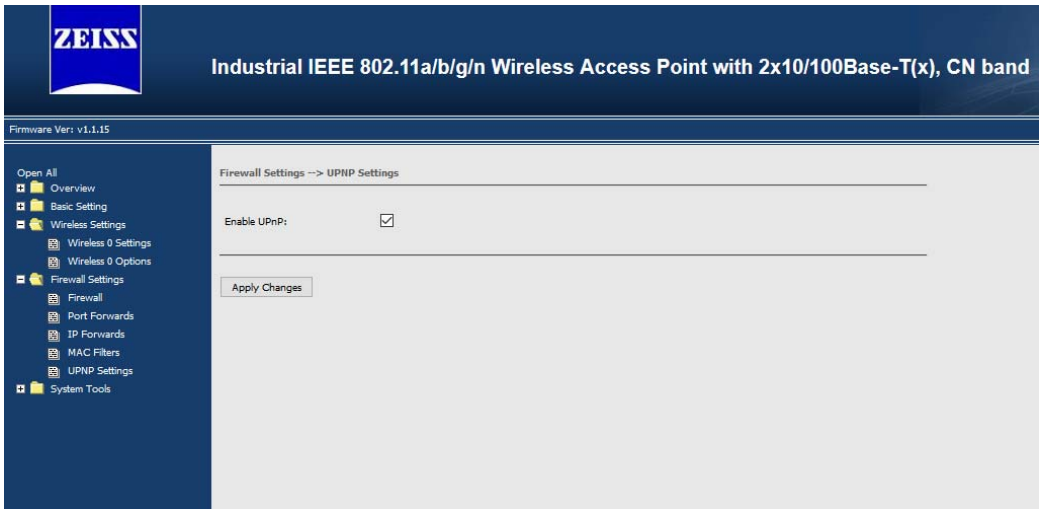
The device MAC filter is a policy-based filter that can allow or deny IP-based packets with Specified MAC addresses to connect the device. The device can set different policy by each SSID.



Label	Description
Disabled	Disable Mac Filter policy
Allow List Only	Only the wireless client fitting the entities on list can be allowed to connect the device
Allow All Except List	Only the wireless client fitting the entities on list will be deny to connect the device

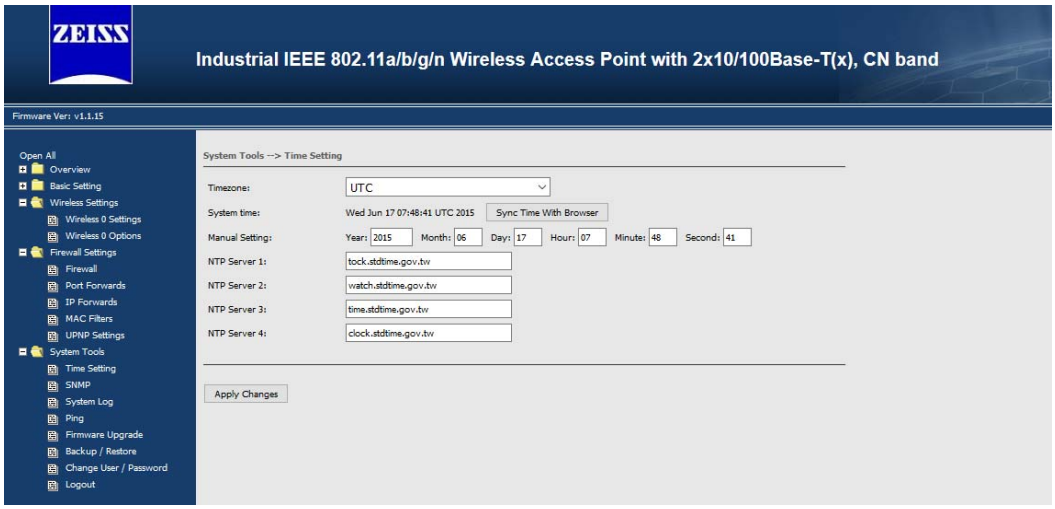
5.2 UPNP

The Device support UPNP connect the Network



6. System Tools:

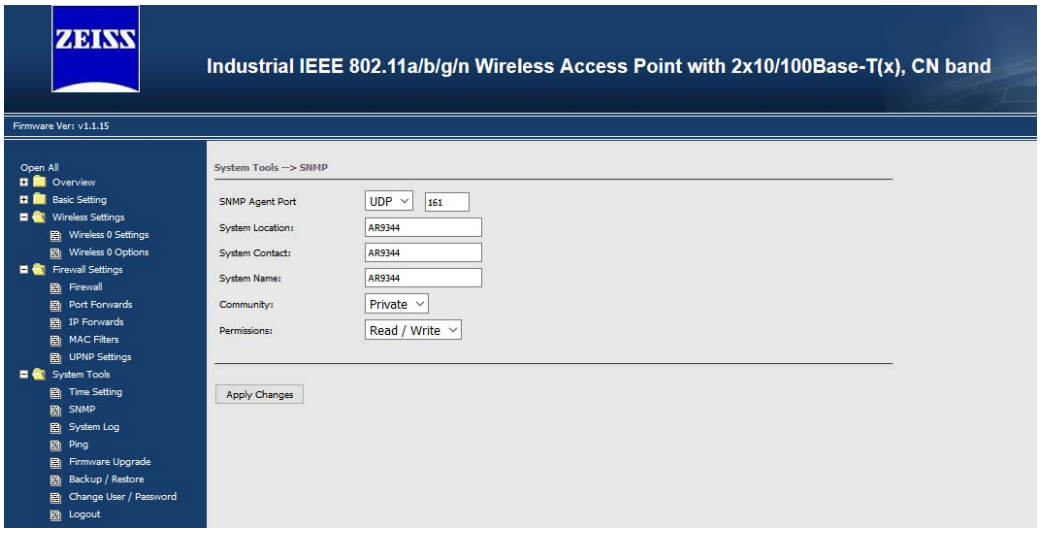
6.1Time Setting



Label	Description
Timezone	Set the timezone when you use NTP Server Synchronize the time
System time	Show the current system time ; Click Sync Time With Browser Button，the device will sync time with Browser
Manual setting	You can set the device time manually.

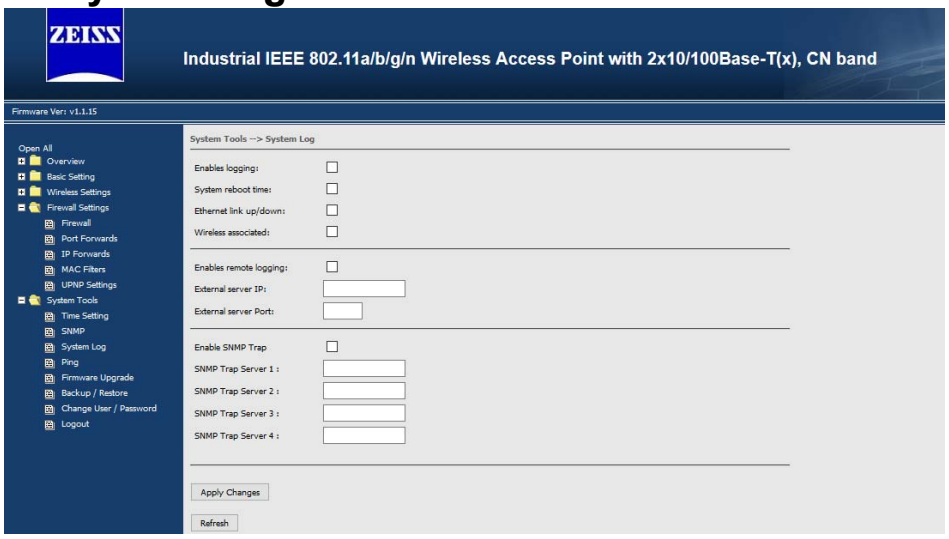
NTP Server	The device also supports Synchronize the time from the NTP server. Please enter the NTP Server IP address.

6.2 SNMP



Label	Description
SNMP Agent Port	Set SNMP Agent Port
System Location	Set device location information
System Contact	Set device contact people
System Name	Set device name
Community	Use a community string match for authentication
Permission	Set the community access Level : Read: accesses all objects with read only Read/Write: accesses all objects with read and writer

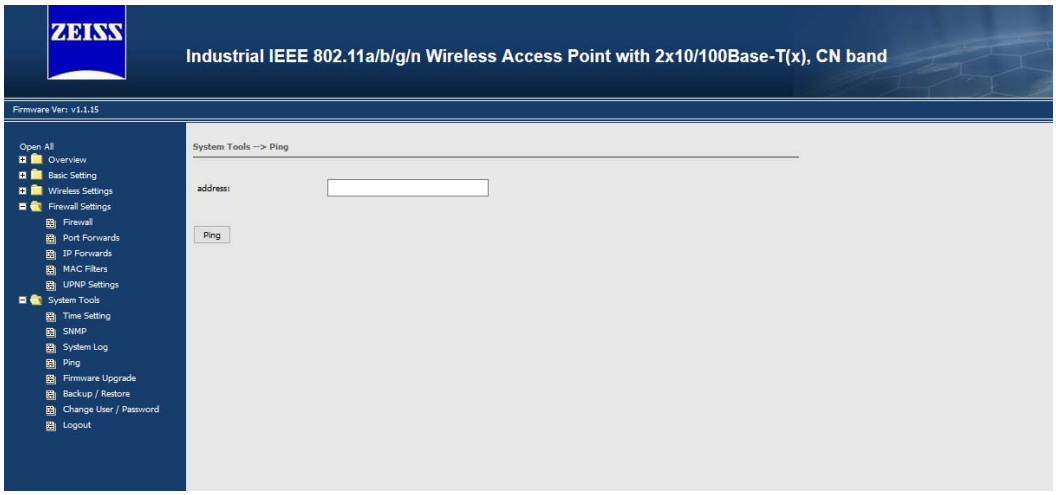
6.3 System Log



Label	Description
Enable Logging	provide system maintainers with real time log messages
System Reboot Time	The device reboot
Ethernet Link up/Down	The LAN port is connected or disconnected to a device or network.
Wireless Associated	The Wireless Client is connected to the Device
External Server IP	Enter the external log server IP address
External Server Port	Enter the external log server communication port
Enable SNMP Trap	Enable SNMP Trap alarm
SNMP Trap Server	Enter the SNMP server IP address

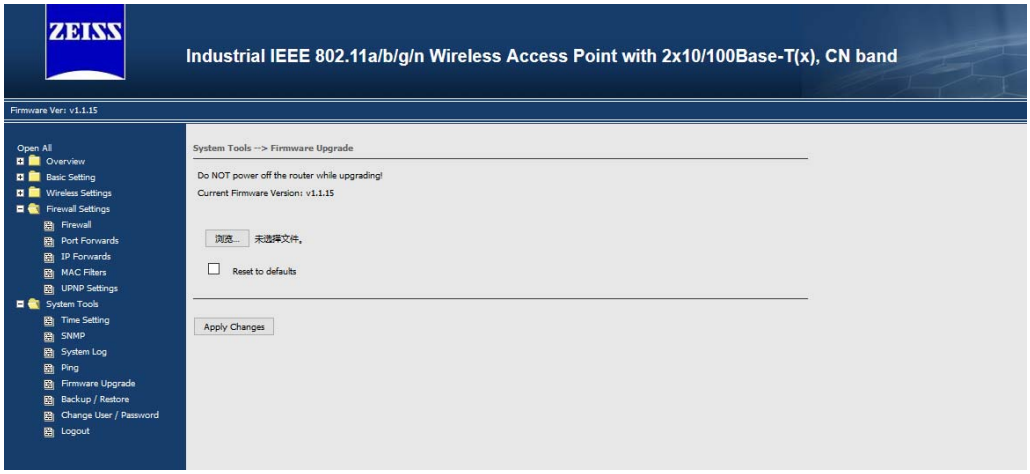
6.1 Ping

Ping helps to diagnose the integrity of wired or wireless networks. By inputting a node's IP address in the Address field, you can use the ping command to confirm it exists and whether or not the access path is available



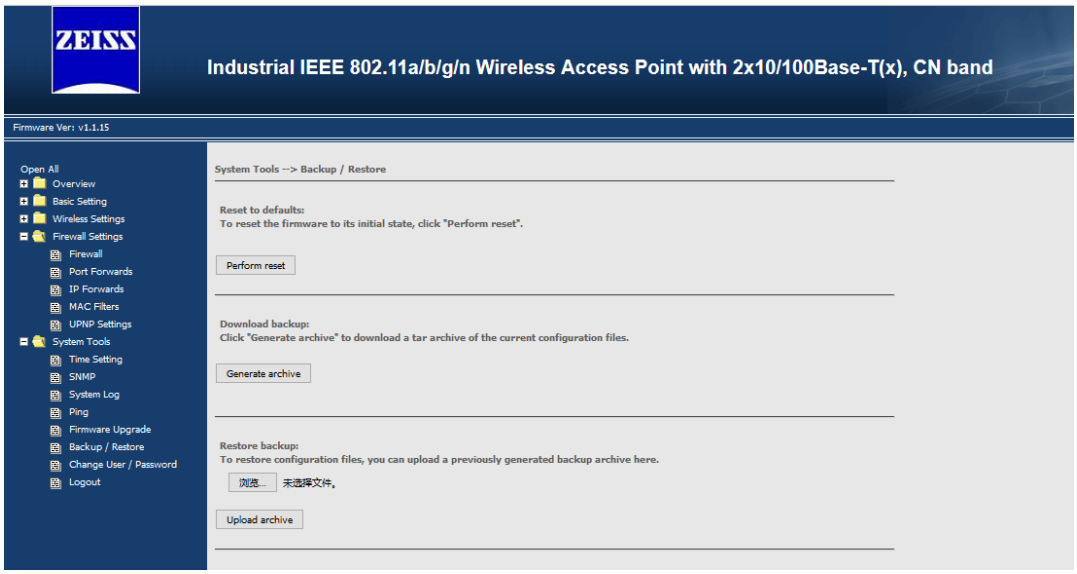
6.3 Firmware Upgrade

Before running a firmware upgrade, make sure the device is off-line. Click the "Browse" button to specify the firmware image file and selected "reset to default " box, then Click "Apply changes" start the firmware upgrade. After the upgrade finished, the device will reboot itself.



Attention: Please make sure the power source is stable when you upgrade your firmware. An unexpected power breakup may damage your device

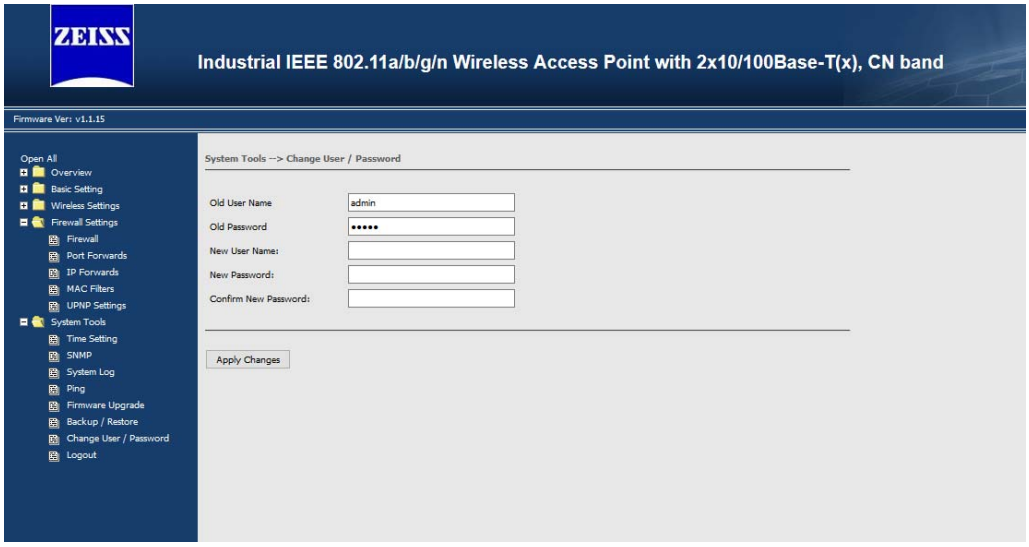
6.4 Backup/Restore



Label	Description
Reset to default	Click “Perform reset “button to reset all settings back to the factory default values. You can also reset the hardware by pressing the reset button on the top panel of the device.
Download backup	Click“Generate archive“ button to save the configuration file onto your local storage media
Restore Backup	Browse to specify the configuration file and click “Upload Archive”button to begin importing the configuration

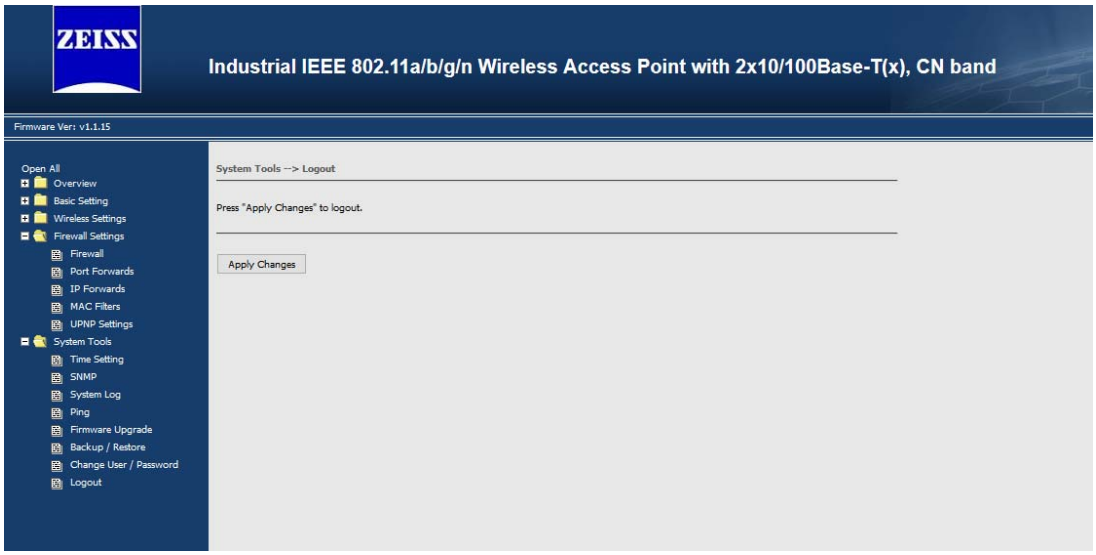
6.4 Change User/Password

You can change the administration password for each of the device by using the Change User/Password function. Before you set up a new password, you must input the current password and reenter the new password for confirmation.



6.4 Logout

Click “Apply change” to logout current configure page



7. Compliance

FCC Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) this device may not cause harmful interference and (2) this device must accept any interference received, including interference that may cause undesired operation.

RF exposure warning: The equipment complies with RF exposure limits set forth for an uncontrolled environment. The antenna(s) used for this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment. This device should be operated with minimum distance 20cm between the device and all persons.

Industry Canada Statement

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Industry Canada - Class B This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus as set out in the interference-causing equipment standard entitled “Digital Apparatus,” ICES-003 of Industry Canada.

Cet appareil numérique respecte les limites de bruits radioélectriques applicables aux appareils numériques de Classe B prescrites dans la norme sur le matérial brouilleur: “Appareils Numériques,” NMB-003 édictée par l’Industrie.

Operation is subject to the following two conditions: (1) this device may not cause interference,

and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

L'opération est soumise aux deux conditions suivantes: (1) cet appareil ne peut causer d'interférences,et (2) cet appareil doit accepter toute interférence, y compris celles susceptibles de provoquer fonctionnement du dispositif.

To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that permitted for successful communication.

Afin de réduire les interférences radio potentielles pour les autres utilisateurs, le type d'antenne et son gain doivent être choisie que la puissance isotrope rayonnée équivalente (PIRE) est pas plus que celle premise pour une communication réussie

RF exposure warning: The equipment complies with RF exposure limits set forth for an uncontrolled environment. The antenna(s) used for this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Avertissement d'exposition RF: L'équipement est conforme aux limites d'exposition aux RF établies pour un incontrôlés environnement. L'antenne (s) utilisée pour ce transmetteur ne doit pas être co-localisés ou fonctionner en conjonction avec toute autre antenne ou transmetteur.

This radio transmitter (identify the device by certification number) has been approved by Industry Canada to operate with the antenna types listed below with the maximum permissible gain indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

Le présent émetteur radio (identify the device by certification number) a été approuvé par Industrie Canada pour fonctionner avec les types d'antenne énumérés ci-dessous et ayant un gain admissible maximal. Les types d'antenne non inclus dans cette liste, et dont le gain est supérieur au gain maximal indiqué, sont strictement interdits pour l'exploitation de l'émetteur.