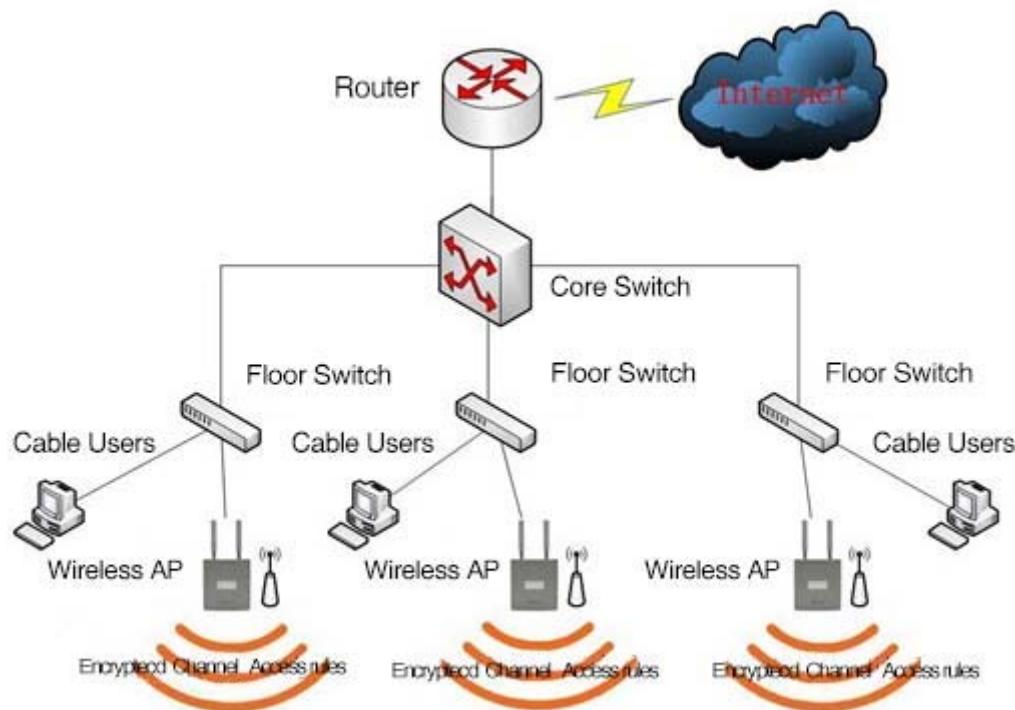


# LIMARK WIFI AP Solution User Manual

## 1 Network set up

### 1.1 Network hardware link topology:

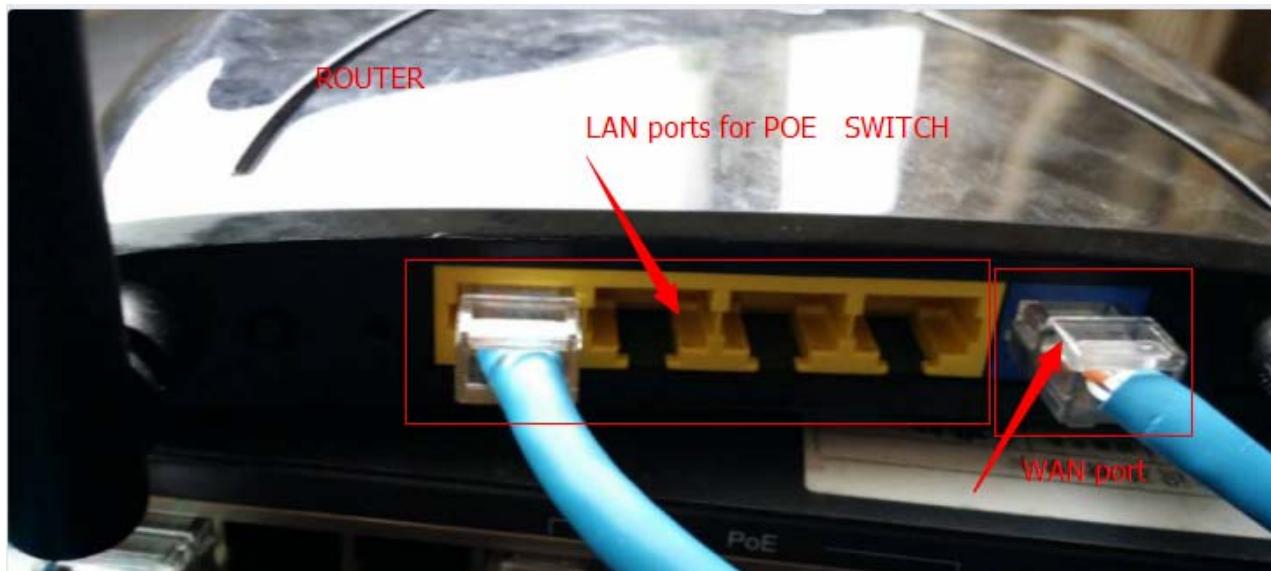


### 1.2 Equipment list: Router, Core switch, Floor switches, AP, Rj45

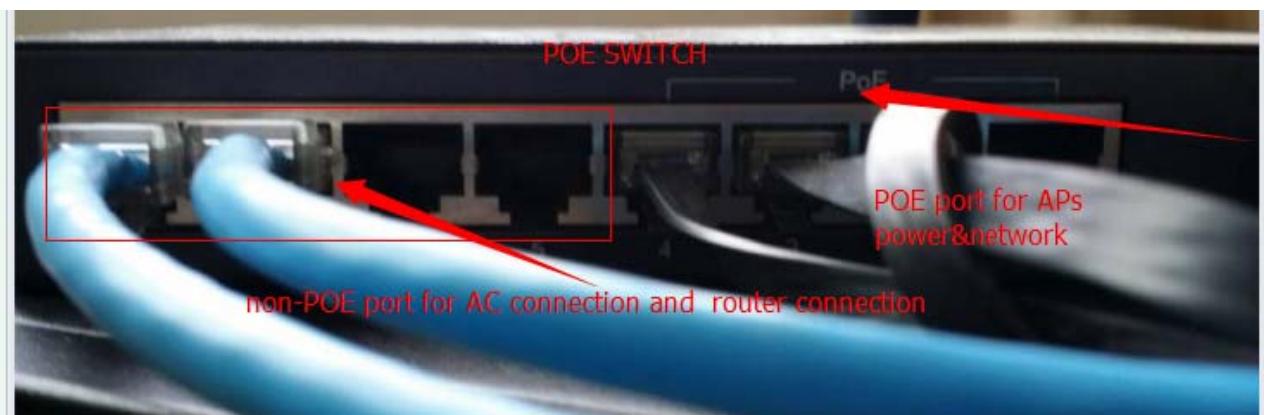
Cable, POE switch/POE power adapter.

### 1.3 Router Connection

Firstly, Plug the Rj45 cable from WAN to the WAN port of the router.



Secondly, plug the Rj45 cable from LAN port of the router to any port of the non-POE port of the POE switch.



Thirdly, plug the Rj45 cable from the any of the non-Poe port of the POE switch to the port marked " 3 " in the AC.



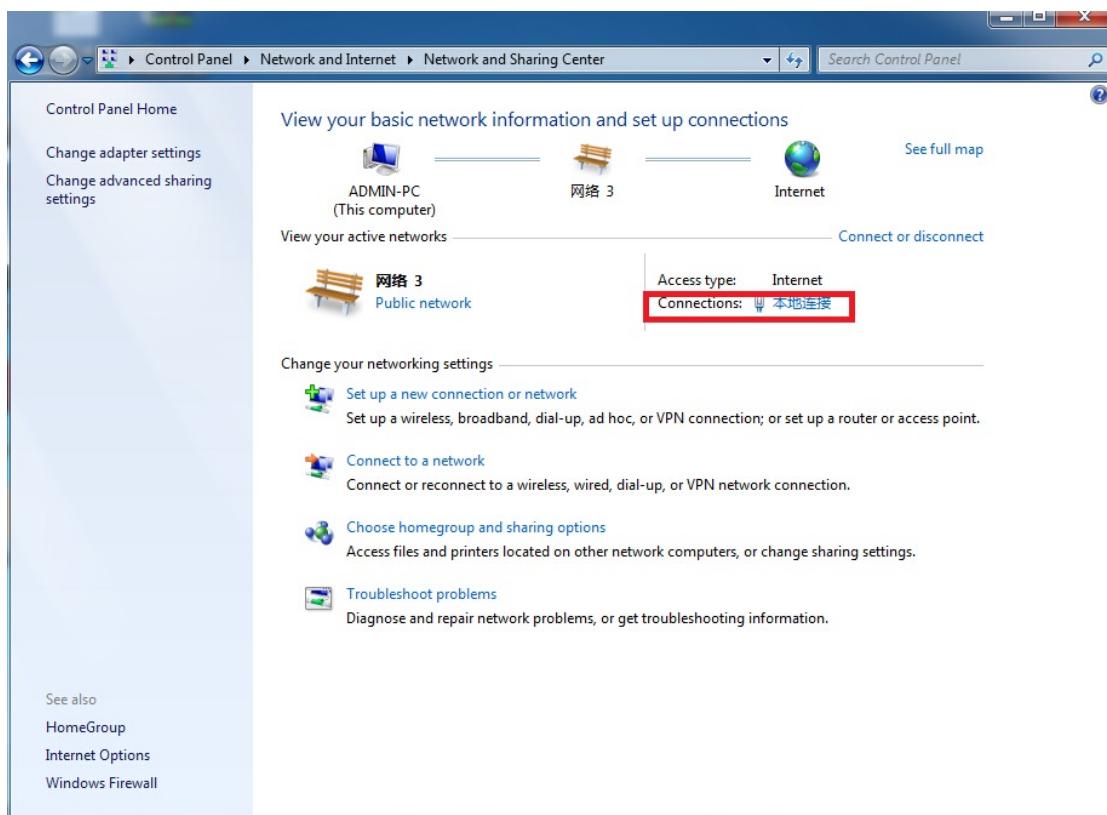
Note: In this step, the Rj45 cable shall be of CAT6/6A standard.

## 1.4 Modify the PC IP address

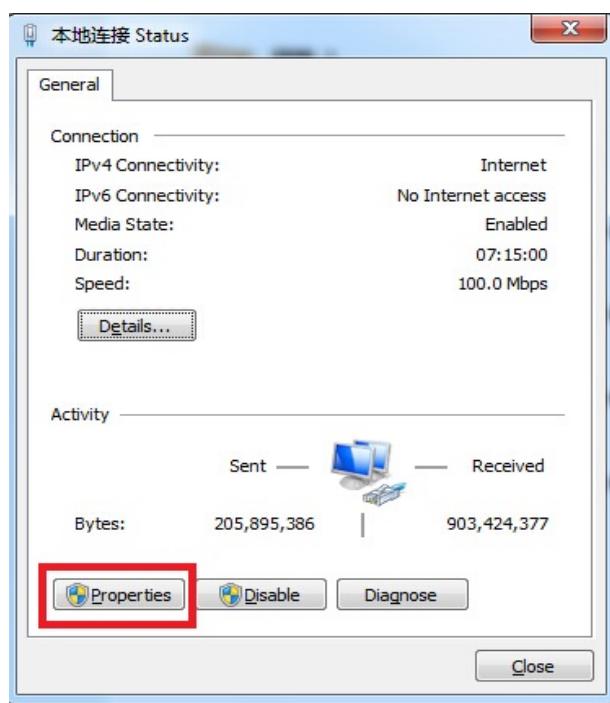
**Firstly, Use a short pair of Rj45 cable, connect the PC with**

**Win Xp/7/8 OS to the router LAN port,**

Click "Start menu, control panel, network and Internet, network and sharing center". Click "Local connection" like the attached screenshot.

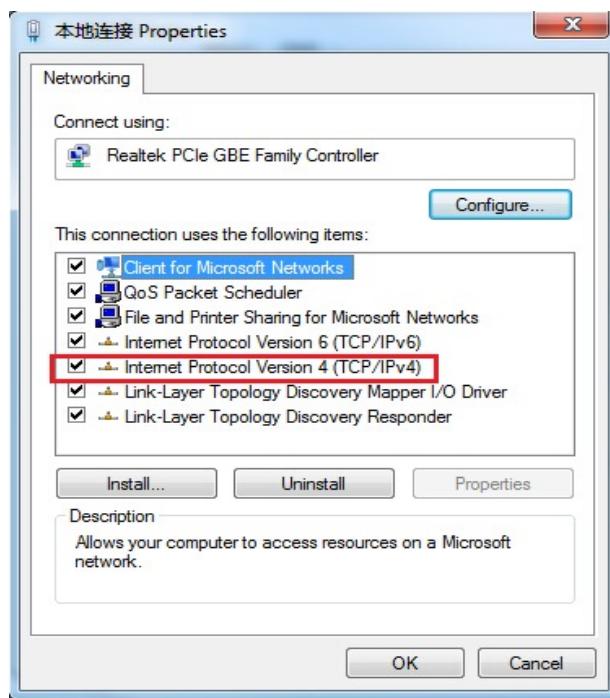


**Secondly, in the "local connection" dialog box, click "properties".**



Thirdly, in the "local connection properties dialog box"

double-click "Internet Protocol Version 4".



Fourthly,in the "Internet Protocol Version 4" dialog box, set the Ip address of the PC in the same network segment with the router.

For instance:

Static IP address:

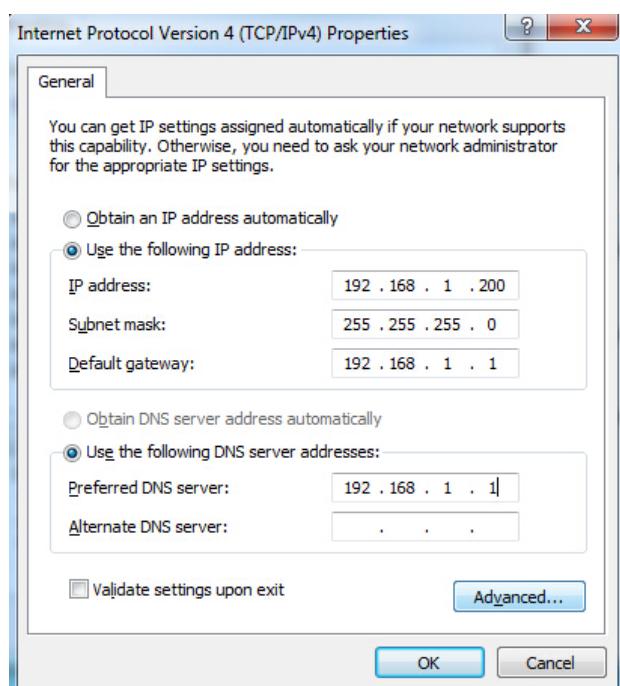
IP: 192.168.1.200

Subnet Mask: 255.255.255.0

Gateway:192.168.1.1

DNS:192.168.1.1

Note: The router we use in the test is of 192.168.1.1 network segment.





Or Just choose DHCP and Automatic DNS.

## 2 Router Configuration

Note: In this step, we use the router to connect to the Internet for normal internet usage and test, also the router shall act as valid IP address pool provider for various network users.

The router WAN setting shall be correct as per different network environment for normal Internet access.

The router LAN IP address pool setting shall be valid and big enough for all kinds of users requirement.

For instance, in the test we use Feixin Router, enter the setting page by web browser of PC. The default user name and password is “admin” .

Enter the router setting page, choose the correct WAN setting for normal internet connection.

Then configurate LAN Ip address pool according to the requirement.

## 3 AC Configuration

3.1 Enter 192.168.1.228 to the address bar of PC web browser, click enter to enter AC configuration page.

The default user name is “admin” , password:” password” .

Exit

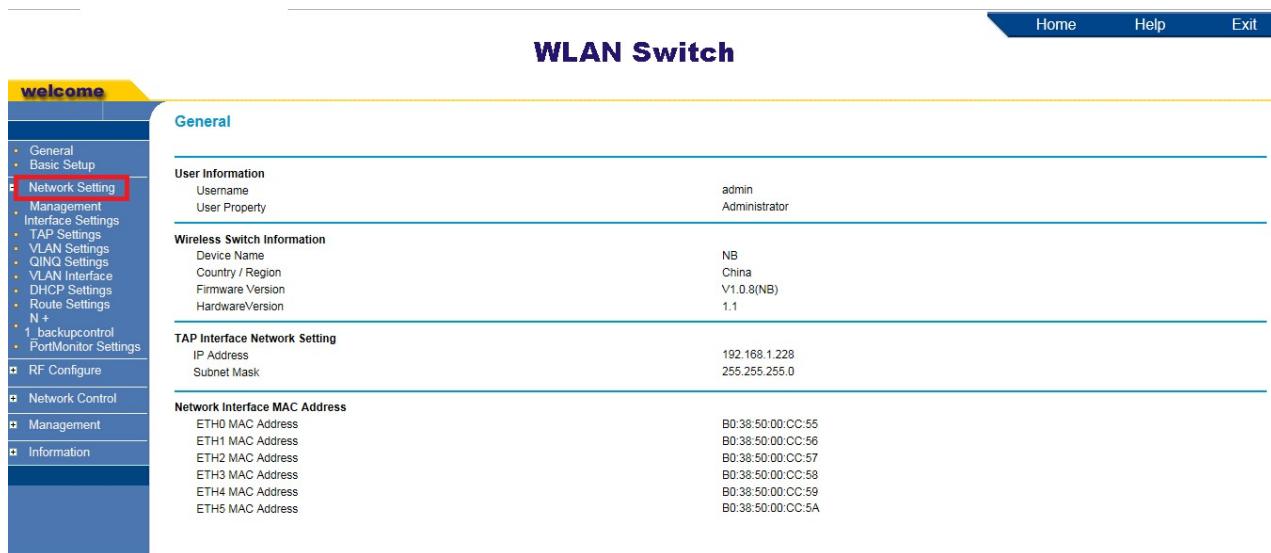
## WLAN Switch

welcome

Username:	<input type="text"/>
Password:	<input type="password"/>
Language:	English <input type="button" value="▼"/>

---

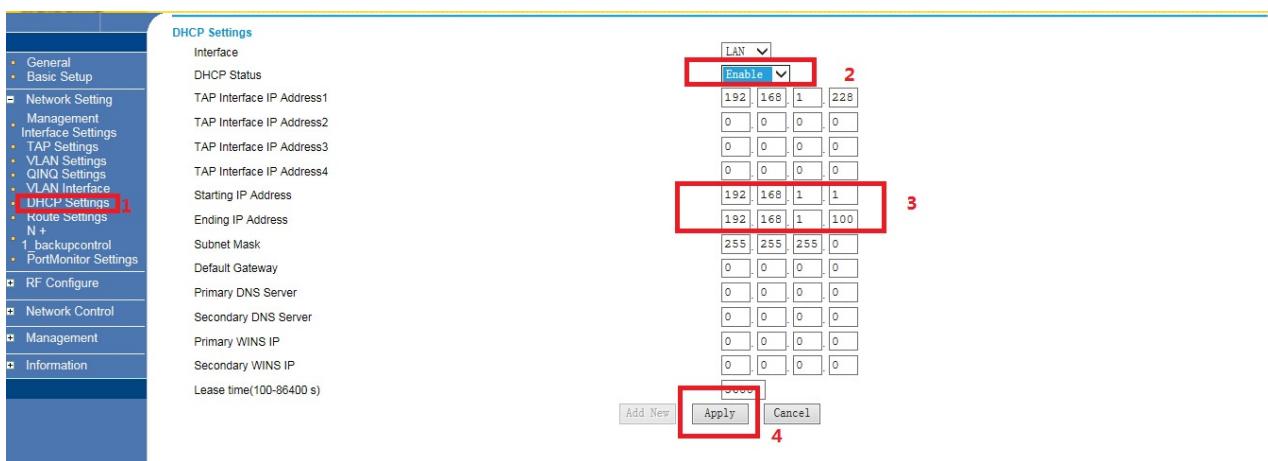
## 4.2 Choose Network setting DHCP.



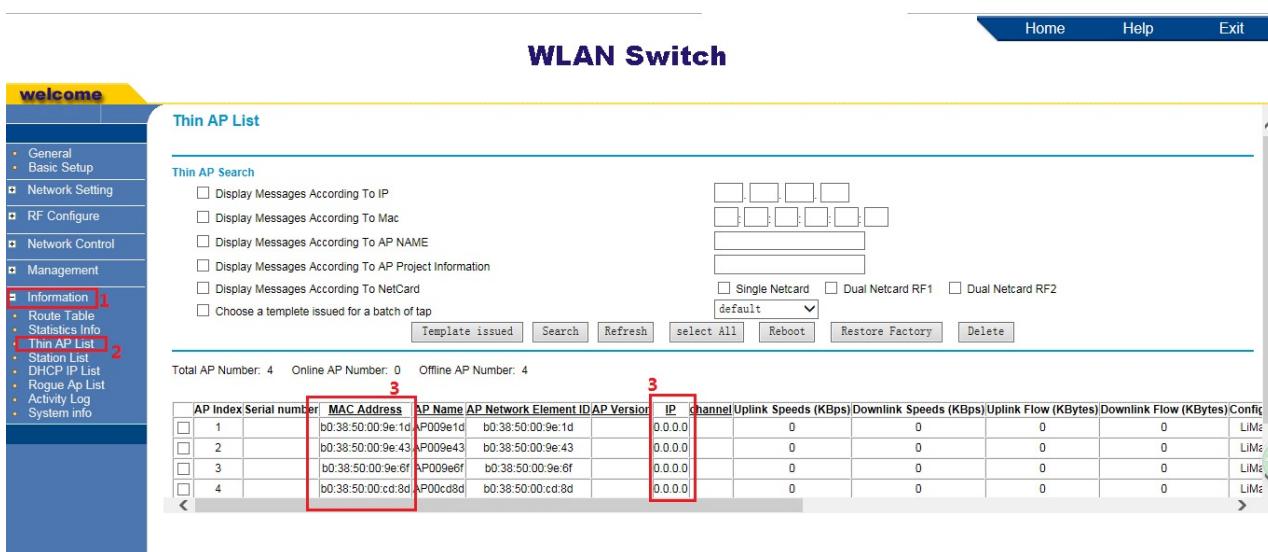
The screenshot shows the 'WLAN Switch' configuration interface. The top navigation bar includes 'Home', 'Help', and 'Exit'. The main title 'WLAN Switch' is centered above the configuration area. On the left, a vertical navigation menu lists several sections: General, Basic Setup, Network Setting (which is highlighted with a red box), Management Interface Settings, WLAN Settings, QINQ Settings, VLAN Interface, DHCP Settings, Route Settings, N+, Backup Control, Port Monitor Settings, RF Configure, Network Control, Management, and Information. The 'Network Setting' section is expanded, showing sub-options: User Information, Wireless Switch Information, TAP Interface Network Setting, and Network Interface MAC Address. The 'User Information' section shows 'Username' as 'admin' and 'User Property' as 'Administrator'. The 'Wireless Switch Information' section shows 'Device Name' as 'NB', 'Country / Region' as 'China', 'Firmware Version' as 'V1.0.8(NB)', and 'Hardware Version' as '1.1'. The 'TAP Interface Network Setting' section shows 'IP Address' as '192.168.1.228' and 'Subnet Mask' as '255.255.255.0'. The 'Network Interface MAC Address' section lists MAC addresses for ETH0 through ETH5.

Network Interface	MAC Address
ETH0	B0:38:50:00:CC:55
ETH1	B0:38:50:00:CC:56
ETH2	B0:38:50:00:CC:57
ETH3	B0:38:50:00:CC:58
ETH4	B0:38:50:00:CC:59
ETH5	B0:38:50:00:CC:5A

In the DHCP page, choose the DHCP open, the start IP and end IP defines the IP pool address of AC to be given the APs for usage. Make the configuration as per different network environment.



4.3 Open the Information column--Thin AP list: You can see the AP online status, including the MAC address, Ip address given to the APs by the AC.



4.4 Choose RF configure column--light AP templates.

Note: In this instance, the templates has already been set here, we set three templates named as LiMark-286-1, LiMark-286-6 and LiMark-286-11 , the RF channel are 1、6、11.

We have set the basic templates before sending to your side, if the templates is Ok, just choose and apply; if it is not Ok, you can follow the steps of 4.4-4.7 to do the templates setting by yourself.

#	Configuration Name	Wireless Mode	Channel / Frequency	Profile1		Profile2		Profile3		Profile4		
				SSID	Security	VLAN ID	SSID	Security	VLAN ID	SSID	Security	
1	default	Auto(11g and 11b)	1/2.412GHz	Wireless	Open System	0	Wireless	Open System	0	Wireless	Open System	0
2	LiMark-286-1	11b/g/n	1/2.412GHz	LiMark-286	Open System	0	Wireless	Open System	0	Wireless	Open System	0
3	LiMark-286-6	11b/g/n	6/2.437GHz	LiMark-286	Open System	0	Wireless	Open System	0	Wireless	Open System	0
4	LiMark-286-11	11b/g/n	11/2.462GHz	LiMark-286	Open System	0	Wireless	Open System	0	Wireless	Open System	0

4.5 Choose Add NEW, then input template name, wireless mode and RF channel and other information. You can make the setting as per your request.

#	Configuration Name	Wireless Mode	Channel / Frequency	Profile1		Profile2		Profile3		Profile4		Profile5			
				SSID	Security	VLAN ID	SSID	Security	VLAN ID	SSID	Security	VLAN ID	SSID	Security	
1	default	Auto(11g and 11b)	1/2.412GHz	Wireless	Open System	0	Wireless	Open System	0	Wireless	Open System	0	Wireless	Open System	0
2	LiMark-286-1	11b/g/n	1/2.412GHz	LiMark-286	Open System	0	Wireless	Open System	0	Wireless	Open System	0	Wireless	Open System	0
3	LiMark-286-6	11b/g/n	6/2.437GHz	LiMark-286	Open System	0	Wireless	Open System	0	Wireless	Open System	0	Wireless	Open System	0
4	LiMark-286-11	11b/g/n	11/2.462GHz	LiMark-286	Open System	0	Wireless	Open System	0	Wireless	Open System	0	Wireless	Open System	0

WLAN Switch

LightAP Template Wireless Settings

Configuration Name:

Radio Enable:  Turn Radio On:  China:

Country/Region: Auto (11g and 11b):

Wireless Mode:  Enable:  3600 s:  -70 dBm:  1 / 2. 412GHz:  Best:  6 Mbps:

Auto Channel:  Auto Frequency Adjust Mode:  AutoChannel Interval (60-86400):

Min Signal Level (-90 - 10):

Channel / Frequency:  Channel:  Data Rate:  Multicast Rate:  Supported Rates:  Extended Supported Rates:  Power Adjust:  RTS Threshold (0-2348):

1 Mbps:  2Mbps:  5.5Mbps:  11Mbps:  6Mbps:  9Mbps:  12Mbps:  18Mbps:  24Mbps:  36Mbps:  48Mbps:  54Mbps:  1Mbps:  2Mbps:  5.5Mbps:  11Mbps:  6Mbps:  9Mbps:  12Mbps:  18Mbps:  24Mbps:  36Mbps:  48Mbps:  54Mbps:  12Mbps:

2346:

4.6

Choose apply, enter the Security Profile setting page.

Note: LIMARK AP supports up to 8 SSID broadcast, in this instance, we only choose one SSID for testing.

WLAN Switch

TXOP Limit:  Background:  AIFS (0-15):  CW Min (0-15):  CW Max (0-15):  TXOP Limit:

Video:  AIFS (0-15):  CW Min (0-15):  CW Max (0-15):  TXOP Limit:

Voice:  AIFS (0-15):  CW Min (0-15):  CW Max (0-15):  TXOP Limit:

Reboot Per Day:  1  Enable  Disable  2

Back  GotoProfiles

The LIMARK-286 SSID has been set.

After setting click apply.

## WLAN Switch

welcome

LiMark-286-1 Template Security Profile Settings

Security Profiles

#	Profile Name	SSID	Security	VLAN ID	Local Forward	Enable
1	LiMark-286	LiMark-286	Open System	0	Enable	<input checked="" type="checkbox"/>
2	Profile2	Wireless	Open System	0	Disable	<input type="checkbox"/>
3	Profile3	Wireless	Open System	0	Disable	<input type="checkbox"/>
4	Profile4	Wireless	Open System	0	Disable	<input type="checkbox"/>
5	Profile5	Wireless	Open System	0	Disable	<input type="checkbox"/>
6	Profile6	Wireless	Open System	0	Disable	<input type="checkbox"/>
7	Profile7	Wireless	Open System	0	Disable	<input type="checkbox"/>
8	Profile8	Wireless	Open System	0	Disable	<input type="checkbox"/>

[Edit](#) [Back](#) [Apply](#) [Cancel](#)

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Click edit to enter Security profile setting page.

SSID, encryption method can be set, the local forward shall be enabled. Choose Yes for local forward.

welcome

LiMark-286-1 Template Security Profile Settings

Security Profiles

#	Profile Name	SSID	Security	VLAN ID	Local Forward	Enable
1	LiMark-286	LiMark-286	Open System	0	Enable	<input checked="" type="checkbox"/>
2	Profile2	Wireless	Open System	0	Disable	<input type="checkbox"/>
3	Profile3	Wireless	Open System	0	Disable	<input type="checkbox"/>
4	Profile4	Wireless	Open System	0	Disable	<input type="checkbox"/>
5	Profile5	Wireless	Open System	0	Disable	<input type="checkbox"/>
6	Profile6	Wireless	Open System	0	Disable	<input type="checkbox"/>
7	Profile7	Wireless	Open System	0	Disable	<input type="checkbox"/>
8	Profile8	Wireless	Open System	0	Disable	<input type="checkbox"/>

[Edit](#) [Back](#) [Apply](#) [Cancel](#)

welcome

LiMark-286-1 Template Security Profile 1 Configuration

Profile Definition

Security Profile Name:

Wireless Network Name (SSID):

Broadcast Wireless Network Name (SSID):  Yes  No

VAP Max Station Number(1-256):

VLAN ID(0-4094):

Local Forward:  Yes  No

Network Authentication:  Open System

Data Encryption:  None

Passphrase:  Generate Keys

Key 1:    
Key 2:    
Key 3:    
Key 4:

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**WLAN Switch**

Key 3:  Key 4:

Wireless Client Security Separation:

Wireless Client Band Width Control Enable:  No  Yes  
 Uplink User Band Width(1-1687):  x 64Kbps  
 Downlink User Band Width(1-1687):  x 64Kbps

Reauthentication after idle:   
 Reauthentication after idle time(1-1440)min:   
 Reauthentication after idle flow(0-10240)KB:

Enable No Web Authen:  Yes  No

Enable Fast Authen:  Yes  No

Portal Server:

RADIUS Server(Web Authen):

## 4.7 Apply AP setting templates.

Open INFORMATION--Thin AP online lists, choose template configure, double click on the APs to apply the templates.

**WLAN Switch**

**Thin AP List**

Thin AP Search:

- Display Messages According To IP
- Display Messages According To Mac
- Display Messages According To AP NAME
- Display Messages According To AP Project Information
- Display Messages According To NetCard
- Choose a template issued for a batch of tap

Template issued:  Search:  Refresh:  select All:  Reboot:  Restore Factory:  Delete:

Total AP Number: 4 Online AP Number: 0 Offline AP Number: 4

AP Index	Serial number	MAC Address	AP Name	Network Element ID	AP Version	IP	channel	Uplink Speeds (KBps)	Downlink Speeds (KBps)	Uplink Flow (KBytes)	Downlink Flow (KBytes)	Config Template	MTU	Data Detail
<input type="checkbox"/> 1	b0:38:50:00:9e:1d	AP009e1d	b0:38:50:00:9e:1d		0.0.0		0	0	0	0	0	LiMark-286-1	1500	<a href="#">Click Here</a>
<input type="checkbox"/> 2	b0:38:50:00:9e:43	AP009e43	b0:38:50:00:9e:43		0.0.0		0	0	0	0	0	LiMark-286-1	1500	<a href="#">Click Here</a>
<input type="checkbox"/> 3	b0:38:50:00:9e:6f	AP009e6f	b0:38:50:00:9e:6f		0.0.0		0	0	0	0	0	LiMark-286-6	1500	<a href="#">Click Here</a>
<input type="checkbox"/> 4	b0:38:50:00:cd:8d	AP00cd8d	b0:38:50:00:cd:8d		0.0.0		0	0	0	0	0	LiMark-286-6	1500	<a href="#">Click Here</a>

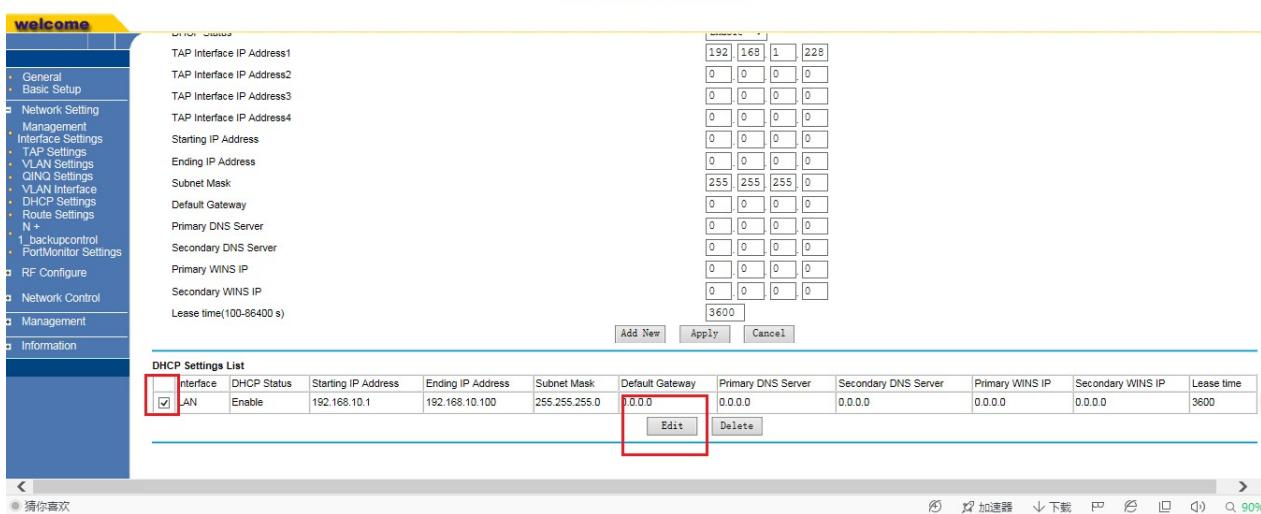
Current Page:1

Uplink Flow (KBytes)	Config Template	MTU	Data
0	LiMark-286	1500	<a href="#">Click</a>
8	default	1500	<a href="#">Click</a>
0	LiMark-286_1	1500	<a href="#">Click</a>
0	LiMark-286_2	1500	<a href="#">Click</a>

Choose the template.

4.8 Choose Network configure--DHCP, choose EDIT in the DHCP configure lists.

## WLAN Switch



On/Off Status

TAP Interface IP Address1	192.168.1.228
TAP Interface IP Address2	0.0.0.0
TAP Interface IP Address3	0.0.0.0
TAP Interface IP Address4	0.0.0.0
Starting IP Address	0.0.0.0
Ending IP Address	0.0.0.0
Subnet Mask	255.255.255.0
Default Gateway	0.0.0.0
Primary DNS Server	0.0.0.0
Secondary DNS Server	0.0.0.0
Primary WINS IP	0.0.0.0
Secondary WINS IP	0.0.0.0
Lease time(100-86400 s)	3600

Add New Apply Cancel

DHCP Settings List

Interface	DHCP Status	Starting IP Address	Ending IP Address	Subnet Mask	Default Gateway	Primary DNS Server	Secondary DNS Server	Primary WINS IP	Secondary WINS IP	Lease time
LAN	Enable	192.168.10.1	192.168.10.100	255.255.255.0	0.0.0.0	0.0.0.0	0.0.0.0	0.0.0.0	0.0.0.0	3600

Edit Delete

猜你喜欢

加速器 下载

G

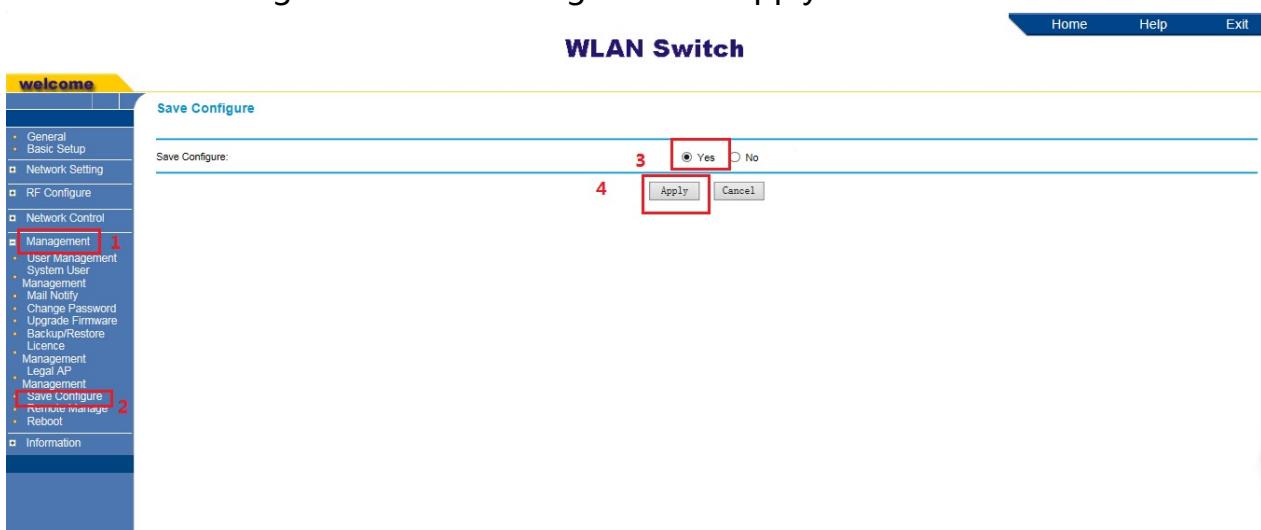
90%

**Choose the DHCP status of AP to be DISABLE, click APPLY.**

DHCP Settings

Interface	LAN
DHCP Status	Disable
TAP Interface IP Address1	192.168.1.228
TAP Interface IP Address2	0.0.0.0
TAP Interface IP Address3	0.0.0.0
TAP Interface IP Address4	0.0.0.0
Starting IP Address	192.168.1.1
Ending IP Address	192.168.1.100
Subnet Mask	255.255.255.0
Default Gateway	0.0.0.0
Primary DNS Server	0.0.0.0
Secondary DNS Server	0.0.0.0
Primary WINS IP	0.0.0.0
Secondary WINS IP	0.0.0.0
Lease time(100-86400 s)	3600

Add New Apply Cancel

**4.9 Choose Management-Save Configure--Yes-Apply.**

WLAN Switch

Save Configure

Save Configure: 3  Yes  No

4 Apply Cancel

welcome

General Basic Setup

Network Setting

RF Configure

Network Control

Management 1

- User Management
- System User
- Management
- Mail Notify
- Change Password
- Upgrade Firmware
- Backup/Restore
- Licence

Management

- Legal AP
- Management

Save Configure 2

Remove Manage

Reboot

Information

**5. Congratulations You Have Finished The AP Configuration! Enjoy the WIFI That LIMARK AP Provides!**



## **FCC Caution.**

### **§ 15.19 Labelling requirements.**

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.

### **§ 15.21 Information to user.**

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

### **§ 15.105 Information to the user.**

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

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

### **RF warning for Mobile device:**

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

**CE2200**