

JA25AP's User Manual

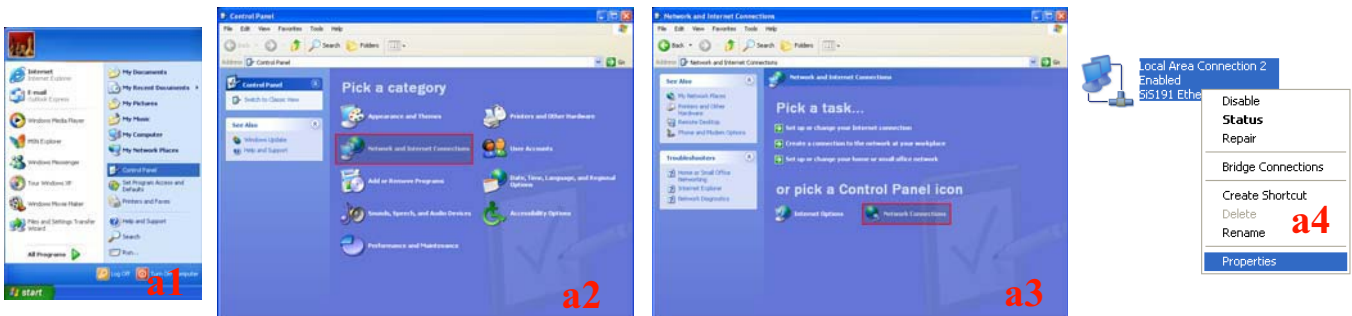
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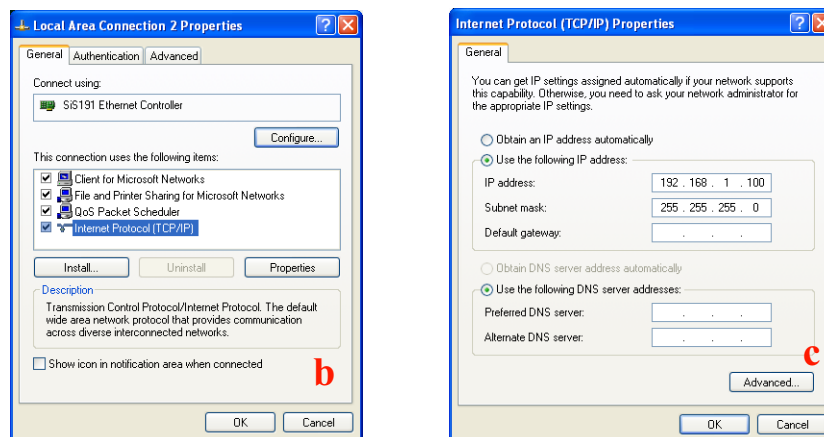
Chapter 1 : Computer setting.

1-1. Computer set as the fixed IP :

- a. From the [Start Menu] select [Settings] → select [Control Panel]
→ select [Network and Internet] → select [Network Connections]
→ Select [Ethernet Icon] → click and press right button of the mouse,
and select [properties].



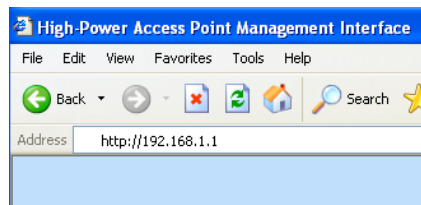
- b. In [General] tab, Please select [Internet Protocol (TCP/IP)]
→ click [Properties].
- c. Select both [Use the following IP address] and [Use the following DNS server addresses]. Enter the IP address between 192.168.1.2~192.168.1.254 range ; subnet mask is 255.255.255.0 → click [OK].



- d. Return back to [Local Area Connection Properties] screen
→ click [OK] to close it.

1-2. Access the setup page :

- a. Launch the web browser (this section take IE6.0 for instance).
- b. Type “ 192.168.1.1 ” in the address tab then press enter.



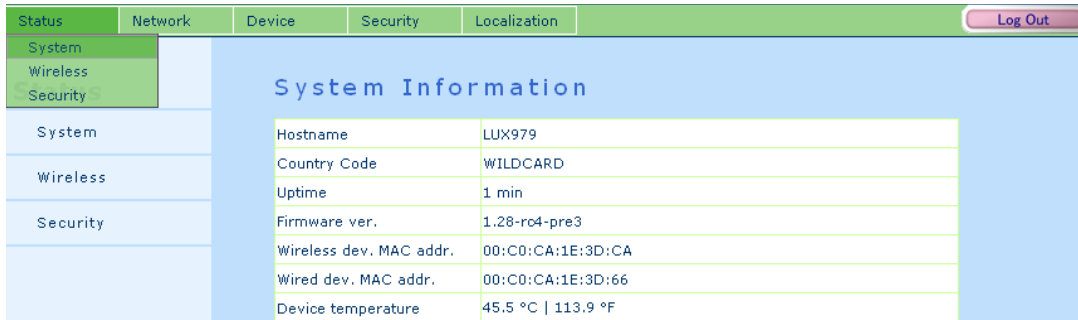
c. It shows up the login page, type “admin” in [password] -click [login]



Chapter 2 : How to get the JA25AP setting information?

2-1. System Status :

In this page show some information such as Hostname, Country Code, Uptime, Firmware Version, Wireless device MAC address, Wired device MAC address and Device Temperature.

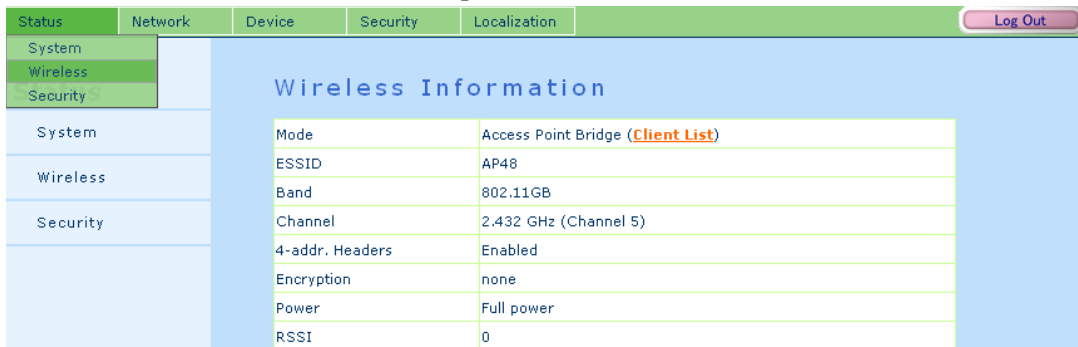


The screenshot shows the 'System Information' page. The left sidebar has 'System', 'Wireless', and 'Security' tabs. The main content area displays a table with the following data:

System	Hostname	LUX979
Wireless	Country Code	WILDCARD
Security	Uptime	1 min
	Firmware ver.	1.28-rc4-pre3
	Wireless dev. MAC addr.	00:C0:CA:1E:3D:CA
	Wired dev. MAC addr.	00:C0:CA:1E:3D:66
	Device temperature	45.5 °C 113.9 °F

2-2. Wireless Status :

In this page show some Wireless working information such as mode, ESSID, Band, Channel, 4-address Headers flag, Encryption mode, Power and RSSI. If the device work in AP-Bridge or AP-Router mode you can find out the "Client list" option beside of mode information.

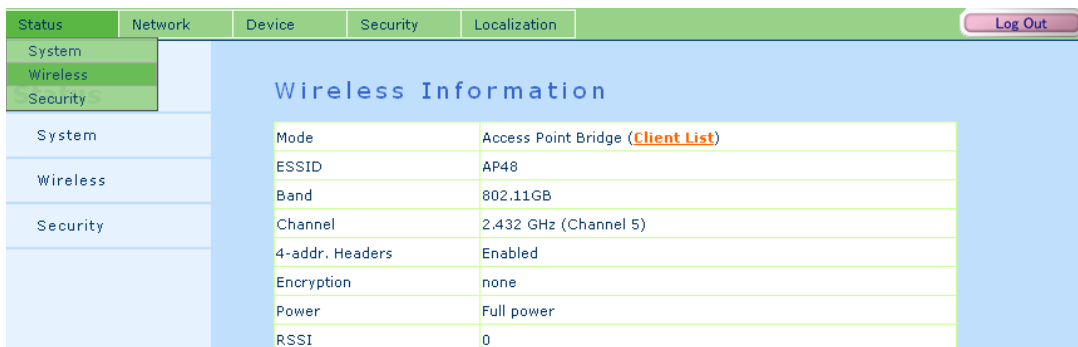


The screenshot shows the 'Wireless Information' page. The left sidebar has 'System', 'Wireless', and 'Security' tabs. The main content area displays a table with the following data:

System	Mode	Access Point Bridge (Client List)
Wireless	ESSID	AP48
Security	Band	802.11GB
	Channel	2.432 GHz (Channel 5)
	4-addr. Headers	Enabled
	Encryption	none
	Power	Full power
	RSSI	0

2-3. Security Status :

In this page show Access Control working mode (None, Accept, Deny) or SNMP mode.



This screenshot is identical to the one above, showing the 'Wireless Information' page with the same table of wireless settings.

Chapter 3 : How to Set the JA25AP's Network information?

3-1. Wireless Settings :

there are 3 kinds of modes for wireless network settings.

a. AP Bridge :

SSID : A SSID(service set identifier) is a name used to identify the particular 802.11 wireless LANs to which an user wants to attach.

Warning : Only A to Z, a to z, 0 to 9 and under line(' _ ') can be used for SSID.

Frequency Band : This option can be choosed for 802.11 band.

802.11a only, 802.11b only, 802.11g only, 802.11bg mix or Auto.

Enable WDS : To preserves the MAC addresses of client packets across links between access points if WDS is enable.

Channel : Which working channel to be choosed.

Distance : Setting the device acktimeout.

Encryption : Selection of defferent kinds of Encryption mode.

Support mode WEP, WPA-PSK(AES), WPA-PSK(TKIP), WPA2-PSK(AES), WPA2-PSK(TKIP).

b. AP Router :

AP Router mode support DHCP server for wireless client and the other features are the same with AP Bridge mode.

Broadcast Range : 192.168.100.1 to 192.168.100.200

Waring : when setup as AP router mode, the web setup IP address will be 192.168.100.254.

The screenshot displays the 'Network Function Settings' page in the JA25AP web interface. The 'Network' tab is selected, and 'Wireless Settings' is the active sub-tab. The settings are configured for 'AP Bridge' mode. The SSID is set to 'AP48', and 'Hide SSID' is unchecked. The Frequency Band is set to 'Auto'. 'Enable WDS (4-Address Headers)' is set to 'ON'. The Channel is set to 'Auto'. The Distance is set to '0' M (1-50000, 0 is auto.). The Encryption is set to 'None'. An 'Apply' button is visible at the bottom of the settings area.

Setting	Value
Mode	AP Bridge
SSID	AP48
Hide SSID	Unchecked
Frequency Band	Auto
Enable WDS (4-Address Headers)	ON
Channel	Auto
Distance	0 M (1-50000, 0 is auto.)
Encryption	None

c. CPE :

SSID : Choose which AP's SSID want to connect.

It can also use "Site Survey" to search AP.

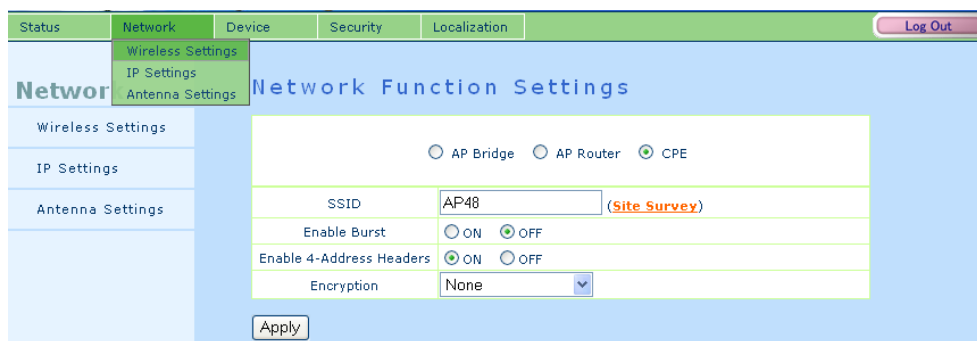
Warning : Only A to Z, a to z, 0 to 9 and under line('_ ') can be used for SSID.

Enable Burst : To enable Burst mode or not.

Enable WDS : To preserves the MAC addresses of client packets across links between access points, if WDS is enable.

Encryption : Selection of defferent kinds of Encryption mode.

Support mode WEP, WPA-PSK(AES), WPA-PSK(TKIP), WPA-PSK 2(AES), WPA-PSK2(TKIP).



3-1.5. Encryption Setting :

WEP : Support 64 / 128 / 256 bit ASCII (5 / 13 / 29 char).
Support 64 / 128 / 256 bit Hex (10 / 26 / 58 char).

Encryption	WEP		
Key Index	1		
Key 1	01234567890	<input type="radio"/> ASCII	<input checked="" type="radio"/> Hex
Key 2		<input type="radio"/> ASCII	<input checked="" type="radio"/> Hex
Key 3		<input type="radio"/> ASCII	<input checked="" type="radio"/> Hex
Key 4		<input type="radio"/> ASCII	<input checked="" type="radio"/> Hex

Apply

WPA-PSK (AES) : Support 8 to 63 char.
WPA-PSK (TKIP) : Support 8 to 63 char.
WPA2-PSK (AES) : Support 8 to 63 char.
WPA2-PSK (TKIP) : Support 8 to 63 char.

Encryption	WPA-PSK (AES)
Key	

Apply

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 matériel brouilleur: "Appareils Numériques," NMB-003 édictée par l'Industrie.

(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."

3-2. IP Settings :

there are 2 kinds of options for wired network setting.

a. Device IP :

DHCP : Automatically get the IP address from DHCP Server.

Static IP : Assign a Static IP for this Device.

The screenshot shows the 'Network IP Settings' page. The 'Device IP' radio button is selected. Underneath, the 'DHCP Client' radio button is selected, and the 'Static IP' radio button is unselected. An 'Apply' button is visible at the bottom.

The screenshot shows the 'Network IP Settings' page. The 'Device IP' radio button is unselected, and the 'Static IP' radio button is selected. Below the radio buttons, there are four rows of input fields for IP configuration:

IP Address	192	168	200	1
Netmask Address	255	255	255	0
Default Gateway	255	255	255	0
DNS Server	0	0	0	0

An 'Apply' button is visible at the bottom.

b. IP Alias : This IP address is mainly for the users to access management interface.

The screenshot shows the 'Network IP Settings' page. The 'Device IP' radio button is unselected, and the 'IP Alias' radio button is selected. Below the radio buttons, the 'Enable IP Alias' checkbox is checked. There are two rows of input fields for IP configuration:

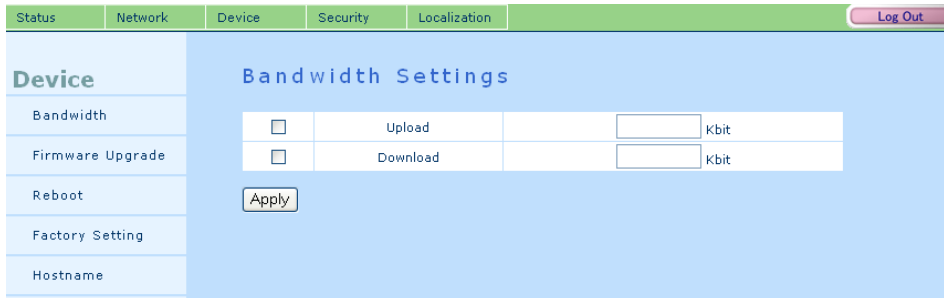
IP Address	192	168	1	1
Netmask Address	255	255	0	0

An 'Apply' button is visible at the bottom.

Chapter 4 : JA25AP Device Function.

4-1. Bandwidth settings :

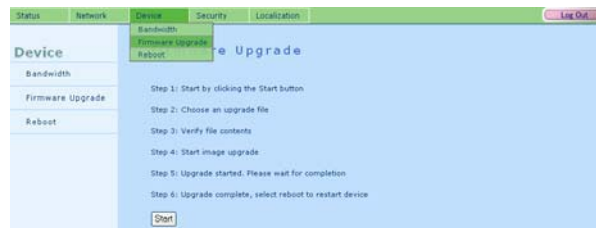
Setup the limitation the wireless Upload and Download Bandwidth.



4-2. Firmware Upgrade :

Firmware upgrade procedure:

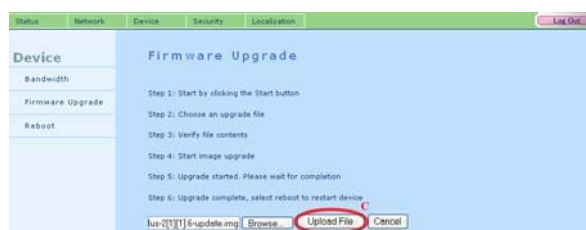
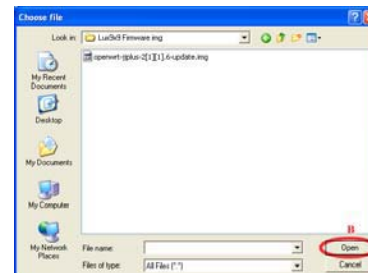
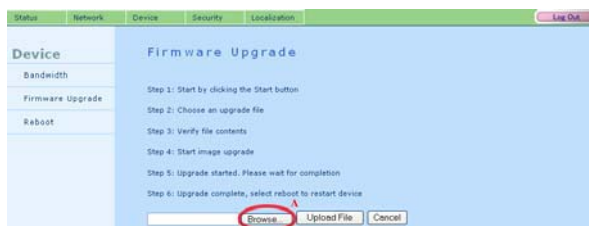
Step1 : click “start” button to start up firmware upgrade.



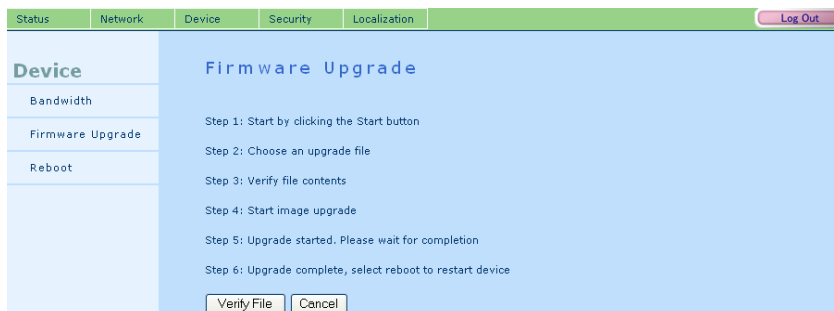
Step2 : a. Click “Browse...” button to select the firmware image file.

b. After selection click “Open”.

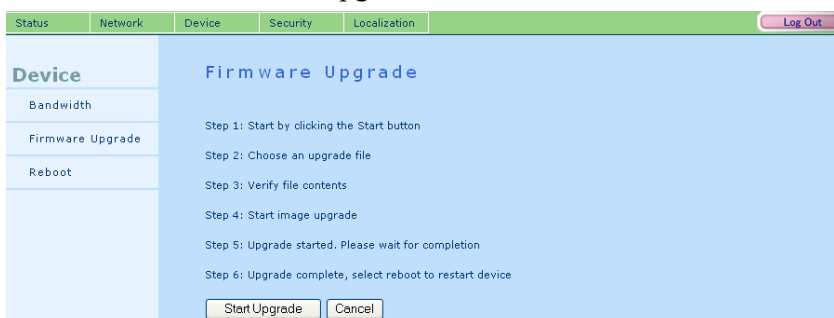
c. Click “Upload” button to upload image otherwise Click “Cancel” button to cancel firmware upgrade function.



Step3 : click “Verify” button to start up verify firmware image.



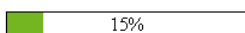
Step4 : Click “Start Upgrade” button to upgrade image or Click “Cancel” button to cancel firmware upgrade function.



Step5 : Click “Reboot” button to restart device when upgrade bar was 100% Complete.

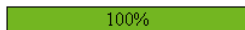
Firmware Upgrade

Upgrade started. Please wait for completion



Firmware Upgrade

Upgrade complete



Reset device to factory settings. WARNING: this will erase all user settings

4-3. Device Reboot :

To reboot the device.

The screenshot shows a web interface with a navigation bar at the top containing 'Status', 'Network', 'Device', 'Security', and 'Localization', along with a 'Log Out' button. The 'Device' menu is expanded on the left, listing 'Bandwidth', 'Firmware Upgrade', 'Reboot', 'Factory Setting', and 'Hostname'. The main content area is titled 'Device Reboot' and contains the question 'Do you want to reboot?' followed by a 'Yes' button.

4-4. Factory Setting :

Return to factory default setting.

The screenshot shows a web interface with a navigation bar at the top containing 'Status', 'Network', 'Device', 'Security', and 'Localization', along with a 'Log Out' button. The 'Device' menu is expanded on the left, listing 'Bandwidth', 'Firmware Upgrade', 'Reboot', 'Factory Setting', and 'Hostname'. The main content area is titled 'Factory setting' and contains the question 'Do you want to restore factory setting?' followed by a 'Yes' button.

4-5. Hostname :

The identification of the device.
The hostname is used to identify a particular host in various forms of electronic communication.

The screenshot shows a web interface with a navigation bar at the top containing 'Status', 'Network', 'Device', 'Security', and 'Localization', along with a 'Log Out' button. The 'Device' menu is expanded on the left, listing 'Bandwidth', 'Firmware Upgrade', 'Reboot', 'Factory Setting', and 'Hostname'. The main content area is titled 'Hostname' and features a text input field labeled 'Hostname' with the value 'LUX979' entered, and an 'Apply' button below it.

Chapter 5 : Security Management for networks.

5-1. Access Control :

Connection control by MAC address.

- a. Add : Add a MAC address into Access list.
- b. Clear : Clear building list.
- c. Del : Delete MAC address from Access list.
- d. Apply : Apply selected list to the AP.

Only 1 list (None / Accept / Deny) be start up in the same time.

Status	Network	Device	Security	Localization	Log Out
--------	---------	--------	----------	--------------	---------

Security

Access Control

SNMP

Password Settings

Access Control

None Accept Deny

MAC Address: 00:11:22:33:44:55

Deny List

00:11:22:33:44:55

Apply

5-2. SNMP :

SNMP is used in network management systems to monitor network-attached devices for conditions that warrant administrative attention.

Status	Network	Device	Security	Localization	Log Out
--------	---------	--------	----------	--------------	---------

Security

Access Control

SNMP

Password Settings

SNMP Settings

Enable SNMP

SNMP Public Community Name

SNMP Public Source

SNMP Private Community Name

SNMP Private Source

Apply

5-3. Password :

To change Web User Interface login password.

Status	Network	Device	Security	Localization	Log Out
--------	---------	--------	----------	--------------	---------

Security

Access Control

SNMP

Password Settings

Password Settings

New Password

Confirmed Password

Apply

Chapter 5 : Security Management for networks.

Support 4 different country code.

- a. Wildcard
- b. Germany
- c. Japan
- d. United States



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 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 installation. , May cause harmful interference to radio communication. 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

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 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

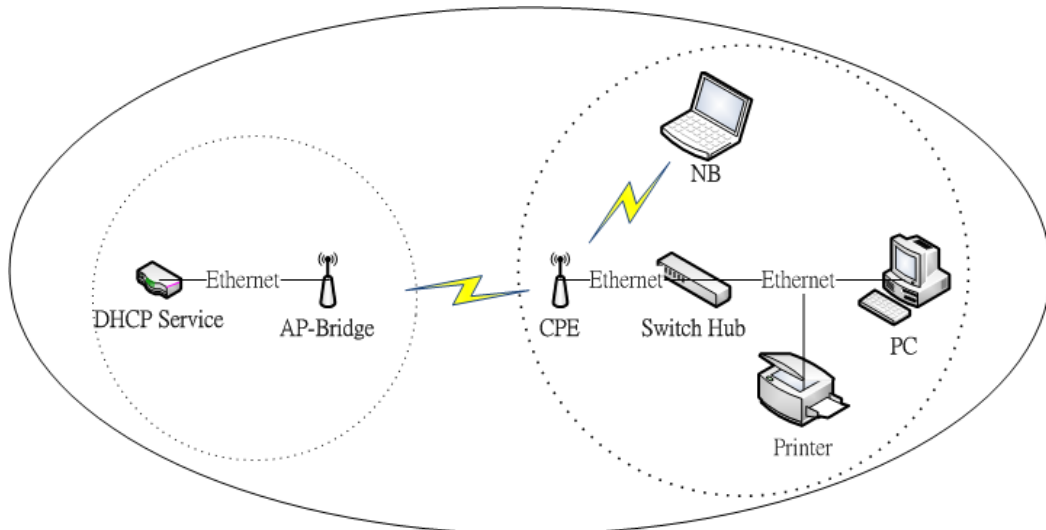
FCC RF Radiation Exposure Statement:

1. This Transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
2. This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

This transmitter has been demonstrated co-location compliance requirement with any other antenna or transmitter .

For product available in the USA market, only channel 1~11 can be operated. Selection of other channels is not possible.

Application 1 : Basic Wireless Bridge Network ?

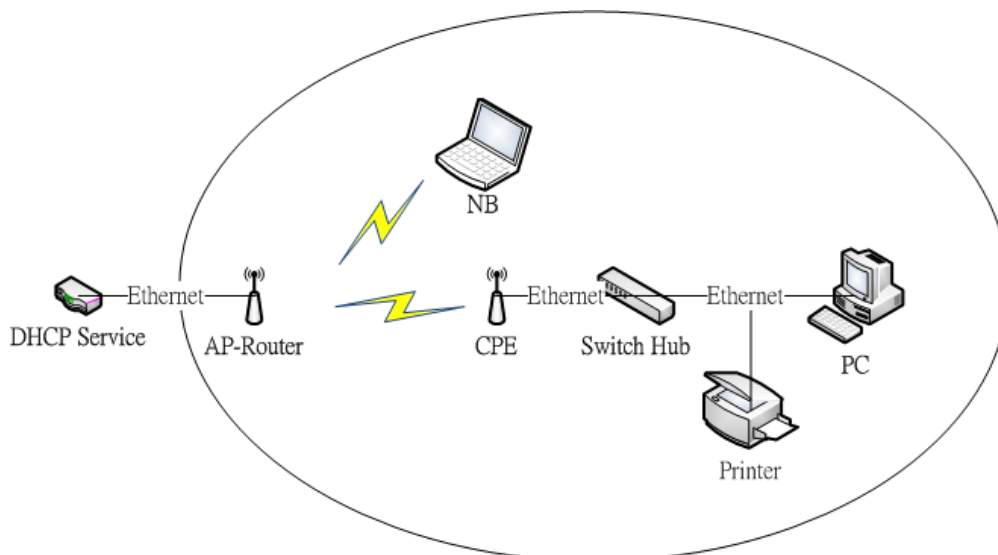


AP bridge and CPE connect multiple network segments at the data link layer (layer2) of the OSI model.

They can be used to join or connect remote station to LANs.

If a DHCP Server is behind the remote AP or station, the PC or device behind the JA25AP will get the ip informations from DHCP server.

Application 2 : Basic Router Application ?



Get IP information from JA25AP running in AP router mode.