

1 Pre-operating

Set IP address to be static IP

1.To "control panel" > "network connections"



2.To local area connection and left click 2 times

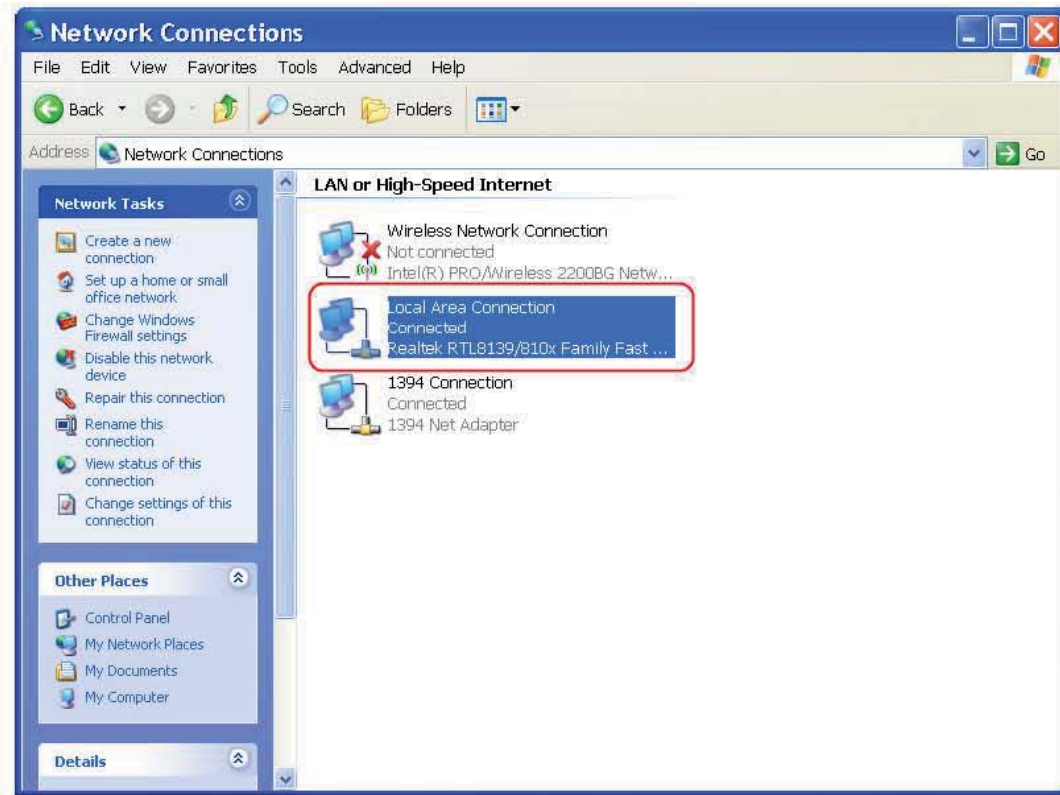
1 Pre-operating

Set IP address to be static IP

1.To "control panel" > "network connections"

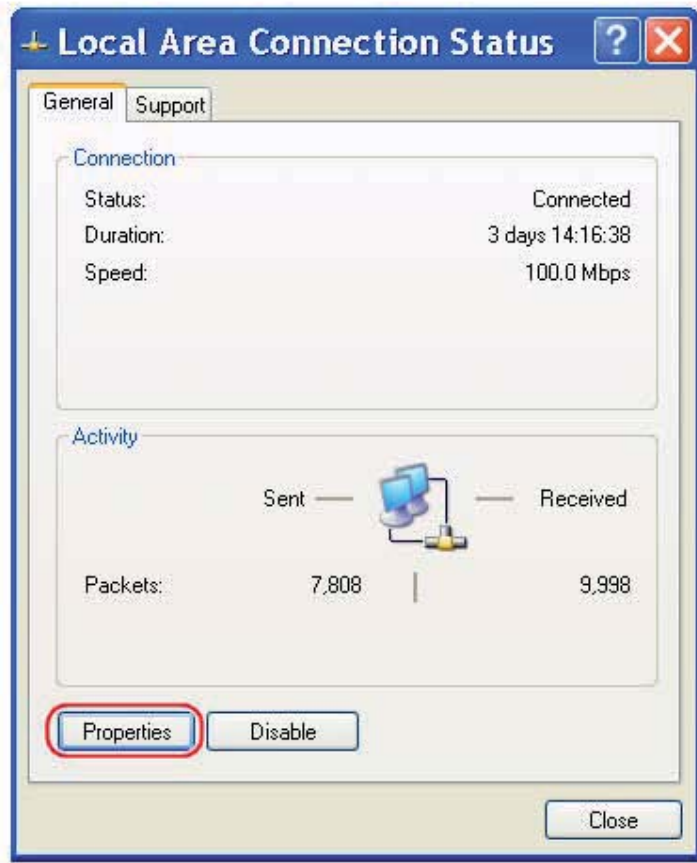


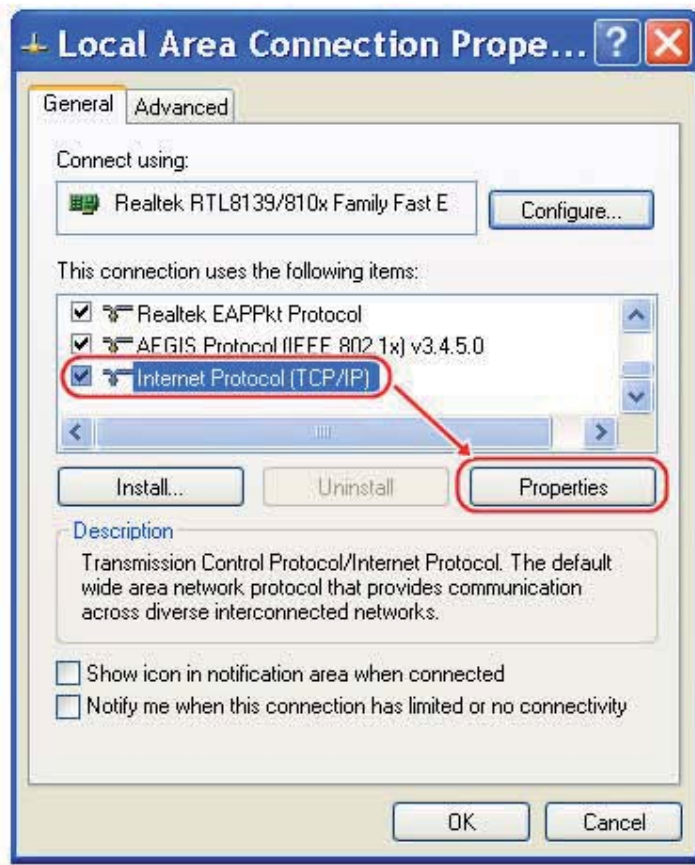
2.To local area connection and left click 2 times

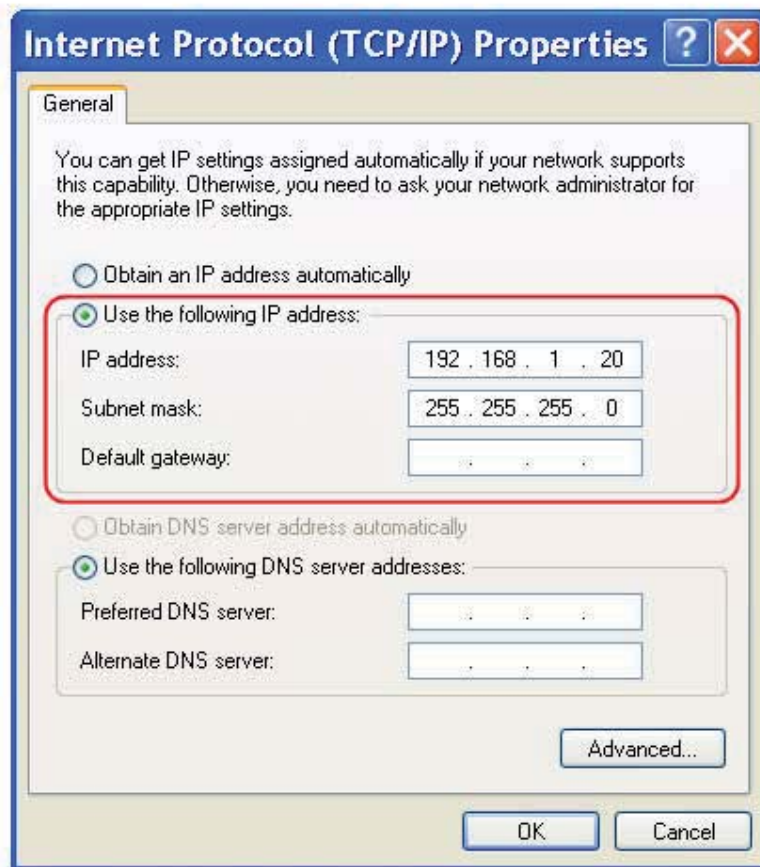


3. Set IP Press on Properties. Choose Internet Protocol (TCP/IP) then press on properties.

Choose "Use the following IP address" and key in your IP address and subnet mask. If you don't have the IP address and subnet mask you can key in the setting values from aside page.





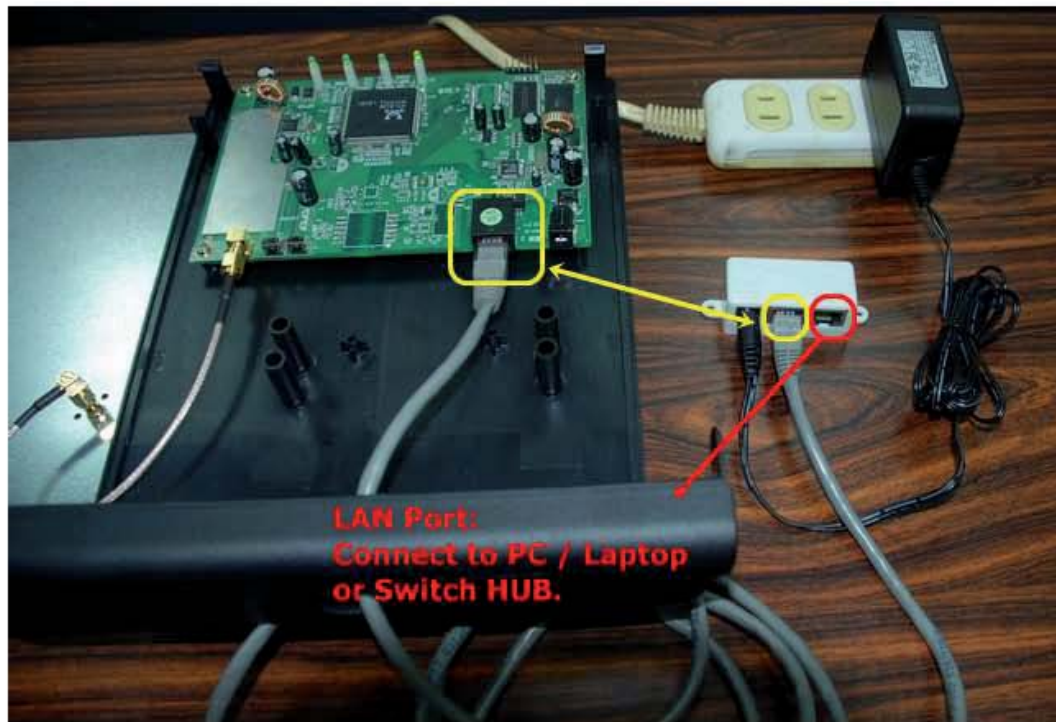


4. Connect out door wireless AP to POE.

How to connect Power Injector

Connect LAN port to PC/Laptop or Switch Hub.

Connect POE to AP LAN port.



2 Setting AP mode - Connect router from lan port.



How to connect power injector.
Connect LAN port to PC/Laptop or Switch hub.
Connect POE to AP's LAN Port.

Open IE and link to website: 192.168.1.254 to GUI.



Wireless > Basic Settings

SSID can be set as your favorite name. Please avoid set same channel with other AP in the same area. Same channel would cause to jamming and decrease data transfer rate.

Wireless Basic Settings

This page is used to configure the parameters for wireless LAN clients which may connect to your Access Point. Here you may change wireless encryption settings as well as wireless network parameters.

☐ **Disable Wireless LAN Interface**

Band: 2.4 GHz (B+G) ▼

Mode: AP ▼

Network Type: Infrastructure ▼

SSID: MyWLAN

Channel Number: 11 ▼

Associated Clients: [Show Active Clients](#)

☐ **Enable Mac Clone (Single Ethernet Client)**

☐ **Enable Universal Repeater Mode (Acting as AP and client simultaneously)**

SSID of Extended Interface:

[Apply Changes](#)

[Reset](#)

Wireless > Security
Set up Encryption.

Wireless Security Setup

This page allows you setup the wireless security. Turn on WEP or WPA by using Encryption Keys could prevent any unauthorized access to your wireless network.

Encryption: **WEP** ▼ [Set WEP Key](#)

☐ Use 802.1x Authentication

WPA Authentication Mode: ☐ WEP 64bits ☐ WEP 128bits

☐ Enterprise (RADIUS) ☒ Personal (Pre-Shared Key)

WPA Cipher Suite: ☒ TKIP ☐ AES

WPA2 Cipher Suite: ☐ TKIP ☒ AES

Pre-Shared Key Format: **Passphrase** ▼

Pre-Shared Key:

☐ Enable Pre-Authentication

Authentication RADIUS Server: Port IP address Password

Note: When encryption WEP is selected, you must set WEP key value.

[Apply Changes](#) [Reset](#)

Wireless WEP Key Setup

This page allows you setup the WEP key value. You could choose use 64-bit or 128-bit as the encryption key, and select ASCII or Hex as the format of input value.

Key Length: 64-bit ▼

Key Format: Hex (10 characters) ▼

Default Tx Key: Key1 ▼

Encryption Key 1:

Encryption Key 2:

Encryption Key 3:

Encryption Key 4:

[Apply Changes](#) [Close](#) [Reset](#)

TCP/IP Settings > Lan Interface
Set up IP Address.
Choose DHCP to be "Disabled".

LAN Interface Setup

This page is used to configure the parameters for local area network which connects to the LAN port of your Access Point. Here you may change the setting for IP address, subnet mask, DHCP, etc..

IP Address:	192.168.1.254
Subnet Mask:	255.255.255.0
Default Gateway:	0.0.0.0
DHCP:	Disabled ▾
DHCP Client Range:	192.168.1.1 - 192.168.1.249 Show Client
Domain Name:	
802.1d Spanning Tree:	Disabled ▾
Clone MAC Address:	000000000000

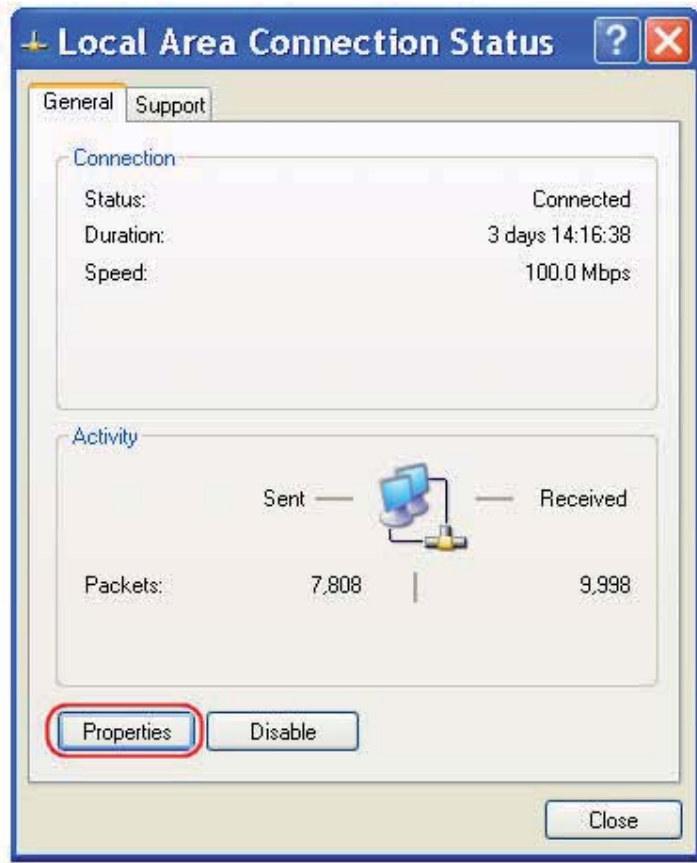
Management > Save/Reload Settings
Choose save mode to keep all settings. While reset AP all previous settings are able to load from "load settings from file".

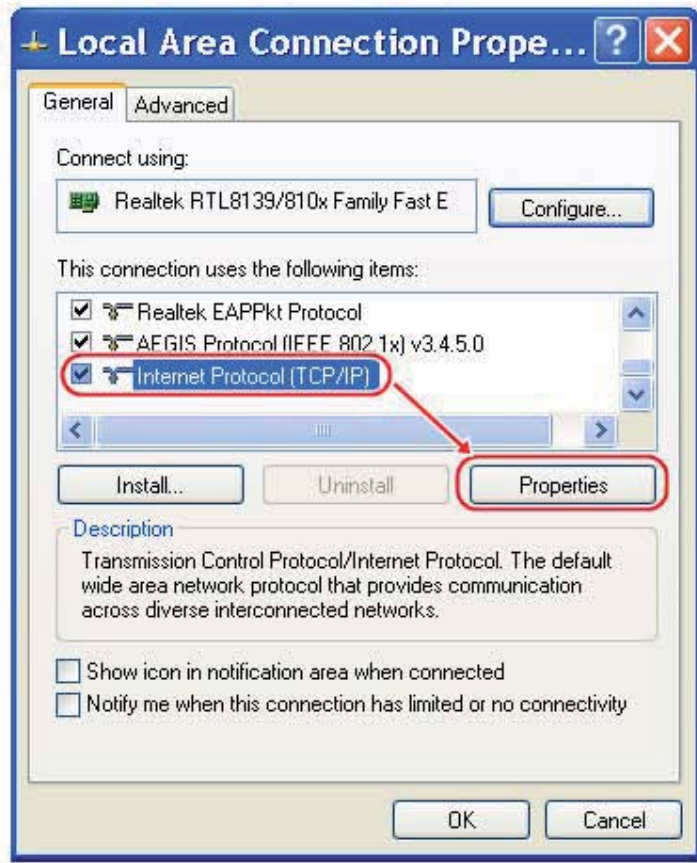
Save/Reload Settings

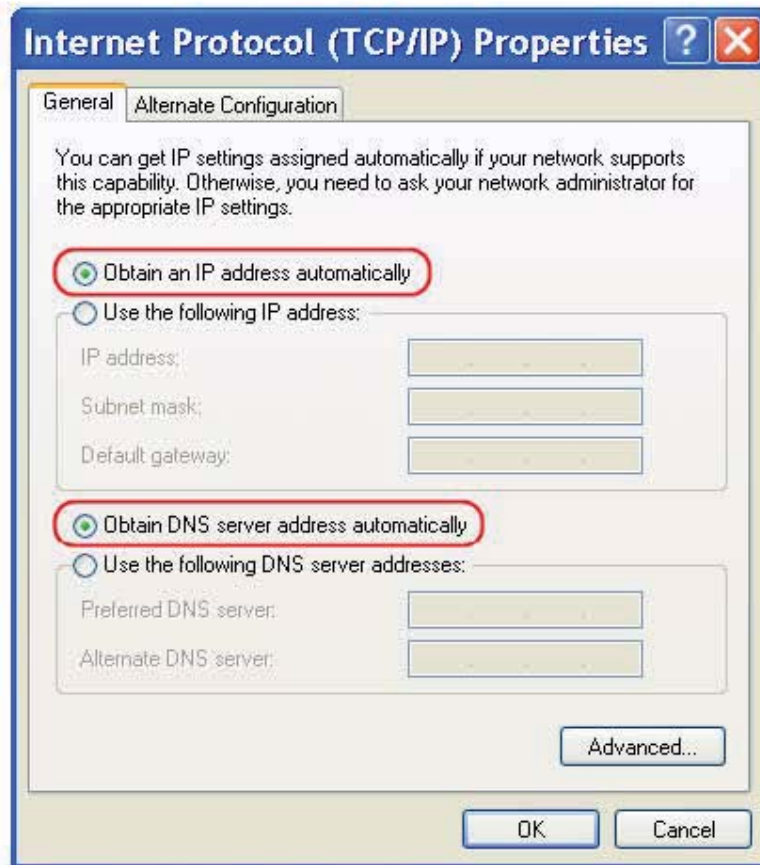
This page allows you save current settings to a file or reload the settings from the file which was saved previously. Besides, you could reset the current configuration to factory default.

Save Settings to File:	Save...
Load Settings from File:	Browse... Upload
Reset Settings to Default:	Reset

Back to TCP/IP Settings changing IP address to be "obtain and IP address automatically". IP address is able to be automatically supplied by AP.







3 Client mode - how to scan free AP.



How to connect Power Injector
Connect power injector POE port with RJ45 cable to AP LAN Port.
Open IE and link to website: 192.168.1.254 to GUI.



Wireless > Basic Settings
Choose "Client".
Click on "**Enable Universal Repeater mode (Acting as AP and client simultaneously)**".
Key in SSID name at SSID of "Extended Interface".
Click at "Apply Changes".

Wireless Basic Settings

This page is used to configure the parameters for wireless LAN clients which may connect to your Access Point. Here you may change wireless encryption settings as well as wireless network parameters.

☐ Disable Wireless LAN Interface

Band: 2.4 GHz (B+G) ▼

Mode: Client ▼

Network Type: Infrastructure ▼

SSID: MyWLAN

Channel Number: 11 ▼

Associated Clients: Show Active Clients

☐ Enable Mac Clone (Single Ethernet Client)

☒ Enable Universal Repeater Mode (Acting as AP and client simultaneously)

SSID of Extended Interface: MyWLAN Free AP

Apply Changes

Reset

Wireless Site Survey>Refresh to survey AP site.

Encrypt column shows "no" means no password to connect to this AP. Press at "Select" and "Connect" to connect to internet.

Figures at "Signal Column" should be more than 20 to connect.

Wireless Site Survey

This page provides tool to scan the wireless network. If any Access Point or IBSS is found, you could choose to connect it manually when client mode is enabled.

SSID	BSSID	Channel	Type	Encrypt	Signal	Select
Universal Reapter Mode AP	00:1a:ef:02:21:44	1 (B+G)	AP	no	43	☒
Good AP 192.168.1.253	00:1a:ef:01:01:01	1 (B+G)	AP	no	33	☐
(Outdoor AP POE)6F	00:1a:ef:05:2e:04	3 (B+G)	AP	WPA2-PSK	23	☐
High Power 6F POE	00:1a:ef:00:00:03	1 (B+G)	AP	WPA2-PSK	16	☐
jls	00:17:9a:36:42:12	1 (B+G)	AP	WEP	15	☐

Refresh

Connect

Press "Select" and "Connect" to connect to internet.
Press "OK" when popup "Connect successfully".

Connect successfully!

OK

Security should be set up in advance for WEP/WPA2 shown AP.

Wireless Site Survey

This page provides tool to scan the wireless network. If any Access Point or IBSS is found, you could choose to connect it manually when client mode is enabled.

SSID	BSSID	Channel	Type	Encrypt	Signal	Select
Universal Reapter Mode AP	00:1a:ef:02:21:44	1 (B+G)	AP	no	43	☒
Good AP 192.168.1.253	00:1a:ef:01:01:01	1 (B+G)	AP	no	33	☐
(Outdoor AP POE)6F	00:1a:ef:05:2e:04	3 (B+G)	AP	WPA2-PSK	23	☐
High Power 6F POE	00:1a:ef:00:00:03	1 (B+G)	AP	WPA2-PSK	16	☐
jds	00:17:9a:36:42:12	1 (B+G)	AP	WEP	15	☐

Wireless > Security

Choose the same Encryption way to the AP.

Click at "Apply Changes."

Wireless Security Setup

This page allows you setup the wireless security. Turn on WEP or WPA by using Encryption Keys could prevent any unauthorized access to your wireless network.

Encryption: WEP Set WEP Key

☐ Use 802.1x Authentication ☒ WEP 64bits ☐ WEP 128bits

WPA Authentication Mode: ☐ Enterprise (RADIUS) ☒ Personal (Pre-Shared Key)

WPA Cipher Suite: ☒ TKIP ☐ AES

WPA2 Cipher Suite: ☐ TKIP ☒ AES

Pre-Shared Key Format: Passphrase

Pre-Shared Key:

☐ Enable Pre-Authentication

Authentication RADIUS Server: Port 1812 IP address Password

Note: When encryption WEP is selected, you must set WEP key value.

Wireless WEP Key Setup

This page allows you setup the WEP key value. You could choose use 64-bit or 128-bit as the encryption key, and select ASCII or Hex as the format of input value.

Key Length: 64-bit

Key Format: Hex (10 characters)

Default Tx Key: Key1

Encryption Key 1:

Encryption Key 2:

Encryption Key 3:

Encryption Key 4:

Check "Management > Status" after connected. The SSID and Channel should be the same with the connected AP.

"Connected" at "State" column means connecting.

"Scanning" at State column means it's not connected.

Access Point Status

This page shows the current status and some basic settings of the device.

System	
Uptime	0day:22h:4m:1s
Firmware Version	V2.3b
Wireless Configuration	
Mode	Infrastructure Client
Band	2.4 GHz (B+G)
SSID	Good AP 192.168.1.253
Channel Number	1
Encryption	Disabled
BSSID	00:1a:ef:01:01:01
State	Connected
Wireless Repeater Interface Configuration	
Mode	AP
SSID	Universal Reapter Mode AP
Encryption	Disabled
BSSID	00:1a:ef:02:21:44
Associated Clients	2

TCP/IP Settings > Lan Interface

Set up IP address for operating AP.

Set DHCP to be "Disable".

Set different IP address between 2 APs. If one is 192.168.2.1, the other one should be different, like: 192.168.3.254

LAN Interface Setup

This page is used to configure the parameters for local area network which connects to the LAN port of your Access Point. Here you may change the setting for IP address, subnet mask, DHCP, etc..

IP Address:	192.168.1.254
Subnet Mask:	255.255.255.0
Default Gateway:	0.0.0.0
DHCP:	Disabled ▾
DHCP Client Range:	192.168.1.1 - 192.168.1.249 Show Client
Domain Name:	
802.1d Spanning Tree:	Disabled ▾
Clone MAC Address:	000000000000
Apply Changes Reset	

Management > Save/Reload Settings

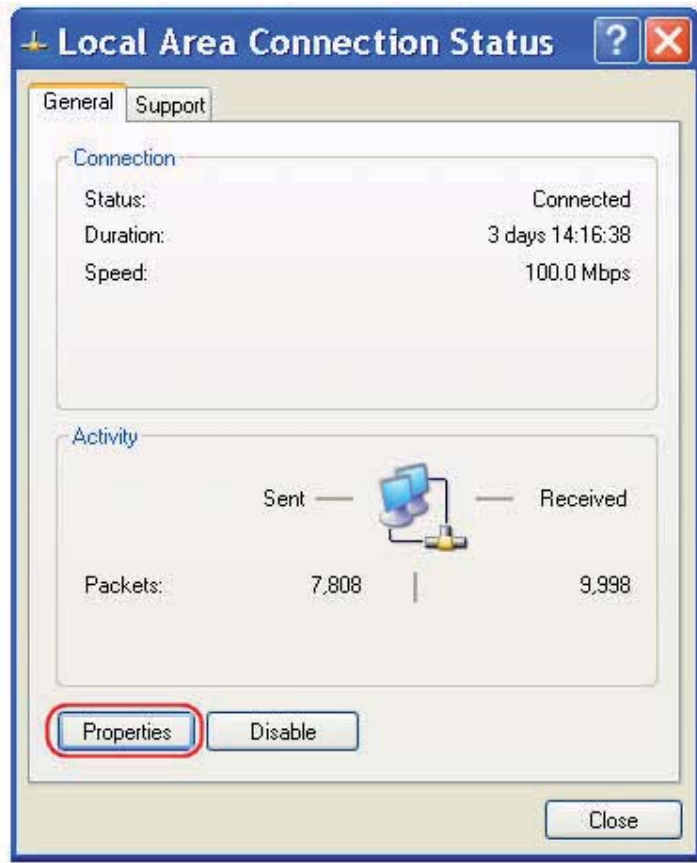
Choose save mode to keep all settings. While reset AP all previous settings are able to load from "load settings from file".

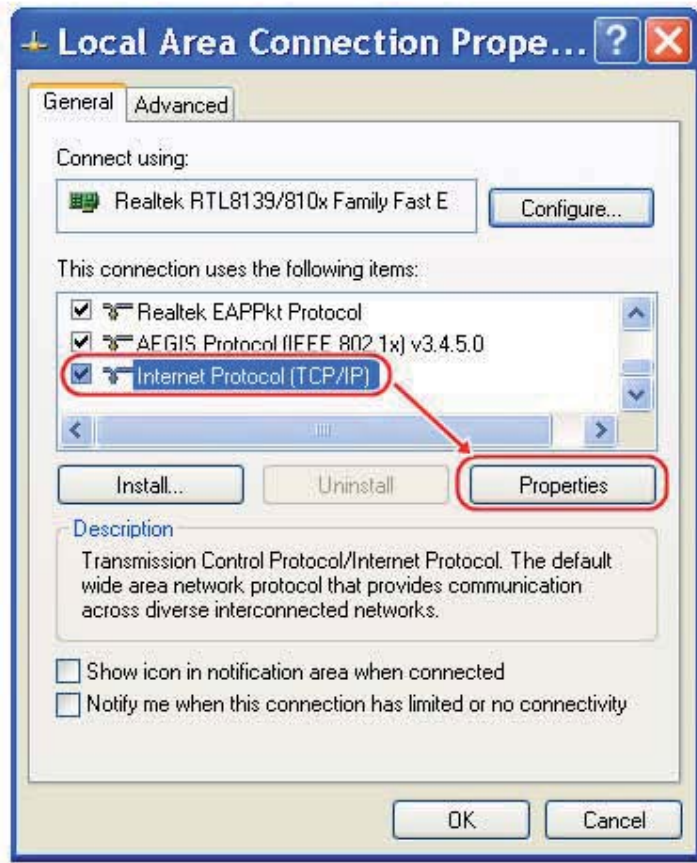
Save/Reload Settings

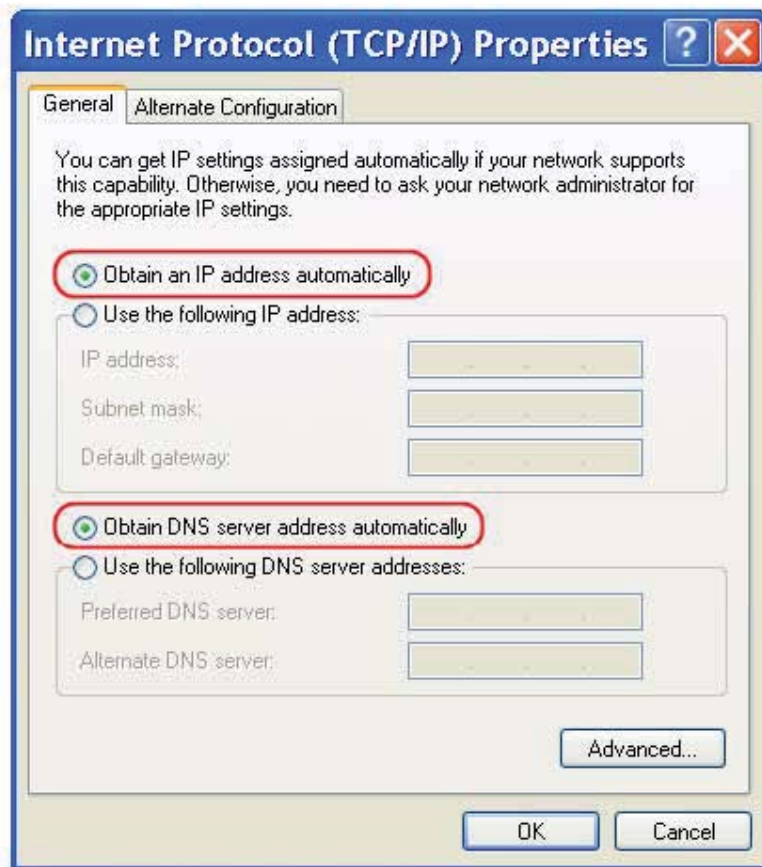
This page allows you save current settings to a file or reload the settings from the file which was saved previously. Besides, you could reset the current configuration to factory default.

Save Settings to File:	Save...
Load Settings from File:	Browse... Upload
Reset Settings to Default:	Reset

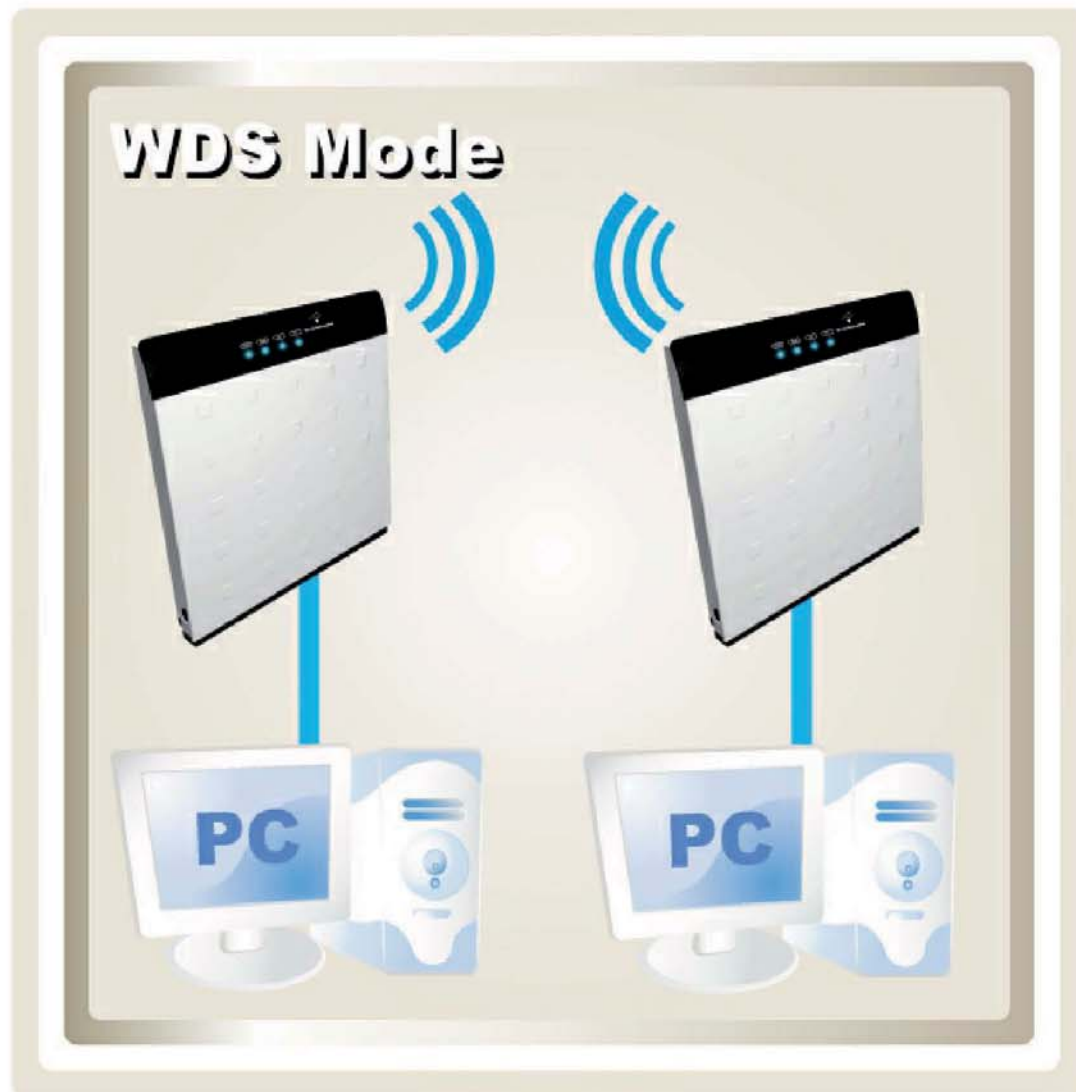
Back to TCP/IP Settings changing IP address to be "obtain and IP address automatically". IP address is able to be automatically supplied by AP.







4 WDS mode Setting - Connecting between 2 APs



How to connect Power Injector

Connect power injector POE port with RJ45 cable to AP LAN Port.

Open IE and link to website: 192.168.1.254 to GUI.



Wireless > Basic Settings

Choose AP+WDS from wireless basis setting "mode" page. Channel number has to be the same for 2 AP. Set an unused channel to avoid jamming.

Click Apply Changes.

Wireless Basic Settings

This page is used to configure the parameters for wireless LAN clients which may connect to your Access Point. Here you may change wireless encryption settings as well as wireless network parameters.

☐ **Disable Wireless LAN Interface**

Band: 2.4 GHz (B+G) ▼

Mode: AP+WDS ▼

Network Type: Infrastructure ▼

SSID: MyWLAN

Channel Number: 11 ▼

Associated Clients: Show Active Clients

☐ **Enable Mac Clone (Single Ethernet Client)**

☐ **Enable Universal Repeater Mode (Acting as AP and client simultaneously)**

SSID of Extended Interface:

Apply Changes

Reset

Wireless > WDS Settings

Click Enable WDS from WDS settings. Then key in another AP's Mac address.

WDS Settings

Wireless Distribution System uses wireless media to communicate with other APs, like the Ethernet does. To do this, you must set these APs in the same channel and set MAC address of other APs which you want to communicate with in the table and then enable the WDS.

☒ **Enable WDS**

Add WDS AP:

MAC Address

00e04c818621

Comment

WDS Client

Apply Changes

Reset

Set Security

Show Statistics

Current WDS AP List:

MAC Address	Comment	Select
00-e0:4c:81:86:21	WDS Client	☐

Delete Selected

Delete All

Reset

Mac address is available from Status (Management > Status)

Access Point Status

This page shows the current status and some basic settings of the device.

System	
Uptime	0day:22h:16m:6s
Firmware Version	V2.3b
Wireless Configuration	
Mode	AP+WDS
Band	2.4 GHz (B+G)
SSID	Good AP 192.168.1.253
Channel Number	11
Encryption	Disabled(AP), Disabled(WDS)
BSSID	00:1a:ef:02:21:44
Associated Clients	0

Or checked from AP's BSSID. Site Survey (Wireless > Site Survey>Refresh)

Wireless Site Survey

This page provides tool to scan the wireless network. If any Access Point or IBSS is found, you could choose to connect it manually when client mode is enabled.

SSID	BSSID	Channel	Type	Encrypt	Signal
Universal Reapter Mode AP	00:1a:ef:02:21:44	1 (B+G)	AP	no	46
Good AP 192.168.1.253	00:1a:ef:01:01:01	1 (B+G)	AP	no	38
(Outdoor AP POE)6F	00:1a:ef:05:2e:04	3 (B+G)	AP	WPA2-PSK	20
High Power 6F POE	00:1a:ef:00:00:03	1 (B+G)	AP	WPA2-PSK	15
jls	00:17:9a:36:42:12	1 (B+G)	AP	WEP	12
2F Ap	00:1a:ef:00:00:b7	8 (B+G)	AP	no	1

Refresh

Connect

TCP/IP Setting > Lan Interface

Set up IP address in the "IP Address" column.

Notes: IP address can not be the same. For example, one is 192.168.1.254 then the other one should be 192.168.1.253 or others. 192.168.1.1 is not allowed, it is conflicted to ADSL modem.)

When using this DHCP function only one DHCP Disable to be set.

LAN Interface Setup

This page is used to configure the parameters for local area network which connects to the LAN port of your Access Point. Here you may change the setting for IP address, subnet mask, DHCP, etc..

IP Address:	192.168.1.254
Subnet Mask:	255.255.255.0
Default Gateway:	0.0.0.0
DHCP:	Disabled ▾
DHCP Client Range:	192.168.1.1 - 192.168.1.249 Show Client
Domain Name:	
802.1d Spanning Tree:	Disabled ▾
Clone MAC Address:	000000000000
Apply Changes Reset	

Management > Save/Reload Settings

Choose save mode to keep all settings. While reset AP all previous settings are able to load from "load settings from file".

Save/Reload Settings

This page allows you save current settings to a file or reload the settings from the file which was saved previously. Besides, you could reset the current configuration to factory default.

Save Settings to File:	Save...
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