

**ARGtek ARG-1220 WLAN Dual Band
AP Router**

For 802.11a/b/g/n

POWER KING SPACE

Quick Installation Guide

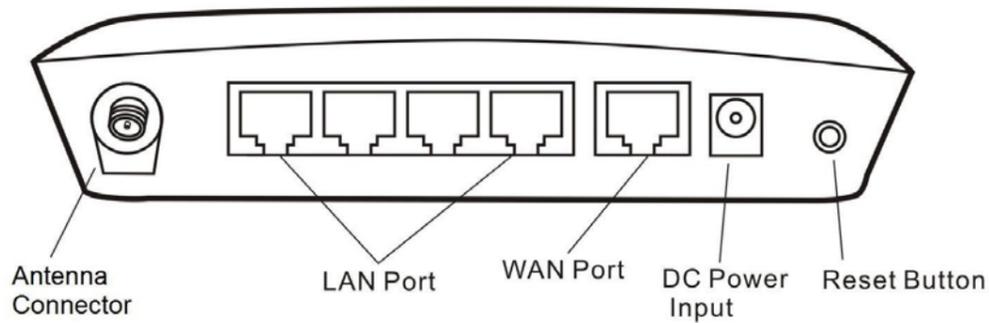
Part I: External Installation Direction

Package Content

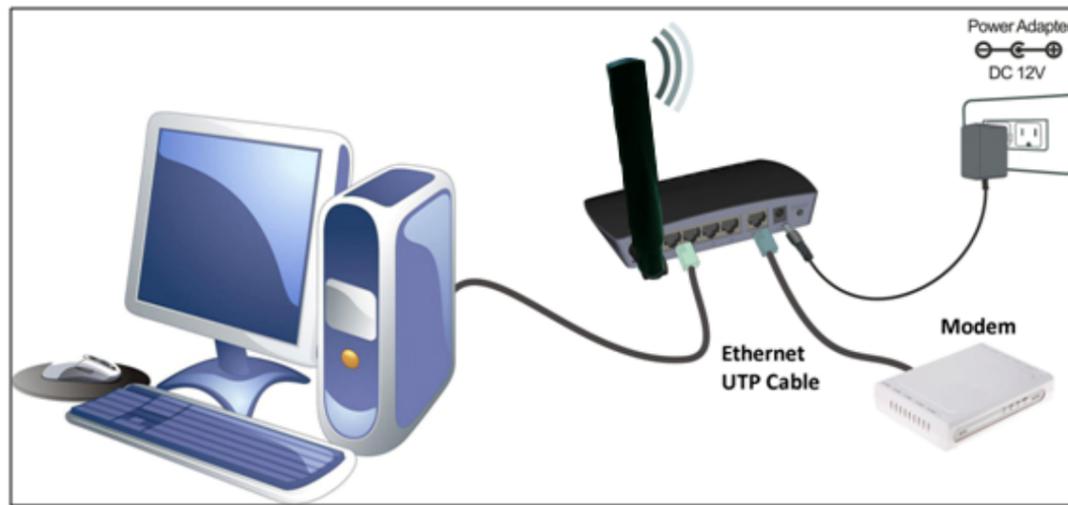
AP Router	1
DC 12V Power Adapter	1
Dual Band Antenna	1
PoE DC Injector	1
Paper QIG	1
Manual/QIG CD	1

AP Router Connection

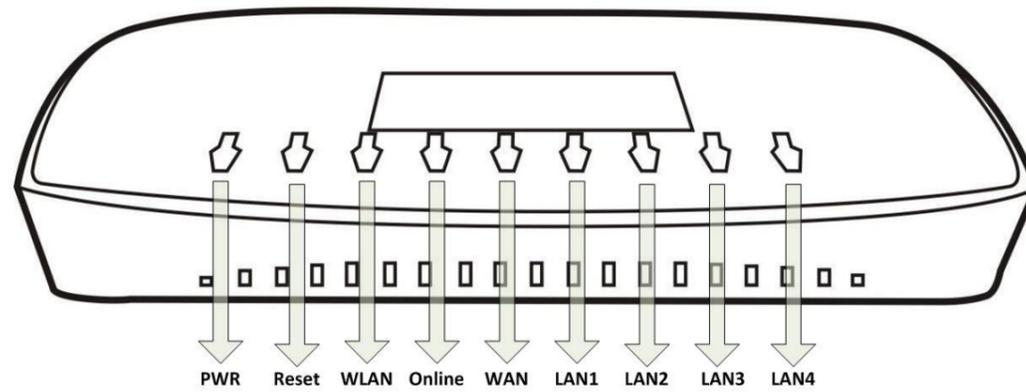
Before installing the router, connect your PC to the internet through your broadband service.(If there is any problem, contact your ISP.)Then proceed through the following steps.



1. Turn off your PC(s), cable/(A)DSL modem and the router.
2. Adjust the antenna. Normally, upright is a good place to start.
3. Connect the PC(s) and each switch/hub on your local area network to the LAN ports on the router.
4. Connect the ADSL/DSL/cable modem to the router WAN port.
5. Connect the power adapter between the power socket on the router and an electrical outlet. The router will start to work automatically.
6. Turn on your PC(s) and the cable/(A)DSL modem.



The Front LED Indicator



AP Router configuration

The AP Router is delivered with the following factory default parameters on the Ethernet LAN interfaces.

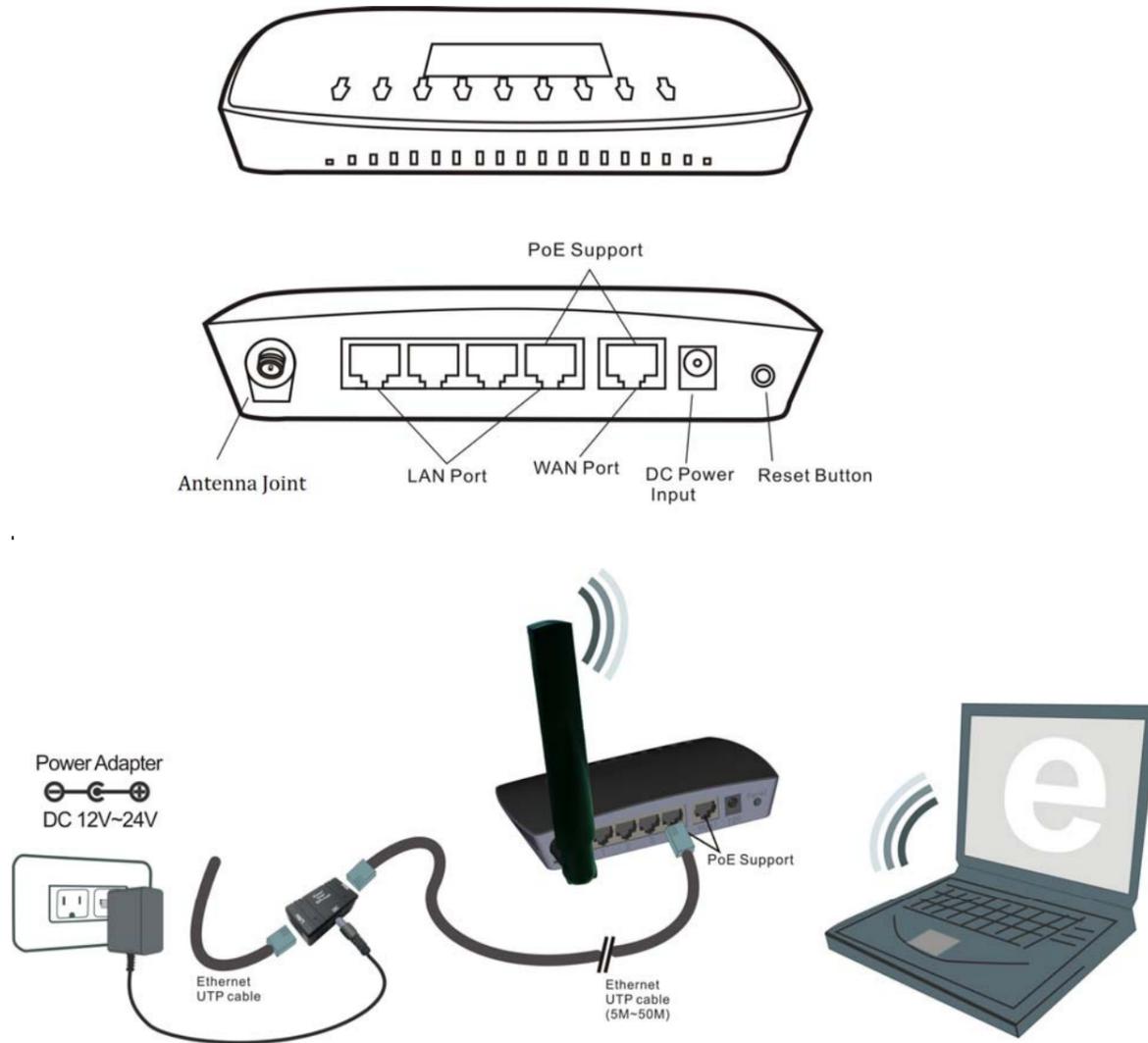
Default IP Address: 10.10.10.254
Default IP subnet mask: 255.255.255.0
Web login User Name: admin
Web login Password: admin

The device has four operation modes (Gateway/Bridge/WISP/AP Client). The default IP addresses for the device are 10.10.10.254, so you need to make sure the IP address of your PC is in the same subnet as the device, such

as 10.10.10.X.

It will take about 55 seconds to complete the boot up sequence after power on.

PoE DC Injector Configuration



POE means Power over Ethernet, usually used with Wireless Device.

You can use it to integrate the power and the Ethernet then connected with the RJ45 cable.

With POE, you can bring the power and Ethernet with long distance as far as the length of RJ45 cable.

Since you used PoE DC Injector, the cable line won't perplex you anymore. Your Access Point & Router are installed conveniently to gain more efficient bandwidth by yourself.

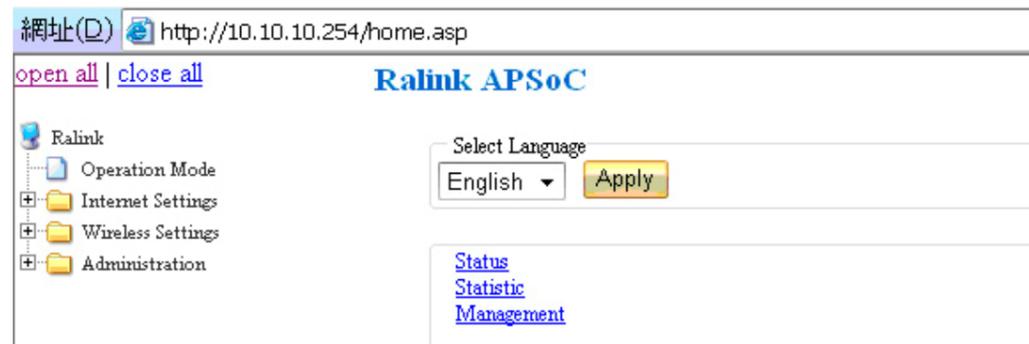
Less space and electricity limitation, more comfortable wireless life.

Part II: Internal Web Management

AP Mode Setup (ADSL)

1. Install the antenna & power adapter, and then connect the LAN cable with LAN port of this equipment. Another side of cable line connects with network card of computer. Waiting for booting around 20 seconds.
2. Open the IE (Internet Explorer) and type 10.10.10.254 on Website to enter the setup frame. If you can't enter to setup frame, you can try to set the IP address for 10.10.10.XXX and try to connect again. Otherwise, please press Reset button around 10 seconds to restore AP and try to enter again

Select the Operation Mode on the left side of setup frame



1. In Operation Mode, select Gateway and press Apply

Operation Mode Configuration

You may configure the operation mode suitable for you environment.

- **Bridge:**
All ethernet and wireless interfaces are bridged into a single bridge interface.
- **Gateway:**
The first ethernet port is treated as WAN port. The other ethernet ports and the wireless interface are bridged together and are treated as LAN ports.
- **WISP:**
The wireless interface is treated as WAN port, and the ethernet ports are LAN ports.
- **AP Client:**
The wireless client interface is treated as WAN port, and the wireless ap interface and the ethernet ports are LAN ports.

2a. In Internet Settings / WAN /, select PPPoE (ADSL) for your WAN Connection Type and enter your User Name & Password which were presented by your ISOP company. And then press **Apply**

Wide Area Network (WAN) Settings

You may choose different connection type suitable for your environment. Besides, you may also configure parameters according to the selected connection type.

WAN Connection Type: PPPoE (ADSL) ▼

PPPoE Mode

User Name: STATIC (fixed IP)
DHCP (Auto config)
PPPoE (ADSL)
L2TP
PPTP
3G

Password:

Verify Password:

Operation Mode: Keep Alive ▼

Keep Alive Mode: Redial Period seconds
On demand Mode: Idle Time minutes

MAC Clone

Enabled: Disable ▼

2b. In Internet Setting/LAN/, you may change the setting of IP address, DHCP and etc. then press **Apply**

Local Area Network (LAN) Settings

You may enable/disable networking functions and configure their parameters as your wish.

LAN Setup	
IP Address	<input type="text" value="10.10.10.254"/>
Subnet Mask	<input type="text" value="255.255.255.0"/>

3. In Wireless Settings / Basic, you may change the setting of SSID, and then press **Apply**

Basic Wireless Settings

You could configure the minimum number of Wireless settings for communication, such as Network Name (SSID) and Channel. The Access Point can be set simply with only the minimum setting items.

Wireless Network	
Radio On/Off	<input type="button" value="RADIO OFF"/>
Network Mode	<input type="text" value="11b/g/n mixed mode"/>
Network Name(SSID)	<input type="text" value="2342-01"/>
Multiple SSID1	<input type="text"/>
Multiple SSID2	<input type="text"/>
Multiple SSID3	<input type="text"/>
Multiple SSID4	<input type="text"/>

4. In Wireless Settings / Security, you may change the setting of password, and then press **Apply**

Wireless Security/Encryption Settings

Setup the wireless security and encryption to prevent from unauthorized access and monitoring.

Select SSID	
SSID choice	RT2880_AP
"RT2880_AP"	
Security Mode	Disable
Access Policy	
Policy	
Add a station Mac:	
<input type="button" value="Apply"/>	

- Disable
- OPEN
- SHARED
- WEPAUTO
- WPA
- WPA-PSK
- WPA2
- WPA2-PSK
- WPAPSKWPA2PSK
- WPA1WPA2
- 802.1X

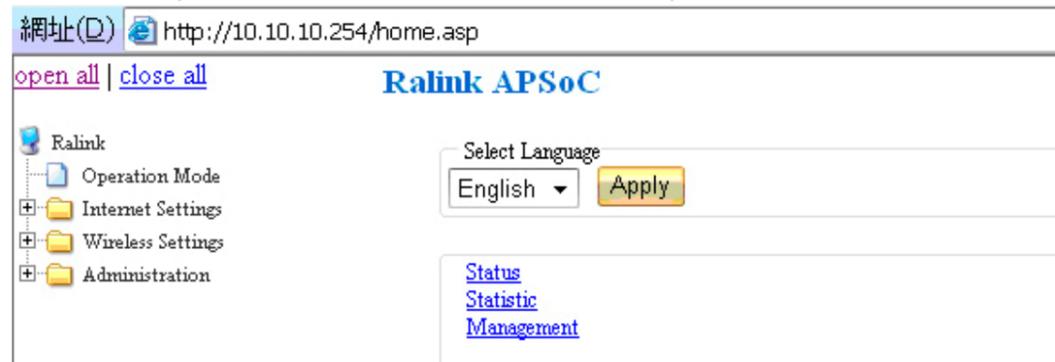
Finish setting and press **Apply**, the setting will be completed after rebooting around 20 seconds.

Note: You have to connect ADSL cable with the WAN port of this equipment.

AP Mode Setup (IP Share)

- 1、 Install the antenna & power adapter, and then connect the LAN cable with LAN port of this equipment. Another side of cable line connects with RJ-45 of computer. Waiting for booting around 20 seconds.
- 2、 Open the IE (Internet Explorer) and type 10.10.10.254 on Website to enter the setup frame. If you can't enter to setup frame, you can try to set the IP address for 10.10.10.XXX and try to connect again. Otherwise, please press Reset button around 10 seconds to restore AP and try to enter again

Select the Operation Mode on the left side of setup frame



1. In Operation Mode, please select Bridge. Select AP or Main AP in Wireless Operation Mode and press Apply

Operation Mode Configuration

You may configure the operation mode suitable for you environment.

- Bridge:**
All ethernet and wireless interfaces are bridged into a single bridge interface.
- Gateway:**
The first ethernet port is treated as WAN port. The other ethernet ports and the wireless interface are bridged together and are treated as LAN ports.
- WISP:**
The wireless interface is treated as WAN port, and the ethernet ports are LAN ports.
- AP Client:**
The wireless client interface is treated as WAN port, and the wireless ap interface and the ethernet ports are LAN ports.

Wireless Operation Mode

2 In Internet Setting/LAN/, you may change the setting of IP address, DHCP and etc. then press

Local Area Network (LAN) Settings

You may enable/disable networking functions and configure their parameters as your wish.

LAN Setup	
IP Address	<input type="text" value="10.10.10.254"/>
Subnet Mask	<input type="text" value="255.255.255.0"/>

3 In Wireless Settings / Basic, you may change the setting of SSID, and then press

Basic Wireless Settings

You could configure the minimum number of Wireless settings for communication, such as Network Name (SSID) and Channel. The Access Point can be set simply with only the minimum setting items.

Wireless Network	
Radio On/Off	<input type="button" value="RADIO OFF"/>
Network Mode	11b/g/n mixed mode ▾
Network Name(SSID)	2342-01
Multiple SSID1	<input type="text"/>
Multiple SSID2	<input type="text"/>
Multiple SSID3	<input type="text"/>
Multiple SSID4	<input type="text"/>

4. In Wireless Settings / Security, you may change the setting of password, and then press

Wireless Security/Encryption Settings

Setup the wireless security and encryption to prevent from unauthorized access and monitoring.

Select SSID	
SSID choice	RT2880_AP

"RT2880_AP"	
Security Mode	Disable

Access Policy	
Policy	
Add a station Mac:	

Apply

- Disable
- OPEN
- SHARED
- WEPAUTO
- WPA
- WPA-PSK
- WPA2
- WPA2-PSK
- WPAPSKWPA2PSK
- WPA1WPA2
- 802.1X

Finish setting and press **Apply**, the setting will be completed after rebooting around 20 seconds.

Note: You have to connect cable line with the LAN port of this equipment.

Federal Communication Commission Interference 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.

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 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.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Operations in the 5.15-5.25GHz band are restricted to indoor usage only.

Radiation Exposure Statement:

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.

Note: The country code selection is for non-US model only and is not available to all US model. Per FCC regulation, all WiFi product marketed in US must fixed to US operation channels only.