



54Mbps Wireless Access Point With 5-Port Switch

WAP-4035

User's Manual

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Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of 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:

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

FCC Caution

To assure continued compliance. (example-use only shielded interface cables when connecting to computer or peripheral devices). Any changes or modifications not expressly approved by the party responsible for compliance could void the user's 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.

Federal Communication Commission (FCC) Radiation Exposure Statement

This equipment complies with FCC radiation exposure set forth for an uncontrolled environment. In order to avoid the possibility of exceeding the FCC radio frequency exposure limits, human proximity to the antenna shall not be less than 20 cm (8 inches) during normal operation.

R&TTE Compliance Statement

This equipment complies with all the requirements of DIRECTIVE 1999/5/CE OF THE EUROPEAN PARLIAMENT AND THE COUNCIL OF 9 March 1999 on radio equipment and telecommunication terminal Equipment and the mutual recognition of their conformity (R&TTE)

The R&TTE Directive repeals and replaces in the directive 98/13/EEC (Telecommunications Terminal Equipment and Satellite Earth Station Equipment) As of April 8,2000.

Safety

This equipment is designed with the utmost care for the safety of those who install and use it. However, special attention must be paid to the dangers of electric shock and static electricity when working with electrical equipment. All guidelines of this and of the computer manufacture must therefore be allowed at all times to ensure the safe use of the equipment.

EU Countries Not Intended for Use

The ETSI version of this device is intended for home and office use in Austria Belgium, Denmark, Finland, France (with Frequency channel restrictions). Germany, Greece, Ireland, Italy, Luxembourg .The Netherlands, Portugal, Spain, Sweden and United Kingdom.

The ETSI version of this device is also authorized for use in EFTA member states Iceland, Liechtenstein, Norway and Switzerland.

Potential restrictive use

France: Only channels 10,11,12 and 13

WEEE regulation



To avoid the potential effects on the environment and human health as a result of the presence of hazardous substances in electrical and electronic equipment, end users of electrical and electronic equipment should understand the meaning of the crossed-out wheeled bin symbol. Do not dispose of WEEE as unsorted municipal waste and have to collect such WEEE separately.

Revision

User's Manual for PLANET Wireless Access Point with 5-Port Switch

Model: WAP-4035

Rev: 1.0 (August, 2005)

Part No. EM-WAP4035

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Chapter 1 Introduction

Thank you for purchasing WAP-4035. The WAP-4035 supports both IEEE 802.11b and IEEE 802.11g standards. You can use it to connect an existing WLAN, or to build up a new wireless LAN. Except for essential AP mode, WAP-4035 also provides AP Client/ Bridge/ Repeater and WDS (Wireless Distributed System) modes to accommodate all kinds of network topology. High data rate (up to 54Mbps) support allows faster communication between LAN and WLAN. Built-in 5-port switch with auto MDI/MDI-X support provides the most convenient for users to build up a wireless LAN with the existing wired PCs easily.

The WAP-4035 supports WPA, WPA2, WEP and MAC address filter function to consolidate the wireless network security. You can effectively prevent unauthorized wireless stations from accessing your wireless network. With a built-in web server, the WAP-4035 allows users to configuring from web browser. Without utility install, user doesn't need to find the utility for this product in lots of program list. It can be configured in different OS that provides web browser.

1.1 Package Contents

Make sure that you have the following items:

- 1 x WAP-4035
- 1 x Power Adapter
- 1 x User's Manual CD
- 1 x Quick Installation Guide
- 1 x External Antenna

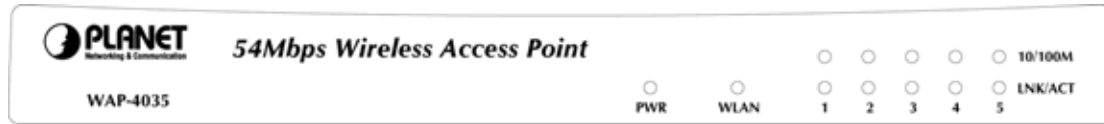
Note:	If any of the above items are missing, contact your supplier as soon as possible.
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1.2 Features

- Complies with the IEEE 802.11b/g (DSSS) 2.4GHz specification
- Data rate supports up to 54Mbps
- Built-in 5-port switch, support Auto-MDI/MDI-X function
- Auto rate fallback in case of obstacles or interferences
- Supports WEP/WPA-PSK/WPA/WPA2 encryption
- Supports AP/ AP Client/ Bridge/ Repeater and WDS (Wireless Distributed System) mode
- Built-in RADIUS Server
- Seamlessly integrate wireless and wired Ethernet LAN networks
- Provides MAC Filter function
- Support DHCP server

- Web-based configuration

1.3 LED Indicators



LED	Color	Function
PWR	Green	Off: Power is not connected On: Device is ready Blink: During boot up procedure
WLAN	Orange	Off: Wireless LAN is no function Blink: Transmitting or receiving data through the Wireless LAN
10/100M	Green	Off: LAN is connected to 10Mbps device On: LAN is connected to 100Mbps device
LNK/ACT	Green	Off: LAN is not connected On: LAN is connected Blink: Transmitting or receiving data through the LAN

1.4 Wireless Performance

The following information will help you utilizing the wireless performance and operating coverage of WAP-4035.

1. Site selection

To avoid interferences, please locate WAP-4035 and wireless client away from transformers, microwave ovens, heavy-duty motors, fluorescent lights and other industrial equipments. Keep the number of walls or ceilings between AP and clients as few as possible. Otherwise the signal strength may be seriously reduced. Place WAP-4035 in an open space or add additional WAP-4035 as needed to improve the coverage.

2. Environmental factors

The wireless network is easily affected by many environment factors. Every environment is unique with different obstacles, construction materials, weather, etc. It is hard to determine the exact operation range of WAP-4035 in a specific location without testing.

3. Antenna adjustment

The bundle antenna of WAP-4035 is adjustable. Firstly install the antenna pointing straight up, then smoothly adjust it if the radio signal strength is poor. But the signal reception is definitely weak in some certain areas, such as location right down the antenna.

Moreover, the original antenna of WAP-4035 can be replaced with other external antennas to extend

the coverage. Please check the specification of the antenna you want to use, and make sure it can be used on WAP-4035.

4. WLAN Type

If WAP-4035 is installed in an 802.11b and 802.11g mixed WLAN, its performance will be reduced significantly. Because every 802.11g OFDM packet needs to be preceded by an RTS-CTS or CTS packet exchange that can be recognized by legacy 802.11b devices. This additional overhead lowers the speed. If there are no 802.11b devices connected, or if connections to all 802.11b devices are denied so that WAP-4035 can operate in 11g-only mode, then its data rate should actually 54Mbps.

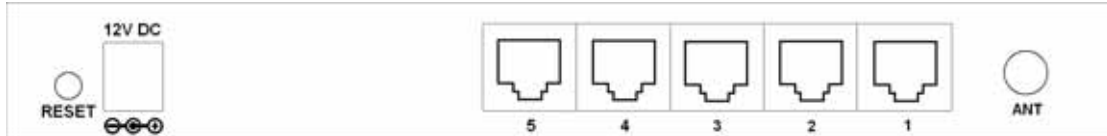
1.5 Reset Button

WAP-4035 provides a Reset button on the rear panel for user to restart or set WAP-4035 configuration to factory default.

Time	Active
Press less than 5 Sec.	WAP-4035 will re-boot itself, keeping your original configurations
Press more than 5 Sec.	WAP-4035 will reset itself to the factory default settings

Chapter 2 Hardware Installation

Before you proceed with the installation, it is necessary that you have enough information about the WAP-4035.



- 1. Locate an optimum location for the WAP-4035.** The best place for your WAP-4035 is usually at the center of your wireless network, with line of sight to all of your mobile stations.
- 2. Assemble the antenna to WAP-4035.** Try to place them to a position that can best cover your wireless network. The antenna's position will enhance the receiving sensitivity.
- 3. Connect RJ-45 cable to WAP-4035.** Connect this WAP-4035 to your LAN switch/hub or a single PC.
- 4. Plug in power adapter and connect to power source.** After power on, WAP-4035 will start to work.

Note:	ONLY use the power adapter supplied with the WAP-4035. Otherwise, the product may be damaged. If you want to reset your WAP-4035 to default settings, press the Reset button 5 second. Then release the button and wait for 10 seconds for rebooting.
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Chapter 3 Web Configuration

Web configuration provides a user-friendly graphical user interface (web pages) to manage your WAP-4035. An AP with an assigned IP address (e.g. <http://192.168.0.1>) will allow you to monitor and configure (via web browser e.g., MS Internet Explorer or Netscape).

1. Open your web browser.
2. Enter WAP-4035 IP address (default IP address is <http://192.168.0.1>) into the address field. Please also make sure your PC's IP address is in the same IP range with WAP-4035.
3. A User Name and Password dialog box will appear. Please enter your User Name and Password here. Default User Name and Password are "admin". Click "OK" to access the management page.



3.1 Home

In this screen, you can check all the information of WAP-4035.

System

Uptime	0day:0h:0m:0s
Hardware Version	Rev. A
Runtime Code Version	1.12

Wireless Configuration

Mode	AP
ESSID	default
Channel Number	11
Security	Disable
Associated Clients	0
BSSID	00:30:4f:3c:c6:25

LAN Configuration

IP Address	192.168.0.1
Subnet Mask	255.255.255.0
Default Gateway	0.0.0.0
MAC Address	00:30:4f:3c:c6:25

3.2 Basic Setting

In this screen, you can configure WAP-4035 to work in different operating mode. Please refer to below sections to know the details configuration of each operating mode.

The screenshot shows the 'Basic Setting' page for a PLANET 54Mbps Access Point. The left sidebar contains a navigation menu with the following items: Home, Basic Setting (selected), Advanced Setting, Security, Radius Server, MAC Filtering, System Utility, Configuration Tool, Upgrade, and Reset. The main content area is titled 'Basic Setting' and includes a descriptive paragraph: 'This page allows you to define ESSID, and Channel for the wireless connection. These parameters are used for the wireless stations to connect to the Access Point.' Below this text are several configuration fields: 'Mode' (dropdown menu set to 'AP'), 'Band' (dropdown menu set to '2.4 GHz (B+G)'), 'ESSID' (text input field containing 'default'), 'Channel Number' (dropdown menu set to '11'), and 'Associated Clients' (button labeled 'Show Active Clients'). At the bottom right of the form are two buttons: 'Apply' and 'Cancel'.

3.2.1 AP Mode

This mode is set to WAP-4035 by default. It served as a transparent Media Access Control (MAC) bridge between wired and wireless network.

The screenshot shows the 'Wireless Setting' page for a PLANET 54Mbps Access Point. The left sidebar contains a navigation menu with the following items: Home, Basic Setting (selected), Advanced Setting, Security, Radius Server, MAC Filtering, System Utility, Configuration Tool, Upgrade, and Reset. The main content area is titled 'Wireless Setting' and includes a descriptive paragraph: 'This page allows you to define ESSID, and Channel for the wireless connection. These parameters are used for the wireless stations to connect to the Access Point.' Below this text are several configuration fields: 'Mode' (dropdown menu set to 'AP'), 'Band' (dropdown menu set to '2.4 GHz (B+G)'), 'ESSID' (text input field containing 'default'), 'Channel Number' (dropdown menu set to '11'), and 'Associated Clients' (button labeled 'Show Active Clients'). At the bottom right of the form are two buttons: 'Apply' and 'Cancel'.

Parameter	Description												
Mode	Shows the current operation mode.												
Band	<p>2.4GHz (B): It forces the WAP-4035 to operate in 802.11b only.</p> <p>2.4GHz (G): It forces the WAP-4035 to operate in 802.11g only.</p> <p>2.4GHz (B+G): It allows the WAP-4035 to operate in 802.11b and 802.11g simultaneously.</p>												
ESSID	The ESSID (up to 32 printable ASCII characters) is the unique name identified in a WLAN. The ID prevents the unintentional merging of two co-located WLANs. Please make sure that the ESSID of all stations in the same WLAN network are the same. The default value is “ default ”.												
Channel Number	<p>Select the appropriate channel from the list provided to correspond with your network settings. Channels differ from country to country.</p> <p>Channel 1-11 (North America)</p> <p>Channel 1-14 (Japan)</p> <p>Channel 1-13 (Europe)</p>												
Associated Clients	<p>You may press “Show Active Clients” button to check the connected client information. After the button pressed, you will see the dialog box as below.</p> <div style="border: 1px solid #ccc; padding: 10px; background-color: #f9f9f9;"> <p style="text-align: center;">Active Wireless Client Table</p> <p style="text-align: center; font-size: small;">This table shows the MAC address, transmission, reception packet counters for each associated wireless client.</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="background-color: #333; color: white;">MAC Address</th> <th style="background-color: #333; color: white;">Tx Packet</th> <th style="background-color: #333; color: white;">Rx Packet</th> <th style="background-color: #333; color: white;">Tx Rate (Mbps)</th> <th style="background-color: #333; color: white;">Power Saving</th> <th style="background-color: #333; color: white;">Expired Time (s)</th> </tr> </thead> <tbody> <tr> <td>None</td> <td>---</td> <td>---</td> <td>---</td> <td>---</td> <td>---</td> </tr> </tbody> </table> <p style="text-align: center; margin-top: 10px;"> <input type="button" value="Refresh"/> <input type="button" value="Close"/> </p> </div> <p>You may press “Refresh” to get the new client table or “Close” to close this dialog box.</p>	MAC Address	Tx Packet	Rx Packet	Tx Rate (Mbps)	Power Saving	Expired Time (s)	None	---	---	---	---	---
MAC Address	Tx Packet	Rx Packet	Tx Rate (Mbps)	Power Saving	Expired Time (s)								
None	---	---	---	---	---								

After configuration complete, please click “Apply” button to save the configuration. Then you will see a screen below to prompt you the settings are save successfully. If you press “Continue”, you can proceed to configure other settings. However, the new configurations are not take effect at this time. You must click “Apply”, and then the WAP-4035 will restart with new configuration. You may check the LED status to make sure WAP-4035 finishes the restart.



3.2.2 Station - Ad Hoc Mode

WAP-4035 serves as a wireless station (Ad-hoc) in this mode. Connected to a PC or a small LAN (no more than 5 PCs), this station along with other wireless stations can establish a small wireless network without Access Points.



Parameter	Description
Mode	Shows the current operation mode.

Band	<p>2.4GHz (B): It forces the WAP-4035 to operate in 802.11b only.</p> <p>2.4GHz (G): It forces the WAP-4035 to operate in 802.11g only.</p> <p>2.4GHz (B+G): It allows the WAP-4035 to operate in 802.11b and 802.11g simultaneously.</p>
ESSID	Please make sure the ESSID of the wireless network that you will connect and enter the correct value in this field. The default ESSID is “default” .
Channel Number	<p>Select the appropriate channel from the list provided to correspond with your network settings. Channels differ from country to country.</p> <p>Channel 1-11 (North America)</p> <p>Channel 1-14 (Japan)</p> <p>Channel 1-13 (Europe)</p>
WLAN MAC	<p>Keep default setting: WAP-4035 will use it's own MAC address to access the wireless LAN.</p> <p>Press “MAC Clone” button: It will use PC's MAC address to access the wireless LAN.</p>

After configuration complete, please click “Apply” button to save the configuration. Then you will see a screen to prompt you the settings are saved successfully. You may press “Continue” for configure other settings or “Apply” to restart WAP-4035 with new configuration.

3.2.3 Station - Infrastructure Mode

WAP-4035 serves as a wireless station (infrastructure) in this mode. Connected to a PC or a small LAN (no more than 5 PCs), it allows the PC or small LAN able to access the wireless network via Access Point.

- Home
- Basic Setting
- Advanced Setting
- Security
- Radius Server
- MAC Filtering
- System Utility
- Configuration Tool
- Upgrade
- Reset

Wireless Setting

This page allows you to define ESSID, and Channel for the wireless connection. These parameters are used for the wireless stations to connect to the Access Point

Mode :	Station Infrastructure
Band :	2.4 GHz (B+G)
ESSID :	default
WLAN MAC :	000000000000 <input type="button" value="Clone MAC"/>

Parameter	Description
Mode	Shows the current operation mode.
Band	<p>2.4GHz (B): It forces the WAP-4035 to operate in 802.11b only.</p> <p>2.4GHz (G): It forces the WAP-4035 to operate in 802.11g only.</p> <p>2.4GHz (B+G): It allows the WAP-4035 to operate in 802.11b and 802.11g simultaneously.</p>
ESSID	Please make sure the ESSID of the wireless network that you will connect and enter the correct value in this field. The default SSID is "default" .
WLAN MAC	<p>Keep default setting: WAP-4035 will use it's own MAC address to access the wireless LAN.</p> <p>Press "MAC Clone" button: It will use PC's MAC address to access the wireless LAN.</p>

After configuration complete, please click "Apply" button to save the configuration. Then you will see a screen to prompt you the settings are save successfully. You may press "Continue" for configure other settings or "Apply" to restart WAP-4035 with new configuration.

3.2.4 AP Bridge - Point to Point Mode

This function allows WAP-4035 to bridge 2 wired Ethernet networks wirelessly.



Parameter	Description
Mode	Shows the current operation mode.
Band	<p>2.4GHz (B): It allows to select the transmit rate up to 11Mbps.</p> <p>2.4GHz (G): It allows to select the transmit rate up to 54Mbps.</p> <p>2.4GHz (B+G): It allows selecting the 802.11b and 802.11g data rates.</p>
Channel Number	<p>Select the appropriate channel from the list provided to correspond with your network settings. Channels differ from country to country.</p> <p>Channel 1-11 (North America)</p> <p>Channel 1-14 (Japan)</p> <p>Channel 1-13 (Europe)</p>
MAC Address 1	<p>Keep default setting: WAP-4035 will use it's own MAC address to access the wireless LAN.</p> <p>Press "MAC Clone" button: It will use PC's MAC address to access the wireless LAN.</p>
Set Security	<p>IF you want to enable security to protect your wireless connection. Please press "Set Security" button and refer to section "3.2.8 Security setting for bridge mode" to configure the detail settings.</p>

After configuration complete, please click "Apply" button to save the configuration. Then you will see a screen to prompt you the settings are save successfully. You may press "Continue" for configure other settings or "Apply" to restart WAP-4035 with new configuration.

3.2.5 AP Bridge - Point to Multipoint Mode

This function allows WAP-4035 to bridge more than 2 wired Ethernet networks together by wireless connection.

The screenshot shows the 'Wireless Setting' page for a Planet 54Mbps Access Point. The interface includes a navigation menu on the left with options like Home, Basic Setting, Advanced Setting, Radius Server, MAC Filtering, System Utility, Configuration Tool, Upgrade, and Reset. The main content area is titled 'Wireless Setting' and contains a descriptive paragraph: 'This page allows you to define ESSID, and Channel for the wireless connection. These parameters are used for the wireless stations to connect to the Access Point.' Below this are several configuration fields: 'Mode' (set to 'AP Bridge-Point to Multi-Point'), 'Band' (set to '2.4 GHz (B+G)'), 'Channel Number' (set to '9'), and six 'MAC Address' fields (all empty). A 'Set Security' button is located below the MAC address fields. At the bottom right, there are 'Apply' and 'Cancel' buttons.

Parameter	Description
Mode	Shows the current operation mode.
Band	<p>2.4GHz (B): It allows to select the transmit rate up to 11Mbps.</p> <p>2.4GHz (G): It allows to select the transmit rate up to 54Mbps.</p> <p>2.4GHz (B+G): It allows selecting the 802.11b and 802.11g data rates.</p>
Channel Number	<p>Select the appropriate channel from the list provided to correspond with your network settings. Channels differ from country to country.</p> <p>Channel 1-11 (North America)</p> <p>Channel 1-14 (Japan)</p> <p>Channel 1-13 (Europe)</p>
AP MAC Address	If you want to bridge multiple WAP-4035 in this mode, you have to enter the MAC addresses of other WAP-4035 into the fields.
Set Security	IF you want to enable security to protect your wireless connection. Please press "Set Security" button and refer to section "3.2.8 Security setting for bridge mode" to configure the detail settings.

After configuration complete, please click "Apply" button to save the configuration. Then you will see a screen to prompt you the settings are save successfully. You may press "Continue" for configure other settings or "Apply" to restart WAP-4035 with new configuration.

3.2.6 AP Bridge - WDS Mode

If you want WAP-4035 to bridge to other WAP-4035 and provide access for other wireless clients at the same time, you have to set the WAP-4035 to “AP Bridge - WDS”. Simply speaking, “AP Bridge - WDS” function is the combination of “AP mode” and “AP Bridge-Point to Multi-Point mode”.

Parameter	Description
Mode	Shows the current operation mode.
Band	<p>2.4GHz (B): It allows to select the transmit rate up to 11Mbps.</p> <p>2.4GHz (G): It allows to select the transmit rate up to 54Mbps.</p> <p>2.4GHz (B+G): It allows selecting the 802.11b and 802.11g data rates.</p>
ESSID	The ESSID (up to 32 printable ASCII characters) is the unique name identified in a WLAN. The ID prevents the unintentional merging of two co-located WLANs. Please make sure that the ESSID of all stations in the same WLAN network are the same. The default value is “ default ”.
Channel Number	Select the appropriate channel from the list provided to correspond with your network settings. Channels differ from country to country. Channel 1-11 (North America) Channel 1-14 (Japan)

	Channel 1-13 (Europe)												
Associated Clients	<p>You may press “Show Active Clients” button to check the connected client information. After the button pressed, you will see the dialog box as below:</p> <div style="border: 1px solid #ccc; padding: 10px; background-color: #f9f9f9;"> <p style="text-align: center;">Active Wireless Client Table</p> <p>This table shows the MAC address, transmission, reception packet counters for each associated wireless client.</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr style="background-color: #333; color: white;"> <th>MAC Address</th> <th>Tx Packet</th> <th>Rx Packet</th> <th>Tx Rate (Mbps)</th> <th>Power Saving</th> <th>Expired Time (s)</th> </tr> </thead> <tbody> <tr> <td>None</td> <td>---</td> <td>---</td> <td>---</td> <td>---</td> <td>---</td> </tr> </tbody> </table> <p style="text-align: center;"> <input type="button" value="Refresh"/> <input type="button" value="Close"/> </p> </div> <p>You may press “Refresh” to get the new client table or “Close” to close this dialog box.</p>	MAC Address	Tx Packet	Rx Packet	Tx Rate (Mbps)	Power Saving	Expired Time (s)	None	---	---	---	---	---
MAC Address	Tx Packet	Rx Packet	Tx Rate (Mbps)	Power Saving	Expired Time (s)								
None	---	---	---	---	---								
MAC Address 1 ~6	If you want to bridge multiple WAP-4035 in this mode, you have to enter the MAC addresses of other WAP-4035 into the fields.												
Set Security	IF you want to enable security to protect your wireless connection. Please press “Set Security” button and refer to section “3.2.8 Security setting for bridge mode” to configure the detail settings.												

After configuration complete, please click “Apply” button to save the configuration. Then you will see a screen to prompt you the settings are save successfully. You may press “Continue” for configure other settings or “Apply” to restart WAP-4035 with new configuration.

3.2.7 Universal Repeater Mode

This mode allows you to extend the range of your wireless network. When the AP is configured to repeater mode, it will repeat the wireless signal from wireless client to access point. Thus, the wireless connection distance can be extended. However, the performance will become half of normal performance when client connect to a Repeater. Besides, when the WAP-4035 is configured to repeater mode, you can only manage the AP through LAN interface and the PC(s) connected to its LAN port cannot communicate with other wireless clients.

- Home
- Basic Setting
- Advanced Setting
- Security
- Radius Server
- MAC Filtering
- System Utility
- Configuration Tool
- Upgrade
- Reset

Wireless Setting

This page allows you to define ESSID, and Channel for the wireless connection. These parameters are used for the wireless stations to connect to the Access Point.

Mode:

Band:

ESSID:

Channel Number:

Associated Clients:

WLAN MAC:

Root AP SSID:

Parameter	Description
Mode	Shows the current operation mode.
Band	<p>2.4GHz (B): It allows to select the transmit rate up to 11Mbps.</p> <p>2.4GHz (G): It allows to select the transmit rate up to 54Mbps.</p> <p>2.4GHz (B+G): It allows selecting the 802.11b and 802.11g data rates.</p>
ESSID	The ESSID (up to 32 printable ASCII characters) is the unique name identified in a WLAN. The ID prevents the unintentional merging of two co-located WLANs. Please make sure that the ESSID of all stations in the same WLAN network are the same. The default value is " default ".
Channel Number	<p>Select the appropriate channel from the list provided to correspond with your network settings. Channels differ from country to country.</p> <p>Channel 1-11 (North America)</p> <p>Channel 1-14 (Japan)</p> <p>Channel 1-13 (Europe)</p>
Associated Clients	You may press "Show Active Clients" button to check the connected client information. After the button pressed, you will see the dialog box as below.

	<p>Active Wireless Client Table</p> <p>This table shows the MAC address, transmission, reception packet counters for each associated wireless client.</p> <table border="1" data-bbox="531 369 1214 452"> <thead> <tr> <th>MAC Address</th> <th>Tx Packet</th> <th>Rx Packet</th> <th>Tx Rate (Mbps)</th> <th>Power Saving</th> <th>Expired Time (s)</th> </tr> </thead> <tbody> <tr> <td>None</td> <td>---</td> <td>---</td> <td>---</td> <td>---</td> <td>---</td> </tr> </tbody> </table> <p data-bbox="531 481 726 515"> <input type="button" value="Refresh"/> <input type="button" value="Close"/> </p> <p>You may press "Refresh" to get the new client table or "Close" to close this dialog box.</p>	MAC Address	Tx Packet	Rx Packet	Tx Rate (Mbps)	Power Saving	Expired Time (s)	None	---	---	---	---	---
MAC Address	Tx Packet	Rx Packet	Tx Rate (Mbps)	Power Saving	Expired Time (s)								
None	---	---	---	---	---								
WLAN MAC	<p>Keep default setting: WAP-4035 will use it's own MAC address to access the wireless LAN.</p> <p>Press "MAC Clone" button: It will use PC's MAC address to access the wireless LAN.</p>												
Root AP SSID	<p>In "Universal Repeater mode", this device can act as a station to connect to a Root AP. You should enter the SSID of the Root AP here.</p>												

After configuration complete, please click "Apply" button to save the configuration. Then you will see a screen to prompt you the settings are save successfully. You may press "Continue" for configure other settings or "Apply" to restart WAP-4035 with new configuration.

3.2.8 Security setting of bridge mode

In "AP Bridge-Point to Point mode", "AP Bridge-Point to Multi-Point mode" and "AP Bridge-WDS mode", you can click "Set Security" to add encryption for the communication between the bridged access points. This can protect your wireless network.

WDS Security Settings

This page allows you setup the wireless security for WDS. When enabled, you must make sure each WDS device has adopted the same encryption algorithm and Key.

Encryption :	None
WEP Key Format :	ASCII (5 characters)
WEP Key :	*****
Pre-Shared Key Format :	Passphrase
Pre-Shared Key :	

Parameter	Description
Encryption	You can select "None", "WEP 64bits", "WEP 128bits", "WPA (TKIP)" or "WPA2 (AES)" of this option . It is set to "None" by default.
Key Format	This is only used when you select "WEP 64bits" or "WEP 128bits" encryption method. You may select to select ASCII Characters (alphanumeric format) or Hexadecimal Digits (in the "A-F", "a-f" and "0-9" range) to be the WEP Key.
WEP Key	This is only used when you select "WEP 64bits" or "WEP 128bits" encryption method. The WEP key is used to encrypt data transmitted between the bridged access points. Fill the text box by following the rules below. 64-bit WEP: input 10-digit Hex values (in the "A-F", "a-f" and "0-9" range) or 5-digit ASCII character as the encryption keys. 128-bit WEP: input 26-digit Hex values (in the "A-F", "a-f" and "0-9" range) or 10-digit ASCII characters as the encryption keys.
Pre-shared Key Format	This is only used when "WPA" or "WPA2" is selected. You may use Passphrase (alphanumeric format) or Hexadecimal Digits (in the "A-F", "a-f" and "0-9" range) to be the Pre-shared Key.
Pre-shared Key	This is only used when "WPA" or "WPA2" is selected. The Pre-shared key is used to authenticate and encrypt data transmitted between the bridged access points. Fill the text box by following the rules below. Hex (64 characters): input 64-digit Hex values (in the "A-F", "a-f" and "0-9" range) Passphrase: at least 8 characters.

After configuration complete, please click "Apply" button to save the configuration. Then you will see a screen to prompt you the settings are save successfully. You may press "Continue" for configure other settings or "Apply" to restart WAP-4035 with new configuration.

3.3 Advanced Settings

You should not change these advanced parameters unless you know what effect the changes will have on this access point.



Parameter	Description	
Authentication Type	Open System	Normally, you can leave this at "Auto", so that Wireless Stations can use either method ("Open System" or "Shared Key").
	Shared Key:	If you wish to use a particular method, select the appropriate value - "Open System" or "Shared Key". All Wireless stations must then be set to use the same method.
	Auto	
Fragment Threshold	"Fragment Threshold" specifies the maximum size of packet during the fragmentation of data to be transmitted. If you set this value too low, it will result in bad performance.	
RTS Threshold	When the packet size is smaller than the RTS threshold, the access point will not use the RTS/CTS mechanism to send this packet.	
Beacon Interval	The interval of time that this access point broadcast a beacon. Beacon is used to synchronize the wireless network.	
Data Rate	The "Data Rate" is the rate this access point uses to transmit data packets.	

	The access point will use the highest possible selected transmission rate to transmit the data packets.
Preamble Type	Preamble type defines the length of CRC block in the frames during the wireless communication. "Short Preamble" is suitable for high traffic wireless network. "Long Preamble" can provide more reliable communication.
Broadcast ESSID	If you enable "Broadcast ESSID", every wireless station located within the coverage of this access point can discover this access point easily. If you are building a public wireless network, enabling this feature is recommended. Disabling "Broadcast ESSID" can provide better security.
IAPP	If you enable "IAPP", the access point will automatically broadcast information of associated wireless stations to its neighbors. This will help wireless station roaming smoothly between access points. Disabling "IAPP" can provide better security.
802.11g Protection	This is also called CTS Protection. It is recommended to enable the protection mechanism. This mechanism can decrease the rate of data collision between 802.11b and 802.11g wireless stations. When the protection mode is enabled, the throughput of the AP will be a little lower due to many of frame traffic should be transmitted.

After configuration complete, please click "Apply" button to save the configuration. Then you will see a screen to prompt you the settings are save successfully. You may press "Continue" for configure other settings or "Apply" to restart WAP-4035 with new configuration.

3.4 Security

This Access Point provides complete wireless LAN security functions, includes WEP, 802.1x, 802.1x with WEP, WPA-PSK and WPA RADIUS. With these security functions, you can prevent your wireless LAN from illegal access. Please make sure your wireless stations use the same security mechanism. In default, the security option is "Disable".

Note: This access point can act as a station and an AP at the same time in "Universal Repeater" mode. The security settings only apply to AP operation in "Universal Repeater" mode. The station operation has no security.



3.4.1 WEP

When you select 64-bit or 128-bit WEP key, you have to enter WEP keys to encrypt data. You can enter four WEP keys and select one of them as default key. Then the access point will only allow the clients configured with the same encryption keys for association. You can use WEP encryption in “AP mode”, “Station-Ad Hoc mode”, “Station-Infrastructure mode”, “AP Bridge-WDS mode” and “Universal Repeater mode”.

If you would like to enable 802.1x Authentication also, please check the “Enable 802.1x Authentication” and refer to section 3.4.2 for the detail settings.



Parameter	Description
Encryption	Select "WEP" in this option.
Key Length	You can select the 64 or 128-bit key to encrypt transmitted data. Larger WEP key length will provide higher level of security, but the throughput will be lower.
Key Format	You may select to select ASCII Characters (alphanumeric format) or Hexadecimal Digits (in the "A-F", "a-f" and "0-9" range) to be the WEP Key.
Default Tx Key	Select one of the four keys to encrypt your data.
Encryption Key 1 - Key 4	The WEP keys are used to encrypt data transmitted in the wireless network. Fill the text box by following the rules below. 64-bit WEP: input 10-digit Hex values (in the "A-F", "a-f" and "0-9" range) or 5-digit ASCII character as the encryption keys. 128-bit WEP: input 26-digit Hex values (in the "A-F", "a-f" and "0-9" range) or 10-digit ASCII characters as the encryption keys.
Enable 802.1x Authentication	Check this box when you want to enable 802.1x authentication with WEP encryption. You may refer to section 3.4.2 for detail settings.

After configuration complete, please click "Apply" button to save the configuration. Then you will see a screen to prompt you the settings are save successfully. You may press "Continue" for configure other settings or "Apply" to restart WAP-4035 with new configuration.

3.4.2 802.1x

IEEE 802.1x is an authentication protocol. Every user must use a valid account to login to this Access Point before accessing the wireless LAN. The authentication is processed by a RADIUS server. This mode only authenticates user by IEEE 802.1x, but it does not encryption the data during communication. It is suggested to enable 802.1x and WEP at the same time.

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Security

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

Enable 802.1x Authentication

Use internal MD5/PEAP RADIUS Server

RADIUS Server IP address

RADIUS Server Port

RADIUS Server Password

Parameter	Description
Encryption	If you want to use 802.1x only, keep this setting in "Disable".
Enable 802.1x Authentication	Check this option to enable 802.1x function.
Use Internal MD5/PEAP RADIUS Server	WAP-4035 has built in a RADIUS server. You can check this option to make the 802.1x authentication work with WAP-4035 internal RADIUS server. If you would like to work with an external RADIUS Server, just leave this box blank and fill the fields below.
RADIUS Server IP Address	Enter RADIUS Server IP address.
RADIUS Server Port	Leave the default port setting or assign a new port number for this option.
RADIUS Server Password	Enter the password that is configured in RADIUS Server.

After configuration complete, please click "Apply" button to save the configuration. Then you will see a screen to prompt you the settings are save successfully. You may press "Continue" for configure other settings or "Apply" to restart WAP-4035 with new configuration.

3.4.3 WPA pre-shared key

WiFi Protected Access (WPA) is an advanced security standard. You can use a pre-shared key to authenticate wireless stations and encrypt data during communication. It uses TKIP or CCMP (AES) to change the encryption key frequently. So the encryption key is not easy to be broken by hackers. This can improve security very much.



Parameter	Description
Encryption	Select "WPA pre-shared key" in this option.
WPA Unicast Cipher Suite	WPA (TKIP) TKIP can change the encryption key frequently to enhance the wireless LAN security.
	WPA2 (AES) This use CCMP protocol to change encryption key frequently. AES can provide high-level encryption to enhance the wireless LAN security.
	WPA2 Mixed This will use TKIP or AES based on the other communication peer automatically.
Pre-shared Key Format	You may select to select Passphrase (alphanumeric format) or Hexadecimal Digits (in the "A-F", "a-f" and "0-9" range) to be the Pre-shared Key.
Pre-shared Key	The Pre-shared key is used to authenticate and encrypt data transmitted in the wireless network. Fill the text box by following the rules below. Hex: input 64-digit Hex values (in the "A-F", "a-f" and "0-9" range) Passphrase: at least 8 characters.

After configuration complete, please click "Apply" button to save the configuration. Then you will see a screen to prompt you the settings are save successfully. You may press "Continue" for configure other settings or "Apply" to restart WAP-4035 with new configuration.

3.4.4 WPA RADIUS

You can use a RADIUS server to authenticate wireless stations and provide the session key to encrypt data during communication. It uses TKIP or CCMP (AES) to change the encryption key frequently. WAP-4035 also provides an internal RADIUS server for user's convenience.

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Security

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: WPA RADIUS

WPA Unicast Cipher Suite:
 WPA(TKIP)
 WPA2(AES)
 WPA2 Mixed

Use Internal MD5/PEAP RADIUS Server

RADIUS Server IP address:

RADIUS Server Port: 1812

RADIUS Server Password:

Apply
Cancel

Parameter	Description	
Encryption	Select "WPA RADIUS" in this option.	
WPA Unicast Cipher Suite	WPA (TKIP)	TKIP can change the encryption key frequently to enhance the wireless LAN security.
	WPA2 (AES)	This use CCMP protocol to change encryption key frequently. AES can provide high-level encryption to enhance the wireless LAN security.
	WPA2 Mixed	This will use TKIP or AES based on the other communication peer automatically.
Use Internal MD5/PEAP RADIUS Server	WAP-4035 has built in a RADIUS server. You can check this option to make the 802.1x authentication work with WAP-4035 internal RADIUS server. If you would like to work with an external RADIUS Server, just leave this box blank and fill the fields below.	
RADIUS Server IP Address	Enter RADIUS Server IP address.	
RADIUS Server Port	Leave the default port setting or assign a new port number for this option.	
RADIUS Server Password	Enter the password that is configured in RADIUS Server.	

After configuration complete, please click "Apply" button to save the configuration. Then you will see a screen to prompt you the settings are save successfully. You may press "Continue" for configure other settings or "Apply" to restart WAP-4035 with new configuration.

3.5 RADIUS Server

WAP-4035 has provided an internal RADIUS server to authenticate wireless station users. You have to add user accounts to the RADIUS server manually. The wireless station user will use one of these

accounts to login to the Access Point before access the wireless LAN. You also have to add secret key to the RADIUS server. RADIUS server client has to use one of these secret keys to login the RADIUS server before asking for the authentication.

Parameter	Description
Enable Radius Server	Select to enable the RADIUS server.
User Profile	
User Profile table	This table records the accounts of users who are allowed to access your wireless network. An account includes the "User name" and "Password". A wireless LAN user has to enter correct "Username" and "Password" before he/she accesses the wireless LAN.
Add an user account	Fill in the "Username", "Password" and "Re-Type Password" and then click "Add". This new account will be added into the account table below. Click "Reset" to clear the fields.
Remove user account from the table	If you want to remove an account from the table, select the account in the table and then click "Delete Selected". If you want remove all user accounts from the table, just click "Delete All" button.
Reset	Click "Reset" will clear your current selections.
Authentication Client	
Authentication Client table	This table records the clients of the RADIUS server that need to

	authenticate wireless LAN users. Authentication client information includes the "Client IP" and "Secret Key". An authentication client has to use the "Secret Key" to login to the RADIUS server before it starts to authenticate wireless LAN users. An authentication client can be an access point.
Add an authentication client	Fill in the "Client IP", "Secret Key" and "Re-Type Secret Key" of the new authentication client and then click "Add". This new authentication client will be added into the table below. Click "Reset" to clear the fields.
Remove authentication client from the table	If you want to remove an authentication client from the table, select the authentication client in the table and then click "Delete Selected". If you want remove all user authentication clients from the table, just click "Delete All" button.
Reset	Click "Reset" will clear your current selections.

3.6 MAC Filtering

Enabling the MAC Filtering feature would allow only authorized clients associating to the Access Point.



Parameter	Description
MAC Address Filtering Table	This table records the MAC addresses of wireless stations you allow to access your network. The "Comment" field is the description of the wireless station and is helpful for you to recognize the wireless station.

Enable Wireless Access Control	Enable or disable the MAC Address Filtering function.
Add MAC address into the table	In the bottom "New" area, fill in the "MAC Address" and "Comment" of the wireless station, then click "Add". This wireless station will be added into the "MAC Address Filtering Table" above.
Remove MAC address from the table	If you want to remove a MAC address from the "MAC Address Filtering Table", select the MAC address in the table and then click "Delete Selected". If you want to remove all MAC addresses from the table, just click "Delete All" button.
Reset	Click "Reset" will clear your current selections.

After configuration complete, please click "Apply" button to save the configuration. Then you will see a screen to prompt you the settings are save successfully. You may press "Continue" for configure other settings or "Apply" to restart WAP-4035 with new configuration.

3.7 System Utility

In this page, you can define the Access Point's IP Address, Login Password and enable the DHCP Server feature.

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System Utility

Enter the IP Address of the Access Point. If you want to use DHCP server service, you should enter a unique IP for the Access Point.

• Password Settings

Current Password	<input type="text"/>
New Password	<input type="text"/>
Re-Enter Password	<input type="text"/>

• Management IP

IP Address	<input type="text" value="192.168.0.1"/>
Subnet Mask	<input type="text" value="255.255.255.0"/>
Gateway Address	<input type="text" value="0.0.0.0"/>
DHCP Server	<input type="text" value="Disabled"/>

• DHCP Server

Default Gateway IP	<input type="text" value="0.0.0.0"/>
Domain Name Server IP	<input type="text" value="0.0.0.0"/>
Start IP	<input type="text" value="192.168.2.100"/>
End IP	<input type="text" value="192.168.2.200"/>
Domain Name	<input type="text"/>
Lease Time	<input type="text" value="Forever"/>

Parameter	Description
Password Settings	
Current Password	Enter the current password (up to 15-digit alphanumeric string) of the Access Point. The default password for WAP-4035 is admin . Note that the password is case-sensitive.
New Password	Enter the password (up to 15-digit alphanumeric string) you want to login to the Access Point. Note that the password is case-sensitive.
Re-Enter Password	Reconfirm the password (up to 15-digit alphanumeric string) you want to login to the Access Point. Note that the password is case-sensitive.
Management IP	
IP Address	Designate the Access Point's IP Address. This IP Address should be unique in your network. The default IP Address is 192.168.0.1 .
Subnet Mask	Specify a Subnet Mask for your LAN segment. The default Subnet Mask of the Access Point is 255.255.255.0 .
Gateway Address	The IP address of the default gateway of the subnet that this access point

	resides in. It allows this access point be accessed by PC from deferent subnet to do configuration.
DHCP Server	Enable or disable the DHCP Server.
DHCP Server	
Default Gateway IP	Specify the gateway IP in your network. This IP address should be different from the Management IP.
Domain Name Server IP	This is the ISP's DNS server IP address that they gave you; or you can specify your own preferred DNS server IP address.
Start IP/End IP	You can designate a particular IP address range for your DHCP server to issue IP addresses to your LAN Clients. By default the IP range is from: Start IP 192.168.0.100 to End IP 192.168.0.200 .
Domain Name	You can specify the Domain Name for your Access Point.
Lease Time	The DHCP Server when enabled will temporarily give your LAN client an IP address. In the Lease Time setting you can specify the time period that the DHCP Server lends an IP address to your LAN clients. The DHCP Server will change your LAN client's IP address when this time threshold period is reached.

After configuration complete, please click "Apply" button to save the configuration. Then you will see a screen to prompt you the settings are save successfully. You may press "Continue" for configure other settings or "Apply" to restart WAP-4035 with new configuration.

3.8 Configuration Utility

The Configuration Tools screen allows you to save (**Backup**) the WAP-4035 current settings. Saving settings provides an added protection and convenience for system backup. When you save the configuration setting (Backup), you can re-load the saved configuration into the WAP-4035 through the **Restore** button. If extreme problems occur you can use the **Restore to Factory Default** button. This will set all configurations to original default settings (e.g. when you first purchased the Access Point).



3.9 Upgrade

This page allows you to upgrade WAP-4035 with latest firmware.



Parameter	Description
Firmware Upgrade	To upgrade the firmware of WAP-4035, you need to download the firmware file to your local hard disk, and enter that file name and path in the appropriate field on this page. You can also use the “ Browse... ” button to find out the firmware file on your PC. Press Apply button to start upgrade process. When the upgrade

process is complete, we suggest you to power off/on WAP-4035 to make the new firmware effect.

3.10 Reset

You can reset the WAP-4035 system if necessary. The reset function essentially reboots your WAP-4035 system.



Parameter	Description
Reset	In the event that the system stops responding correctly or in some way stops functioning, you can perform a reset. Your settings will not be changed by reset procedure. To perform the reset, click on the Apply button. You will be asked to confirm your decision. Once the reset process is complete you may start using the Access Point again.

Appendix A Specification

Standard	IEEE 802.11g / 802.11b
Frequency Band	2.400~2.4835GHz
Transfer Rate	802.11g: 54/48/36/24/18/12/9/6Mbps 802.11b: 11/5.5/2/1Mbps
Modulation	OFDM, CCK, DQPSK and DBPSK
Sensitivity	<p>11g @ PER < 10%</p> <p>54Mbps: -71.46 dBm 48Mbps: -73.1 dBm 36Mbps: -75 dBm 24Mbps: -77 dBm 18Mbps: -79.1 dBm 12Mbps: -81.1 dBm 9Mbps: -83.5 dBm 6Mbps: -85.52 dBm</p> <p>11b @ PER < 8%</p> <p>11Mbps: -82 dBm 5.5Mbps: -85.7dBm 2Mbps: -87 dBm 1Mbps: -91.5 dBm</p>
Radio Technology	Direct Sequence Spread Spectrum (DSSS)
Antenna	Detachable dipole antenna
Transmit Power	18dBm (max.)
LAN Interface	5-port RJ-45 UTP, Auto-MDI/MDI-X
Cabling	Category 5/5e or above, 4-pair
LED Indicators	PWR, WLAN, 5 x LNK/ACT, 5 x ACT
Power	12V DC, 1A
Temperature	0 ~ 55°C (Operating)
Humidity	10 ~ 90%, non-condensing (Operating)
Dimension	190 x 98 x 35 (mm)
Weight	300g
Emission	FCC Class B, CE-mark

Appendix B Frequently Ask Question

This chapter provides answer to problems usually encountered during the *installation* and operation of the *Wireless Network Access Point*. Read the description below to solve your problems.

Q. Can I run an application from a remote computer over the wireless network?

A. This will depend on whether or not the application is designed to be used over a network. Consult the application's user guide to determine if it supports operation over a network.

Q. Can I play games with other members of the cordless network?

A. Yes, as long as the game supports multiple plays over a LAN (local area network). Refer to the game's user guide for more information.

Q. What is the IEEE 802.11g standard?

A. The IEEE 802.11g Wireless LAN standards subcommittee, which is formulating a standard for the industry. The objective is to enable wireless LAN hardware from different manufactures to communicate.

Q. What IEEE 802.11 features are supported?

A. The product supports the following IEEE 802.11 functions:

- CSMA/CA plus Acknowledge protocol
- Multi-Channel Roaming
- Automatic Rate Selection
- RTS/CTS feature
- Fragmentation
- Power Management

Q. What is Infrastructure?

A. An integrated wireless and wired LAN is called an Infrastructure configuration. Infrastructure is applicable to enterprise scale for wireless access to central database, or wireless application for mobile workers.

Q. What is Roaming?

A. Roaming is the ability of a portable computer user to communicate continuously while moving freely throughout an area greater than that covered by a single Wireless Network Access Point. Before using the roaming function, the workstation must make sure that it is the same channel number with the Wireless Network Access Point of dedicated coverage area.

Q. When WAP-4035 works with WDS mode, can wireless connect to it?

A. Yes, WDS mode is work as a AP and Bridge at the same time. So the wireless client can access to WDS mode WAP-4035 without problem. When wireless client connect to the remote site via WDS mode, the performance will be 50% then access to the connected WDS mode WAP-4035. Just like connect to AP via a repeater.

Q. How much wired client can connect to Station mode WAP-4035?

A. We will suggest you connect max. 5 wired clients to a WAP-4035. This more is not suit to connect a large wired network. If you have much more clients has to connected via wireless, please set WAP-4035 to Bridge mode. Bridge mode will be suit to connect wired LANs together.

Q. Is WAP-4035 Bridge mode compatible with other bridge mode device?

A. Yes. WAP-4035 Bridge mode is compatible with WAP-4035 and WRT-414. They are designed with the same chipset. So their bridge mode is compatible to each other.

Q. When I set WAP-4035 to Universal Repeater mode, the PCs that connect to WAP-4035 LAN port cannot access to wireless network. Why?

A. Since Repeater is used to extend the AP's coverage, the LAN port is for configuration purpose only. The computer connected to the Repeater's LAN port cannot access to wireless network.

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