

korenix

JetWave 2450
Quick Installation Guide v1.0

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About the Quick Installation Guide

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Conventions

Warning:

- ▶ This sign indicates a warning or caution that you have to abide.

Note:

- ▶ This sign indicates an important note that you must pay attention to.

Introduction

JetWave 2450 is a multi-mode last-mile broadband solution for customers like wireless ISP (WISPs) and system integrators. By the nature of complying with the IEEE802.11n standard and featuring high power output, JetWave 2450 supports higher bandwidth with longer range for outdoor applications. JetWave 2450 can be used as the access point or the customer premises equipment (CPE). While being as the access point, it can be deployed outdoors to provide outdoor wireless internet service. In the other way to be as the outdoor CPE, it can receive wireless signal over the last mile, helping WISPs deliver internet service to the new residential and the business customer where wired broadband internet service, such as cable and DSL, can not serve in. In addition, the easy-to-install JetWave 2450 covers 2.4GHz bands, which features outstanding throughput performance and a cost-effective design that allows users to have the reliable outdoor equipment at the affordable price.

Preparation before Installation

This chapter describes safety precautions and product information you have to know. Please check this chapter before installing JetWave 2450.



Professional Installation Required

1. Please seek assistance from a professional installer who is well trained in the RF installation and knowledgeable in the local regulations.
2. JetWave 2450 is distributed through distributors and system installers with professional technicians and will not be sold directly through retail stores.

Safety Precautions

To keep you safe and install the hardware properly, please read and follow these safety precautions.

1. If you are installing JetWave 2450 for the first time, for your safety as well as others', please seek assistance from a professional installer who has received safety training on the hazards involved.
2. Keep safety as well as performance in mind when selecting your installation site, especially where there are electric power and phone lines.
3. When installing JetWave 2450, please note the following things:
 - ▶ Do not use a metal ladder;
 - ▶ Do not work on a wet or windy day;
 - ▶ Wear shoes with rubber soles and heels, rubber gloves, long sleeved shirt or jacket.
4. When the system is operational, avoid standing directly in front of it. Strong RF fields are present when the transmitter is on.

Installation Precautions

To keep the JetWave 2450 well while you are installing it, please read and follow these installation precautions.

1. Users MUST use a proper and well-installed surge arrestor and grounding kit with JetWave 2450; otherwise, a random lightning could easily cause fatal damage to JetWave 2450. EMD (Lightning) DAMAGE IS NOT COVERED UNDER WARRANTY.
2. Users MUST use the "Power cord & PoE Injector" shipped in the box with the JetWave 2450. Use of other options will cause damage to the JetWave 2450.
3. Users MUST power off JetWave 2450 first before connecting the external antenna to it; otherwise, damage might be caused to JetWave 2450 itself.

Product Package

The product package you have received should contain the following items. If any of them are not included or damaged, please contact your local vendor for support.

- ▶ JetWave 2450
- ▶ Pole Mounting Ring
- ▶ Power cord & PoE Injector
- ▶ Quick Installation Guide
- ▶ Product CD

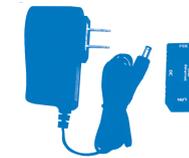
Note:

- ▶ Product CD contains Quick Installation Guide and User Manual!

Pole Mounting Ring



Power cord & PoE Injector



Warning:

- ▶ Users MUST use the "Power cord & PoE Injector" shipped in the box with the JetWave 2450. Use of other options will cause damage to the JetWave 2450.

System Installation

1. The bottom of JetWave 2450 is the movable cover. Grab the cover and pull it back harder to take it out as the figure shown below.



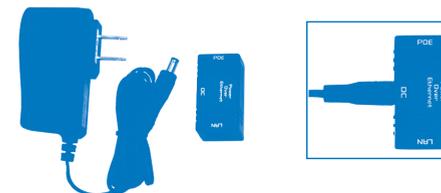
2. Plug a standard Ethernet cable into the RJ45 port.



3. Slide the cover back to seal the bottom of JetWave 2450.



4. Take out the power cord and PoE injector, and plug the power cord into the DC port of the PoE injector as the bottom right picture shows.



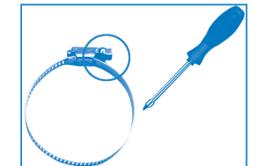
5. Put what in the Step.3 and Step.4 together by plugging the other side of the Ethernet cable in the Step.3 into the PoE port of the PoE injector in the Step.4. When you finish the Step.5, the complete set will be like the following picture.

Note: The maximum transmission length of PoE cable is 50 meter.

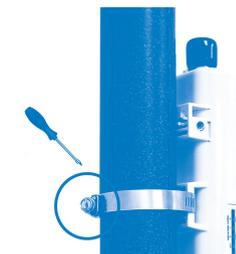


6. Turn the JetWave 2450 over. Put the pole mounting ring through the middle hole of the JetWave 2450.

Note: Unlock the pole mounting ring by a screw driver before putting it through the JetWave 2450 as the bottom right picture shows.



7. Mount the JetWave 2450 steadily to the pole by locking the pole mounting ring tightly.



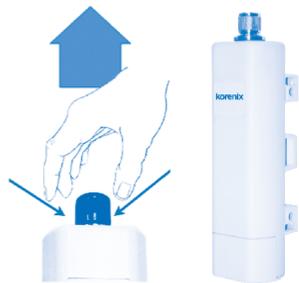
8. Successful installation.



Using the external antenna

If you prefer to use the external antenna with N-type connector for your application instead of the built-in directional antenna, please follow the steps below.

1. Grab the black rubber on the top of the JetWave 2450, and slightly pull it up as the figure shown below. The metal N-type connector will appear.



2. Connect your antenna with the N-type connector on the top of the JetWave 2450.

Note:

- ▶ Before using the external antenna with the N-type connector, users should prepare the cable in advance, if needed.

- ▶ While connecting the N-type connectors, users should pay attention to the forces they use in prevention of the damage for N-type connectors.

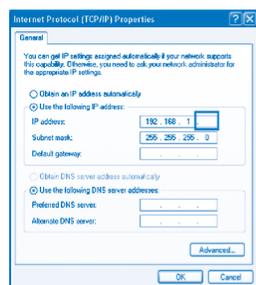
Warning:

- ▶ Users MUST power the JetWave 2450 off first before connecting the external antenna to it; otherwise, damage might be caused to the JetWave 2450 itself.

Configuration

Connect the JetWave 2450 with your PC by an Ethernet cable plugging in LAN port of PoE injector in one side and in LAN port of PC in the other side. Power on the JetWave 2450 by PoE from PoE injector.

1. Assign a static IP address to your PC which should be in the same network segment with the JetWave 2450. As the default IP address of JetWave 2450 is 192.168.1.1, you may choose from 192.168.1.2 to 192.168.1.254. Then click OK.



2. Open the web browser on your PC, key in the IP address (192.168.1.1) of the JetWave 2450 in the address bar, and then enter.



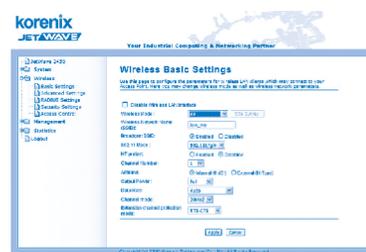
3. Now, you will see the log-in page of the JetWave 2450. The default "name" and "password" are "admin" and "password" respectively. Enter them and then click Login.



Since JetWave 2450 covers "AP mode" as well as "CPE mode", the following steps are categorized for convenience reading to describe how to set each mode after successful log-in.

AP Mode

1. Choose Wireless > Basic Settings. Then you will see the "Wireless Basic Settings" page. The default is AP mode already. Here, you can set the parameters to optimize your application, or you can leave them as the default. Click Apply to save the parameters.

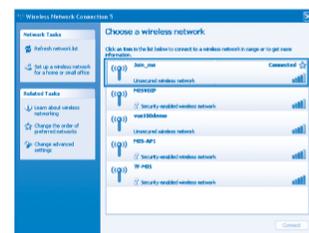


Note: In the example here, we only change the "Wireless Network Name (SSID)" as "Join_me", and later, we will show you if AP mode works correctly. In addition, for better coverage of the AP, you may also use an external antenna; if so, remember to set the antenna setting from "Internal (8 dBi)" to "External (N-Type)" after your external antenna is successfully installed.

2. Choose Security Settings in the left column, and here comes the "Security Settings" page. You may set the parameters like "Authentication" and "Encryption" for more secure network communication in your application. Click Apply to save the parameters.

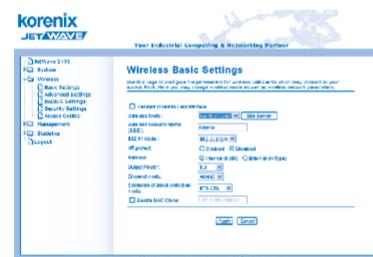


The following screenshot shows the available access points in the wireless network from another PC aside. Now, you can see "Join_me" in the list.



CPE Mode

1. Choose Wireless > Basic Settings. Then you will see the "Wireless Basic Settings" page. Choose "Wireless Client" from Wireless Mode, and click Apply to save it. Feel free to change the other parameters to optimize your application before clicking Apply.



Note: For longer transmission of the CPE, you may also use an external antenna; if so, remember to set the antenna setting from "Internal (8 dBi)" to "External (N-Type)" after your external antenna is successfully installed.

2. Click Site Survey, and a "Wireless Site Survey" window will pop up. The window lists all the available access points / routers in the wireless network. Select the one you prefer to connect to, and click Selected to build the connection.



3. If the AP you connect to needs authentication or password, click Security Settings in the left column, fill out the corresponding items, and click Apply to build the connection; otherwise, the connection is already built.



Chapter 5 Troubleshooting

1. Why can't I go to the log-in page, while I key in 192.168.1.1 in the address bar of the web browser?

A: Make sure that the JetWave 2450 is correctly connected with you PC, and powered on already. Then make sure that the IP address of your PC is set in the same network segment with the JetWave 2450, which means that the IP address of your PC should be between 192.168.1.2 and 192.168.1.255.

Patent No. (Taiwan):
Granted Invention: I 321415
Granted Invention: I 313547
Utility Model: M339840
Utility Model: M339841

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