

Quick Installation Guide

EAP767 V1.00

Enterprise Access Point

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FCC CAUTION

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 proven 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 or more of the following measures:

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

The device contains a low power transmitter which will send out Radio Frequency (RF) signal when transmitting. This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

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.

CE CAUTION

Declaration of Conformity with Regard to the 1999/5/EC (R&TTE Directive) for European Community, Switzerland, Norway, Iceland, and Liechtenstein

Model: EAP767

For 2.4 GHz radios, the device has been tested and passed the requirements of the following standards, and hence fulfills the EMC and safety requirements of R&TTE Directive within the CE marking requirement.

- Radio: EN 300.328:
- EMC: EN 301.489-1, EN 301.489-17,
- EMC: EN 55022 Class B, EN 55024: A1 + A2 including the followings:
 - EN 61000-3-2, EN 61000-3-3.
 - EN 61000-4-2, EN 61000-4-3, EN 61000-4-4,
 - EN 61000-4-5, EN 61000-4-6, EN 61000-4-11
- Safety: EN 60950-1 + A11,

Caution:

- This declaration is only valid for configurations (combinations of software, firmware, and hardware) provided and supported by 4ipnet Inc. The use of software or firmware not provided and supported by 4ipnet Inc. may result in the equipment no longer being compliant with the regulatory requirements.

European standards dictate maximum radiated transmit power of 100mW EIRP and frequency range 2.400-2.4835 GHz. This equipment is intended to be used in all EU and EFTA countries. Outdoor use may be restricted to certain frequencies and/or may require a license for operation. Contact your local regulatory authority for compliance.

Taiwan NCC Statement

根據 NCC 低功率電波輻射性電機管理辦法 規定:

第十二條 經型式認證合格之低功率射頻電機，非經許可，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。

第十四條 低功率射頻電機之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時應立即停用，並改善至無干擾時方得繼續使用。

前項合法通信，指依電信法規定作業之無線電通信。

低功率射頻電機須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之擾。

在 5.25 ~ 5.35 兆赫頻帶內操作之無線資訊傳輸設備，限於室內使用。

Preface

4ipnet EAP767 is a high-end, dual radio 802.11 b/g/n + ac MIMO Access Point (AP) with the best performance for business and industrial applications and is compliant with the latest industrial wireless security standards that are required in the tightly secured enterprise network environments.

EAP767 makes the wireless communication fast, secure and easy. It supports business grade security such as 802.1X, and Wi-Fi Protected Access (WPA and WPA2). The EAP767 supports multiple point-to-point wireless links to form wider wireless network coverage.

EAP767 also features multiple ESSIDs with VLAN tags and multiple Virtual APs; great for enterprise applications, such as separating traffic from different departments using different ESSIDs. The PoE Uplink port is able to receive power from Power over Ethernet (PoE) sourcing devices.

This Quick Installation Guide provides instructions and reference materials to get you started with 4ipnet EAP767.

Package Contents

1. 4ipnet EAP767 x 1
2. Quick Installation Guide (QIG) x 1
3. Wall Mount Kit x 1
4. Ceiling Mount Kit x 1
5. Torx Screwdriver x 1



It is recommended to keep the original packing material for possible future shipment when repair or maintenance is required. Any returned product should be packed in its original packaging to prevent damage during delivery.

System Overview



EAP767's Front Panel



EAP767's Rear Panel

1	LED Indicators	An LED indicator is available to show the uplink status
2	12V  2.5 A	Attach power adaptor here
3	Uplink (PoE) Port	Offers uplink connection. This port can be used to connect to a controller, gateway, or directly to the Internet. 802.3at PoE is also supported

Hardware Installation

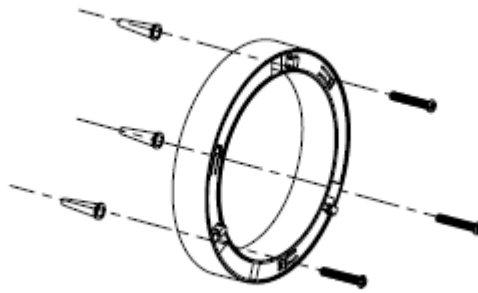
Please follow the steps mentioned below to install the hardware of EAP767:

1. Place the EAP767 at the best location.

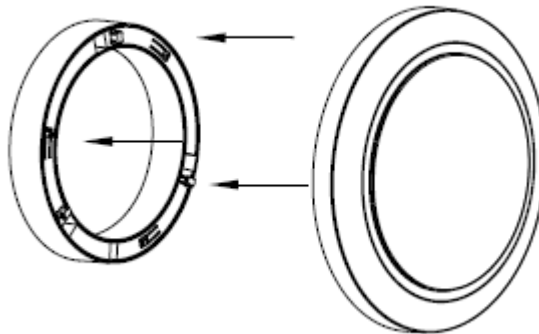
a) The best location for EAP767 is usually at the center of your intended wireless network.

Wall Mounting

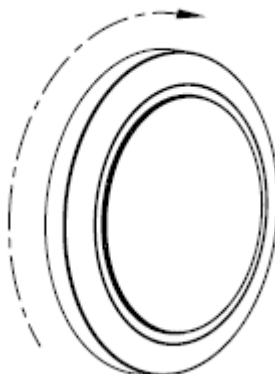
- Secure wall-mount bracket on wall



- Attach the Access Point to the dedicated slots on the mounting bracket

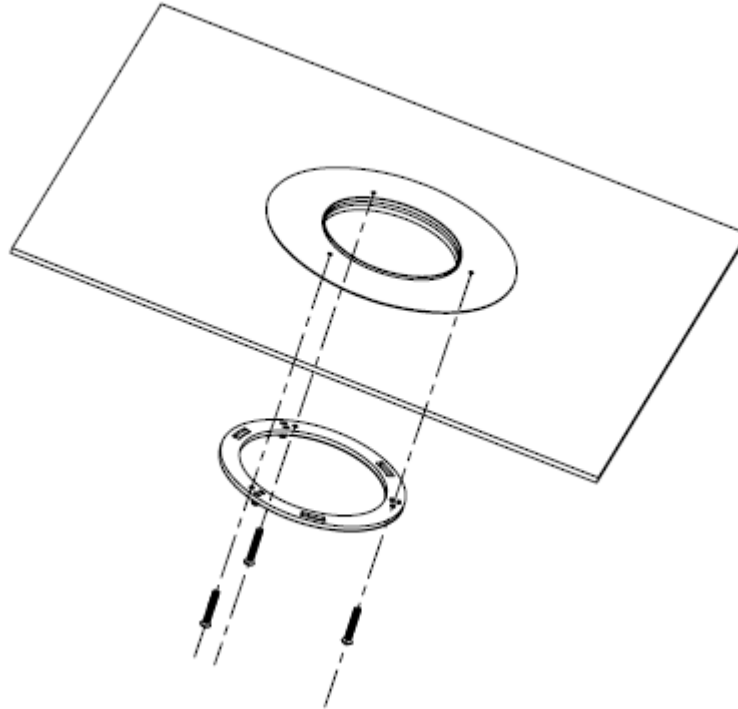


- Turn the Access Point clockwise as illustrated to fasten AP

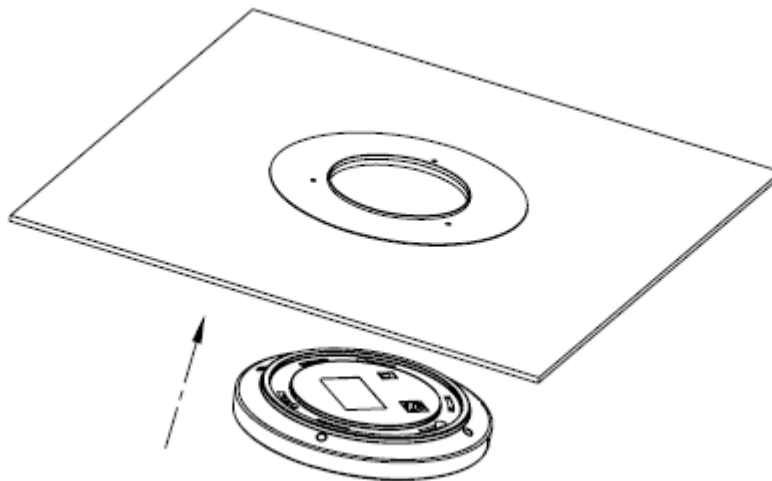


Ceiling Mount

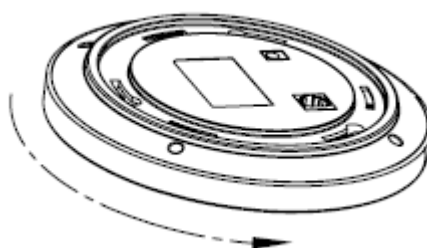
- Secure ceiling-mount bracket on ceiling



- Attach the Access Point to the dedicated slots on the mounting bracket



- Turn the Access Point clockwise as illustrated to fasten AP



2. Connect the EAP767 to your network device.

Connect one end of the Ethernet cable to the Uplink port of EAP767 and the other end of the cable to a switch, a router, or a hub. EAP767 is then connected to your existing wired LAN network.

There are two ways to supply power over to EAP767.

3. Connect the DC power adapter to the EAP767 power socket.

EAP767 Uplink port is capable of receiving DC currents. Connect an IEEE 802.3at-compliant PSE device (e.g. a PoE-switch) to the Uplink port of EAP767 with the Ethernet cable.

Now, the Hardware Installation is complete.



- *Using a different power adapter may damage this system.*
- *To verify the wired connection between EAP767 and you switch / router / hub, please also check the LED status indicator of the respective network devices.*

Getting Started

4ipnet EAP767 supports web-based configuration. When hardware installation is complete, EAP767 can be configured through a PC by using a web browser such as Mozilla Firefox 2.0 or Internet Explorer version 6.0 and above.

The default values of LAN IP address and subnet mask of EAP767 are:

IP Address: 192.168.1.1

Subnet Mask: 255.255.255.0

Steps:

1. To access the Web Management Interface, connect the administrator PC to the Uplink port of EAP767 via an Ethernet cable. Then, set a static IP address on the same subnet mask as EAP767 in TCP/IP of your PC, such as the following example:

IP Address: 192.168.1.100

Subnet Mask: 255.255.255.0

2. Launch the web browser on your PC by entering the IP address of EAP767 (**https://192.168.1.1**) in the address field, and then press **Enter**.



Example of entering EAP767's default IP Address via a web browser

3. The following Admin Login Page will appear. Enter “**admin**” for both the *Username* and *Password* fields, and then click **Login**.



The login page features the 4ipnet logo at the top left. Below it is a stylized graphic of a network mesh. To the right of the graphic are two input fields: 'Username' with 'admin' entered and 'Password' with '*****' entered. A yellow 'Login' button is positioned below the password field.

Administrator Login Page

4. After a successful login to EAP767, a **System Overview** page of the Web Management Interface will appear, as depicted below.

System Overview

System

System Name	Enterprise Access Point - EA...
Firmware Version	1.00.00
Build Number	1.55-1.7137
Location	
Site	EN-A
Device Time	2000/01/01 01:58:52
System Up Time	0 days, 1:59:39
CPU/RAM Usage	3.92% / 22.60% Plot

Radio Status

RF Card	MAC Address	Band	Channel	TX Power
RF Card A	00:03:7F:48:89:FD	802.11g+n	6	25 dBm
RF Card B	00:03:7F:00:25:10	802.11ac	36	17 dBm

LAN Interface

MAC Address	00:03:7F:11:20:05
IP Address	10.8.50.76
Subnet Mask	255.255.0.0
Gateway	10.8.1.1

AP Status

RF Card Name : RF Card A ▼

Profile Name	BSSID	ESSID	Security Type	Online Clients	Tun
VAP-1	00:03:7F:48:89:FD	4ipnetAP-A1	Open	1	✕

CAPWAP

Status Disabled

IPv6

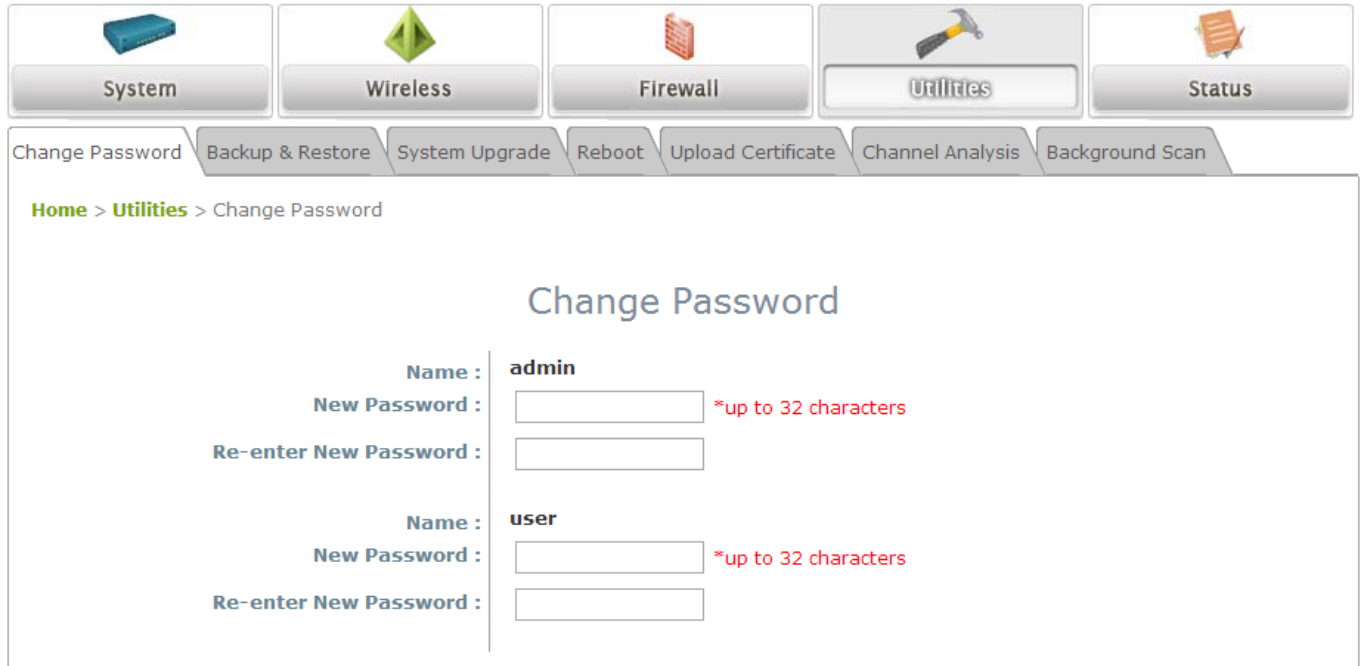
Status Disabled

The Web Management Interface - System Overview Page

5. To logout, simply click on the **Logout** button at the upper right hand corner of the interface to return to the Administrator Login Page. Click **OK** to logout.

Common Settings

Step 1. Change Administrator's Password



Change Password

Home > Utilities > Change Password

Change Password

Name : admin

New Password : *up to 32 characters

Re-enter New Password :

Name : user

New Password : *up to 32 characters

Re-enter New Password :

Change Password Page

- Click on the **Utilities** icon on the main menu, and select the **Change Password** tab.
- Enter the old password and then a new password with a length of up to 32 characters, and retype it in the **Re-enter New Password** field.
- Click **SAVE** to save the changes.

Step 2. Configure General AP (Access Point) Settings


System


Wireless


Firewall


Utilities


Status

VAP Overview

General

VAP Config

Security

Repeater

Advanced

Access Control

[Home](#) > [Wireless](#) > General

General Settings

RF Card Name : RF Card A ▼

Band :	802.11g+802.11n ▼	☐ Pure 11n
Short Preamble :	☐ Disable ☒ Enable	
Short Guard Interval :	☐ Disable ☒ Enable	
Channel Width :	20 MHz ▼	
Channel :	6 ▼	
Max Transmit Rate :	Auto ▼	
Transmit Power :	Level 1 ▼	
ACK Timeout :	0 *(0 - 255, 0:Auto, Unit:4 micro seconds)	
Beacon Interval :	100 millisecond(s) *(100 - 500)	
Airtime Fairness :	☐ Disable ☒ Fair Access ☐ Preferred Access	
Packet Delay Threshold:	1000 millisecond(s) *(100 - 5000, 0:Disable)	

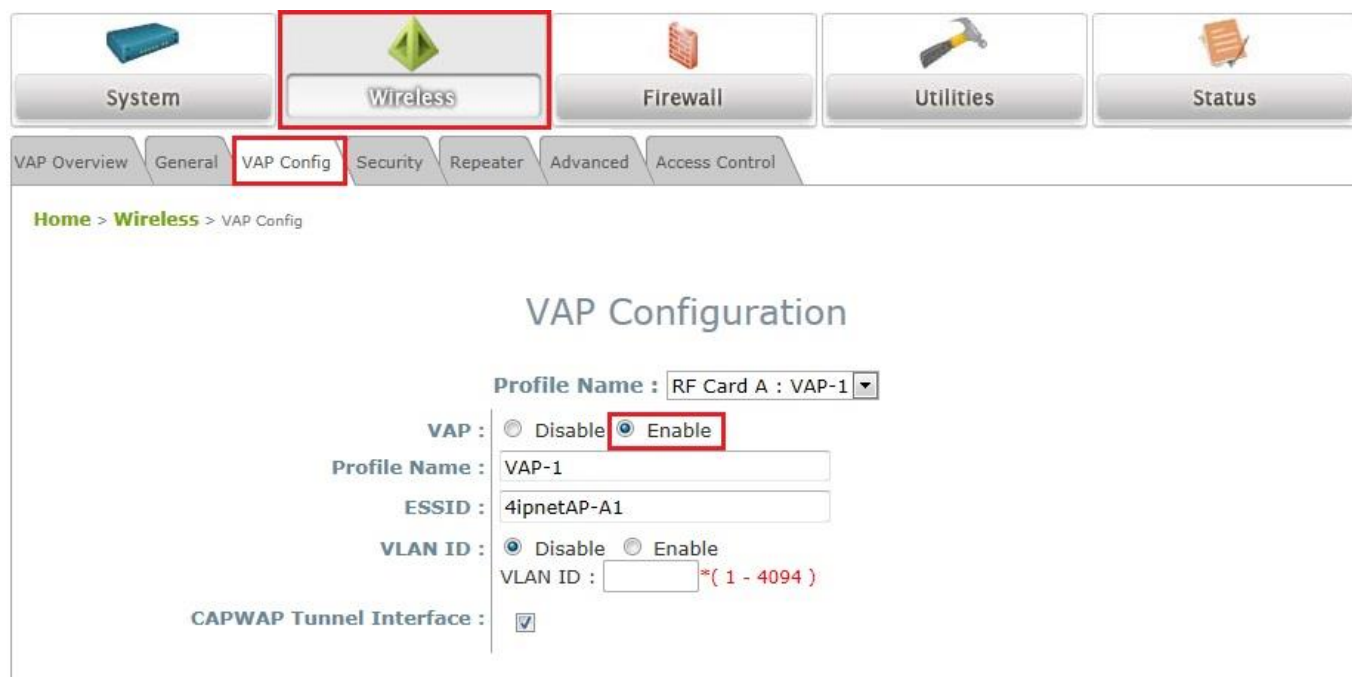
Wireless General Settings Page

- Click on the **Wireless** icon on the main menu, and then select the **General** tab.
- Determine the **Band** and **Channel** settings:
Select your preferred **Band** and **Channel** for you wireless connection. For example, select **802.11g+802.11n** for the band and 6 for the channel. For a detailed guide to configuration, please refer to the EAP767 User Manual.

Admin should be aware of Dynamic Frequency Selection (DFS) mandated on some channels of the 5GHz band. When an EAP767 detects interference, this mechanism will limit the ability to broadcast the SSID on one of the channels listed below:

- **Note:**
- 1) Country Code: 840 (US)**
DFS Channels: 52 56 60 64 100 104 108 112 116 120 124 128 132 136 140
 - 2) Country Code: 250 (EU)**
DFS Channels: 52 56 60 64

Step 3. Configure VAP (Virtual Access Point) Profile Settings



Home > Wireless > VAP Config

VAP Configuration

Profile Name : RF Card A : VAP-1

VAP : ☐ Disable ☒ Enable

Profile Name : VAP-1

ESSID : 4ipnetAP-A1

VLAN ID : ☒ Disable ☐ Enable

VLAN ID : *(1 - 4094)

CAPWAP Tunnel Interface : ☒

VAP Configuration Page (VAP-1 shown)

- EAP767 supports up to 16 virtual APs (VAPs) per RF Card.
- Configure VAP profile settings :
 - (a) Select the **VAP Configuration** tab to configure the settings of the desired VAP.
 - (b) Enable a specific VAP from the drop-down menu of **Profile Name** and configure related settings below.
- Check VAP status :

After finishing VAP configuration, the status of enabled Virtual APs shall be reflected on the VAP Overview page.


System


Wireless


Firewall


Utilities


Status

VAP Overview
General
VAP Config
Security
Repeater
Advanced
Access Control

Home > Wireless > VAP Overview

VAP Overview

RF Card A

VAP No.	ESSID	State	Security Type	MAC ACL	Advanced Settings
1	4ipnetAP-A1	Enabled	Open	Disabled	Edit
2	4ipnetAP-A2	Disabled	Open	Disabled	Edit
3	4ipnetAP-A3	Disabled	Open	Disabled	Edit
4	4ipnetAP-A4	Disabled	Open	Disabled	Edit
5	4ipnetAP-A5	Disabled	Open	Disabled	Edit
6	4ipnetAP-A6	Disabled	Open	Disabled	Edit
7	4ipnetAP-A7	Disabled	Open	Disabled	Edit
8	4ipnetAP-A8	Disabled	Open	Disabled	Edit
9	4ipnetAP-A9	Disabled	Open	Disabled	Edit
10	4ipnetAP-A10	Disabled	Open	Disabled	Edit
11	4ipnetAP-A11	Disabled	Open	Disabled	Edit

Virtual AP Overview Page

Step 4. Configure WDS (Wireless Distribution System) Settings (Optional)



Home > Wireless > Repeater Config

Repeater Settings

Repeater Type : WDS ▼

WDS Profile : RF Card A : WDS Link 1 ▼

WDS : Disable ▼

WDS Link Address : 0A:03:7F:48:89:FD *Please use it as the peer's Remote AP MAC Address

Remote AP MAC Address :

Security type : None ▼

CAPWAP Tunnel Interface : ☐

To extend the wireless coverage, EAP767 supports up to 8 WDS links for connecting wirelessly to other WDS-capable APs (peer APs). By default, all WDS profiles are disabled.

- Click on the **Wireless** button on the main menu.
- Select the **Repeater Settings** tab.
- Choose **WDS** as the **Repeater Type**.
- Choose the desired WDS profile:
 - (a) Enable **WDS**.
 - (b) Enter the **MAC Address** (peer AP) and then Click **SAVE**.

If you are using another EAP767 as the peer AP, simply repeat the above-mentioned steps to configure another peer AP(s).

► Note:

On each and every configuration page, you may click **SAVE** to save the changes of your configured settings, but you must reboot the system for the changes to take effect. After clicking **SAVE**, the following message will appear: **“Some modifications have been saved and will take effect after Reboot.”**

Congratulations!

Now, 4ipnet EAP767 is installed and configured successfully.



After EAP767's network configuration is completed, please remember to change the IP Address of your PC Connection Properties back to its original settings in order to ensure that your PC functions properly in its real network environments.

- ***It is strongly recommended to make a backup copy of your configuration settings.***
- ***For further configuration and backup information, please refer to the User's Manual.***

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