



# Quick Installation Guide

EAP700 V1.00

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## Preface

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The 4ipnet EAP700 Wall Jack Access Point is an in-the-wall Wi-Fi IEEE 802.11b/g AP, designed to blend with any office or home interior architecture or furnishings effortlessly.

EAP700 is an easy-to-install and cost-effective solution for most of indoor wireless deployments, including hotel rooms, apartments, offices, classrooms, libraries, private homes, public kiosks, etc. When working under one of 4ipnet Controllers, the combined network turns into an intelligent building solution, a managed internet service, or a Wi-Fi hotspot network of various scales.

This Quick Installation Guide provides instructions for getting started with EAP700.

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## Package Contents

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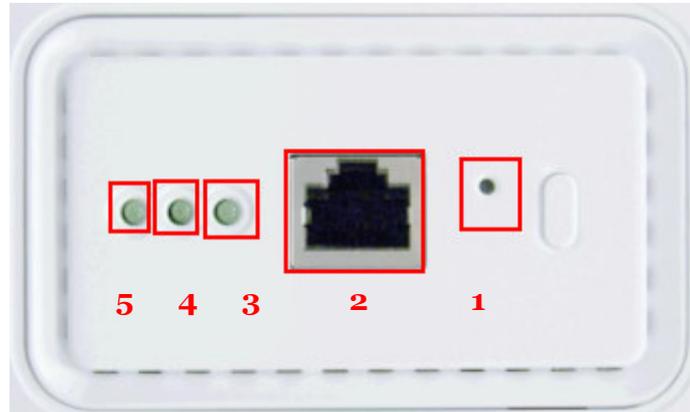
1. EAP700 x 1
2. Quick Installation Guide (QIG) x 1
3. CD-ROM x 1



*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

### Front Panel



#### ①. RESET Button:

- Press the button to restart the system.
- Press the button more than 30 seconds will reset the system to default settings.

#### ②. LAN:

- The LAN port is for connection with wired network.

#### LED status indication:

##### ③. LAN

- OFF indicates no connection; ON indicates connection; BLINKING indicates transmitting data.

##### ④. WLAN

- Green LED ON indicates system ready.

##### ⑤. Power

- Green LED On indicates power on; OFF indicates power off.

**In-Wall Panel****①. POWER SOCKET:**

- Attach the power adapter here.

**②. PoE (LAN):**

- The LAN port is for connection with wired networks or PoE Switch.

## ***Hardware Installation***

Please follow the steps mentioned below to install the hardware of EAP700:

Before the installation, assemble the following parts accordingly for later in-wall placement.

Step 1: Unpack the package and remove the cover and the frame.



Step 2: Lock the screw correctly to the frame.

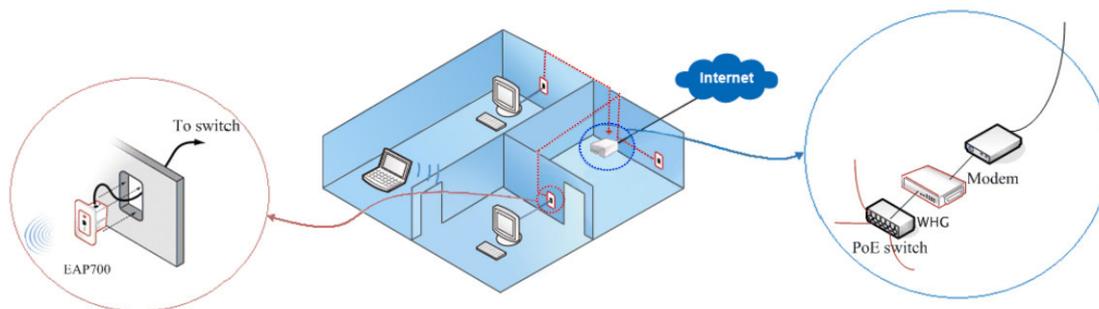


Step 3: Slide the frame from the two sides to the front until locked to the fixed point.



Step 4: Cover it with faceplate.





### Installation Steps:

#### 1. Place the EAP700 at proper location.

The best location for EAP700 is usually at the center of your wireless network.

#### 2. Connect EAP700 to your network device.

Connect one end of the Ethernet cable to the LAN port of EAP700 and the other end of the cable to a switch, a router or a hub. EAP700 is then connected to your existing wired LAN network.

#### 3. There are two ways to supply power over to EAP700.

(1) Connect the power adapter to the EAP700 power socket.

(2) EAP700 PoE (LAN) port is capable of transmitting DC currents via its PoE (LAN) port.

Connect an IEEE 802.3af-compliant PSE device, e.g. a PoE-switch, to the PoE (LAN) port of EAP700 with the Ethernet cable.

Now, the Hardware Installation is completed.

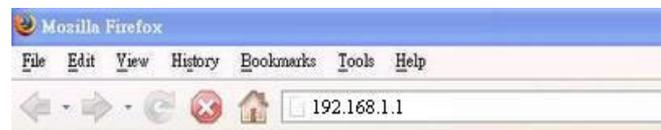
## Getting Started

4ipnet EAP700 supports web-based configuration. Upon the completion of hardware installation, EAP700 can be configured through a PC by using its web browser such as Mozilla Firefox 2.0 or Internet Explorer version 6.0 and the above.

The default values of LAN IP address and subnet mask of EAP700 are:

*IP Address: 192.168.1.1*

*Subnet Mask: 255.255.255.0*



- To access the web management interface, connect the administrator PC to the LAN port of EAP700 via an Ethernet cable. Then, set a static IP address on the same subnet mask as EAP700 in TCP/IP of your PC, such as the following example (Please note that the IP address used shall not be duplicated with the IP address of other devices within the same network.):

*IP Address: 192.168.1.100*

*Subnet Mask: 255.255.255.0*

- Launch the web browser on your PC by entering the IP address of EAP700 (**http://192.168.1.1**) at the address field, and then press **Enter**. The following Administrator Login Page will then appear. Enter "**admin**" for both the *User name* and *Password* fields, and then click **OK** to log in.

*User name: "admin"*

*Password: "admin"*



- After a successful login into EAP700, a **System Overview** page of web management interface will appear.
- To logout, simply click on the **Logout** button at the upper right hand corner of the interface to return to the Administrator Login Page.



Profile Name	BSSID	ESSID	Security Type	Online Clients
VAP-1	00:1F:D4:00:2E:19	EAP700-AP	None	1

## Common Settings

### Basic Configuration

#### Step 1. Change Administrator's Password:

The screenshot shows the 'Change Password' page in the 4IPNET web interface. At the top, there are four main navigation buttons: System, Wireless, Utilities (highlighted with a red box), and Status. Below these are several sub-tabs: Change Password (highlighted with a red box), Network Utilities, Config Save & Restore, System Upgrade, and Reboot. The breadcrumb path is 'Home > Utilities > Change Password'. The main heading is 'Change Password'. The form contains the following fields:

- Name : admin
- Old Password :
- New Password :  \*up to 32 characters
- Re-enter New Password :

At the bottom of the form are three buttons: SAVE, APPLY, and CLEAR.

- Click on the **Utilities** button, and then select the **Change Password** tab.
- Enter a new password with length up to 32 characters, and then click **Apply** to activate the new password.

On each and every configuration page, you may

(a) Click **Apply** to allow the changes you made on the current page to take effect immediately (Sometimes the system may require a restart after clicking **Apply**. When a restart message appears, the system must be restarted for the settings to take effect.); or

▶▶  
**Note:**

(b) Click **Save** to save the changes, but you must reboot the system upon the completion of all configuration settings for the changes to take effect. When clicking **Save**, the following message will appear: **“Some modifications have been saved and will take effect after Reboot.”**

## Step 2. Configure Wireless Settings

System Wireless Utilities Status

VAP Overview General VAP Config Security Repeater Advanced Access Control Site Survey

Home > Wireless > General

### General Settings

**Band:** 802.11b+802.11g ▾

**Super G:**  Bursting  Compression  Fast Frames  Dynamic Turbo

**Short Preamble:**  Disable  Enable

**Channel:** Auto ▾

**Max Transmit Rate:** Auto ▾

**Transmit Power:** Auto ▾

**ACK Timeout:** 0 \*(0 - 255, 0:Auto, Unit:4 micro seconds)

SAVE APPLY CLEAR

- Click on the **Wireless** button, and then select the **General** tab.
- Determine the *Band* and *Channel* settings:  
Select your preferred *Band* and *Channel* for your wireless connection. For example, select *802.11b+802.11g* for the band and *Auto* for the channel.

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

The screenshot shows the 4IPNET web interface for configuring VAP settings. At the top, there are four main navigation buttons: System, Wireless (highlighted with a red box), Utilities, and Status. Below these are several sub-tabs: VAP Overview, General, VAP Config (highlighted with a red box), Security, Repeater, Advanced, Access Control, and Site Survey. The breadcrumb path is Home > Wireless > VAP Config. The main heading is 'VAP Configuration'. The configuration form includes: Profile Name: VAP-1 (dropdown menu); Enable VAP:  Disable,  Enable (the 'Enable' radio button is highlighted with a red box); Profile name: VAP-1 (text input field); ESSID: EAP700-1 (text input field); VLAN ID:  Disable,  Enable; and a specific VLAN ID field containing '1' with a red asterisk and the range '( 1 - 4094 )'. At the bottom, there are three buttons: SAVE, APPLY, and CLEAR.

EAP700 Supports up to 8 virtual APs. By default, only 1 VAP is enabled.

- Configure VAP profile settings:
  - (a) Select the **VAP Config** tab to configure the settings for each VAP.
  - (b) An administrator can enable or disable specific VAP from the drop-down list box of *Profile Name*.
- Check VAP status :

After finishing the above settings, the status of enabled Virtual APs shall be reflected on the **Virtual AP Overview** page.

Home > Wireless > Virtual AP Overview

### Virtual AP Overview

VAP	State	Security Type	MAC ACL	Advanced Settings
1	Enable	None	Disable	Edit
2	Disable	None	Disable	Edit
3	Disable	None	Disable	Edit
4	Disable	None	Disable	Edit
5	Disable	None	Disable	Edit
6	Disable	None	Disable	Edit
7	Disable	None	Disable	Edit
8	Disable	None	Disable	Edit

**Step 4 (Advanced Optional). Choose Security Type**

Home > Wireless > Security

### Security Settings

Profile name : VAP-1

Security Type : None

- None
- WEP
- 802.1X
- WPA-PSK
- WPA-RADIUS

SAVE CLEAR

- Click on the **Wireless** button.
- Select the **Security** tab to configure your preferred security types:
  1. Choose “**WEP**” as its *Security Type* :
 

While **WEP** is selected, provide the desired **Authentication, key length, format, index and values.**

VAP Overview General VAP Config Security Repeater Advanced Access Control Site Survey

Home > Wireless > Security

## Security Settings

Profile name : VAP-1

Security Type : WEP

Note! The WEP keys are global setting for all virtual APs. The key value will apply to all VAPs.

802.11 Authentication:  Open System  Shared Key  Auto

WEP Key Length :  64 bits  128 bits  152 bits

WEP Key Format :  ASCII  Hex

WEP Key Index : 1

WEP Keys :

1	<input type="text"/>
2	<input type="text"/>
3	<input type="text"/>
4	<input type="text"/>

2. Choose “**802.1X**” as its *Security Type* :

While **802.1X** authentication is selected, provide the desired **WEP key length** and the corresponding settings of RADIUS server.

VAP Overview | General | VAP Config | **Security** | Repeater | Advanced | Access Control | Site Survey

Home > Wireless > Security

### Security Settings

Profile name : VAP-1

Security Type : 802.1X

Dynamic WEP :  Disable  Enable

WEP Key Length:  64 bits  128 bits

Rekeying Period: 300 second(s)

Primary RADIUS Server :

Host:  \*( Domain Name / IP Address )

Authentication Port: 1812 \*

Secret Key:

Accounting Service:  Disable  Enable

Accounting Port: 1813 \*

Accounting Interim Update Interval: 0 second(s)\*

Secondary RADIUS Server :

Host:  ( Domain Name / IP Address )

Authentication Port: 1812

Secret Key:

Accounting Service:  Disable  Enable

Accounting Port: 1813

Accounting Interim Update Interval: 0 second(s)

3. Choose “WPA-PSK” as its *Security Type* :

While **WPA-PSK** is preferred, provide the desired **pre-shared key** and **Cipher Suite**.

VAP Overview | General | VAP Config | **Security** | Repeater | Advanced | Access Control | Site Survey

Home > Wireless > Security

### Security Settings

Profile name : VAP-1

Security Type : WPA-PSK

Cipher Suite : TKIP (WPA)

Pre-shared Key Type :  PSK(Hex)\*( 64 chars )  Passphrase\*( 8 - 63 chars )

Pre-shared Key :

Group Key Update Period: 600 second(s)

- Choose “**WPA-RADIUS**” as its *Security Type*:  
While **WPA-RADIUS** is selected, provide the **Cipher** type and the corresponding settings of RADIUS server.

VAP Overview | General | VAP Config | **Security** | Repeater | Advanced | Access Control | Site Survey

Home > Wireless > Security

### Security Settings

Profile name : VAP-1

Security Type : WPA-RADIUS

Cipher Suite : TKIP (WPA)

Group Key Update Period: 600 second(s)

Primary RADIUS Server :

Host:  \*( Domain Name / IP Address )

Authentication Port: 1812 \*

Secret Key:

Accounting Service:  Disable  Enable

Accounting Port: 1813 \*

Accounting Interim Update Interval: 0 second(s)\*

Secondary RADIUS Server :

Host:  ( Domain Name / IP Address )

Authentication Port: 1812

Secret Key:

Accounting Service:  Disable  Enable

Accounting Port: 1813

Accounting Interim Update Interval: 0 second(s)

## Step 5. Configure WDS (Wireless Distribution System) Settings

Home > Wireless > Repeater Config

### Repeater Settings

Repeater Type : **WDS**

Security type : **None**

MAC Address :  **Add**

Item	MAC Address	Enable	Delete
1	1A:23:2B:45:60:70	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2			
3			
4			

To extend its wireless coverage, EAP700's WDS capability is capable of creating WDS links for connecting to other WDS-capable APs (peer APs). EAP700 supports up to 4 WDS links. By default, all WDS profiles are disabled.

- Click on the **Repeater** tab.
- Select **WDS** from drop-down list of Repeater Type.
- Configure WDS link parameters:
  - (a) Enter *MAC Address of Remote AP* (peer AP) and click Add
  - (b) Select preferred *Security Type*
- To configure peer AP(s):

After completing the WDS settings at this EAP700 (functioning as a “primary WDS station”), you must also configure the settings of its peer AP(s).

If you use another EAP700 as the peer AP, simply repeat the above-mentioned steps with the MAC Address of the primary WDS station for setting WDS link parameters of the peer AP(s).

**Step 5 (CONT). Check WDS Link Status**

Home > Status > Repeater Information

### Repeater Information

#### Repeater Status

Status	Enabled
Mode	WDS
Encryption	None

#### WDS Link Status

Item	MAC Address	RSSI	TX Rate	TX Count	TX Error
1	1A:23:2B:45:60:70	0	54 M	2361	2361
2		N/A	N/A	N/A	N/A
3		N/A	N/A	N/A	N/A
4		N/A	N/A	N/A	N/A

- Click on the **Status** button.
- Select the **Repeater** tab.
- Check the signal strength of WDS link(s) :  
 Upon the completion of Step 5, there shall be *RSSI* displayed on the **WDS Link Status**.  
 If the RSSI is shown as *N/A*, check if the wiring is properly connected and please ensure the accurate execution of Step 5 as described above.

***Congratulation!***

Now, 4ipnet EAP700 is installed and configured successfully.

- *It is strongly recommended to make a backup copy of configuration settings.*
- *After EAP700'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.*