

# NWA1100-N

## Quick Start Guide

802.11b/g/n PoE Access  
Point

Firmware Version 1.00  
Edition 1, 3/2011

### DEFAULT LOGIN DETAILS

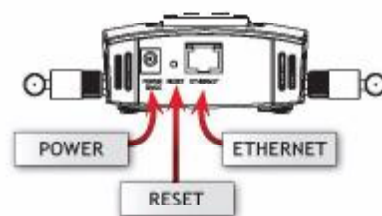
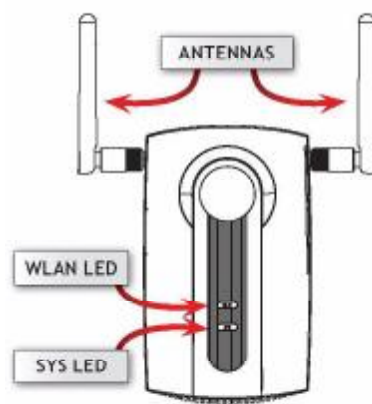
IP Address	<a href="http://192.168.1.2">http://192.168.1.2</a>
Username	admin
Password	1234



# ZyXEL

## Panels

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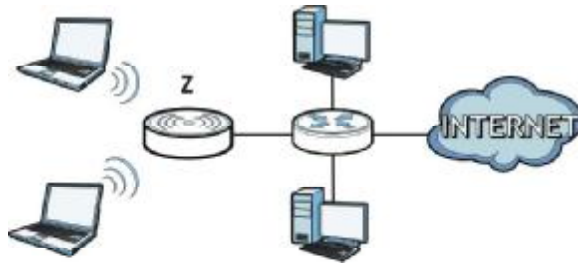


## ENGLISH

### **Overview**

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This Quick Start Guide shows how to set up and configure the NWA1100-N (marked **Z** in the figure) to allow wireless clients to securely access your wired network. See your User's Guide for more information.



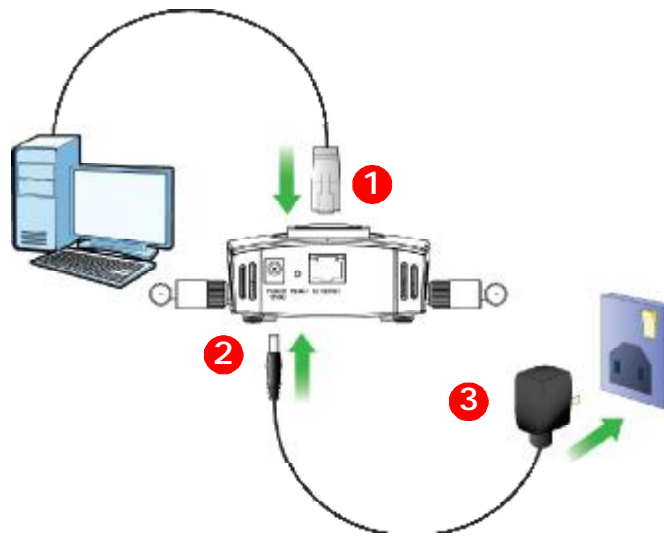
You may need your Internet access information.

To set up your wireless network you need to:

- [Connect the Hardware](#)
- [Access the Web Configurator](#)
- [Configure the NWA1100-N](#)
- [Install the Hardware](#)
- [Set Up Power over Ethernet \(Optional\)](#)

## Connect the Hardware

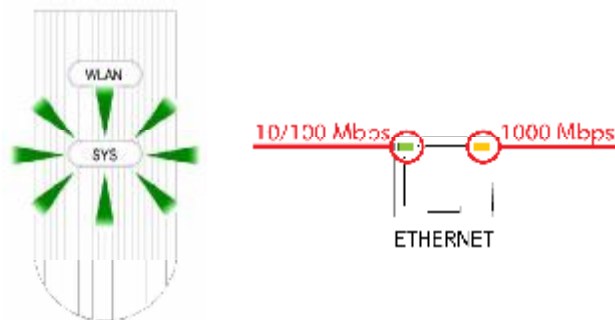
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1. Using the Ethernet cable, connect the **ETHERNET** port to a computer for initial configuration.
2. Connect the **POWER 12VDC** socket to a power source using only the included power adaptor.

Connect the NWA1100-N's **ETHERNET** port to an Ethernet jack with network access after you have completed the initial configuration.

## LEDs



- The **SYS** LED blinks red, then turns steady green when the power is connected.
- One of the LEDs by the **ETHERNET** port turns on if the port is properly connected, and blinks when there is traffic. The yellow light shines if the connection is at 1000 Mbps. The green light shines if the connection is at 10/100Mbps.

*#If neither LED near the **ETHERNET** port turns on, check the cable connections to the port. Ensure your computer's network card is working properly.*

## Access the Web Configurator

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Internet Explorer 6.0 and later versions, with JavaScript enabled, or Mozilla Firefox 3 and later versions or Safari 2.0 and later versions.

## Set Up Your Computer's IP Address

Note down your computer's current IP settings before you change them.

First, set your computer to use a static IP address in the 192.168.1.3 - 192.168.1.254 range with a subnet mask of 255.255.255.0. This ensures that your computer can communicate with your NWA1100-N. See your User's Guide for information on setting up your computer's IP address.

## Log Into the Web Configurator

Even though you can connect to the NWA1100-N wirelessly, it is recommended that you connect your computer to the **ETHERNET** port for initial configuration.

1. Launch your web browser. Enter **192.168.1.2** (the NWA1100-N's default IP address) as the address.

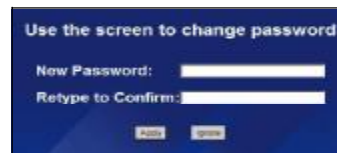


*# If you cannot access the Web configurator, make sure the IP addresses and subnet masks of the NWA1100-N and the computer are in the same IP address range.*

2. Enter **admin** (the default username) in the **Username** field and **1234** (the default password) in the **Password** field. Click **Login**.



3. Change the login password by entering a new password and clicking **Apply**. Be sure to record the new password and keep it in a safe place.



*# If you change the password and then forget it, you will need to reset the NWA1100-N. Refer to the User's Guide for how to use the **RESET** button.*

4. The **STATUS** screen appears.

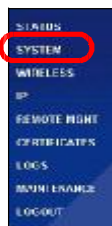


## Configure the NWA1100-N

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### Configure System Settings

1. Click **SYSTEM** in the navigation panel.



2. The **SYSTEM > General** screen appears.



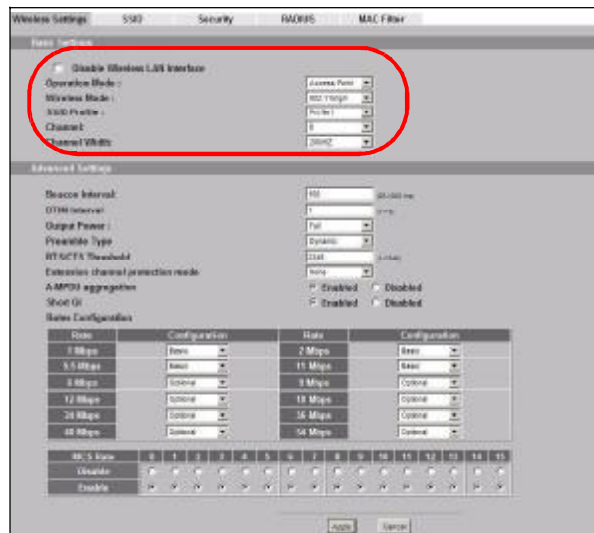
- **System Name** is for identifying the NWA1100-N on your network. Choose a distinctive name, or leave this at its default.

- You can configure the Ethernet port speed and duplex in the **Ethernet Data Rate** field. If you are not sure, select **Auto**.

3. Click **Apply**.

## Configure Wireless Settings

1. Click **WIRELESS** in the navigation panel. The **Wireless Settings** screen displays. Configure the basic settings for your wireless network.



The wireless stations and the NWA1100-N must use the same SSID, channel ID and encryption settings for wireless communication.

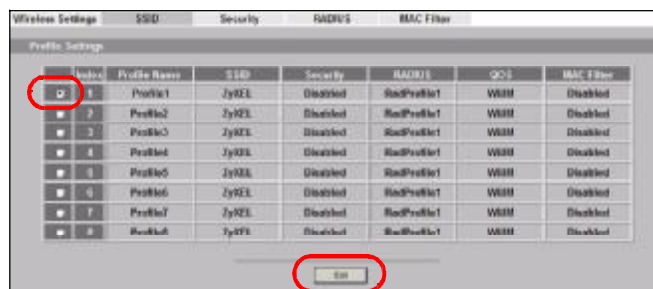
- **Operation Mode:** Ensure that **Access Point** mode is selected.



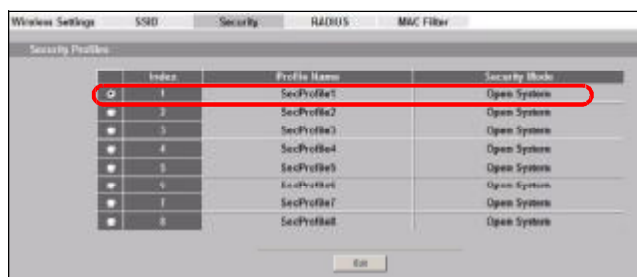
- **Wireless Mode:** Select the wireless standard you want your network to use. If you are not sure which to select, select **802.11b/g/n**.
- **SSID Profile:** Select the SSID profile you want to configure for network access from the drop-down list box.
- **Channel:** Select the wireless channel you want your network to use.
- **Channel Width:** Select the channel bandwidth you want to use. If you are not sure, select **20/40 MHz**.

2. Click **Apply** to save your settings.

3. Click the **SSID** tab. If you want to configure advanced settings of an SSID profile (such as change the profile name, SSID, or security), select it and click **Edit**.



- Click the **Security** tab. Select the profile you want to configure and click **Edit**.



- The edit screen of the selected security profile appears. If you don't configure wireless security, anyone can access your network.




- This is where you can enter the security settings for your wireless network. The fields you fill in differ according to the type of security you select in the **Security Mode** field. Select **None** if you do not wish to use wireless security.
- This example uses **WPA2-PSK** security, in which all wireless clients must use the same pre-shared key to join the network.
- Ensure that all your wireless clients support the type of security you set. Click **Apply** when you have finished.

*#If the wireless clients cannot communicate with the network, ensure that the clients and the NWA1100-N are using the same wireless security settings.*

## Configure IP Settings

1. You need to set your NWA1100-N's IP address to be in the same subnet as your network. Click **IP** in the navigation panel.



The screenshot shows a configuration window titled "IP" with a sub-header "IP Address Assignment". It features two radio buttons: "Obtain IP Address Automatically" (unselected) and "Use Fixed IP Address" (selected). Below these are three input fields: "IP Address" with the value "192.168.2", "Subnet Mask" with "255.255.255.0", and "Gateway IP Address" with "192.168.1". A "Spanning Tree" checkbox is also present. The "System DNS Servers" section contains three input fields for "First DNS Server", "Second DNS Server", and "Third DNS Server", each with the value "0.0.0.0". "Apply" and "Cancel" buttons are located at the bottom right.

- Select **Obtain IP Address Automatically** if you want to have a DHCP server on your network assign an IP address to the NWA1100-N.
- If you have a specific IP address to use, select **Use Fixed IP Address** and enter it along with the subnet mask and gateway IP address.
- If your ISP provided specific DNS (Domain Name System) settings, enter them in the **System DNS Servers** section. Otherwise, leave these fields at their defaults.
- Click **Apply**. The NWA1100-N now uses the new IP settings; you can no longer connect to the NWA1100-N using the default IP address.

If you change the NWA1100-N's IP address, you must use the new IP address when you next access the web configurator. If you select **Obtain IP Address Automatically**, check your DHCP server to determine the IP address it assigns to the NWA1100-N. Refer to your DHCP server's documentation for more information.

2. If you changed your computer's IP address, return it to its previous setting.
3. Change the wireless settings in the wireless stations to match those of the NWA1100-N, if necessary. Refer to your wireless adapter's documentation.

The NWA1100-N is now ready to connect to your switch or router. You can do this now, or once you have attached the antennas and mounted the NWA1100-N.

*#If the NWA1100-N cannot communicate with the network, ensure that the NWA1100-N is using an IP address on the same subnet as the switch / router.*

## Install the Hardware

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### Attaching Antennas

Screw the antennas clockwise onto the antenna connectors on the sides of your NWA1100-N. The antennas should be perpendicular to the ground and parallel to each other.

Make sure the antennas are securely screwed onto the antenna connectors.



### Hardware Mounting

In general, the best location for the access point is at the center of your intended wireless coverage area. For better performance, mount the NWA1100-N high up in an area that is free of obstructions.

### ***Wall-mounting***

Do the following to attach your NWA1100-N to a wall.

1. Screw the two screws provided with your NWA1100-N into the wall 60mm apart (see the figure in step 3). Use screws with 6mm ~ 8mm (0.24" ~ 0.31") wide heads. Do not screw the screws all the way in to the wall; leave a small gap between the head of the screw and the wall.

The gap must be big enough for the screw heads to slide into the screw slots and the connection cables to run down the back of the NWA1100-N.

Make sure the screws are securely fixed to the wall and strong enough to hold the weight of the NWA1100-N with the connection cables.

2. Adjust the cables.

Run the connection cables down the back of the NWA1100-N as shown in the following figure.

OR:

Run the connection cables upward and along the edge of the ceiling.



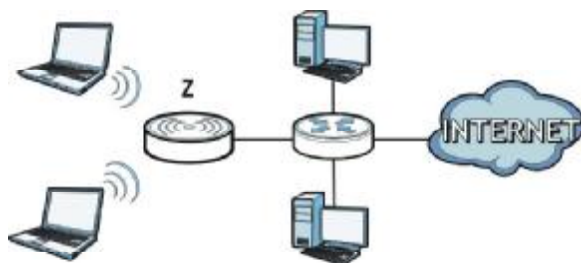
3. Align the holes on the back of the NWA1100-N with the screws on the wall. Hang the NWA1100-N on the screws.



## 概覽

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本《快速入門指引》介紹如何安裝和設定 NWA1100-N (以下範例標示為 **Z**)，以便無線用戶端接取有線網路。請參閱《使用手冊》，取得詳細資訊。



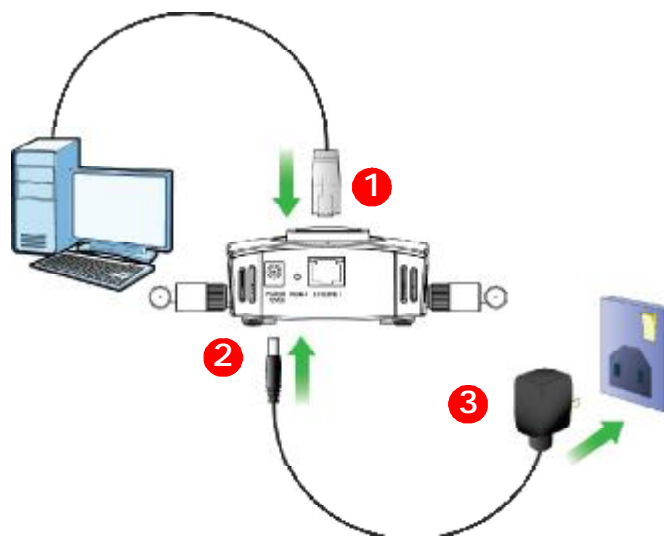
您可能需要相關網際網路接取資訊。

若要設定無線網路，您需要：

- 連接硬體
- 使用網頁設定介面
- 設置 NWA1100-N
- 安裝硬體
- 設定乙太網路供電 (選擇性)

## 連接硬體

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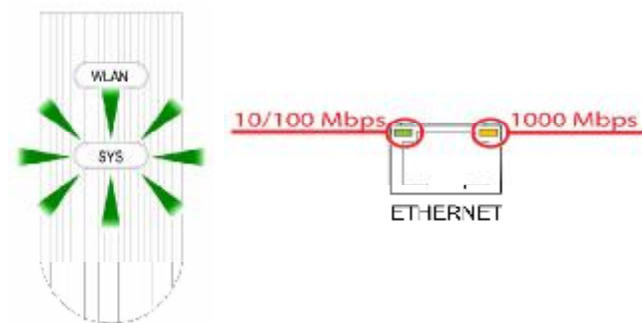


1. 使用乙太網路線，將 **ETHERNET** 埠連接至電腦以進行初始設定。
2. 使用隨附的電源轉接器(勿使用其他電源轉接器)，將 **POWER 12VDC** 插槽連接到電源。

完成初步設定後，再將 NWA1100-N 的 **ETHERNET** 埠連接到可以接取網路的乙太網路插孔。



## LED 指示燈



- 當連接電源時，**SYS** LED 指示燈閃爍紅色，接著轉為持續的綠燈。
- 如果連接埠連接正確，**ETHERNET** 埠旁邊的其中一個 LED 指示燈會亮起；如果正在進行傳輸，指示燈便會閃爍。如果連接的傳輸速率為 1000 Mbps，黃色燈會亮起。如果連接的傳輸速率為 10/100 Mbps，綠燈會亮起。

# 如果靠近 **ETHERNET** 埠的 LED 指示燈都沒有亮起，檢查接在連接埠上的連接線。確認電腦網路卡運作正常。

## 使用網頁設定介面

Internet Explorer 6.0 以上版本並啟用 JavaScript，或 Mozilla Firefox 3 以上版本或 Safari 2.0 以上版本。

### 設定電腦的 IP 位址

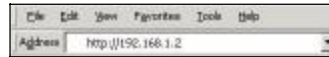
變更電腦目前的 IP 設定之前，請先將其記下。

首先，設定電腦使用介於 192.168.1.3 - 192.168.1.254 之間的靜態 IP 位址，並將子網路遮罩設為 255.255.255.0。這項作業可以確保您的電腦能和 NWA1100-N 裝置通訊。請參閱《使用手冊》，取得設定電腦 IP 位址的相關資訊。

## 登入至網路設定介面

即使已能無線連接至 NWA1100-N，仍建議在初步設定中先將電腦連接到 **ETHERNET** 埠。

3. 啟動您的網頁瀏覽器輸入位址 **192.168.1.2** (NWA1100-N 的預設 IP 位址)。



# 如果無法使用網路設定介面，請確認 NWA1100-N 與電腦的 IP 位址及子網路遮罩位於相同 IP 位址範圍之內。

4. 在 **Username** (使用者名稱) 欄位輸入 **admin** (預設使用者名稱)，在 **Password** (密碼) 欄位輸入 **1234** (預設密碼)。按一下 **Login** (登入)。



5. 變更登入密碼，只要輸入新密碼再按一下 **Apply** (套用) 即可。務必將新密碼記下並保存在安全之處。



# 如果變更密碼之後卻忘記新密碼，就需要重新設定 NWA1100-N。請參閱《使用手冊》，了解如何使用 **RESET** (重設) 按鈕。

6. 出現 STATUS (狀態) 畫面。

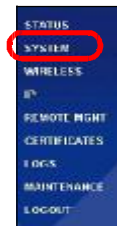


## 設置 NWA1100-N

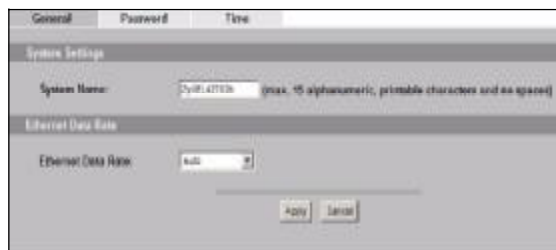
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### 設置系統設定

1. 在導覽面板中點選 **SYSTEM** (系統)。



2. 出現 **SYSTEM > General** (系統 > 一般) 畫面。



- **System Name** (系統名稱) 用以在網路上辨識 NWA1100-N。選擇一個獨特名稱，或保留預設名稱。
- 您可以在 **Ethernet Data Rate** (乙太網路資料速率) 欄位設定乙太網路埠的速率和雙工模式。若不確定，請選取 **Auto** (自動)。

3. 按一下 **Apply** (套用)。

## 設置無線設定

1. 在導覽面板中按一下 **WIRELESS** (無線網路)。出現以下畫面。顯示 **Wireless Settings** (無線設定) 畫面。為無線網路進行基本設定。

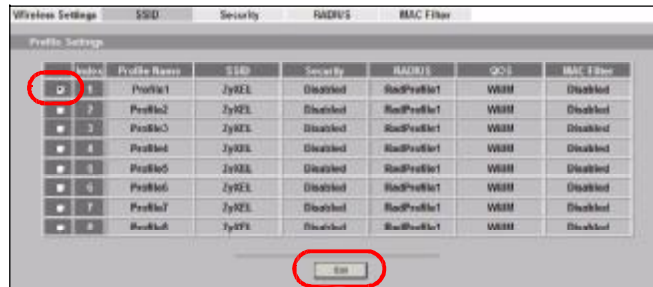


無線用戶端與 NWA1100-N 必須使用相同的 SSID、頻道 ID 及加密設定，才能進行無線通訊。

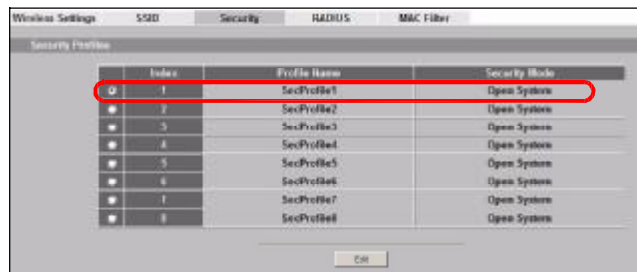
- **Operating Mode** (作業模式)：確定已經選取 **Access Point** (基地台) 模式。
- **Wireless Mode** (無線模式)：選取您希望網路使用的無線標準。若不確定如何選擇，請選取 **802.11b/g/n**。
- **SSID Profile** (SSID 設定檔)：從下拉式清單方塊選取您的網路服務要設定的 SSID 設定組合。
- **Channel** (選擇頻道)：選取您希望網路使用的無線頻道。
- **Channel Width** (通道頻寬)：選取您要使用的通道頻寬。若不確定，請選取 **20/40 MHz**。

2. 按一下 **Apply** (套用) 儲存您的設定。

3. 按一下 **SSID** 標籤。如果您要進行 SSID 設定組合的進階設定 (例如變更設定組合名稱、SSID 或安全措施)，請選取該 SSID 再按一下 **Edit** (編輯)。



4. 按一下 **Security** (安全措施) 標籤。選取您要設定的設定組合，再按一下 **Edit** (編輯)。



5. 出現選取的安全設定組合編輯畫面。如果不設定無線網路安全措施，任何人都可以接取您的網路。

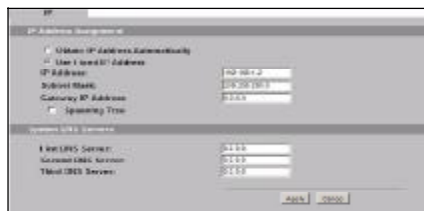


- 您可以在此輸入無線網路的安全設定。系統會根據您在 **Security Mode** (安全模式) 欄位選取的安全措施，變更要填入的欄位。如果您不想使用無線安全措施，請選取 **None** (無)。
- 本範例使用 **WPA2-PSK** 安全措施，在此安全措施下，所有無線用戶端必須使用相同的預先共用金鑰加入網路。
- 確定所有無線用戶端都支援您設定的安全類型。作業完成之後，按一下 **Apply** (套用)。

# 如果無線用戶端無法與網路通訊，請確定用戶端使用的無線安全設定與 NWA1100-N 相同。

## 設置 IP 設定

1. 您需要將 NWA1100-N 的 IP 位址設定為與您的網路位在相同子網路。按一下導覽面板中的 **IP**。



- 如果您要讓網路上的 DHCP 伺服器為 NWA1100-N 配置 IP 位址，請選取 **Obtain IP Address Automatically** (自動取得 IP 位址)。
- 如果已有預定要使用的特定 IP 位址，請選取 **Use Fixed IP Address** (使用固定 IP 位址)，並輸入該 IP 位址以及子網路遮罩和閘道 IP 位址。
- 如果您的 ISP 有提供特定 DNS (網域名稱系統) 設定，請在 **System DNS Servers** (使用者定義) 區位輸入設定。如果沒有，請保留欄位的預設值。
- 按一下 **Apply** (套用)。NWA1100-N 現在使用的是新 IP 設定；您無法再使用預設 IP 位址連接至 NWA1100-N。

如果變更 NWA1100-N 的 IP 位址，則下次使用網頁設定介面時必須使用新的 IP 位址。如果選取 **Obtain IP Address Automatically** (自動取得 IP 位址)，請檢查您的 DHCP 伺服器，確定其配置給 NWA1100-N 的 IP 位址。請參閱 DHCP 伺服器的說明文件，取得詳細資訊。

2. 如果您變更了電腦 IP 位址，請將其恢復成原先設定。
3. 變更無線站台的無線參數設定，使之與 NWA1100-N 的無線參數設定相符。請參閱無線網路配接器的使用說明。  
NWA1100-N 現已準備就緒，可以連接至交換器或路由器。您可以立即進行此項作業，或是等安裝天線掛載 NWA1100-N 之後再進行。

# 如果 NWA1100-N 無法與網路通訊，請確定 NWA1100-N 使用的 IP 位址與交換器/路由器位於相同的子網路。



## 安裝硬體

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### 安裝天線

將天線順時鐘旋入天線連接器。兩側天線應相互平行並與地面垂直。

確認天線已確實旋入天線連接器。



### 硬體安裝

一般而言，無線網路基地台最好的放置地點是無線網路覆蓋區域的中央。若要使 NWA1100-N 發揮較佳效能，請將它安裝在高處沒有障礙物的地方。

#### 壁掛式安裝

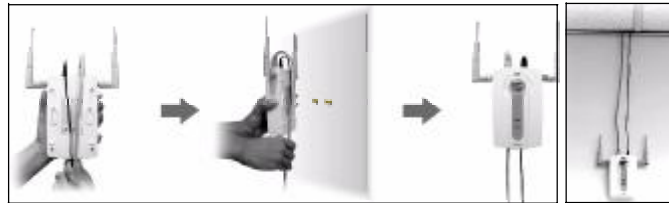
依照以下步驟將 NWA1100-N 固定在牆面上。

1. 在該位置鎖上兩支螺絲釘（非隨附），兩者距離須相隔 60 mm。請使用螺絲頭直徑在 6mm ~ 8mm (0.24" ~ 0.31") 之間的螺絲釘。不要把螺絲釘全部旋入牆中，螺絲頭與牆面之間須留一小段空隙，此空隙必須足以讓螺絲頭放進螺絲槽，並讓連接纜線可從 NWA1100-N 背面拉出。

確認螺絲釘已確實固定在牆上，可支撐 NWA1100-N 和連接纜線的全部重量。








2. 調整纜線。

將連接纜線從 NWA1100-N 背面拉出，如下圖所示。  
或：  
將連接纜線往上拉沿著天花板邊緣繞行。



3. 使 NWA1100-N 背面的孔洞對齊牆面上的螺絲釘。將 NWA1100-N 掛在螺絲釘上。



ENGLISH	DEUTSCH	ESPAÑOL	FRANÇAIS
<p><b>Green Product Declaration</b> RoHS Directive 2002/95/EC</p>  <p>WEEE Directive 2002/96/EC (WEEE Waste Electrical and Electronic Equipment) 2009/24/EC</p> <p>Declaration Signature: Name: Raymond Huang Title: Service Division Assistant VP Date: (YYYYMMDD) 2011/11/24</p>	<p><b>Green Product Declaration</b> RoHS Richtlijn 2002/95/EC</p>  <p>WEEE Richtlijn 2002/96/EC (WEEE Afgedankte Elektrische en Elektronische Apparaten) 2009/24/EC</p> <p>Underschrift des Erklärenden: Name: Raymond Huang Titel: Service Division Assistant VP Datum: (JJJJMMDD) 2011/11/24</p>	<p><b>Declaración de Producto Ecológico</b> Directiva RoHS 2002/95/EC</p>  <p>Directiva REEE 2002/96/EC (Residuos de Aparatos Eléctricos y Electrónicos) 2009/24/EC</p> <p>Firma de declaración: Nombre/Título: Raymond Huang Servicio: División Asistente VP Fecha (aaaa/mm/aa): 2011/11/24</p>	<p><b>Declaration de Produit Green</b> Directive RoHS 2002/95/EC</p>  <p>Directive DEEE 2002/96/EC (Déchets des Équipements Électriques et Électroniques) 2009/24/EC</p> <p>Signature de la déclaration: Nom/Titre: Raymond Huang Service: Division Assistant VP Date (aaaa/mm/aa): 2011/11/24</p>
ITALIANO	NEDERLANDS	SVENSKA	
<p><b>Dichiarazione Green Product</b> Direttiva RoHS 2002/95/CE</p>  <p>Dir. (RAEE) Relati a Apparecchiature Elettroniche ed Elettrodomestici 2002/95/CE</p> <p>Firma di dichiarazione: Nome/Titolo: Raymond Huang Qualità &amp; Customer Service Division Assistant VP Data (GG/MM/AAAA): 2011/11/24</p>	<p><b>Productmilieuverklaring</b> RoHS-richtlijn 2002/95/EC</p>  <p>ABEE-richtlijn 2002/96/EC (AEEA Afgedankte Elektrische en Elektronische Apparaten) 2009/24/EC</p> <p>Verklaringhandtekening: Naam/Titel: Raymond Huang Quality &amp; Customer Service Division Assistant VP Datum (GG/MM/AAAA): 2011/11/24</p>	<p><b>Miljödeklaration</b> RoHS Direktiv 2002/95/EEC</p>  <p>(WEEE Direktiv 2002/96/EEC (WEEE Hantering av elektriskt och elektroniskt avfall) 2009/24/EC</p> <p>Deklaration undertecknad av: Namn/Titel: Raymond Huang Quality &amp; Customer Service Division Assistant VP Datum (ÅÅÅÅ/MM/DD): 2011/11/24</p>	

# Legal Information

## Certifications

### Federal Communications Commission (FCC) Interference Statement

The device complies with Part 15 of FCC rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operations.

This device has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the FCC Rules. These limits are designed to

provide reasonable protection against harmful interference in a residential installation. This device 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 device does cause harmful interference to radio/television reception, which can be determined by turning the device 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 the 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/TV technician for help.



### FCC Radiation Exposure Statement

- This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
- IEEE 802.11b or 802.11g operation of this product in the U.S.A. is firmware-limited to channels 1 through 11.
- To comply with FCC RF exposure compliance requirements, a separation

**distance of at least 20 cm must be maintained between the antenna of this device and all persons.**

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.

## 注意！

依據 低功率電波輻射性電機管理辦法

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，指依電信規定作業之無線電信。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干擾。

本機限在不干擾合法電臺與不受被干擾保障條件下於室內使用。  
減少電磁波影響，請妥適使用。

### Viewing Certifications

- 1 Go to <http://www.zyxel.com>.
- 2 Select your product on the ZyXEL home page to go to that product's page.
- 3 Select the certification you wish to view from this page.