D-Link®

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User Manual

AC1750 Wi-Fi Range Extender

DAP-1720

Preface

D-Link reserves the right to revise this publication and to make changes in the content hereof without obligation to notify any person or organization of such revisions or changes.

Manual Revisions

Revision	Date	Description
1.00	June 1, 2017	• Initial release

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ErP Power Usage

This device is an Energy Related Product (ErP) with High Network Availability (HiNA), and automatically switches to a power-saving Network Standby mode within 1 minute of no packets being transmitted. It can also be turned off through a power switch to save energy when it is not needed.

Network Standby: 3.2 watts

Switched Off: 0.06 watts

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Package Contents

DAP-1720 AC1750 Wi-Fi Range Extender

Wi-Fi Configuration Card

Quick Installation Guide

If any of the above items are missing, please contact your reseller.

System Requirements

Network Requirements	• A wireless router with an active Internet connection. • IEEE 802.11ac, 802.11n, 802.11g, 802.11b, or 802.11a wireless clients/devices
Web-based Configuration Utility Requirements	**A Computer or Mobile Device with the following:** • Windows®, Apple® Mac OS®, or Linux-based operating system • Wireless adapter or Wi-Fi functionality • An Apple® iPhone®, iPod touch®, iPad®, or Android™ mobile device **Browser Requirements:** • Internet Explorer® 11 or later • Firefox® 20.0 or later • Safari® 6 or later • Google Chrome™ 28 or later

Introduction

The D-Link DAP-1720 AC1750 Wi-Fi Range Extender extends your Internet connection over a blazing-fast Gigabit Wireless AC connection of up to 1750 Mbps (Up to 1300 Mbps via 5 GHz Wireless AC and up to 450 Mbps via 2.4 GHz Wireless N)[1], by using advanced AC beamforming technology to maximize the speed and range of your wireless signal. The DAP-1720 connects with your existing networking equipment to extend the range and enhance the capabilities of your home or office network. This means you can bring Wi-Fi to places where your current signal doesn't reach, letting you move from room to room, office to office, floor to floor, or yard to yard without losing signal. Enjoy Wi-Fi on your porch, balcony, next to your pool, breakroom, the far end of your office, or in your basement. The DAP-1720 prepares your home to become a Connected Home by allowing you to install more wireless surveillance cameras, baby monitors, sensors, and alarms in the places where you want rather just where your old signal reached.

Featuring a 3x3 MIMO antenna configuration, the DAP-1720 offers better data rates, fewer dead-spots, more coverage, and higher reliability. Operating exclusively in the 5 GHz band, the DAP-1720's 802.11ac wireless connections avoid crowded 2.4 GHz band traffic, giving you faster speeds while still maintaining backwards compatibility with older 802.11n/g/b devices. The DAP-1720's superior design allows you to enjoy full motion, high definition video calls on your mobile device while moving around. Equipped with a Gigabit LAN/Internet port to provide speeds up to 10x faster than standard 10/100 ports, the DAP-1720 creates the best networking experience to date.

The DAP-1720 AC1750 Wi-Fi Range Extender features D-Link's Smart Signal LED technology, which makes finding the optimal location for your extender a cinch. With other range extenders, it is difficult or impossible to gauge how strong or weak the connection between an extender and an uplink network is, but the DAP-1720's Smart Signal LEDs eliminate the guesswork by giving you instant visual feedback so you can quickly test out multiple locations to find the best place for the DAP-1720.

Features

- **Superior Wireless Networking** - The DAP-1720 AC1750 Wi-Fi Range Extender lets you easily extend a secure wireless network with a press of a button. Connect the DAP-1720 to a router via Wi-Fi or Ethernet and share your high-speed Internet access in more places throughout your home or small office. The DAP-1720 provides Gigabit wireless speeds of up to a combined 1750 Mbps (1300 Mbps 802.11ac 5 GHz, plus 450 Mbps 802.11n 2.4 GHz)[1]. This capability rivals wired connections, allowing users to participate in real-time activities online, such as HD video communication, online gaming, and use mobile devices from anywhere in your home while still offering full 802.11n/g/b backward compatibility.
- **Simple Setup** - All it takes is a press of a button to connect compatible WPS devices to the DAP-1720. Its easy-to-use web interface lets you quickly and easily connect the DAP-1720 to an uplink router, configure the extended wireless network, and manage administrative settings. The setup wizard will even guide you through the setup process, getting your extended wireless network up and running in no time. Alternatively, connect an Ethernet cable to your existing network infrastructure to quickly and easily create a wireless network.
- **Latest Wireless Network Standards**- The DAP-1720 is fully compatible with the latest 802.11ac standard, but is also backwards compatible with IEEE 802.11n/g/b/a wireless devices, so you can use your existing devices without sacrificing performance.

1 Maximum wireless signal rate derived from IEEE Standard 802.11b, 802.11g, 802.11a, 802.11n, and 802.11ac specifications. Actual data throughput will vary. Network conditions and environmental factors, including volume of network traffic, building materials and construction, and network overhead, lower actual data throughput rate. Environmental conditions will adversely affect wireless signal range.

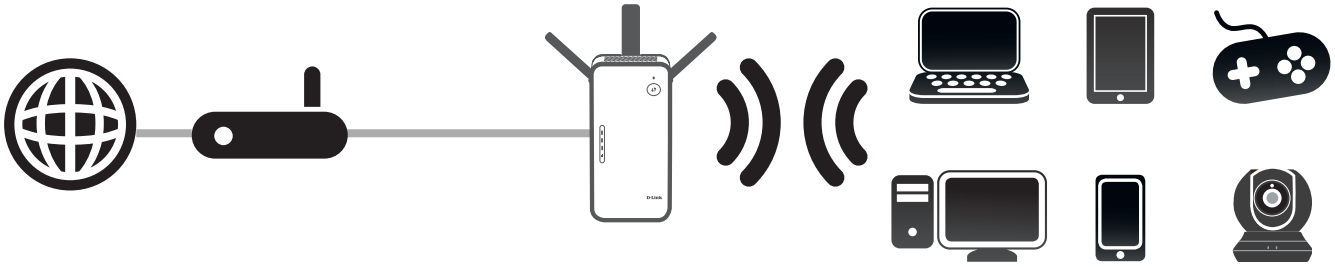
What is a Wireless Extender?

The DAP-1720 acts as a repeater to extend the range of an existing wireless network to provide a better signal for parts of your home or office that may have poor or no reception. The DAP-1720 will rebroadcast your existing wireless signal allowing you to reach the farthest corners of your home or office. The extended network can simply use the same network credentials as the existing network, or you can specify a different network name and password, giving you the flexibility to control network access. You may also use the DAP-1720 as a wireless access point by connecting an Ethernet cable.

Extend an Existing Wireless Network

Internet Router DAP-1720 Extender Wireless Devices

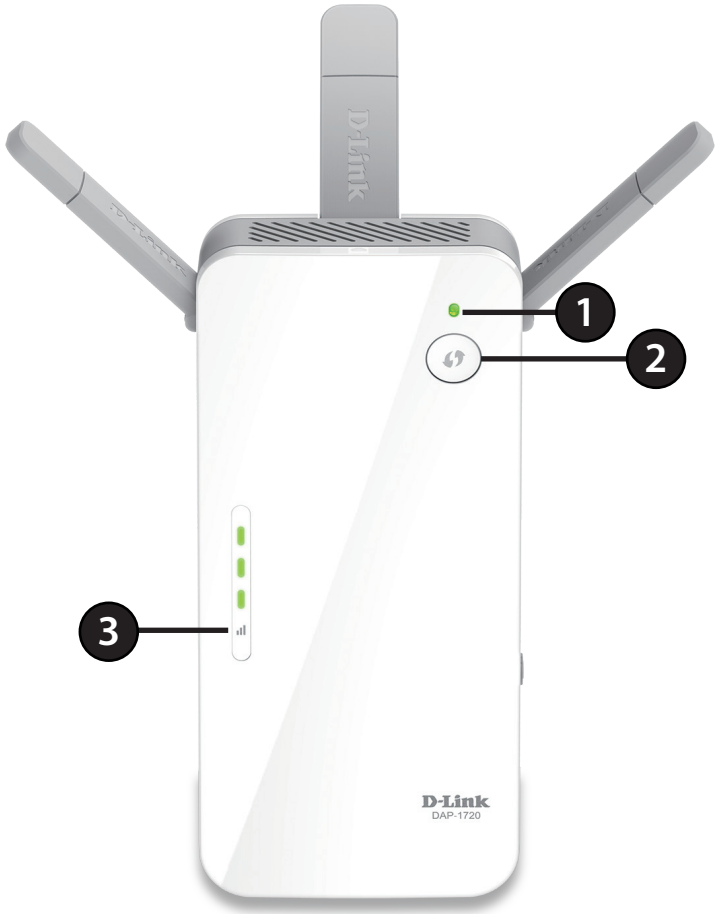
Create a new Wireless Network using Ethernet



Internet Router DAP-1720 Access Point Wireless Devices

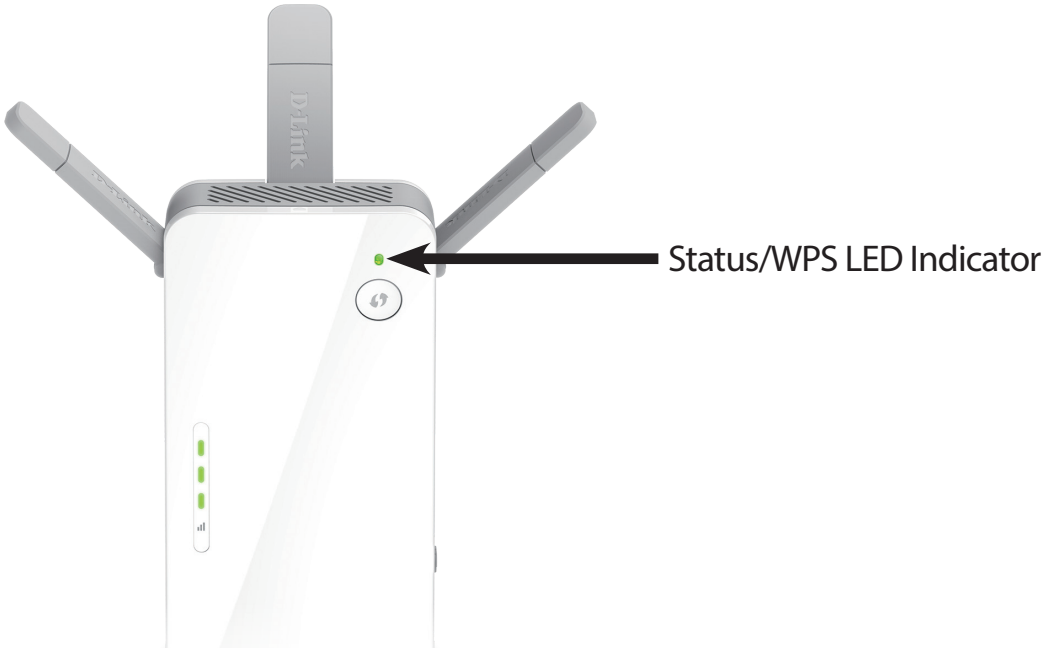
Hardware Overview

Front



1	**Status/WPS LED**	This LED indicates the current status of the DAP-1720, as detailed on the next page.
2	**WPS Button**	Press to establish a connection with another WPS compatible device. Refer to Using the WPS Button on page 44 for more information.
3	**Signal Indicator LED**	The more lit green bars on the Signal Indicator LED, the better the wireless signal to the host network. A single solid amber LED indicates a weak Wi-Fi signal.

Status/WPS LED Indicator



LED Indicator	Color	Status	Description
Power/Status	Green	Solid	The DAP-1720 is receiving power and connected to a host network.
		Blinking	WPS mode is active and ready to add a wireless device.
	Red	Solid	The DAP-1720 is booting or an error has occurred.
	Amber	Blinking	The DAP-1720 is not connected to a host network.
	None	Off	Device is not receiving power. Check power switch is in the **ON** position, then check the power outlet.

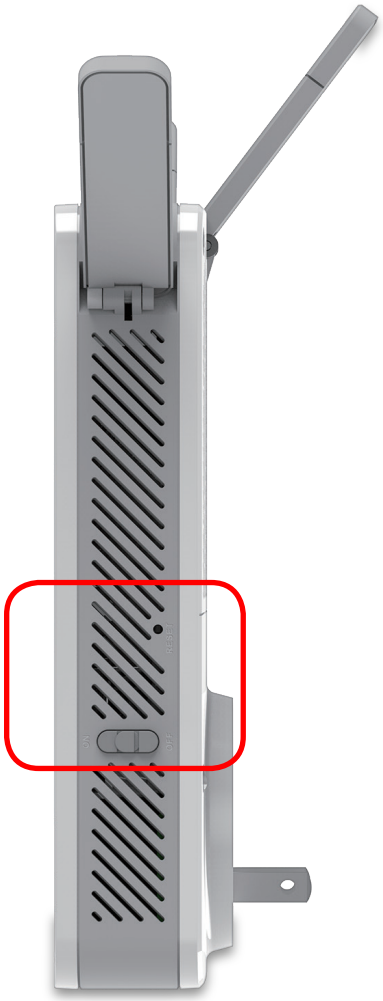
Hardware Overview

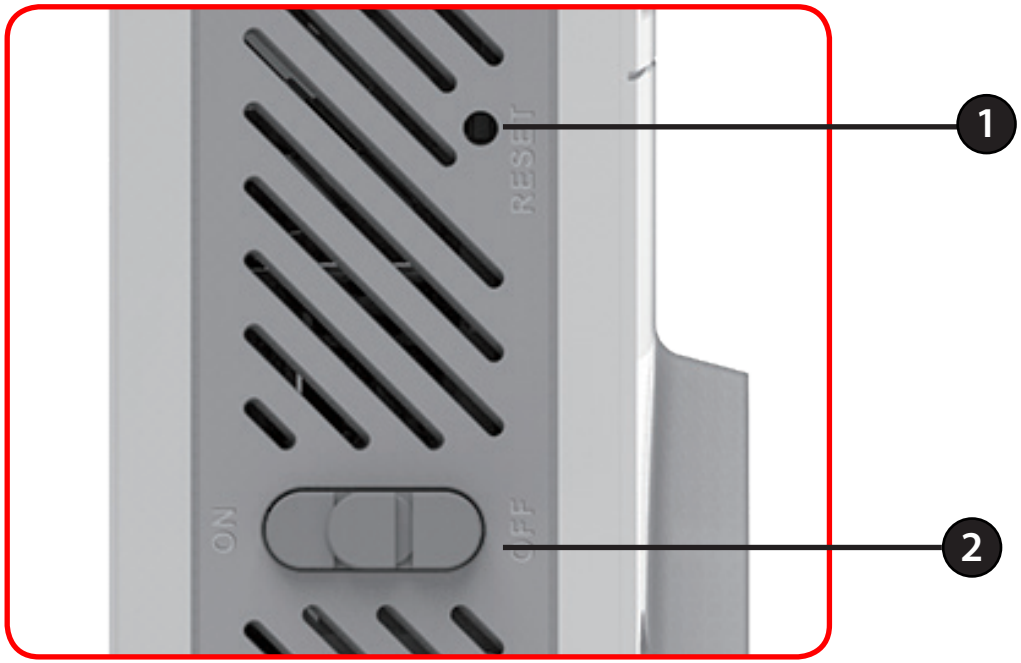
Right Side

1	**LAN Port**	Attach an Ethernet cable to either extend an existing wired network or convert a wireless network into a wired network.

Hardware Overview

Left Side



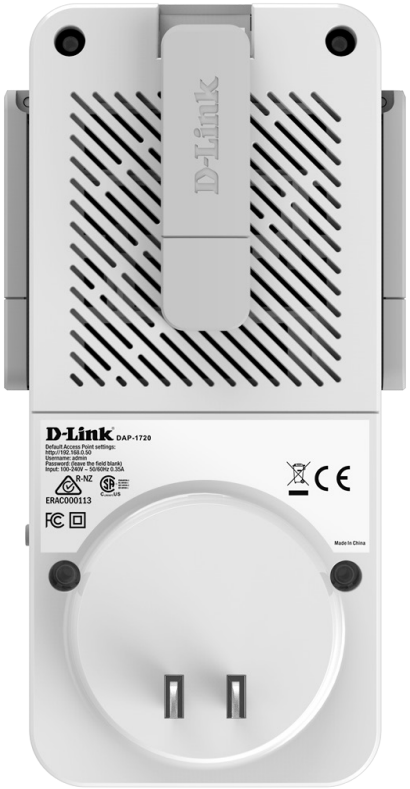


1	**Reset Button**	Press and hold the reset button on the side of DAP-1720 for 10 seconds to restore the factory default settings.
2	**Power Switch**	Use the power switch to power off the DAP-1720 when it will not be in use for an extended period of time. The factory default is **ON**.

Hardware Overview

Back

You may locate the wireless network name (SSID) and password for your DAP-1720. This information is printed on the label on the back of the device. You will need this information to connect your computer or mobile device to the default network (SSID) of your DAP-1720. This information is also provided on the included Wi-Fi configuration card.



Installation
Wireless Installation Considerations

The DAP-1720 lets you extend your existing wireless network's coverage as long as it is within range of the uplink network. Keep in mind that the DAP-1720's range may be limited by the number, thickness and location of walls, ceilings, or other objects that the wireless signals must pass through. Typical ranges vary depending on the types of materials and background radio frequency (RF) noise in your home or business. The key to maximizing wireless range is to follow these basic guidelines:

1. Keep the number of walls and ceilings between the DAP-1720 and other network devices to a minimum - each wall or ceiling can reduce your adapter's range from 1 to 30 meters (3 to 90 feet). Position your devices so that the number of walls or ceilings is minimized.

2. Be aware of the direct line between network devices. A wall that is 0.5 meters (1.5 feet thick), at a 45-degree angle appears to be almost 1 meter (1.5 feet) thick. At a 2-degree angle it looks over 14 meters (42 feet) thick! Position devices so that the signal will travel straight through a wall or ceiling (instead of at an angle) for better reception.

3. Building materials make a difference. A solid metal door or aluminum studs may have a negative effect on range. Try to position extenders, access points, wireless routers, and computers so that the signal passes through drywall or open doorways. Materials and objects such as glass, steel, metal, walls with insulation, water (fish tanks), mirrors, file cabinets, brick, and concrete will degrade your wireless signal.

4. Keep your product at least 1 to 2 meters (3 to 6 feet) away from electrical devices or appliances that generate RF noise.

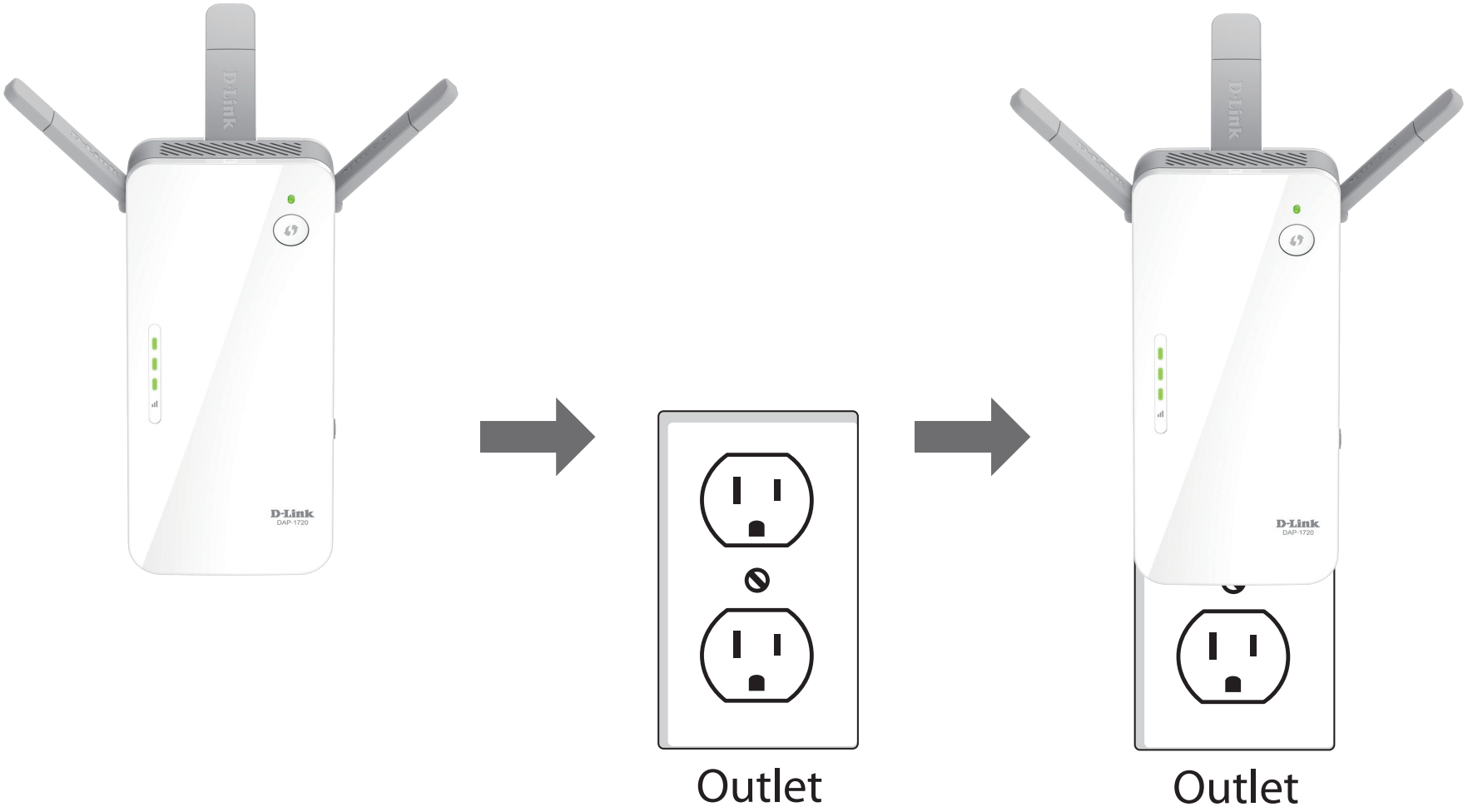
5. If you are using 2.4 GHz cordless phones or X-10 wireless products (such as ceiling fans, lights, and home security systems), your wireless connection may degrade dramatically or drop completely. Make sure your 2.4 GHz phone base is as far away from your wireless devices as possible. The base transmits a signal even if the phone is not in use.

Antenna Setup

The DAP-1720 is designed to give you the fastest, most stable network connection possible. In order to maximize performance, fully extend the antennas to provide optimal wireless coverage. Keep the extender in an open area for better wireless coverage.

Hardware Installation

Ensure the power switch on the bottom of the DAP-1720 is in the **ON** position, plug the DAP-1720 into a wall outlet, and wait until the Status/WPS LED is blinking amber.



Getting Started

There are several configuration tools you can use to set up your DAP-1720.

- **WPS** - To easily extend an existing wireless network, refer to WPS Configuration on page 15 for setup instructions.

- **QRS Mobile App** - You can use your Android device or iPhone, iPad, or iPod touch to configure your extender. Refer to QRS Mobile App Setup on page 17 for setup instructions.

- **D-Link Setup Wizard** - This wizard will launch when you log into the Extender's web configuration utility for the first time. Refer to Setup Wizard on page 19 for setup instructions.

- **Manual Configuration** - Advanced users who wish to manually set up the extender or adjust its settings may refer to Configuration on page 29 for more information.

WPS Configuration

Wireless Protected Setup (WPS) makes connecting your DAP-1720 easy. To use WPS, first make sure the source router or access point features a WPS Button or has a virtual WPS Button.

Step 1 - Initiate WPS Mode

While the Status/WPS LED is blinking amber, push the WPS button on the source wireless router or AP, and then push the WPS button on the DAP-1720. The Status/WPS LED will start to flash green. Please allow up to two minutes for the process to finish. The Status/WPS LED will turn solid green when the DAP-1720 has connected successfully to the source wireless router or access point.

Step 2 - Connecting Devices to the DAP-1720

The DAP-1720 is now ready to share the extended Wi-Fi network with your PCs and mobile devices. You may use the WPS method to connect devices to the extended network created by the DAP-1720 using the following network names (SSID). The password will be the same as the wireless network you are extending.

- **(Your router's SSID)-EXT**
- **(Your router's SSID)-EXT5Ghz**

When connecting to your extended network, you can choose to connect either to the 2.4 GHz or 5 Ghz extension. Note that 802.11ac speeds are only available over 5 Ghz.

Optimize Extender Location

The Status/WPS LED will turn solid green when the DAP-1720 has connected successfully to a wireless network and is extending that network. If the Smart Signal LED has a single amber bar after the connection process has finished, the DAP-1720 has established a poor quality connection. The more lit bars on the Signal Indicator LED, the better the wireless signal. To improve the connection quality, the DAP-1720 should be relocated closer to the source wireless router. If the extender has been configured as an Access Point and is connected via Ethernet cable to an uplink network, the Smart Signal LED will not be lit.

Poor Ok Good Best

QRS Mobile App Setup

The DAP-1720 can be set up from your iPhone, iPod touch, iPad, or Android smartphone or tablet device using the QRS Mobile app.

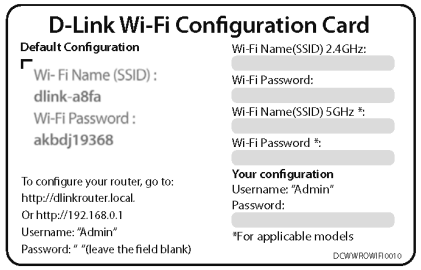
Note: The screenshots may be different depending on your mobile device's OS version.

Step 1
Search for the free **QRS Mobile** app on the Apple App Store or Google Play and install it.

Available on the App Store

GET IT ON Google play

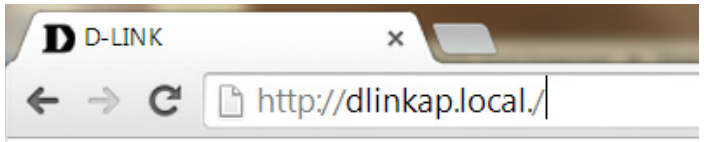
Step 2
Once your app is installed, connect your mobile device to the wireless network of your DAP-1720. You can find the Wi-Fi name(SSID) and password of your device on the included Wi-Fi Configuration Card.



Step 3
Once you are connected to the extender, launch the QRS Mobile app on your mobile device and follow the on-screen instructions.

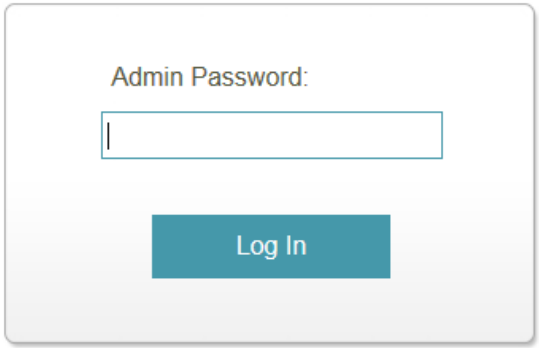
Web-based Setup

To access the setup utility for the DAP-1720 on your PC, first connect to the DAP-1720 wirelessly using the Wi-Fi name (SSID) and password located on your Wi-Fi Configuration Card. Then open a web browser and enter **http://dlinkap.local./** in your browser's URL field. You may also enter the IP address* of the DAP-1720. The default IP address is 192.168.0.50. Once your DAP-1720 connects to the host network, it will be assigned a new IP address based on your network's DHCP settings. You will need to log in to your router to see what IP address is assigned to your DAP-1720.



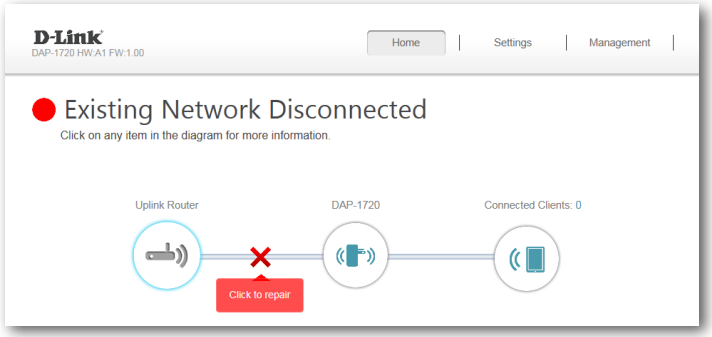
For multiple DAP-1720s, go to **http://dlinkapxxxx.local.** as shown on the included Wi-Fi Configuration Card, with "xxxx" being the last four digits of the DAP-1720's MAC address.

Note: Web browser configuration is not supported for Android devices. Please use the QRS Mobile Application to configure your device.



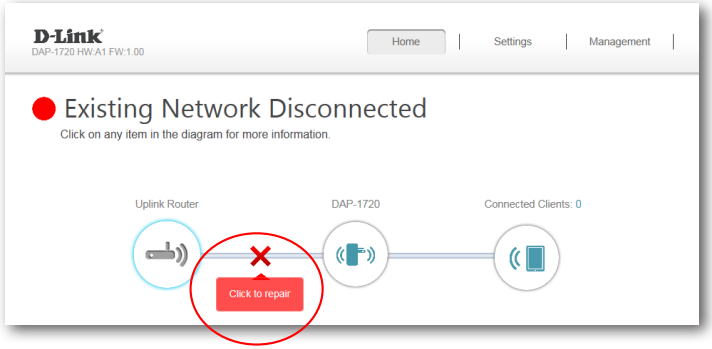
Enter your password. By default, Admin is the username and cannot be changed, and by default, the password is blank.

The configuration interface will open, and you can configure the various settings for the DAP-1720. If you have not yet configured an uplink network, the home screen will show that there is no connection between the DAP-1720 and the uplink router.



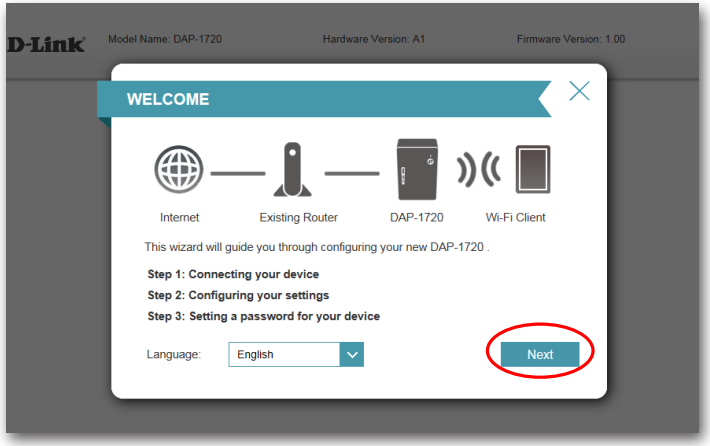
Setup Wizard

If this is your first time logging in to the extender and no connection has been established, the setup wizard will automatically appear.



In the future, if you wish to set up your extender using the setup wizard, click the **Click to repair** button (available if the up;ink router cannot be reached) or perform a manual reset.

The setup wizard is designed to guide you through a step-by-step process to configure your DAP-1720 AC1750 Wi-Fi Range Extender to extend your wireless network and connect to the Internet.



The steps are:

Step 1: Connecting Your Device

Step 2: Configuring Your Settings

Step 3: Setting a Password for Your Device

Click **Next** to begin.

Connecting Your Device via WPS

After clicking the **Next** button from the previous step, the DAP-1720 will automatically initiate a Wireless Protected Setup - Push Button Control (WPS-PBC) search to find an uplink network to extend. If your existing wireless networking device has a physical or virtual WPS button, press or enable it within the 120 seconds allotted by the countdown timer.

If you do not wish to use WPS or your existing networking device does not have a WPS feature, select one of the alternative configuration options:

Extend an existing network, see page 22 for more information or

Add wireless to your wired network, see page 25 for further setup information.

Once the 120 second timer has elapsed, proceed to the next page.

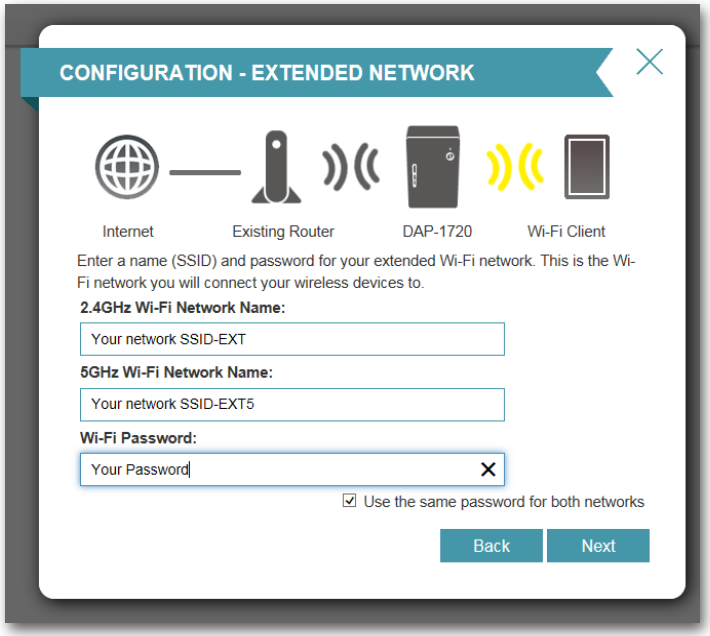
WPS Successful

If a WPS connection is successfully established, you will be prompted to configure your extension network settings. The current network names and passwords will be displayed.

You will be prompted to individually configure both the 2.4 and 5 Ghz Extender SSIDs. Note that 802.11ac speeds are only available over 5 Ghz. To change these names or configure advanced settings, refer to **Extender Settings** on page 33.

Please be sure to note any changes you make as these credentials will be required for wireless clients wishing to join your network.

Click **Next** to proceed to **Configure Administrator Password** and refer to page 27 for more information, or click **Back** to return to the previous step.



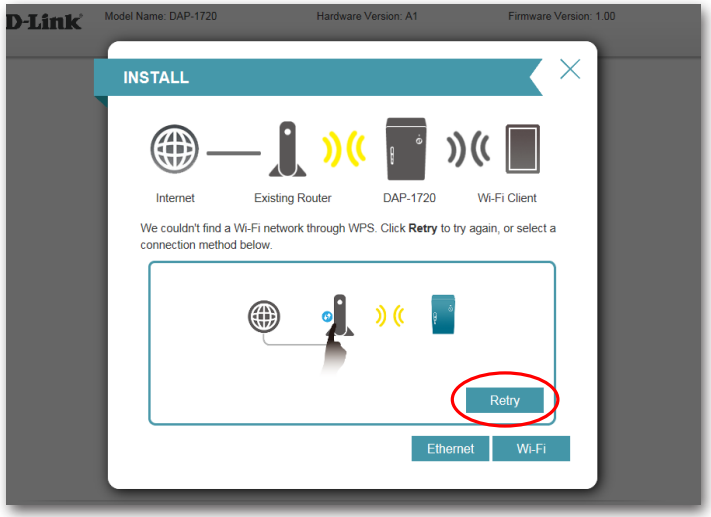
*Wireless network names and passwords are shown as examples only.

WPS Unsuccessful

If the WPS countdown timer expires, and no connection to an uplink wireless network could be established, you may press the **Retry** button to attempt the process again, or if you do not wish to use WPS ,or are having difficulty using the WPS feature, you can try using one of these alternative configuration options:

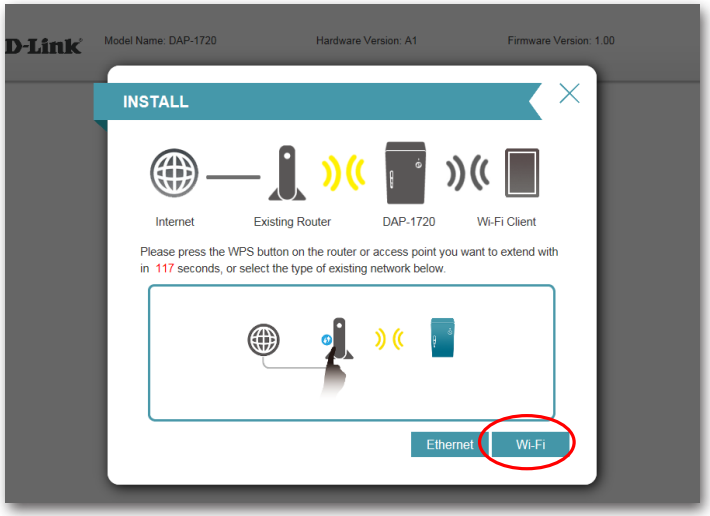
Wi-Fi, to extend an existing wireless network. See page 22 for more information or

Ethernet, to add wireless to an existing wired network. See page 25 for further setup information.



Extend an Existing Wireless Network

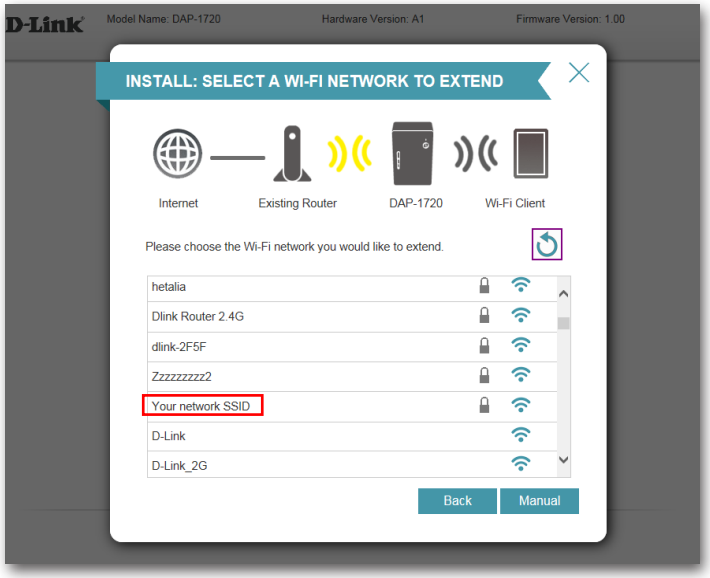
To set up your network manually, select **Wi-Fi** from the setup wizard menu.



The DAP-1720 will scan for available wireless networks and display a list of results. You may choose one of the following options to proceed:

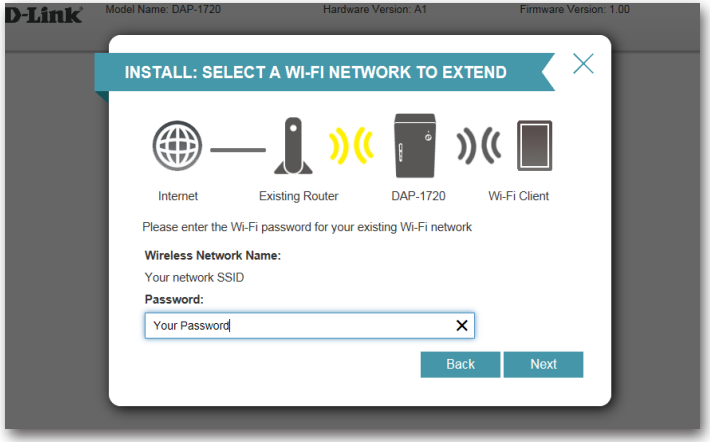
- If the wireless network you wish to extend was detected by the scan, click on the network to select it. The extender will automatically forward you to the next step.
- If the network you would like to extend was not detected by the scan, click the **Manual** button.

Note: If the wireless network you would like to extend to was not detected by the scan, your DAP-1720 might be out of range and you may need to reposition the extender closer to the uplink router.



If the wireless network you wish to extend was detected by the scan, enter its password now.

Click **Next** to continue on to configure your extension network settings, or click **Back** to return to the previous step.



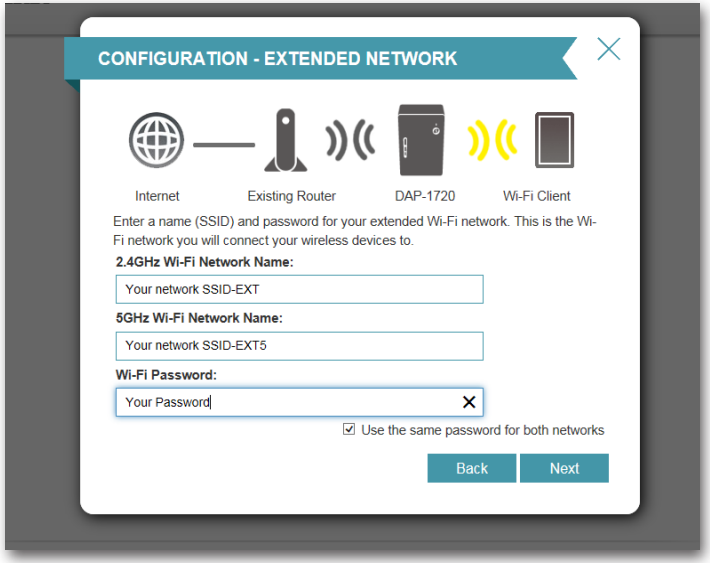
If you chose **Manual** , enter the Wireless Network Name, type of Security, and Password of the existing Wi-Fi network you wish to connect to.

Click **Next** to continue on to configure your extension network settings, or click **Back** to return to the previous step.

If a connection is successfully established, you will be prompted to configure your extension network settings. The current network names and passwords will be displayed. The 2.4 and 5 GHz networks must be configured with separate names, but may use the same password.

Please be sure to note these SSIDs and passwords as these credentials will be required for wireless clients wishing to join your network.

Click **Next** to proceed to **Configure Administrator Password** and refer to page 27 for more information, or click **Back** to return to the previous step.

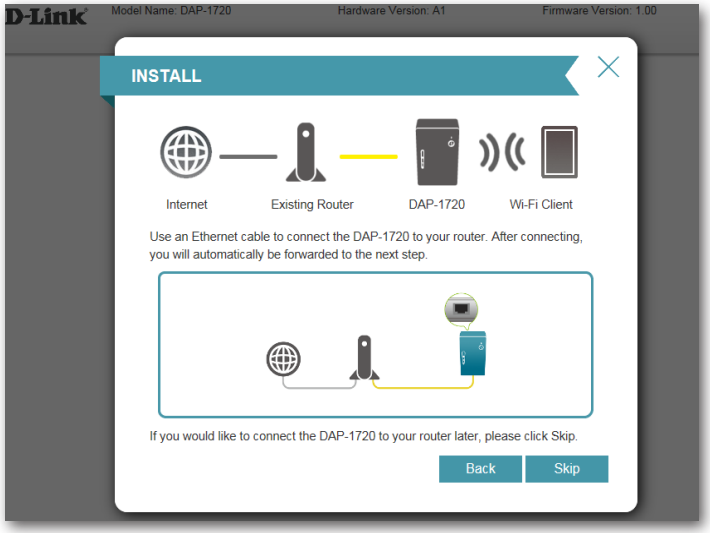


*Wireless network names and passwords are shown for example only.

Add Wireless to an Existing Wired Network

This portion of the setup wizard will guide you through adding a wireless network to an existing wired network. Click **Ethernet** to proceed.

Connect an Ethernet cable to your DAP-1720 to be automatically be forwarded to the next step. To proceed with the installation without connecting an Ethernet cable, click **Skip**.

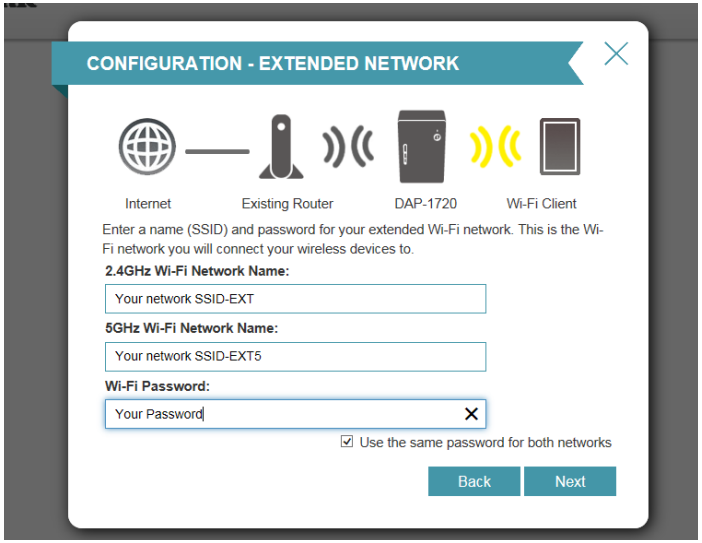


If a connection is successfully established, you will be prompted to configure your wireless network settings. The current network names and passwords will be displayed.

The 2.4 and 5 GHz networks must be configured with separate names, but may use the same password.

Please be sure to note any changes you make as these credentials will be required for wireless clients wishing to join your network.

Click **Next** to proceed to **Configure Administrator Password** and refer to page 27 for more information, or click **Back** to return to the previous step.

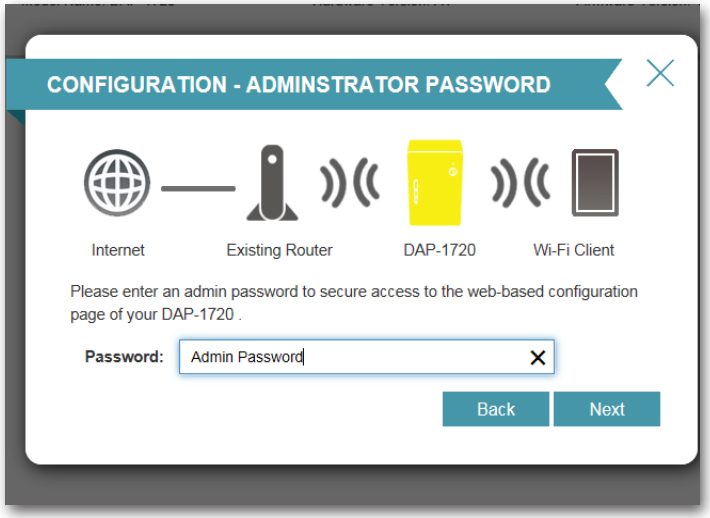


*Wireless network names and passwords are shown for example only.

Configure Administrator Password

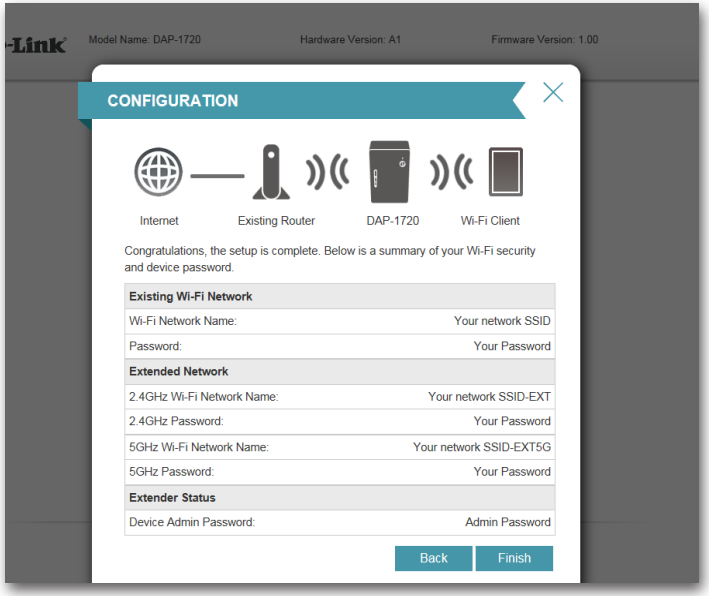
In order to secure the extender's web configuration utility, please enter a new password. You will be prompted for this password each time you want to use the extender's web configuration utility.

Click **Next** to continue.



Save Your Configuration

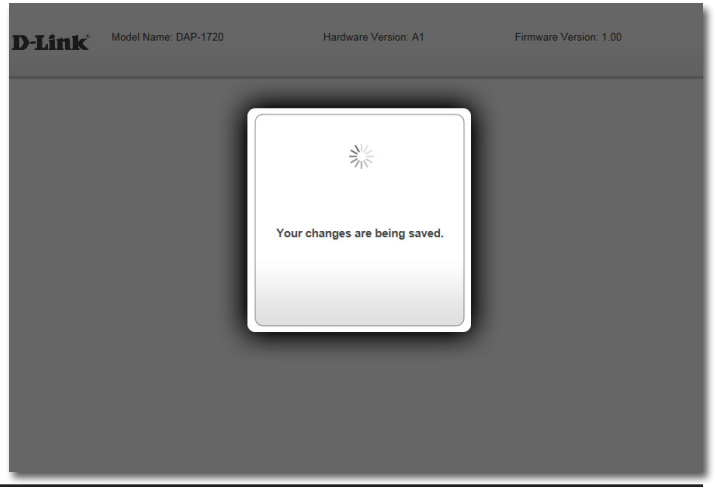
At the end of the wizard, you will be presented with a final summary of your settings. It is recommended that you record this information for future reference. Click **Finish** to close the setup wizard.



*Wireless network names and passwords are shown for example only.

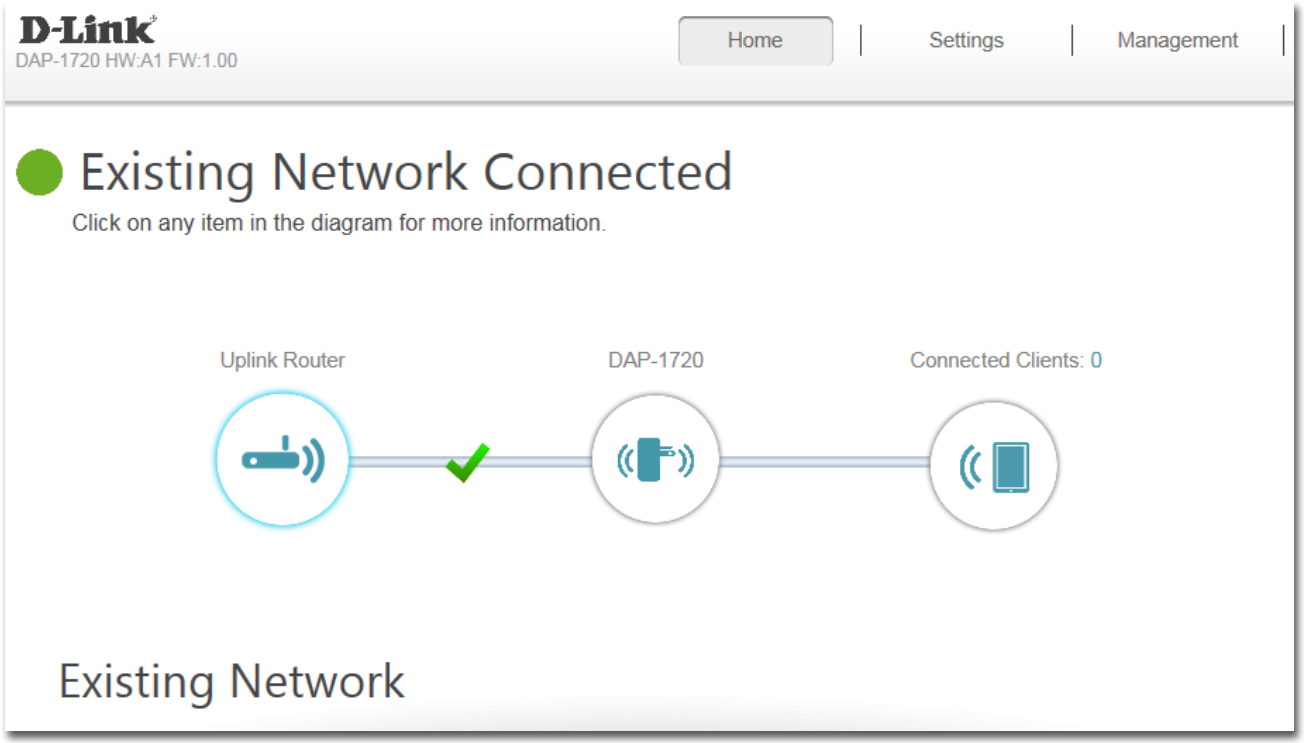
Your changes will be saved and the extender will automatically reboot.

Devices may be connected to the new wireless extended network once the extender successfully reboots.



Configuration
Home

The home screen gives a summary of the current status of devices connected to the DAP-1720. A green check between the device and the uplink router indicates that they are connected. A red 'x' indicates that there is a connection error. In that case the **Click to repair** button will appear, which will start the setup wizard.



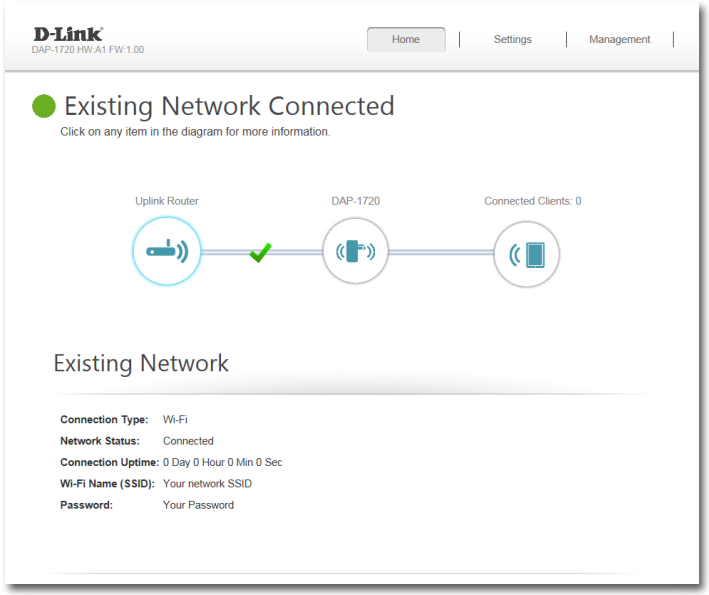
Uplink Router: This icon shows the status of the connection to the uplink router. It is grey if the DAP-1720 is not connected to an uplink router. Once connected, click on it to see its connection details.

DAP-1720: Click on this icon to see details of the uplink network the DAP-1720 is connected to. or connect to another uplink router.

Connected Clients: Click on this icon to see client details.

Uplink Router

Upon clicking the Uplink Router icon, you will see the connection type, network status, connection up time, network name (SSID), and password.

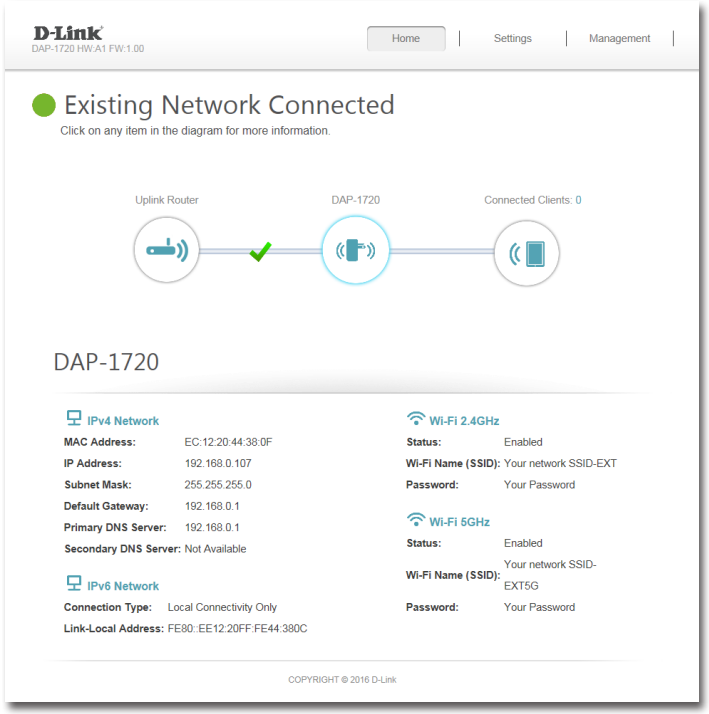


DAP-1720

To view the DAP-1720's Network and Wi-Fi information, click on the **DAP-1720** icon. Your **Network** and **Extended Wi-Fi Network** settings are displayed at the bottom of the page.

Your Extender's MAC, IPv4, subnet mask, default gateway, and DNS Server addresses are displayed. To change the Network settings, refer to page 36.

Your Extender's extended Wi-Fi network name and password are also displayed. To change the extended Wi-Fi network settings, refer to page 33.



Connected Clients

Click on the **Connected Clients** icon to view details about the extender and its wireless settings.

On this page, you can see all the clients currently connected to the extender, along with their MAC and IP addresses.

If you change the name of a client, save your changes by clicking **Save**.

Settings
Extender Settings

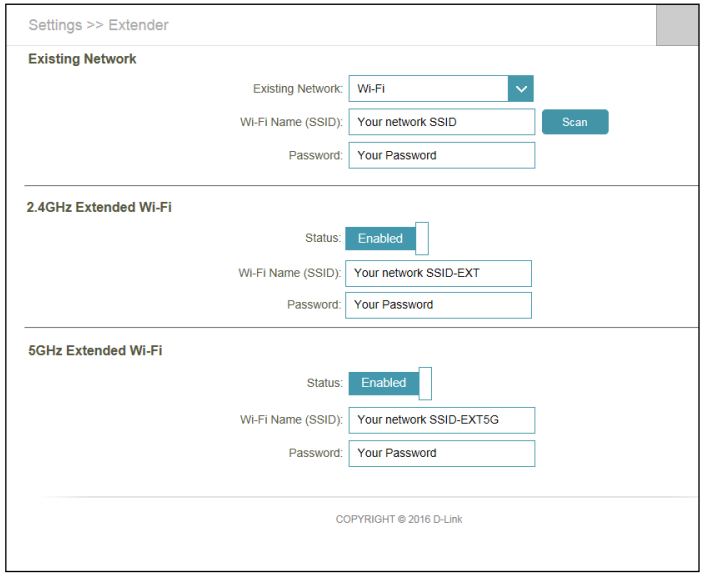
This page lets you configure the settings for the DAP-1720's extended wireless network. To access this page, click the **Settings** drop-down menu at the top of the page, and select Extender. Click **Save** to apply the settings and return to the home page.

Existing Network

Existing Network: Select whether you want to connect the DAP-1720 to an existing **Ethernet** or **Wi-Fi** network.

Wi-Fi name (SSID): If you have selected **Wi-Fi** you will prompted to either enter the SSID manually, or you can scan by clicking the Scan button and selecting an SSID from the list.

Password: Enter the password or network key of the uplink router.



2.4 GHz Extended Wi-Fi

Status: Enable or disable this network by toggling this slider.

Wi-Fi Name (SSID): This is the name of the DAP-1720's 2.4 GHz extended network. If using **Wi-Fi**, the DAP-1720 will rebroadcast the uplink router's network under this SSID. You may also manually set the SSID of the extended network.

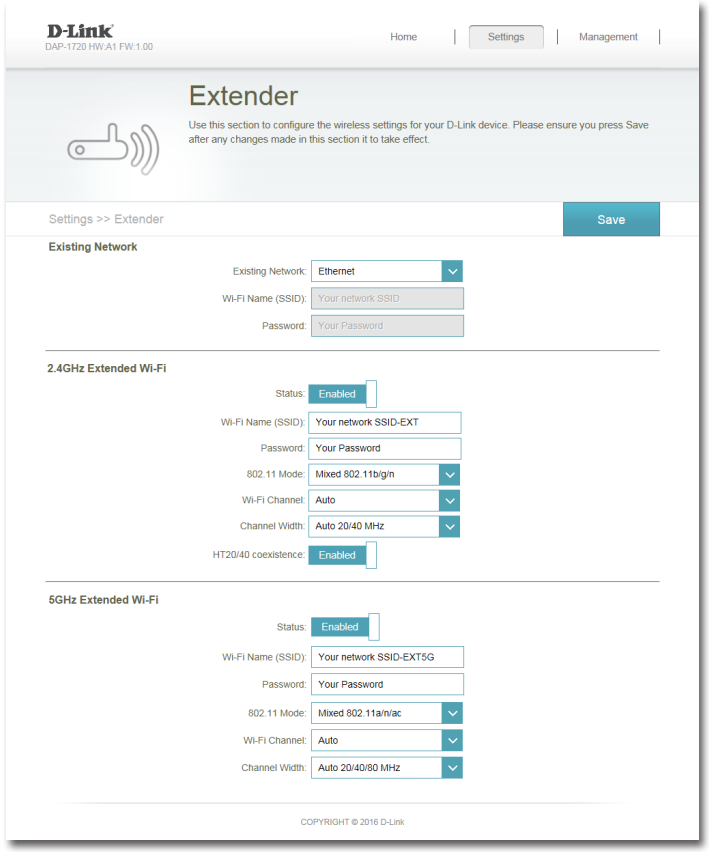
Password: Enter the password or network key that you wish to use for the extended network.

Note: If you have selected Ethernet as the existing network, you can configure the following additional settings. For pre-existing Wi-Fi networks, these settings are automatically configured for optimal performance with you existing network.

Wi-Fi Channel: Select **Auto** or manually specify a channel for use with this network.

Channel Width: Select **Auto 20/40** or **20 MHz** for the bandwidth you wish this network to use.

HT20/40 Coexistence: Enable or disable HT20/40 coexistence by toggling the slider.



5 GHz Extended Wi-Fi

Status: Enable or disable this network by toggling this slider.

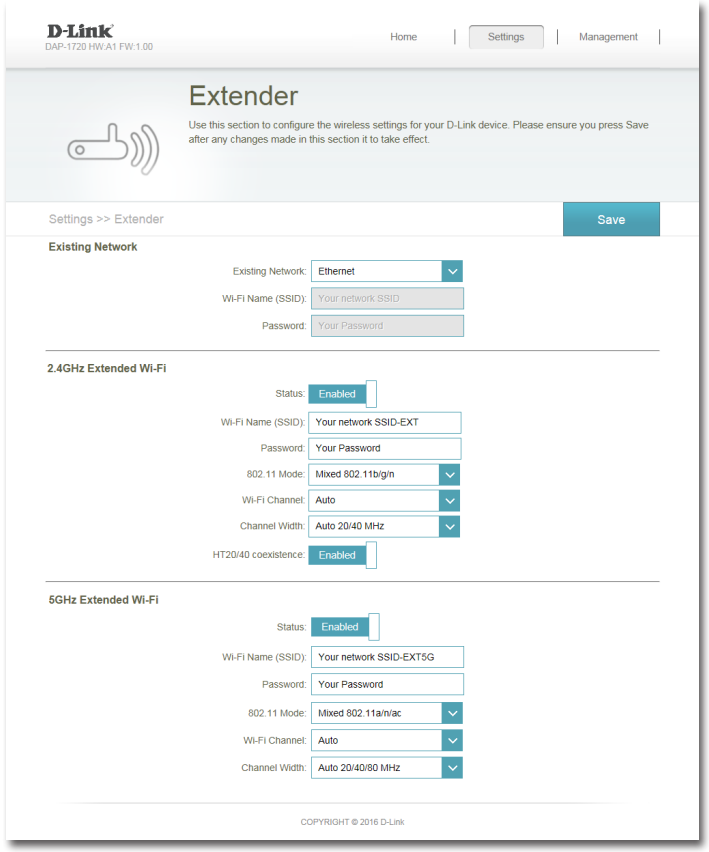
Wi-Fi Name (SSID): This is the name of the DAP-1720's 5 GHz extended network. If using **Wi-Fi**, the DAP-1720 will rebroadcast the uplink router's network under this SSID. You may also manually set the SSID of the extended network.

Password: Enter the password or network key that you wish to use for the extended network.

Note: If you have selected Ethernet as the existing network, you can configure the following additional settings. For pre-existing Wi-Fi networks, these settings are automatically configured for optimal performance with you existing network.

Wi-Fi Channel: Select **Auto** or manually specify a channel for use with this network.

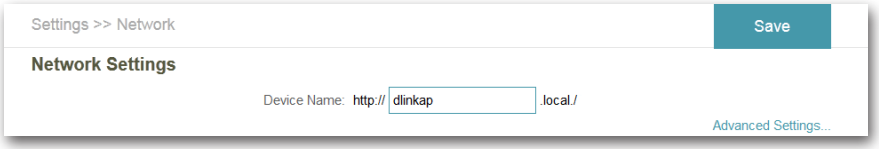
Channel Width: Select **Auto 20/40** or **Auto 20/40/80 MHz** for the bandwidth you wish this network to use.



Network Settings

This page lets you configure the network settings for the DAP-1720. To access this page, click the **Settings** drop-down menu at the top of the page, then select **Network**. Click **Save** at any time to save the changes you have made on this page.

Management Link: You can change the URL name of the device by editing the text in the text box. If you change the name of the device, you will need to enter **http://xxxx.local./** (where "xxxx" corresponds to the name of the device) in the address bar of your web browser in order to access the configuration utility.



Advanced Settings

The Advanced Settings section of the Network Settings page allows you to configure both IPv4 and IPv6 settings that will be used by the DAP-1720's extended network.

IPv4 Device Management Interface

My LAN Connection is: Here you can select whether you want the IP to have a **Dynamic IP (DHCP)** or **Static IP** address. If you select Dynamic IP, the options below will not be available.

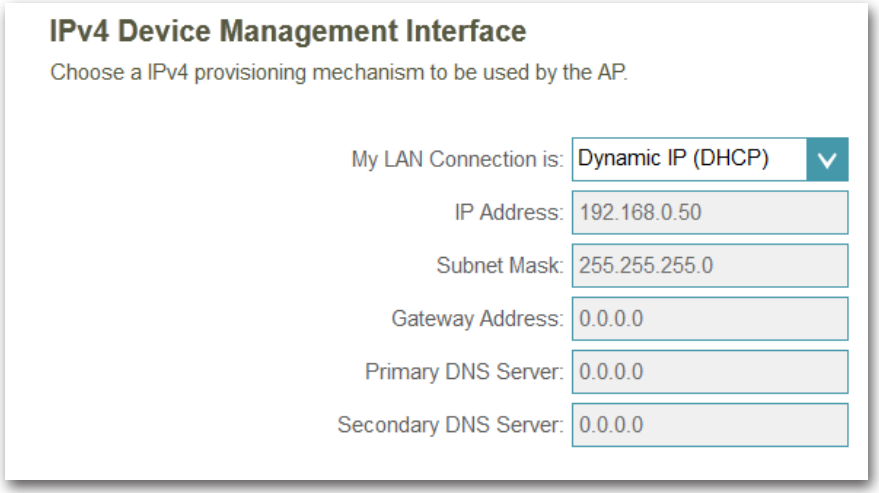
IP Address: Enter the Static IP address that you want to assign to the extended network. This address should be outside of the uplink router's DHCP address pool.

Subnet Mask: Enter the subnet mask.

Gateway Address: Enter the gateway address. This is usually the IP address of the uplink router.

Primary DNS Server: Enter the address of the primary DNS server.

Secondary DNS Server: Enter the address of the secondary DNS server. This is optional but will provide backup if the primary server fails.



Advanced Settings (Continued)
Autoconfiguration (SLAAC/DHCPv6)

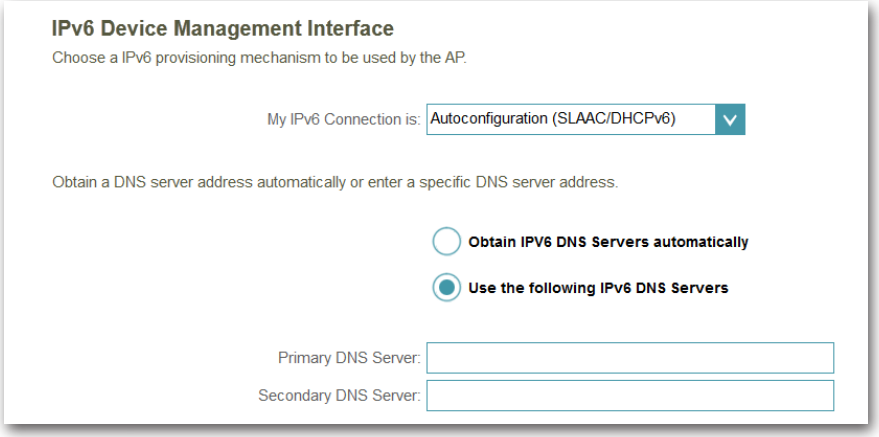
IPv6 Device Management Interface:

My IPv6 Connection is: Select **Autoconfiguration (SLAAC/DHCPv6)** to have the DAP-1720 automatically receive an IPv6 address from the uplink router.

Obtain IPv6 DNS Servers Automatically: You can select to obtain IPv6 DNS server information automatically, or you can select to configure DNS servers manually by clicking on the radio dial next to the option.

Primary DNS Server: For manual settings, enter the primary IPv6 DNS server address.

Secondary DNS Server: For manual settings, enter the secondary IPv6 DNS server address. This is optional but will provide backup if the primary server fails.



Advanced Settings (Continued)
Static IPv6

IPv6 Device Management Interface

My IPv6 Connection is: Select **Static IPv6** to manually assign an IP address to the DAP-1720.

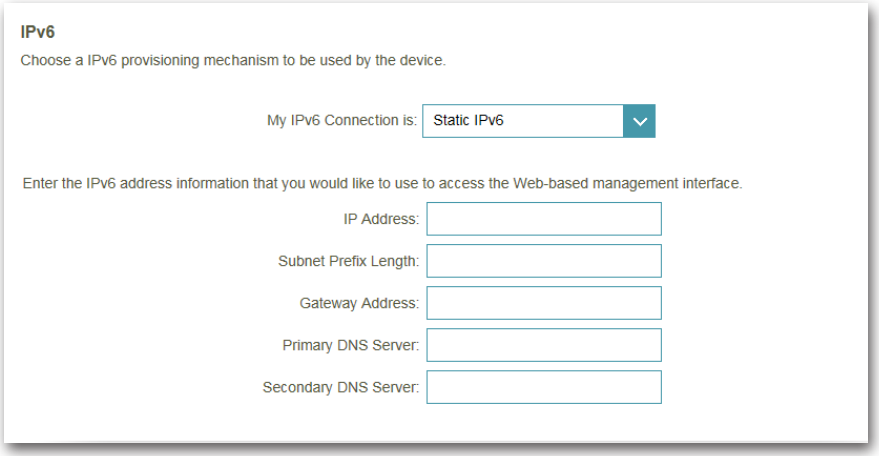
IPv6 Address: Enter the IPv6 address that you want to assign to the extended network. This address should be outside of the uplink router's DHCP address pool.

Subnet Prefix Length: Enter the length of the IPv6 subnet prefix.

Gateway Address: Enter the default gateway.

Primary DNS Server: Enter the primary IPv6 DNS server address.

Secondary DNS Server: Enter the secondary IPv6 DNS server address. This is optional but will provide backup if the primary server fails.



Advanced Setting (Continued)
Local Connectivity Only

IPv6 Device Management Interface

My IPv6 Connection is: Select **Local Connectivity only** to only set an IPv6 address for the local network.

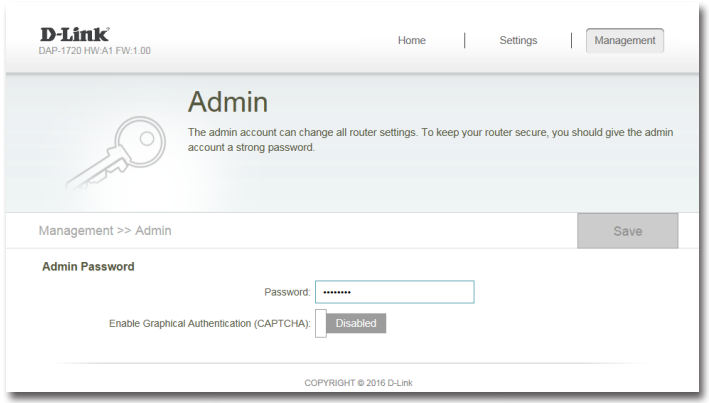
LAN IPv6 Link-Local Address: This will show link-local address of the DAP-1720.

Management
Admin

This page will allow you to set a new password for the administrator account used to configure the DAP-1720. You can also enable graphical authentication (CAPTCHA) on this page. To access this page, click the **Management** drop down menu at the top of the page, and select **Admin**. Click **Save** at any time to save the changes you have made on this page.

Admin Password: To change the Admin password, enter a new password here.

Enable Graphical Authentication: Click on the slider to enable graphical authentication, or CAPTCHA. This provides an extra layer of security by requiring you to enter a code that is displayed on-screen. This can help prevent unauthorized users from gaining access to your wireless network using automated methods.



Note: The device will reboot after saving the changes in order for the password to take effect.

System

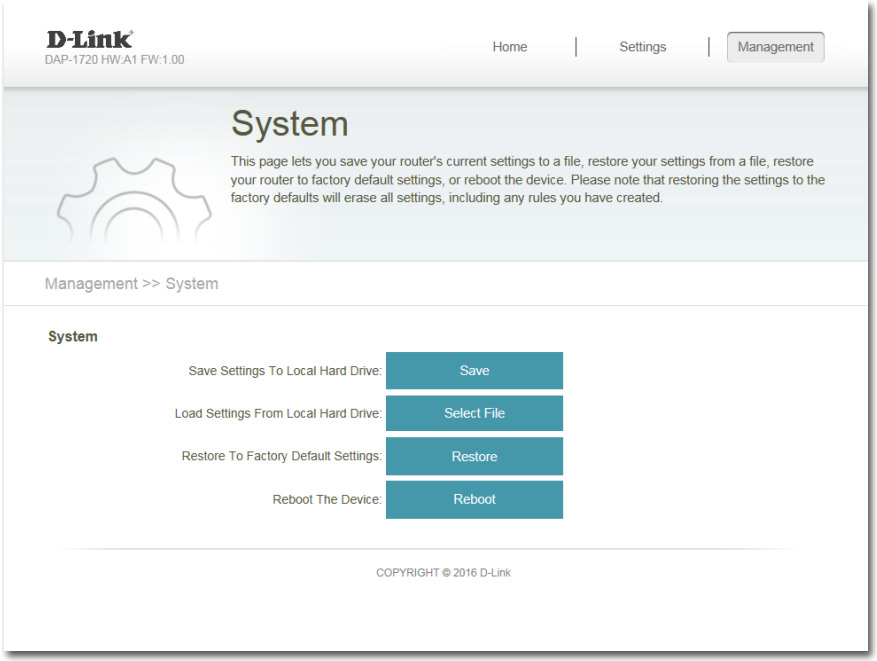
This page allows you to save or restore your system configuration, reset, or reboot the DAP-1720. To access this page, click the **Management** drop down menu at the top of the page, and select **System**. Click **Save** at any time to save the changes you have made on this page.

Save Settings To Local Hard Drive: Click the **Save** button to save the system settings to a file to the local hard drive. You will then see a file dialog where you can select a location and enter a file name for the configuration file.

Load Settings From Local Hard Drive: Click the **Load** button to load the system settings from a previously saved file on the local hard drive.

Restore to Factory Default Settings: Click the **Restore** button to restore the system settings to factory default settings. This will erase all currently stored settings.

Reboot the Device: Click **Reboot** to reboot the DAP-1720.



Upgrade

Firmware and language upgrades may be provided for the DAP-1720 in the future. You can check and upgrade your firmware and language pack on this page. To access this page, click the **Management** drop-down menu at the top of the page, and select **Upgrade**. Click **Save** at any time to save the changes you have made on this page.

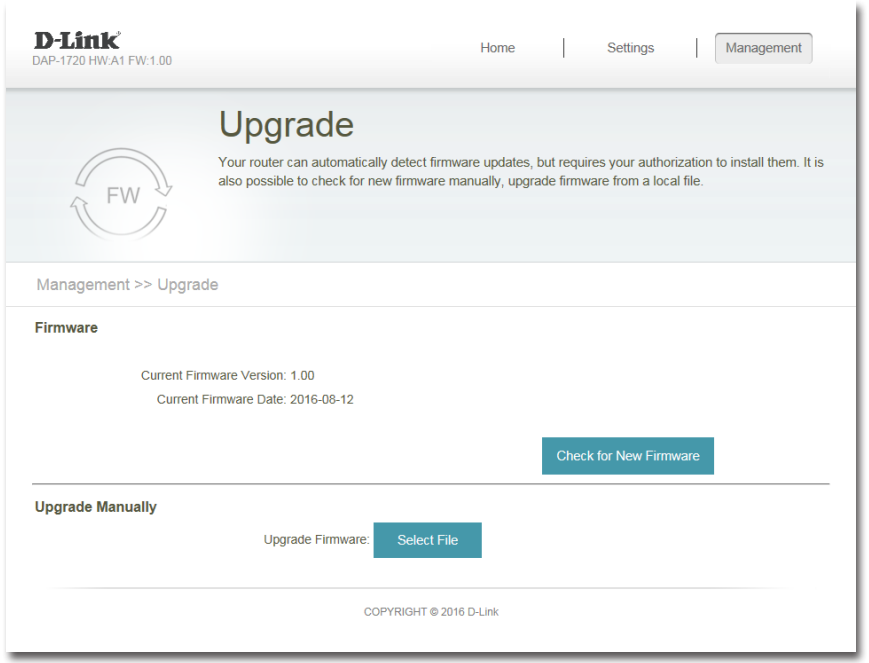
Firmware Information

Firmware Information: This section displays the currently installed firmware version, as well as the date on which the current firmware version was released.

Click **Check For New Firmware** to find out if there is new or updated firmware. If there is, you can download it to your computer.

Upgrade Manually

Upgrade Firmware: Click **Select File** to locate the firmware file on your computer and perform a manual firmware upgrade.



Statistics

This page displays details about your wireless and network connections. To access this page, click the **Management** drop- down menu at the top of the page, and select **Statistics**. Click **Clear** to reset the statistics.

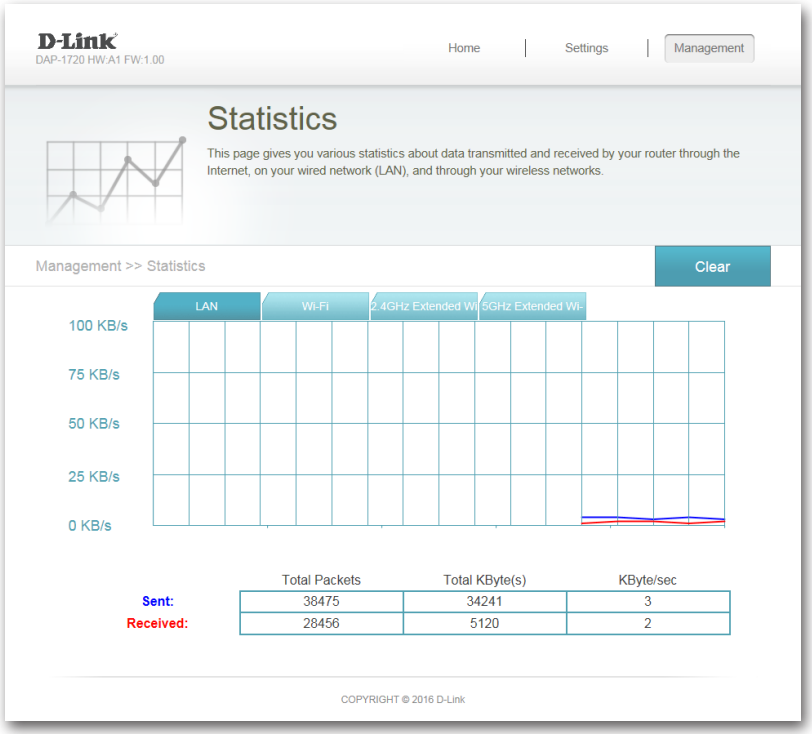
Statistics Tabs

Click on the each tab to see traffic information about each of the DAP-1720's interfaces.

The Blue line indicates the upload speeds and the red line indicates the download speeds.

The table displays the following in real-time:

- Total Packets
- Total Byte(s)
- Total Kbit(s)
- Kbits/sec



Connecting Wireless Clients to the Extended Network

Using the WPS Button

Once an uplink network has been established, you may use the DAP-1720's WPS function to add additional wireless clients to your extended network. Many wireless devices such as wireless routers, media players, printers, and cameras will have a WPS button (or a software utility with WPS) that you can press to connect to the DAP-1720. Please refer to the user manual for the wireless device you want to connect to make sure you understand how to enable WPS, then follow the steps below:

Step 1: Press the WPS button on the DAP-1720 for about 1 second. The LED on the device will start to blink. You can also use the WPS option in the setup wizard section of the web interface.

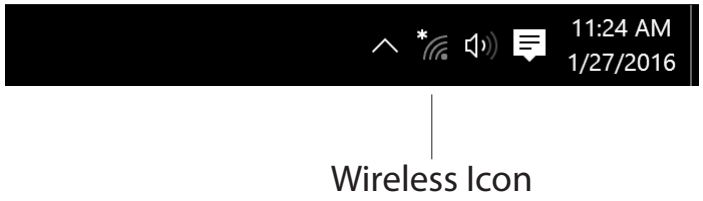
Step 2: Within 120 seconds, press the WPS button on your wireless device.

Step 3: Once the LED light stops blinking and turns solid green, you will be connected and your wireless connection will be secured with WPA2.

Connecting to a Wireless Network
Windows® 10

To connect to a wireless network using Windows 10, you will need to know the wireless network name (SSID) and Wi-Fi password (security key) of the device you are connecting to.

To join an existing network, locate the wireless network icon in the taskbar, next to the time display and click on it.

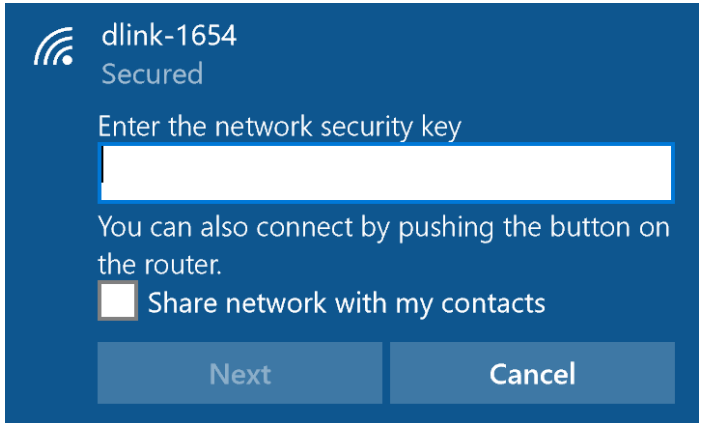


Clicking on this icon will display a list of wireless networks which are within range of your computer. Select the desired network by clicking on its SSID.

To connect to the network, click **Connect.**

To automatically connect when your device is in range, click the **Connect Automatically** check box**.** Your computer will now automatically connect to this wireless network whenever it is detected.

You will then be prompted to enter the Wi-Fi password (network security key) for the wireless network. Enter the password into the box and click **Next** to connect to the network.



You can also use Wi-Fi Protected Setup (WPS) to connect to the wireless network. Press the WPS button on your device and you will be automatically connected.

It may take 20-30 seconds to connect to the wireless network. If the connection fails, please verify that the security settings are correct. The key or passphrase must be exactly the same as the one on the wireless router.

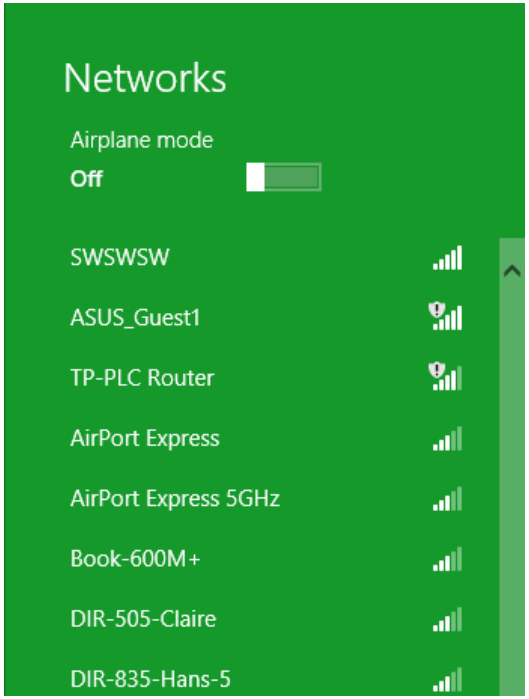
Windows® 8
WPA/WPA2

It is recommended to enable wireless security (WPA/WPA2) on your wireless router or extender before configuring your wireless adapter. If you are joining an existing network, you will need to know the security key (Wi-Fi password) being used.

To join an existing network, locate the wireless network icon in the taskbar, next to the time display.

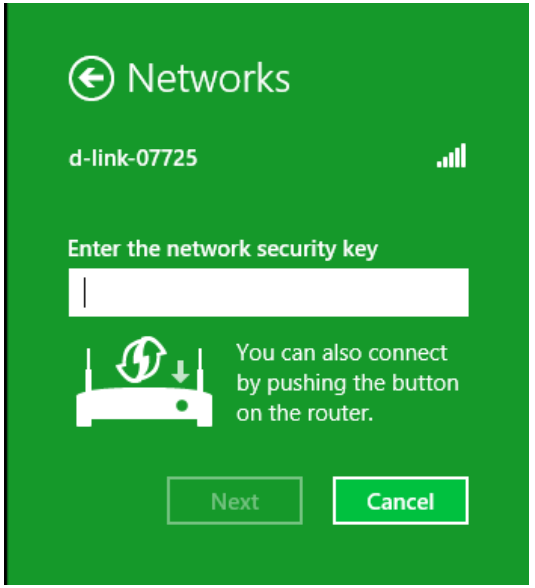
Wireless Icon

Clicking on this icon will display a list of wireless networks which are within connecting proximity of your computer. Select the desired network by clicking on the network name.

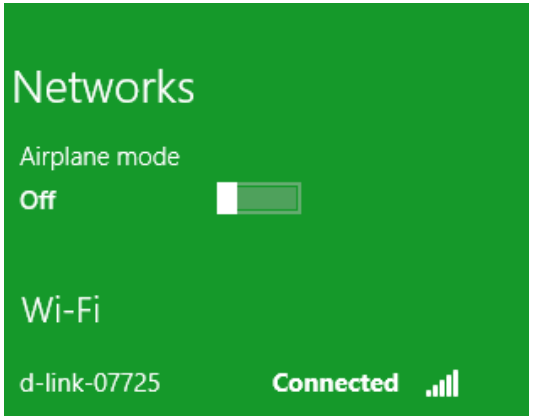


You will then be prompted to enter the network security key (Wi-Fi password) for the wireless network. Enter the password into the box and click **Next**.

If you wish to use Wi-Fi Protected Setup (WPS) to connect to the router, you can also press the WPS button on your router at this point to enable the WPS function.



When you have established a successful connection with a wireless network, the word **Connected** will appear next to the name of the network to which you are connected.



Windows® 7
WPA/WPA2

It is recommended to enable wireless security (WPA/WPA2) on your wireless router or extender before configuring your wireless adapter. If you are joining an existing network, you will need to know the security key or passphrase being used.

1. Click on the wireless icon in your system tray (lower-right corner).

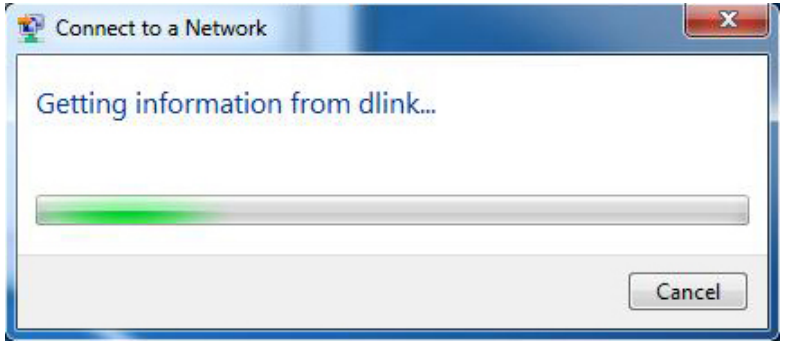
Wireless Icon

2. The utility will display any available wireless networks in your area.

3. Highlight the wireless network (SSID) you would like to connect to and click the **Connect** button.

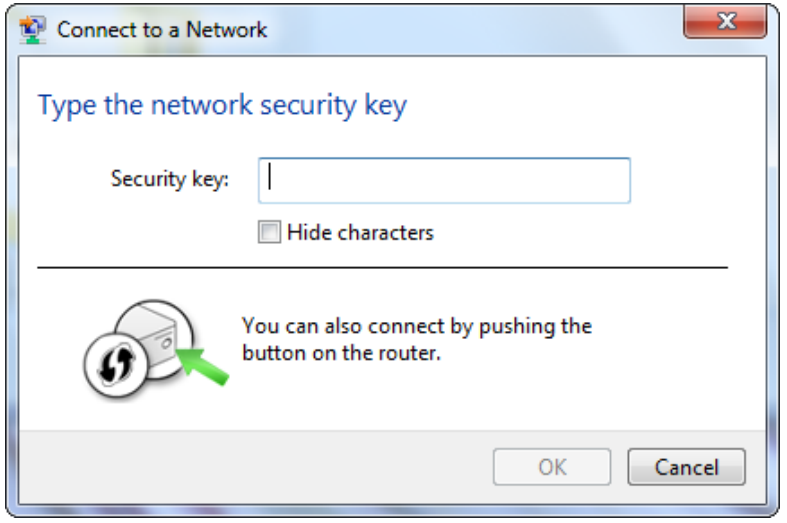
   If you get a good signal but cannot access the Internet, check your TCP/IP settings for your wireless adapter. Refer to the Wireless Basics section in this manual for more information.

4. The following window appears while your computer tries to connect to the router.



5. Enter the same security key or passphrase that is on your router and click **Connect**.

It may take 20-30 seconds to connect to the wireless network. If the connection fails, please verify that the security settings are correct. The key or passphrase must be exactly the same as on the wireless router.



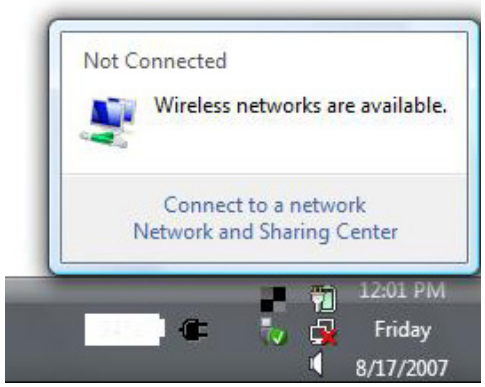
Windows Vista®

Windows Vista® users may use the built-in wireless utility. If you are using another company's utility or Windows® 2000, please refer to the user manual of your wireless adapter for help with connecting to a wireless network. Most utilities will have a "site survey" option similar to the Windows Vista® utility as seen below.

If you receive the "Wireless Networks Are Available" bubble, click on the center of the bubble to access the utility.

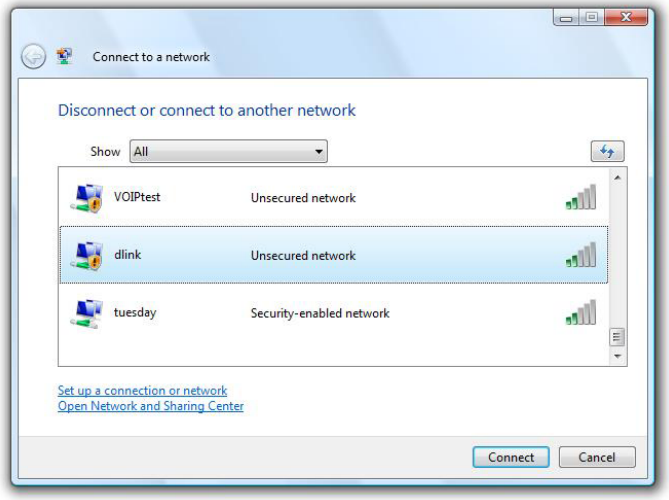
or

Right-click on the wireless computer icon in your system tray (lower-right corner next to the time). Select **Connect to a network**.



The utility will display any available wireless networks in your area. Click on a network (displayed using the SSID) and click **Connect**.

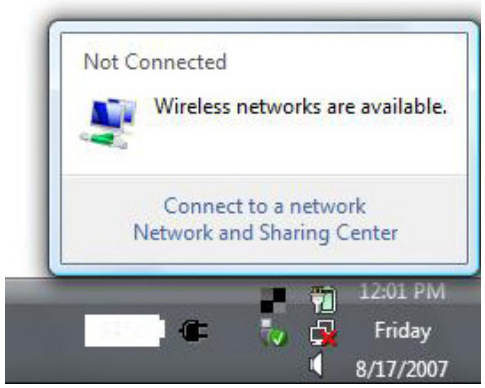
If you get a good signal but cannot access the Internet, check the TCP/IP settings for your wireless adapter. Refer to Troubleshooting on page 55 for more information.



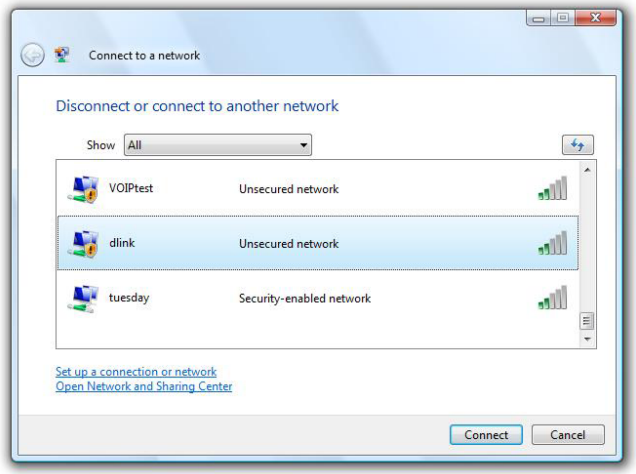
WPA/WPA2

It is recommended to enable wireless security (WPA/WPA2) on your wireless router or extender before configuring your wireless adapter. If you are joining an existing network, you will need to know the security key or passphrase being used.

1. Open the Windows Vista® Wireless Utility by right-clicking on the wireless computer icon in your system tray (lower right corner of screen). Select **Connect to a network**.



2. Highlight the wireless network (SSID) you would like to connect to and click **Connect**.



3. Enter the same security key or passphrase that is on your router and click **Connect**.

It may take 20-30 seconds to connect to the wireless network. If the connection fails, please verify that the security settings are correct. The key or passphrase must be exactly the same as on the wireless router.

Troubleshooting

This chapter provides solutions to problems that can occur during the installation and operation of the DAP-1720. Read the following descriptions if you are having problems. The examples below are illustrated in Windows® XP. If you have a different operating system, the screenshots on your computer will look similar to the following examples.

1. Why can't I access the web-based configuration utility?

When entering the IP address of the AC1750 Wi-Fi Range Extender (dlinkap.local for example), you are not connecting to a website nor do you have to be connected to the Internet. The device has the utility built-in to a ROM chip in the device itself. Your computer must be on the same IP subnet to connect to the web-based utility.

- Make sure you have an updated Java-enabled web browser. We recommend the following:
  - Internet Explorer 11 or later
  - Firefox 20.0 or later
  - Safari 6 or later
  - Google Chrome 28.0 or later
- Make sure that you are connected to the same wireless network which is listed on the back of the DAP-1720. If you have an active wired LAN Ethernet connection, try temporarily unplugging the Ethernet cable from the computer you are using, as this may eliminate possible conflicts from having two simultaneous connections on the same computer.
- Disable any Internet security software running on the computer. Software firewalls such as ZoneAlarm, BlackICE, Sygate, Norton Personal Firewall, and Windows® XP firewall may block access to the configuration pages. Check the help files included with your firewall software for more information on disabling or configuring it.

- Configure your Internet settings:
    - Go to **Start** > **Settings** > **Control Panel**. Double-click the **Internet Options** Icon. From the **Security** tab, click the button to restore the settings to their defaults.
    - Click the **Connection** tab and set the dial-up option to Never Dial a Connection. Click the LAN Settings button. Make sure nothing is checked. Click **OK**.
    - Go to the **Advanced** tab and click the button to restore these settings to their defaults. Click **OK** three times.
    - Close your web browser (if open) and open it.
- Access the web management interface. Open your web browser and enter the address of your extender (**http://dlinkap.local**) in the address bar. This should open the login page for your web management. If the DAP-1720 is not connected to an uplink router, you can try accessing the web interface using the default IP address **http://192.168.0.50**.
- If you still cannot access the configuration, unplug the extender from the power outlet for at least 10 seconds and plug it back in. Wait about 30 seconds and try accessing the configuration. If you have multiple computers, try connecting using a different computer.

2. What can I do if I forget my password?

If you forget your password, you must reset your extender. Unfortunately this process will change all your settings back to the factory defaults.

To reset the extender, locate the reset button (hole) on the underside panel of the unit. With the extender powered on, use a paperclip to hold the button down for 10 seconds. Release the button and the extender will go through its reboot process (indicated by the LED turning red). Wait about 30 seconds to access the extender. The default IP address is **http://dlinkap.local**. When logging in, the username is **admin** and leave the password box empty.

Wireless Basics

D-Link wireless products are based on industry standards to provide easy-to-use and compatible high-speed wireless connectivity within your home, business or public access wireless networks. Strictly adhering to the IEEE standard, the D-Link wireless family of products will allow you to securely and conveniently access your network. You will be able to enjoy the freedom that wireless networking delivers.

A wireless local area network (WLAN) is a cellular computer network that transmits and receives data with radio signals instead of wires. Wireless LANs are used increasingly in both home and office environments, and public areas such as airports, coffee shops and universities. Innovative ways to utilize WLAN technology are helping people to work and communicate more efficiently. Increased mobility and the absence of cabling and other fixed infrastructure have proven to be beneficial for many users.

Wireless users can use the same applications they use on a wired network. Wireless adapters used on laptop and desktop systems support the same protocols as Ethernet adapter cards.

Under many circumstances, it may be desirable for mobile network devices to link to a conventional Ethernet LAN in order to use servers, printers or an Internet connection supplied through the wired LAN. A wireless router is a device used to provide this link.

Tips

Here are a few things to keep in mind when you are installing your AC1750 Wi-Fi Range Extender.

Centralize the extender's location
For best performance, make sure you place the extender in a centralized location within your desired usage area. Try to place the extender so that there are minimal obstructions between it and the uplink router. If possible, use an elevated power outlet, so the signal can be dispersed more easily. If you have a large home or usage area, you may need several extenders in order to achieve optimal coverage.

Eliminate Interference
Place home appliances such as cordless telephones, microwaves, and televisions as far away as possible from the extender. This can significantly reduce any interference that the appliances might cause since they operate on same frequency.

Security
Don't let your neighbors or intruders connect to your wireless network. Secure your wireless network by utilizing the WPA or WEP security feature on the extender and uplink router. Refer to the relevant sections of this manual for further details.

Technical Specifications

Standards
- IEEE 802.11ac
- IEEE 802.11a
- IEEE 802.11n
- IEEE 802.11g
- IEEE 802.11b

Wireless Frequency Range [1]
- 2.4 GHz to 2.4835 GHz
- 5.18 GHz to 5.85 GHz USA
- 5.15 GHz to 5.175 GHz European Countries

Device Interfaces
- 802.11ac/n/g/b/a Wireless LAN
- 10/100/1000 Gigabit Ethernet Port
- Reset Button
- WPS Button
- Status/WPS LED
- 3 Segment Wi-Fi Smart Signal LED

Antenna
- Three External Antennas

Security
- Wi-Fi Protected Access (WPA/WPA2)
- Wi-Fi Protected Setup (WPS)
- Wired Equivalent Privacy (WEP) 64/128-bit

Advanced Features
- QRS Mobile setup app for iOS and Android devices

Device Management
- Web UI

[1] Frequency range varies depending on local regulations

Operating Temperature
- 0 to 40 ˚C (32 to 104 ˚F)

Storage Temperature
- Storage: -20 to 65 ºC (-4 to 149 ºF)

Operating Humidity
- 10% to 90% non-condensing

Storage Humidity
- 5% to 95% non-condensing

Power Input
- AC 100-240 V

Maximum Power Consumption
- 10.5 W

Certifications
- FCC
- ISED
- CE
- C-Tick
- RoHS
- CB
- LVD
- WPS Setup
- Wi-Fi Certified

Dimensions
- 162.9 x 84 x 37.8 mm (6.41 x 3.30 x 1.49 in)

Weight
- 229 grams (8.08 ounces)

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Please direct all inquiries to:
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Snail Mail:
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Fountain Valley, CA 92708

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17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

Contacting Technical Support

U.S. and Canadian customers can contact D-Link technical support through our web site or by phone.

Before you contact technical support, please have the following ready:

- Model number of the product (e.g. DAP-1720)
- Hardware Revision (located on the label on the back of the device [e.g. rev A1])
- Serial Number (s/n number located on the label on the back of the device).

You can find software updates and user documentation on the D-Link website as well as frequently asked questions and answers to technical issues.

For customers within the United States:

Phone Support:
(877) 453-5465

Internet Support:
http://support.dlink.com

For customers within Canada:

Phone Support:
(800) 361-5265

Internet Support:
http://support.dlink.ca

Warranty

Subject to the terms and conditions set forth herein, D-Link Systems, Inc. (“D-Link”) provides this Limited Warranty:

- Only to the person or entity that originally purchased the product from D-Link or its authorized reseller or distributor, and
- Only for products purchased and delivered within the fifty states of the United States, the District of Columbia, U.S. Possessions or Protectorates, U.S. Military Installations, or addresses with an APO or FPO.

Limited Warranty:

D-Link warrants that the hardware portion of the D-Link product described below (“Hardware”) will be free from material defects in workmanship and materials under normal use from the date of original retail purchase of the product, for the period set forth below (“Warranty Period”), except as otherwise stated herein.

- Hardware (excluding power supplies and fans): One (1) year
- Power supplies and fans: One (1) year
- Spare parts and spare kits: Ninety (90) days

The customer’s sole and exclusive remedy and the entire liability of D-Link and its suppliers under this Limited Warranty will be, at D-Link’s option, to repair or replace the defective Hardware during the Warranty Period at no charge to the original owner or to refund the actual purchase price paid. Any repair or replacement will be rendered by D-Link at an Authorized D-Link Service Office. The replacement hardware need not be new or have an identical make, model or part. D-Link may, at its option, replace the defective Hardware or any part thereof with any reconditioned product that D-Link reasonably determines is substantially equivalent (or superior) in all material respects to the defective Hardware. Repaired or replacement hardware will be warranted for the remainder of the original Warranty Period or ninety (90) days, whichever is longer, and is subject to the same limitations and exclusions. If a material defect is incapable of correction, or if D-Link determines that it is not practical to repair or replace the defective Hardware, the actual price paid by the original purchaser for the defective Hardware will be refunded by D-Link upon return to D-Link of the defective Hardware. All Hardware or part thereof that is replaced by D-Link, or for which the purchase price is refunded, shall become the property of D-Link upon replacement or refund.

Limited Software Warranty:

D-Link warrants that the software portion of the product ("Software") will substantially conform to D-Link's then current functional specifications for the Software, as set forth in the applicable documentation, from the date of original retail purchase of the Software for a period of ninety (90) days ("Software Warranty Period"), provided that the Software is properly installed on approved hardware and operated as contemplated in its documentation. D-Link further warrants that, during the Software Warranty Period, the magnetic media on which D-Link delivers the Software will be free of physical defects. The customer's sole and exclusive remedy and the entire liability of D-Link and its suppliers under this Limited Warranty will be, at D-Link's option, to replace the non-conforming Software (or defective media) with software that substantially conforms to D-Link's functional specifications for the Software or to refund the portion of the actual purchase price paid that is attributable to the Software. Except as otherwise agreed by D-Link in writing, the replacement Software is provided only to the original licensee, and is subject to the terms and conditions of the license granted by D-Link for the Software. Replacement Software will be warranted for the remainder of the original Warranty Period and is subject to the same limitations and exclusions. If a material non-conformance is incapable of correction, or if D-Link determines in its sole discretion that it is not practical to replace the non-conforming Software, the price paid by the original licensee for the non-conforming Software will be refunded by D-Link; provided that the non-conforming Software (and all copies thereof) is first returned to D-Link. The license granted respecting any Software for which a refund is given automatically terminates.

Non-Applicability of Warranty:

The Limited Warranty provided hereunder for Hardware and Software portions of D-Link's products will not be applied to and does not cover any refurbished product and any product purchased through the inventory clearance or liquidation sale or other sales in which D-Link, the sellers, or the liquidators expressly disclaim their warranty obligation pertaining to the product and in that case, the product is being sold "As-Is" without any warranty whatsoever including, without limitation, the Limited Warranty as described herein, notwithstanding anything stated herein to the contrary.

Submitting A Claim (USA):

The customer shall return the product to the original purchase point based on its return policy. In case the return policy period has expired and the product is within warranty, the customer shall submit a claim to D-Link as outlined below:

- The customer must submit with the product as part of the claim a written description of the Hardware defect or Software nonconformance in sufficient detail to allow D-Link to confirm the same, along with proof of purchase of the product (such as a copy of the dated purchase invoice for the product) if the product is not registered.

- The customer must obtain a Case ID Number from D-Link Technical Support at 1-877-354-6555, who will attempt to assist the customer in resolving any suspected defects with the product. If the product is considered defective, the customer must obtain a Return Material Authorization ("RMA") number by completing the RMA form and entering the assigned Case ID Number at https://rma.dlink.com/.

- After an RMA number is issued, the defective product must be packaged securely in the original or other suitable shipping package to ensure that it will not be damaged in transit, and the RMA number must be prominently marked on the outside of the package. Do not include any manuals or accessories in the shipping package. D-Link will only replace the defective portion of the product and will not ship back any accessories.

- The customer is responsible for all in-bound shipping charges to D-Link. No Cash on Delivery ("COD") is allowed. Products sent COD will either be rejected by D-Link or become the property of D-Link. Products shall be fully insured by the customer and shipped to D-Link Systems, Inc., 17595 Mt. Herrmann, Fountain Valley, CA 92708. D-Link will not be held responsible for any packages that are lost in transit to D-Link. The repaired or replaced packages will be shipped to the customer via UPS Ground or any common carrier selected by D-Link. Return shipping charges shall be prepaid by D-Link if you use an address in the United States, otherwise we will ship the product to you freight collect. Expedited shipping is available upon request and provided shipping charges are prepaid by the customer. D-Link may reject or return any product that is not packaged and shipped in strict compliance with the foregoing requirements, or for which an RMA number is not visible from the outside of the package. The product owner agrees to pay D-Link's reasonable handling and return shipping charges for any product that is not packaged and shipped in accordance with the foregoing requirements, or that is determined by D-Link not to be defective or non-conforming.

What Is Not Covered:

The Limited Warranty provided herein by D-Link does not cover:
Products that, in D-Link's judgment, have been subjected to abuse, accident, alteration, modification, tampering, negligence, misuse, faulty installation, lack of reasonable care, repair or service in any way that is not contemplated in the documentation for the product, or if the model or serial number has been altered, tampered with, defaced or removed; Initial installation, installation and removal of the product for repair, and shipping costs; Operational adjustments covered in the operating manual for the product, and normal maintenance; Damage that occurs in shipment, due to act of God, failures due to power surge, and cosmetic damage; Any hardware, software, firmware or other products or services provided by anyone other than D-Link; and Products that have been purchased from inventory clearance or liquidation sales or other sales in which D-Link, the sellers, or the liquidators expressly disclaim their warranty obligation pertaining to the product.

While necessary maintenance or repairs on your Product can be performed by any company, we recommend that you use only an Authorized D-Link Service Office. Improper or incorrectly performed maintenance or repair voids this Limited Warranty.

Disclaimer of Other Warranties:

EXCEPT FOR THE LIMITED WARRANTY SPECIFIED HEREIN, THE PRODUCT IS PROVIDED "AS-IS" WITHOUT ANY WARRANTY OF ANY KIND WHATSOEVER INCLUDING, WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.

IF ANY IMPLIED WARRANTY CANNOT BE DISCLAIMED IN ANY TERRITORY WHERE A PRODUCT IS SOLD, THE DURATION OF SUCH IMPLIED WARRANTY SHALL BE LIMITED TO THE DURATION OF THE APPLICABLE WARRANTY PERIOD SET FORTH ABOVE. EXCEPT AS EXPRESSLY COVERED UNDER THE LIMITED WARRANTY PROVIDED HEREIN, THE ENTIRE RISK AS TO THE QUALITY, SELECTION AND PERFORMANCE OF THE PRODUCT IS WITH THE PURCHASER OF THE PRODUCT.

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This Limited Warranty shall be governed by the laws of the State of California. Some states do not allow exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the foregoing limitations and exclusions may not apply. This Limited Warranty provides specific legal rights and you may also have other rights which vary from state to state.

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FCC Statement:

This equipment 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 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 communication. 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.

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 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.

If this device is going to be operated in 5.15 ~ 5.25GHz frequency range, then it is restricted in indoor environment only.

IMPORTANT NOTICE:

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

The availability of some specific channels and/or operational frequency bands are country dependent and are firmware programmed at the factory to match the intended destination. The firmware setting is not accessible by the end user.

For detailed warranty information applicable to products purchased outside the United States, please contact the corresponding local D-Link office.

Registration

Register your product online at registration.dlink.com

Product registration is entirely voluntary and failure to complete or return this form will not diminish your warranty rights.

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