D-Link®



User Manual

AC750 Plus Wi-Fi Range Extender

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	September 22, 2017	Initial release

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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. If it is not needed during certain periods of time, it can be unplugged to save energy.

Network Standby: 3.54 watts

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Package Contents



DAP-1530 AC750 Plus 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® 9 or later Firefox® 20.0 or later Safari® 5.1 or later Google Chrome™ 25.0 or later

Introduction Features

Easily Extend Your Existing Network

The DAP-1530 AC750 Plus Wi-Fi Range Extender lets you easily extend a secure wireless network with a press of a button. Connect the DAP-1530 to a router via Wi-Fi or Ethernet and share your high-speed Internet access in more places throughout your home or small office.

High-speed Wireless Performance With Wireless 802.11ac Technology

Thanks to the latest Wireless AC technology, the DAP-1530 provides a wireless connection at up to 1200 Mbps* with other 802.11ac wireless devices. This feature lets you participate in real-time activities online, such as video streaming, online gaming, and real-time audio with smooth performance.

Simple Setup

All it takes is a press of a button to connect compatible WPS devices to the DAP-1530. Its easy-to-use web interface lets you quickly and easily connect the DAP-1530 to an uplink router, configure the extended wireless network, and manage the 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.

Compatibility

The DAP-1530 is fully compatible with now only 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.

Latest Wireless Network Security and Encryption

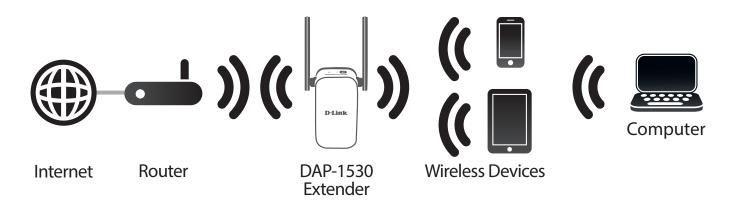
The DAP-1530 supports wireless security features to prevent unauthorized access from the wireless network. Support for WPA/ WPA2 standards ensure that you'll be able to use the best possible encryption methods with your compatible wireless devices.

^{*} Maximum wireless signal rate derived from standard IEEE specifications. Actual data throughput will vary. Network conditions and environmental factors, including volume of network traffic, building materials and construction, and network overhead may lower actual data throughput rate. Environmental conditions will adversely affect wireless signal range.

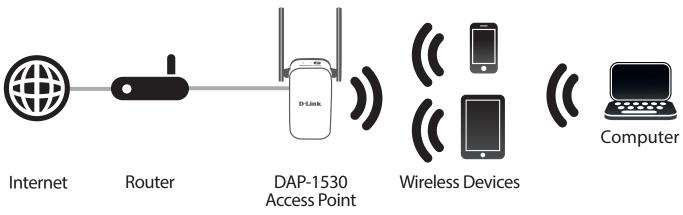
What is a Wireless Extender?

The DAP-1530 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. Your existing wireless signal will be re-broadcast by the DAP-1530, 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-1530 as a wireless access point by connecting an Ethernet cable.

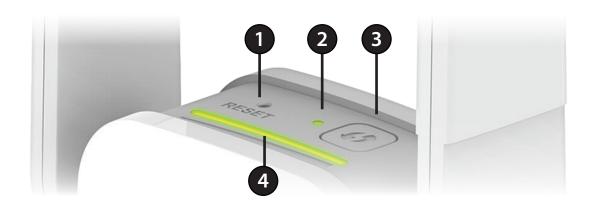
Extend Your Wireless Network using Wi-Fi



Create a Wireless Network using Ethernet

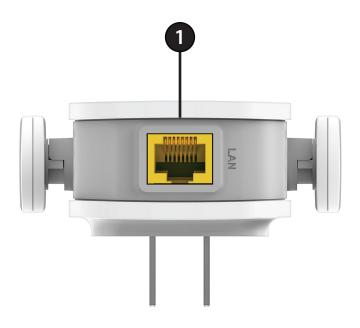


Hardware Overview Top



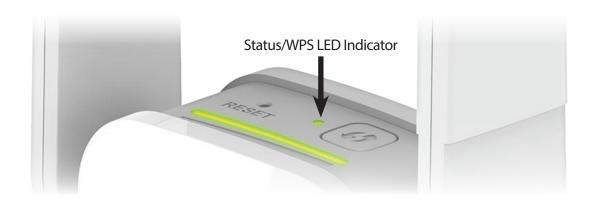
1	Reset Button	Use an unfolded paperclip to press and hold the reset button on the bottom of DAP-1530 until the status LED turns red, to reset the device back to factory default settings.
2	Status/WPS LED	This LED indicates the current status of the DAP-1530. Refer to "Status/WPS LED Indicator" on page 7 for more information.
3	WPS Button	Press to establish a connection with another WPS compatible device.
3	WI 5 BULLOII	Refer to "WPS Button" on page 43 for more information.
4	Signal Indicator LED	The more lit green bars on the Signal Indicator LED, the better the wireless signal to the host network.
		For more information refer to "Optimize Extender Location" on page 14.

Hardware Overview Bottom



1 LAN Connect an Ethernet cable if you are adding wireless to an existing wired network.

Status/WPS LED Indicator



LED Indicator	Color	Status	Description
Power/Status	Green	Solid	The DAP-1530 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-1530 is booting or an error has occurred.
	Amber	Blinking	The DAP-1530 is not connected to a host network.
	None	Off	Device is not receiving power. Check the power outlet.

Hardware Overview Back

You may locate the Wi-Fi name (SSID) and password for your DAP-1530. This information is printed on the specification sticker 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-1530. This information is also provided on the Wi-Fi configuration card.



Installation Wireless Installation Considerations

The DAP-1530 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-1530's extension network'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 RF (radio frequency) 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 D-Link extender and other network devices to a minimum each wall or ceiling can reduce your adapter's range from 3-90 feet (1-30 meters.) 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 1.5 feet thick (0.5 meters), at a 45-degree angle appears to be almost 3 feet (1 meter) thick. At a 2-degree angle it looks over 42 feet (14 meters) 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 away (at least 3-6 feet or 1-2 meters) 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.

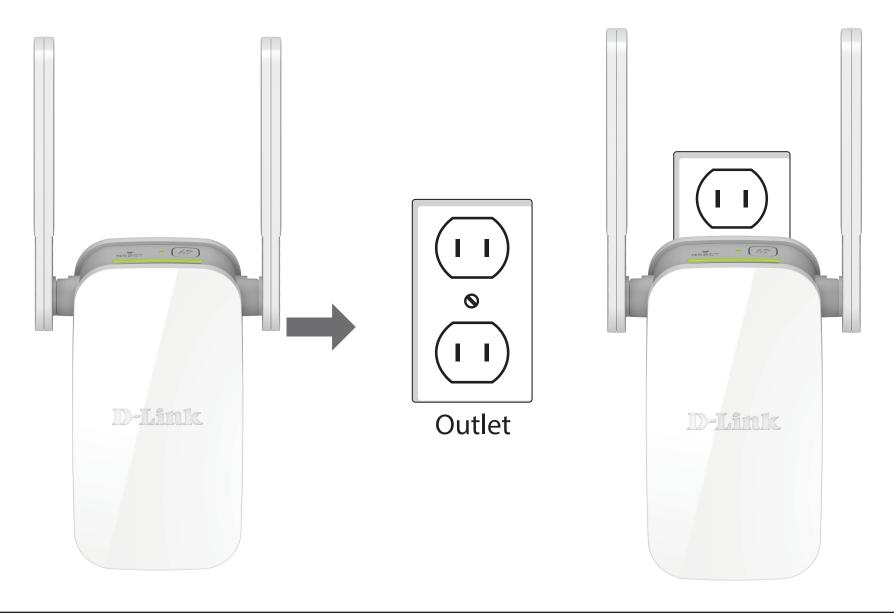
Antenna Setup

The DAP-1530 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 Setup

Plug the DAP-1530 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-1530.

- WPS PBC To easily extend an existing wireless network refer to "WPS-PBC Configuration" on page 13 for setup instructions.
- **QRS Mobile App** Use your Android device or iPhone, iPad, or iPod touch to configure your extender. Refer to "QRS Mobile App Setup" on page 15 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 21 for setup instructions.
- **Manual Configuration** Advanced users who wish to manually setup extender or adjust its settings may refer to "Configuration" on page 31 for more information.

WPS-PBC Configuration

To connect to a wireless router or access point and extend the Wi-Fi network in your home, 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-1530. 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-1530 has connected successfully to the source wireless router or access point.

Step 2 - Connecting Devices to the DAP-1530

The DAP-1530 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 extension networks created by the DAP-1530 using the following network names (SSID). The password(s) will be the same as the wireless network you are extending.

• (Your router's SSID)-EXT



Optimize Extender Location

The Status/WPS LED will turn solid green when the DAP-1530 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-1530 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-1530 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.





QRS Mobile App Setup

The DAP-1530 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.



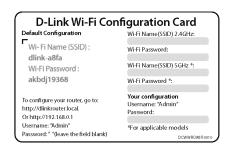






Step 2

Once your app is installed, you may now configure your extender. Connect to the router wirelessly by going to your wireless utility on your device. Scan for the Wi-Fi name (SSID) as listed on the supplied configuration card. Select and then enter your Wi-Fi password.



Step 3

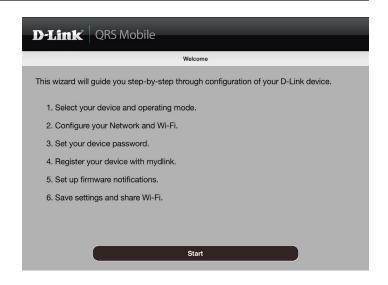
Once wirelessly connected to the extender, launch the QRS Mobile app from the Home screen of your device.

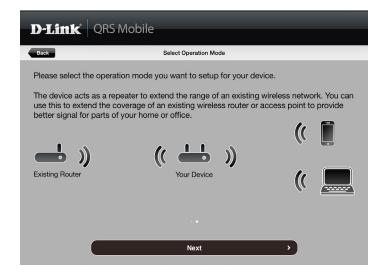
Note: The following steps show the iOS interface of the QRS Mobile app. If you are using an Android device, the appearance may be different to that of the screenshots, but the process is the same.



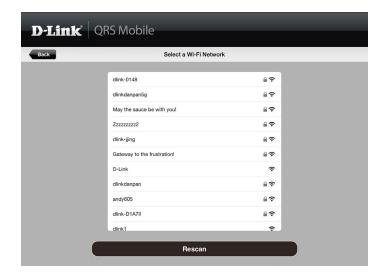
Click Start to continue.

Click **Next** to continue.





QRS Mobile will first detect your DAP-1530, then scan for available Wi-Fi networks. Select the network you wish to extend. Tap **Rescan** if your network doesn't show up the first time.



Enter a password for the existing Wi-Fi network. Click **Next** to continue.



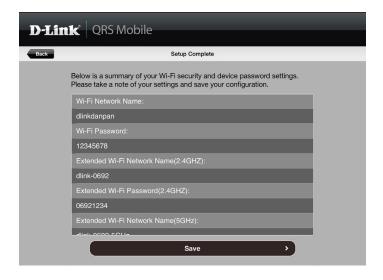
Enter a network name (SSID) and password for the extended Wi-Fi network. Click **Next** to continue.

Create an admin password for the DAP-1530's web-based configuration utility. Click **Next** to continue.

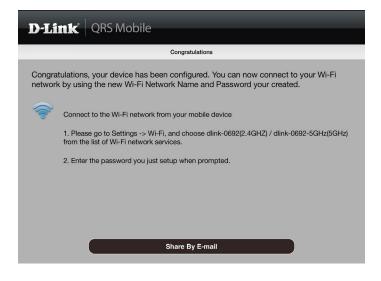




A summary of your settings will be displayed. Click **Save** to reboot the device and to complete the setup.

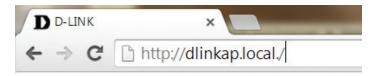


After the setup wizard is complete, the following screen will appear. To connect to the extended network, you can now change your mobile device and laptop Wi-Fi settings to the wireless network name and password you just created. You can also share your Wi-Fi information by clicking **Share by E-mail**.



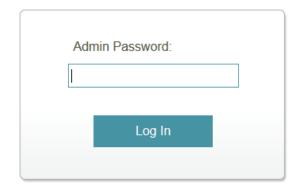
Web-based Setup

To access the setup utility for the DAP-1530 AC750 Plus Wi-Fi Range Extender on your PC, first connect to the DAP-1530 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-1530.



*The default IP address is 192.168.0.50. Once your DAP-1530 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-1530. For multiple DAP-1530s, go to **http://dlinkapxxxx.local.** as shown on the included Wi-Fi Configuration Card, with "xxxx" being the last four digits of the DAP-1530's MAC address.

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-1530. If you have not yet configured an uplink network, the home screen will show that there is no connection between the DAP-1530 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 **Uplink Router** icon.



The setup wizard is designed to guide you through a step-by-step process to configure your new DAP-1530 AC750 Plus Wi-Fi Range Extender to extend your wireless network and connect to the Internet.

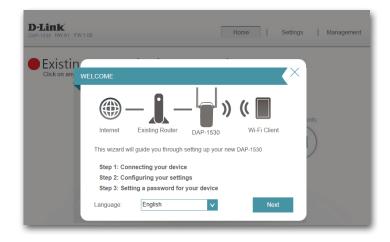
The steps are:

Step 1: Connecting Your Device

Step 2: Configuring Your Settings

Step 3: Setting a Password for Your Device

Click **Next** to begin.



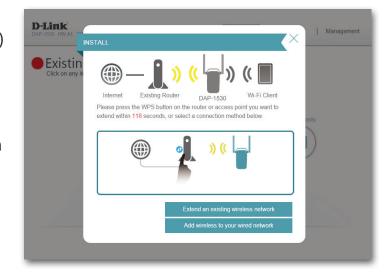
Connecting Your Device via WPS

After clicking the **Next** button from the previous step, the DAP-1530 will automatically initiate a WPS-PBC (Wireless Protected Setup - Push Button Control) 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 24 for more information or

Add wireless to your wired network, see page 27 for further setup information.



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

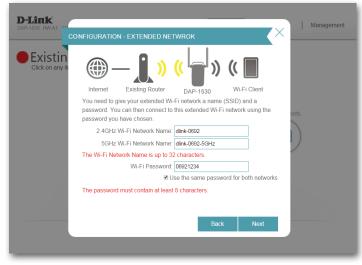
WPS Successful

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 may now rename the 2.4 GHz and 5 GHz networks. If you wish to input different passwords for each network, deselect **use the same password for both networks** and create new passwords.

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**, refer to page 29 for more information, or click **Back** to return to the previous step.



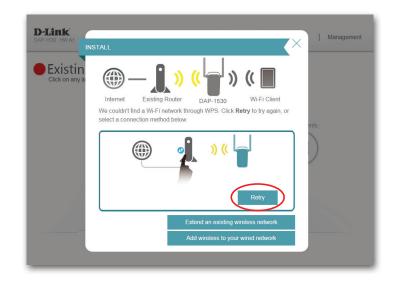
*Wireless network names and passwords are shown for example only.

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 the alternative configuration options:

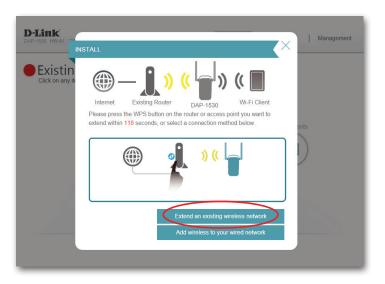
Extend an existing network, see page 24 for more information or

Add wireless to your wired network, see page 27 for further setup information.



Extend an Existing Network

To set up your network manually, select **Extend an Existing Network** from the setup wizard menu. Click **Next** to continue.



The DAP-1530 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-1530 might be out of range and you may need to reposition the extender closer to the host network device.



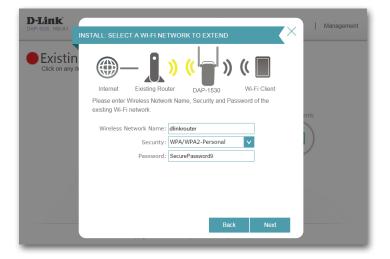
If the wireless network you wish to extend was detected by the scan, enter the password now.

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.

You may now rename the 2.4 GHz and 5 GHz networks. If you wish to input different passwords for each network, deselect **use the same password for both networks** and create new passwords.

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

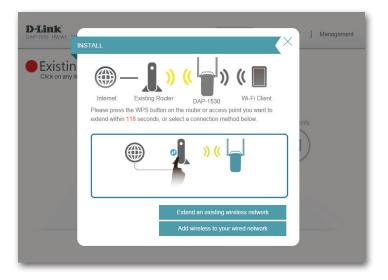
Click **Next** to proceed to **Configure Administrator Password**, refer to page 29 for more information, or click **Back** to return to the previous step.



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

Add Wireless to Your Wired Network

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



Connect an Ethernet cable to your DAP-1530 if you have not already done so. After making the connection, you will automatically be forwarded to the next step. If you haven't connected an Ethernet cable yet, but will do so later, click **skip**.

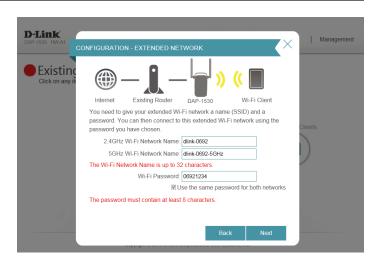


If a connection is successfully established you will be prompted to configure your wireless network settings. The current network names and passwords will be displayed.

You may now rename the 2.4 GHz and 5 GHz networks. If you wish to input different passwords for each network, deselect **use the same password for both networks** and create new passwords.

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

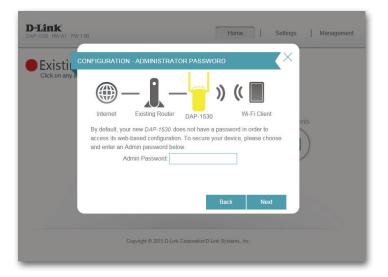
Click **Next** to proceed to **Configure Administrator Password**, refer to page 29 for more information, or click **Back** to return to the previous step.



*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 onward to **Save Your Configuration**.



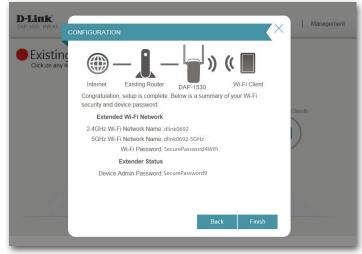
Save Your Configuration

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 wizard.

You will be asked if you wish to create a bookmark to the web configuration utility.

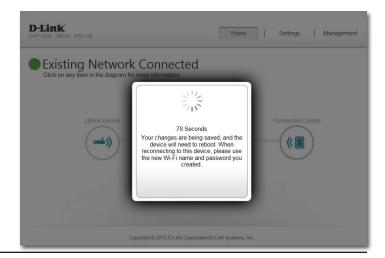
Your changes will be saved and the extender will reboot.

Devices may be connected to the new wireless extension network(s) once the extender successfully reboots.



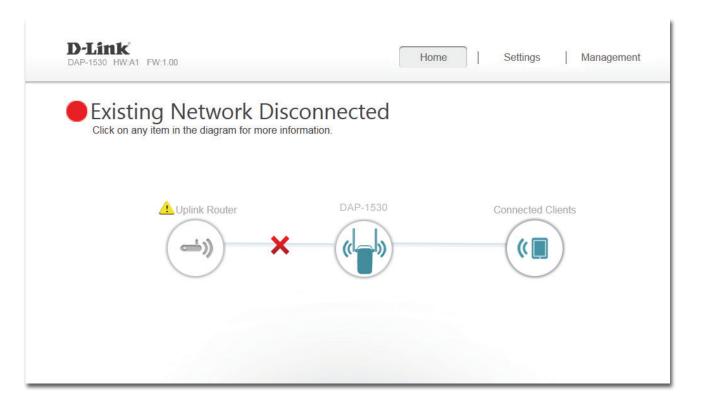
*Wireless network names and passwords are shown for example only.





Configuration Home

The home screen gives a summary of the current status of devices connected to the DAP-1530. A green check between the device and the uplink router indicates that there is an active connection. A red cross indicates that there is no connection present, or there is a connection error. If there's no active uplink connection, click on the Uplink Router icon to start the setup wizard.



Uplink Router: This icon shows the status of the Internet connection to the uplink router. It is grey if the DAP-1530 is not connected to an uplink router. Once connected, click on it to see its connection details.

DAP-1530: Click on this icon to see details of the uplink network the DAP-1530 is connected to or connect to another uplink router..

Connected Click on the Wi-Fi Clients icon to see client details. **Clients:**

Once your Internet connection is set up, you can view the details of both the uplink network and the extended Wi-Fi network by clicking on the DAP-1530 icon.

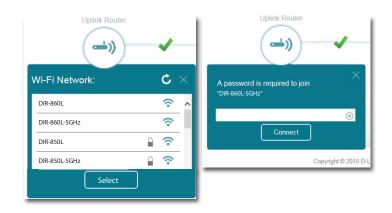
Upon clicking the Uplink Router icon, you will see the connection type, network status, connection up time, network name (SSID), and password.

If you wish to connect to a different uplink router, press the **Connect to a different uplink router** button.

After clicking **Connect to a different uplink router** a survey of available wireless networks will be performed. After clicking **Select** you will be prompted for the uplink router password. Enter it and click **Connect.**







Settings Extender Settings

This page lets you configure the settings for the DAP-1530'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 Select the type of existing network, either **Ethernet** or **Wi-Fi Network**: you want the DAP-1530 to connect to.

2.4 GHz Extended Wi-Fi

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

Wi-Fi Name This is the name of the DAP-1530's extended network.

(SSID): If using Wi-Fi, the DAP-1530 will rebroadcast the uplink router's Internet connection under this SSID. You may also manually set the SSID of the extended network.

manually set the SSID of the extended network.

Security: Select the type of wireless security you wish to use for the

extended network. Choose None or WPA/WPA2 Personal.

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

the extended network.

Wi-Fi Select Auto or any channel from 1 to 11 for use with this

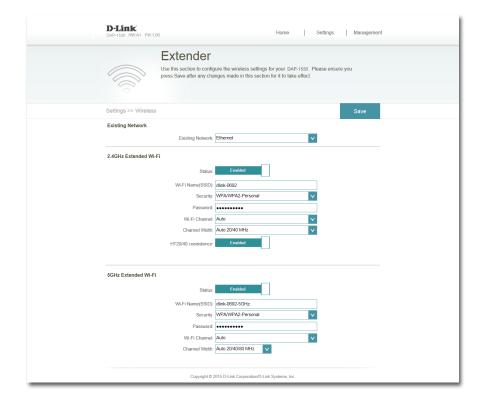
Channel: network.

Channel Select Auto 20/40 or 20 MHz for the bandwidth you wish

Width: this network to use.

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

Coexistence:



5 GHz Extended Wi-Fi

Status: Enable or disable this 5 GHz network by toggling this slider.

Wi-Fi Name This is the name of the DAP-1530's extended network. (SSID): If using Wi-Fi, the DAP-1530 will rebroadcast the uplink router's Internet connection under this SSID. You may also

manually set the SSID of the extended network.

Security: Select the type of wireless security you wish to use for the

extended network. Choose None or WPA/WPA2 Personal.

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

the extended 5 GHz network.

Wi-Fi Select **Auto** or any channel for use with this network.

Channel:

Channel Select Auto 20/40/80, 20 MHz, or 20/40 MHz for the

Width: bandwidth you wish this network to use.



Network Settings

This page lets you configure the network settings for the DAP-1530. 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 You can change the URL name of the device by editing the Link: 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-1530's extended network.

IPv4 Device Management Interface

My LAN Here you can select whether you want the IP to have a Connection is: Dynamic IP 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 AP. This address should be outside of the

uplink router's DHCP address pool.

Subnet Mask: Enter the subnet mask.

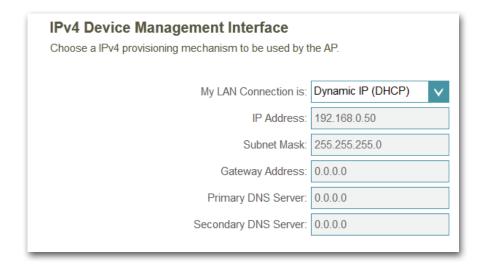
Gateway Enter the gateway address. This is usually the IP address of

Address: the uplink router.

Primary DNS Enter the address of the primary DNS server.

Server:

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



Autoconfiguration (SLAAC/DHCPv6)

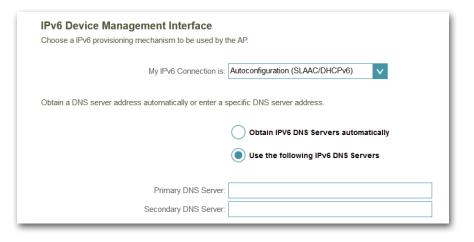
IPv6 Device Management Interface

My IPv6 Select Autoconfiguration (SLAAC/DHCPv6) to have the Connection is: DAP-1530 automatically receive an IPv6 address from the uplink router.

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

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

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



Static IPv6

IPv6 Device Management Interface

My IPv6 Select Static IPv6 to manually assign an IP address to the Connection is: DAP-1530.

IPv6 Address: Enter the IPv6 address that you want to assign to the extended network AP. This address should be outside of the

uplink router's DHCP address pool.

Subnet Prefix Enter the length of the IPv6 subnet prefix.

Length:

Default Gateway: Enter the default gateway.

Primary DNS Enter the primary IPv6 DNS server address.

Server:

Secondary DNS Enter the secondary IPv6 DNS server address. This is optional

Server: but will provide backup if the primary server fails.

IPv6 Device Management Interface Choose a IPv6 provisioning mechanism to be used by the AP.		
My IPv6 Connection is:	Static IPv6	~
Enter the IPv6 address information that you would like to use to access the Web-based management interface.		
IPv6 Address:		
Subnet Prefix Length:		
Default Gateway:		
Primary DNS Server:		
Secondary DNS Server:		

Link-local Only

IPv6 Device Management Interface

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

LAN IPv6 Link- The link-local address of the DAP-1530. Local Address:



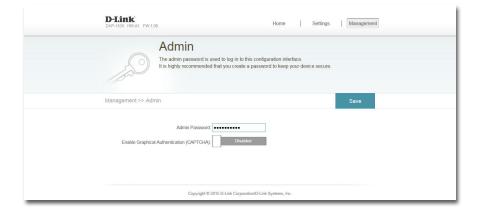
Management Admin

This page will allow you to set a new password for the administrator account used to configure the DAP-1530. 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 Enter the Admin password. Password:

Enable Click on the slider to enable graphical authentication, Graphical or CAPTCHA. This provides an extra layer of security by Authentication: 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.



Device:

System

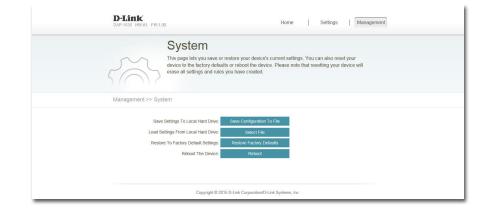
This page allows you to save or restore your system configuration, reset, or reboot the DAP-1530. To access this page, click the **Management** drop down menu at the top of the page, and select **System**. Click **Save** at any time to save the changes you have made on this page.

Save Settings
To Local Hard
You will then see a file dialog where you can select a location
Drive: and enter a file name for the configuration file.

Load Settings
From Local
Hard Drive:

Restore
Restore Restore the system settings to factory default settings. This to Factory
Default
Settings:

Reboot the Click Reboot to reboot the DAP-1530.



Upgrade

Firmware and language upgrades may be provided for the DAP-1530 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 This section displays the currently installed firmware version, **Information:** 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 Click **Select File** to locate the firmware file on your computer **Firmware:** 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.

Wi-Fi

Click on the **Wi-Fi** tab to display the statistics for the connection between the DAP-1530 and the uplink router.

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

Extended Wi-Fi

Click on the **Extended Wi-Fi** tab to display the statistics for the connection between the DAP-1530 and any connected clients.





Connecting Wireless Clients to the Extended Network WPS Button

Once an uplink network has been established, you may use the DAP-1530'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-1530. Please refer to the user manual for the wireless device you want to connect to make sure you understand how to enable WPS. Once you know, follow the steps below:

- **Step 1** Press the WPS button on the DAP-1530 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** Allow up to 1 minute to configure. Once the LED light stops blinking and turns solid green, you will be connected and your wireless connection will be secured with WPA2.



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.

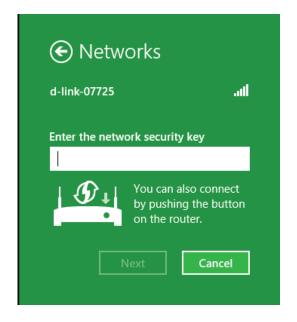


Clicking on this icon will display a list of wireless networks which are within connecting proximity of your computer. Select the desired network by clicking on the network name.

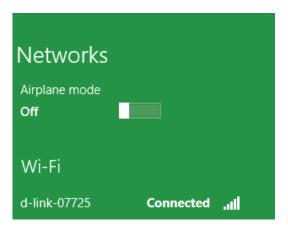


You will then be prompted to enter the network security key (Wi-Fi password) for the wireless network. Enter the password into the box and click **Next**.

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).



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

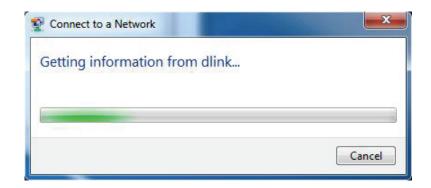


3. Highlight the wireless network (SSID) you would like to connect to and click the **Connect** button.

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**.

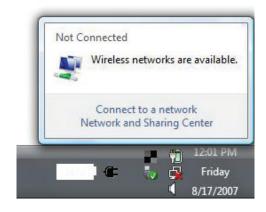
If you get a good signal but cannot access the Internet, check the TCP/ IP settings for your wireless adapter. Refer to "Troubleshooting" on page 52 for more information.



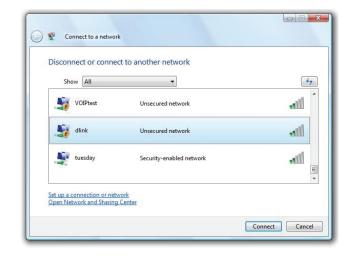
WPA/WPA2

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-1530. 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 AC750 Plus 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 9 or later
 - Firefox 20.0 or later
 - Safari 5.1 or later
 - Google Chrome 25.0 or later
- Make sure that you are connected to the same wireless network which is listed on the base of the DAP-1530. 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-1530 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 forgot my password?

If you forgot 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 until the status LED turns red. 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 AC750 Plus 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

Wireless Frequency Range ¹

- 2.4 GHz to 2.4835 GHz
- 5.18 MHz to 5.85 MHz

Device Interfaces

- 802.11ac/n/g/a Wireless LAN
- 10/100 Fast Ethernet Port
- Reset Button
- WPS Button

Antenna

External Antenna

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

Diagnostic LEDs

- Status/WPS
- 3 Segment Wi-Fi Signal Strength Indicator

Operating Temperature

• 0 to 40 °C (32 to 104 °F)

Storage Temperature

• Storage: -20 to 65 °C (-4 to 149 °F)

Operating Humidity

• 0% to 90% non-condensing

Storage Humidity

• 5% to 95% non-condensing

Power Input

AC 100-240V 0.3A Max

Maximum Power Consumption

• 7.5 W

Certifications

- FCC
- CE
- IC
- RCM
- UL
- IDA
- PSB
- CB

Dimensions

• 50 x 97 x 48 mm

Weight

• 139 grams (4.9 ounces)

¹ Frequency range varies depending on local regulations

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D-Link Systems, Inc.

17595 Mt. Herrmann Street Fountain Valley, CA 92708

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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

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- b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.
- c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6 b.
- d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.
- e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

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Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

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Safety Statements

Federal Communication Commission Interference 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 communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one 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.

Operation of this device is restricted to indoor use only.

IMPORTANT NOTICE:

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.

Country Code selection feature to be disabled for products marketed to the US/CANADA Industry Canada statement:

Industry Canada statement:

This device complies with ISED licence-exempt RSS standard(s). Operation is subject to the following two conditions:

- (1) this device may not cause interference, and
- (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'ISED applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

- (1) l'appareil ne doit pas produire de brouillage, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si lebrouillage est susceptible d'en compromettre le fonctionnement.

The device meets the exemption from the routine evaluation limits in section 2.5 of RSS 102 and compliance with RSS-102 RF exposure, users can obtain Canadian information on RF exposure and compliance.

Le dispositif rencontre l'exemption des limites courantes d'évaluation dans la section 2.5 de RSS 102 et la conformité à l'exposition de RSS-102 rf, utilisateurs peut obtenir l'information canadienne sur l'exposition et la conformité de rf.

Users should also be advised that high-power radars are allocated as primary users (i.e. priority users) of the bands 5250-5350 MHz and 5650-5850 MHz and that these radars could cause interference and/or damage to LE-LAN devices.

les utilisateurs de radars de haute puissance sont désignés utilisateurs principaux (c.-à-d., qu'ils ont la priorité) des bandes de 5 250 à 5 350 MHz et de 5 650 à 5 850 MHz et, d'autre part, que ces radars pourraient causer du brouillage et/ou des dommages aux dispositifs de RL-EL.

Caution:

(i) the device for operation in the band 5150-5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems;

Avertissement:

(i) les dispositifs fonctionnant dans la bande 5150-5250 MHz sont réservés uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux;

Radiation Exposure Statement:

This equipment complies with IC 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.

Déclaration d'exposition aux radiations:

Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 20 cm de distance entre la source de rayonnement et votre corps.

NCC 警語:

電磁波曝露量 MPE 標準值 (MPE) 1mW/cm², 送測產品實值為 0.085mW/cm²

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