

LINKSYS™

User Guide

RE3000W V2

Introduction

This User Guide can help you connect the extender to your network and solve common setup issues. You can find more help from our award-winning, 24/7 customer support at Linksys.com/support.

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Overview

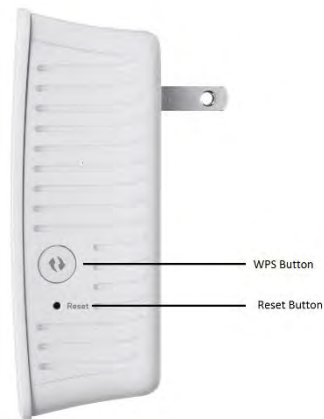
Front



The light on the front of the range extender gives you information about power and Wi-Fi Protected Setup. Use Wi-Fi Protected Setup to automatically and securely connect compatible wireless devices such as wireless printers.

Power Light	Status/ description
Blinking Green	- Powered on - Resetting to factory defaults - Upgrading its firmware
Solid Green	Ready to use
Solid amber	Weak connection with the router <i>Fix: Unplug the extender, and move it closer to the router</i>
Blinking Orange	- Cannot establish a connection - Other error <i>Fix: Unplug the extender, plug it back in, wait two seconds, reconnect to your network</i>

Side



Power Switch European versions only.

Wi-Fi Protected Setup Button Use Wi-Fi Protected Setup to automatically and securely add compatible wireless devices to your network. Refer to Using Wi-Fi Protected Setup on page 7.

Reset Press and hold for about five seconds to reset to factory defaults. You can also restore the defaults from the Administration > Factory Defaults screen in the extender's browser-based utility.

Bottom



Ethernet (blue) Connect wired devices to your wireless network with Ethernet (network) cables. The green light turns on when an Ethernet device is connected and active on this port. The light blinks when the extender is sending or receiving data over the Ethernet port.

How to install the range extender

Before setup, unplug or disconnect any range extenders on the network.

1. **Plug in the range extender midway between your router and the area without Wi-Fi.**
Be sure you have at least 50% of your router's Wi-Fi signal at that point on the device you will use for setup. The setup software will help you find the best spot if you have trouble.
2. Wait for a solid light on the cover of the range extender. It could take up to two minutes. On a computer, phone or tablet, connect to the Wi-Fi network "Linksys Extender Setup."
 - Windows 7 and Windows 8 will ask you, "Do you want to set up your network?" Click the link, "Connect to network without setting it up."
3. If setup doesn't start automatically, open a browser to <http://extender.linksys.com>

TIP

You can also connect the range extender by using Wi-Fi Protected Setup. For more information, see "Using Wi-Fi Protected Setup" on page 7.

How to access the browser-based utility

After setting up the extender use the extender's browser-based utility to change any settings.

Windows XP:

TIP

To follow these instructions, enable UPnP:

1. Click Start, Control Panel, Add or Remove Program, then click Add/Remove Windows Components.
 2. Select Network Services, then click Details.
 3. Select UPnP User Interface, then click OK.
-
1. Open Windows Explorer. Click **My Network Places** on the left panel.
 2. Look for the RE3000W icon on the right panel. (You might be required to change the firewall settings to allow the display of networked computers. Refer to your operating system's help for instructions.)
 3. Double-click the **RE3000W** icon. A web browser will open and prompt you to enter your **User name** and **Password**.
 4. Leave the **User name** field blank, and enter the default password "admin."
 5. Click **OK**.

Windows 8, Windows 7, or Vista:

1. Open Windows Explorer (File Explorer in Windows 8). Click **Network**. Look for the RE3000W icon on the right panel. (You might be required to change the firewall settings to allow the display of networked computers. Refer to your operating system's help for instructions.)
2. Right-click the **RE3000W** icon. Click **Properties**. Click on the address link in **Device webpage**. A web browser will open and prompt you to enter a **User name** and **Password**.
3. Leave the **User name** blank, and enter the default password "admin."
4. Click **OK**.

Mac OS X:

1. Open **Safari**. Click the book icon. Click **Bonjour** on the left panel. Look for the RE3000W icon on the bottom right panel.
2. Double-click the RE3000W icon.
3. Leave the **User name** blank, and enter the default password “admin.”
4. Click **OK**.

Using range extender settings

Click **Help** on the right side of the screen for additional information on the screen's options.

Changes to settings will not be effective until you click **Save Settings** at the bottom of the screen. You also can click **Cancel Changes** to clear any changes.

The screenshot shows the Linksys Wireless Range Extender web interface. The top header is dark blue with the Linksys logo on the left and 'Wireless Range Extender RE3000W V2 v0.0.00' on the right. A left sidebar contains a menu with categories: 'Wireless' (Basic Settings, WPS, Site Survey, QoS), 'Administration' (Management, Log, Diagnostics, Factory Defaults, Firmware Upgrade), and 'Status' (Device Info, Ethernet Statistics, WLAN Statistics). The main content area is titled 'Basic Settings' with a 'Help' link. It includes sections for 'Extender IP address' (set to Automatic Configuration - DHCP), '2.4 GHz Wireless Settings' (Status: Connected, Signal Strength: 3 bars, Network Name (SSID): TRENDnet818_2.4GHz_1A2B, Password: 1234567890, and an Advanced settings link), '2.4 GHz Extended Wireless Settings' (with a checked box for 'Make same as router settings'), and 'Network Setup' (Extender Name: LinksysRangeExt, Friendly Name: Linksys Range Extender).

Category	Sub-category	Setting	Value
Wireless	Basic Settings	Extender IP address	Automatic Configuration - DHCP
	2.4 GHz Wireless Settings	Status	Connected
		Signal Strength	3 bars
		Network Name (SSID)	TRENDnet818_2.4GHz_1A2B
2.4 GHz Wireless Settings	Password	1234567890	
	Advanced settings		Advanced settings
2.4 GHz Extended Wireless Settings	Make same as router settings	☒	
	Network Setup		
Network Setup	Extender Name	LinksysRangeExt	
	Friendly Name	Linksys Range Extender	

Using Wi-Fi Protected Setup

Wi-Fi Protected Setup™ makes it easy to connect your extender to your network, and connect other devices to your network through the extender.

Wi-Fi Protected Setup light activity

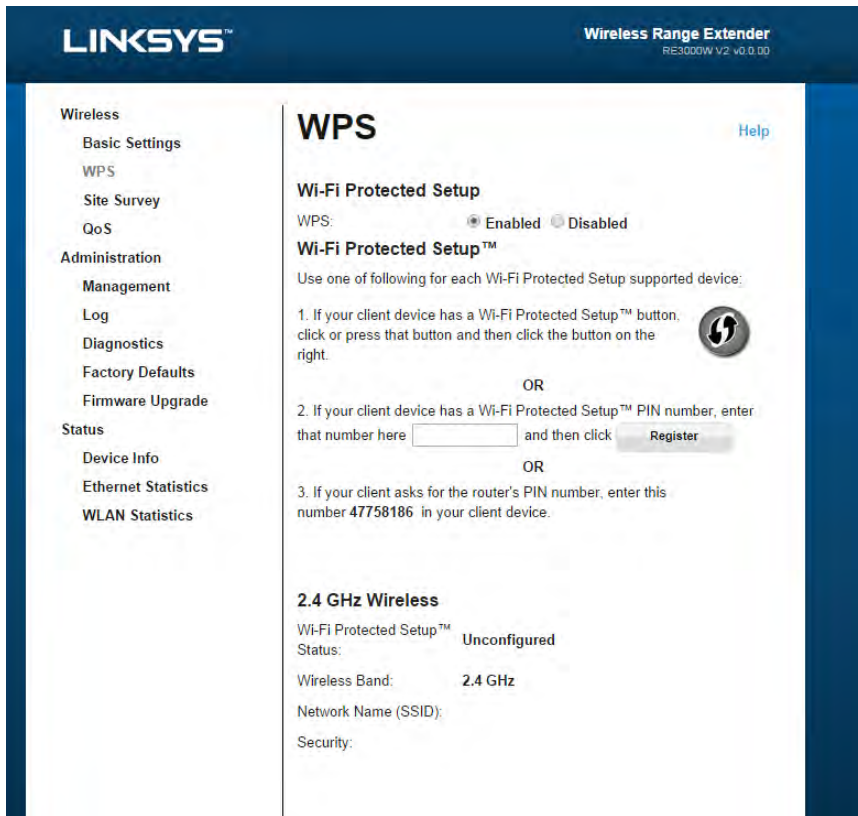
WPS Light	Status/ description
Blinking Green	When WPS connection is in process
Solid Green	When WPS connection is successful
Blinking amber for two minutes	When WPS cannot establish connection or encounters a problem <i>Fix: wait a few seconds after LED stops blinking and try again</i>

Connecting the extender to an existing access point

If your access point or router supports it, you can use Wi-Fi Protected Setup to connect the range extender to the access point or router. Choose from the setup methods below to connect the extender.

NOTE

If you have an access point or a router that does not support Wi-Fi Protected Setup, note the wireless settings, and then manually configure the extender.



Connecting with the Wi-Fi Protected Setup Button

Use this method if your router or access point has a **Wi-Fi Protected Setup** button.



1. Press the **Wi-Fi Protected Setup** button on the extender.
2. Click the **Wi-Fi Protected Setup** button on the router's Wi-Fi Protected Setup screen (if available), OR press and hold the Wi-Fi Protected Setup button on the router for one second. When the connection is complete, the Wi-Fi Protected Setup light on the extender will be solid.
3. If you used the extender's Wi-Fi Protected Setup screen, click **OK** in that screen within two minutes.

NOTE

If you have a dual-band router and wish to connect to both bands, you will have to perform the WPS setup twice. The first connection will be on the 2.4 GHz band.

Connecting with the range extender's PIN

The Wi-Fi Protected Setup PIN (Personal Identification Number) can be found on the product label on the bottom of the extender. You can use this method only if your router's administration utility has a Wi-Fi Protected Setup menu.

2. If your router asks for the client's PIN number, enter this number **14727030** in your router device.

1. Enter the extender's PIN into the appropriate field on the router's Wi-Fi Protected Setup screen. Click Register. When the connection is complete, the Wi-Fi Protected Setup light on the extender will be solid.
2. Click **OK**.

Connecting devices to your network through the extender

Choose from the methods below to connect devices that support Wi-Fi Protected Setup to your network.

The screenshot shows the Linksys Wireless Range Extender web interface. The top header includes the Linksys logo and the text 'Wireless Range Extender RE3000W v2 v0.0.00'. On the left is a navigation menu with categories: Wireless (Basic Settings, WPS, Site Survey, QoS), Administration (Management, Log, Diagnostics, Factory Defaults, Firmware Upgrade), and Status (Device Info, Ethernet Statistics, WLAN Statistics). The main content area is titled 'WPS' and has a 'Help' link. Under 'Wi-Fi Protected Setup', the 'WPS' toggle is set to 'Enabled'. Below this, it says 'Wi-Fi Protected Setup™' and 'Use one of following for each Wi-Fi Protected Setup supported device:'. Three methods are listed: 1. Pressing a button on the client device (illustrated with a circular arrow icon), 2. Entering a PIN number into a text box and clicking 'Register', and 3. Entering the router's PIN number (47758186) into the client device. At the bottom, the '2.4 GHz Wireless' section shows 'Wi-Fi Protected Setup™' as 'Unconfigured', 'Wireless Band' as '2.4 GHz', and fields for 'Network Name (SSID)' and 'Security'.

NOTE

Repeat the instructions for each client device that supports Wi-Fi Protected Setup.

Connecting with the Wi-Fi Protected Setup Button

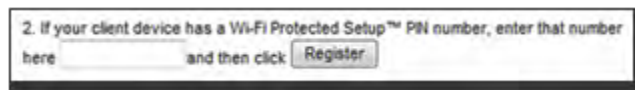
Use this method if your client device has a Wi-Fi Protected Setup button.



1. Press the Wi-Fi Protected Setup button on the client device.
2. Click the **Wi-Fi Protected Setup** button on the extender's Wi-Fi Protected Setup screen, OR press and hold the Wi-Fi Protected Setup button on the top panel of the extender for one second. When the connection is complete, the Wi-Fi Protected Setup light on the extender will be solid.
3. If using the extender's Wi-Fi Protected Setup screen, be sure to click OK within two minutes or you will have to start over.

Connecting with the client device's PIN

Use this method if your client device has a Wi-Fi Protected Setup PIN (Personal Identification Number).



1. Enter the PIN from the client device in the field on the extender's Wi-Fi Protected Setup screen.
2. Click **Register** on the extender's Wi-Fi Protected Setup screen. When the connection is complete, the Wi-Fi Protected Setup light on the extender will be solid.
3. Click **OK** on the extender's Wi-Fi Protected Setup screen within two minutes or you will have to start over.

Connecting with the extender's PIN

Use this method if your client device asks for the extender's PIN.

1. On the client device, enter the PIN listed on the extender's Wi-Fi Protected Setup screen. (It is also listed on the product label on the bottom of the extender.) When the connection is complete, the Wi-Fi Protected Setup light on the extender will be solid.
2. Click **OK** on the extender's Wi-Fi Protected Setup screen within two minutes.

How to use Site Survey

Site Survey gives a snapshot of all neighboring access points and wireless routers within range of the extender.

To open the Site Survey page:

1. Log in to the browser-based utility (see “How to access the browser-based utility” on page 5).
2. Click the **Wireless** tab. Click the **Site Survey** page.
3. **Select**—To connect to a wireless network, click the button next to the wireless network name (SSID) in the Select column, and click Connect.
4. **SSID**—Displays the name of neighboring wireless networks.
5. **GHz**—Displays the radio band (in GHz) of the neighboring wireless networks.
6. **Signal Strength**—Displays the relative position of the neighboring access points by indicating the power of the wireless signal received: 1 bar= 20%, 2 bars=40%, 3 bars=60%, 4 bars=80%, 5 bars=100%. If no bar is displayed, the extender is located too far away from the upstream access point. Try to keep the signal strength between 60% and 100% for optimum performance.
7. **Security**—Displays the mode of security in use by the neighboring APs. If a network supports Wi-Fi Protected Setup, the Wi-Fi Protected Setup icon is also displayed.

The screenshot shows the Linksys Wireless Range Extender (RE3000W V2 v0.0.00) interface. The main heading is "Site Survey" with a "Help" link. Below the heading are "Refresh" and "Connect" buttons. A table lists nearby wireless networks:

Select	SSID	GHz	Signal	Security
	TRENDnet818_2.4GHz_1A2B	2.4		WPA2 Personal
	CiscoA0093-2.4G	2.4		Disabled
	Tim692_2.4GHz	2.4		WPA2 Personal
	hdlink	2.4		WPA2/WPA Mixed Mode
	BIG 2.4G	2.4		WPA2 Personal
	MT7628_104_2.4G	2.4		Disabled

The left sidebar contains the following navigation links:

- Wireless
 - Basic Settings
 - WPS
 - Site Survey
 - QoS
- Administration
 - Management
 - Log
 - Diagnostics
 - Factory Defaults
 - Firmware Upgrade
- Status
 - Device Info
 - Ethernet Statistics
 - WLAN Statistics

To connect your extender with an access point or router in Site Survey, you will need to know the password or passphrase of the network on that device.

1. Select the network name (SSID) that you want to repeat with your extender by clicking the corresponding button in the Select column.
2. Click **Connect**. When prompted, enter the password or passphrase used to secure your wireless network. The type of security information required in this screen must match your access point or router's wireless security settings.

The screenshot shows the Linksys Wireless Range Extender (RE3000W V2) configuration interface. The top header is dark blue with the Linksys logo on the left and 'Wireless Range Extender RE3000W V2 v0.0.00' on the right. A left sidebar contains a menu with categories: 'Wireless' (Basic Settings, WPS, Site Survey, QoS), 'Administration' (Management, Log, Diagnostics, Factory Defaults, Firmware Upgrade), and 'Status' (Device Info, Ethernet Statistics, WLAN Statistics). The 'Site Survey' option is highlighted. The main content area is titled 'Site Survey' with a 'Help' link. Under the 'Wireless Security' section, there is a 'Network Name (SSID):' field containing 'CiscoA0093-2.4G' and a 'Security Mode:' dropdown set to 'Disabled'. At the bottom right of this section are 'Refresh' and 'Connect' buttons.

3. Click **Save**. Your extender wireless parameters should be configured. The wireless interface will restart, and the extender will connect to the access point or router you have chosen.

8. Troubleshooting

NOTE Your RE3000 works on 2.4GHz network.

You cannot get your extender connected

Check the position of your router and extender

- For first-time setup, you may need to place the extender closer to the router. After you've set up your extender, you can unplug it and move it to the final location.
- To reduce signal obstructions, try alternate locations for the router and extender.
- Avoid placing the router and extender near metal objects, masonry walls, and reflective surfaces such as glass or mirrors.
- Avoid placing the router and extender near other electronics that may cause signal interference.

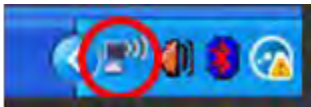
If you're using Wi-Fi Protected Setup to connect, wait until the Wi-Fi Protected Setup indicator stops blinking before trying to make the connection again.

You cannot access your range extender

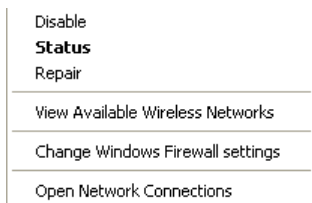
To access your range extender, you must be connected to your own network. If you currently have wireless Internet access, the problem may be that you have accidentally connected to a different wireless network.

For Mac instructions, see "To fix the problem on Mac computers:" on page 12.

To fix the problem on Windows computers:



1. On your Windows desktop, right-click the wireless icon in the system tray. The icon might look different depending on which version of Windows you are running.
2. Click View Available Wireless Networks.



3. Select your network name. Click Connect. In the example below, the computer was connected to another wireless network named JimsRouter. The name of the correct network, BronzeEagle in this example, is selected.



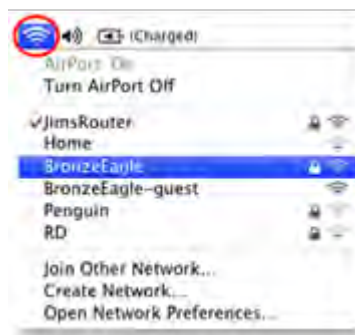
4. If you are prompted to enter a network key, type your password (Security Key) into the Network key and Confirm network key fields. Click **Connect**.

You should now be able to access the range extender's browser-based utility.

To fix the problem on Mac computers:

1. In the menu bar across the top of the screen, click the Wi-Fi icon. Linksys Connect has automatically assigned your network a name.

In the example below, the computer was connected to another wireless network named JimsRouter. The name of the Linksys E-Series network, BronzeEagle in this example, is selected.



2. Select the wireless network name of the router you want to connect to.
3. Type your wireless network password (Security Key) into the Password field. Click **OK**.



You should now be able to access the range extender's browser-based

You have intermittent connection problems

Plug in the range extender midway between your router and the area without Wi-Fi. Be sure you have at least 50% of your router's Wi-Fi signal at that point on the device you used for setup.

9.Specifications

RE3000W V2

Model Name	Linksys RE3000W
Model Description	Wireless-N Range Extender
Model Number	RE3000W V2
Standards	IEEE , 802.11n, 802.11g, 802.11b, 802.3u
Ports	Fast Ethernet,
Buttons	Reset, Wi-Fi Protected Setup™, Power (European model only)
LEDs	Power/Wi-Fi Protected Setup, Ethernet (link, activity)
Antennas	2 internal
Detachable (y/n)	No
Wireless Security	Wi-Fi Protected Access™ 2 (WPA2), Wi-Fi Protected Access™ (WPA), WEP
Security Key Bits	Up to 128-bit encryption

Environmental

Dimensions	2.64" x 1.49" x 4.13" (67 x 38 x 105 mm)
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Weight	5.12 oz (145 g)
Power	5VDC/2.0A
Certification	FCC, ICES-003, RSS210, CE, Wi-Fi (IEEE 802.11 b/g/n), WPA2™, WMM®, Wi-Fi Protected Setup™
Operating Temperature	32 to 104°F (0 to 40°C)
Storage Temperature	-4 to 140°F (-20 to 60°C)
Operating Humidity	10 to 80% noncondensing
Storage Humidity	5 to 90% noncondensing

Specifications are subject to change without notice.

FCC Statement:

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.

For product available in the USA/Canada market, only channel 1~11 can be operated. Selection of other channels is not possible.

This device and its antennas(s) must not be co-located or operating in conjunction with any other antenna or transmitter except in accordance with FCC multi-transmitter product procedures.

IMPORTANT NOTE:

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.

IC Statement:

This device complies with Industry Canada license-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'Industrie Canada 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 le brouillage est susceptible d'en compromettre le fonctionnement.

This device and its antennas(s) must not be co-located or operating in conjunction with any other antenna or transmitter except in accordance with IC multi-transmitter product procedures.

Cet appareil et son antenne (s) ne doit pas être co-localisés ou fonctionner en association avec une autre antenne ou transmetteur.

IMPORTANT NOTE:

IC Radiation Exposure Statement:

This equipment complies with IC RSS-102 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.

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 20cm de distance entre la source de rayonnement et votre corps.

For product available in the USA/Canada market, only channel 1~11 can be operated. Selection of other channels is not possible.

Pour les produits disponibles aux États-Unis / Canada du marché, seul le canal 1 à 11 peuvent être exploités. Sélection d'autres canaux n'est pas possible.

Visit linksys.com/support for award-winning 24/7 technical support

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