Manuals+ — User Manuals Simplified.

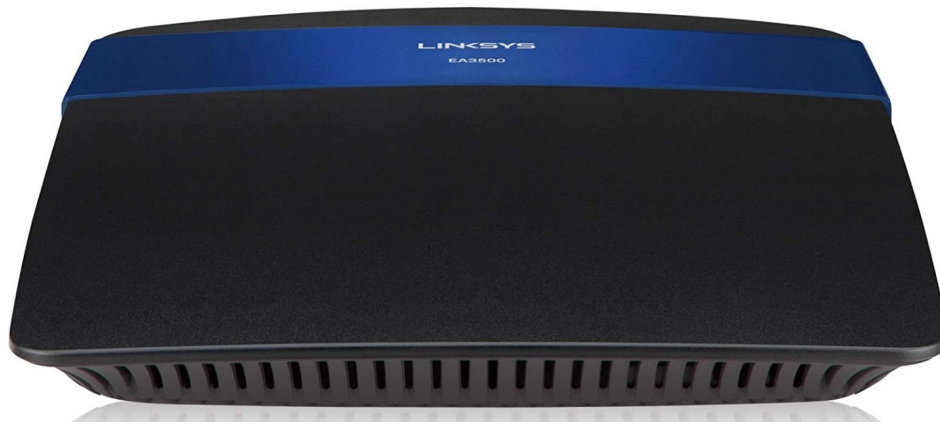# Linksys E3500 Wi-Fi Wireless Dual-Band Router User Manual

Home » Linksys » Linksys E3500 Wi-Fi Wireless Dual-Band Router User Manual

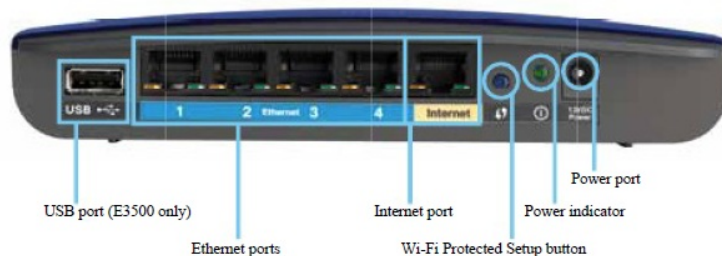**Contents**

Linksys

Linksys E3500 Wi-Fi Wireless Dual-Band Router

Product Overview

E1200/E1500/E2500/E3500

Back view

- **USB port (E3500 only)—** To easily share disk storage with other users on your network or on the Internet, connect a USB drive to this port
- **Ethernet ports—**Connect Ethernet cables (also called network cables) to these Fast Ethernet (10/100, for E1200 and E1500) or Gigabit (10/100/1000, for E2500 and E3500) ports, color-coded blue, and to other wired Ethernet network devices on your network
- **Internet port—**Connect an Ethernet cable (also called a network or Internet cable) to this port, color-coded yellow, and to your modem
- **Wi-Fi Protected Setup™ button—**Press this button to easily configure wireless security on Wi-Fi Protected Setup-enabled network devices For more information, see "Wireless Security" on page 8
- **Power indicator—**Stays on steadily while power is connected and following a successful Wi-Fi Protected Setup connection Flashes slowly during bootup, during firmware upgrades, and during a Wi-Fi Protected Setup connection Flashes quickly when there is a Wi-Fi Protected Setup error
- **Power—**Connect the included AC power adapter to this port
  CAUTION
  Use only the adapter that came with your router
- **Power button—**Press | (on) to turn on the router

Bottom view

Your router's appearance may vary

- **Reset button—**Press and hold this button for 5-10 seconds (until the port lights flash at the same time) to reset the router to its factory defaults You can also restore the defaults using the browser-based utility

E4200

Top view

Indicator light

- **Indicator light—**Stays on steadily while power is connected and following a successful Wi-Fi Protected Setup connection Pulses slowly during bootup, during firmware upgrades, and during a Wi-Fi Protected Setup connection Flashes quickly when there is a Wi-Fi Protected Setup error

Back view

Ethernet ports   Internet port   Power port
Wi-Fi Protected Setup button   Reset button
USB port
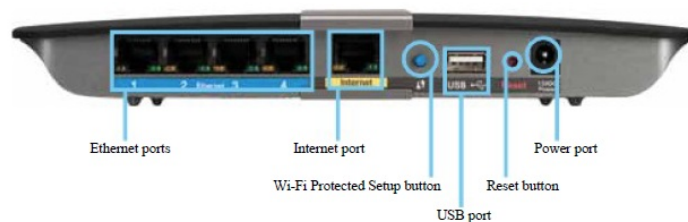
- **Ethernet ports—**Connect Ethernet cables (also called network cables) to this Gigabit (10/100/1000) ports, color-coded blue, and to other wired Ethernet network devices on your network
- **Internet port—**Connect an Ethernet cable (also called a network or Internet cable) to this port, color-coded yellow, and to your modem
- **Wi-Fi Protected Setup™ button—**Press this button to easily configure wireless security on Wi-Fi Protected Setup-enabled network devices For more information, see "Wireless Security" on page 8
- **USB port—**To easily share disk storage with other users on your network or on the Internet, connect a USB drive to this port
- **Reset button—**Press and hold this button for 5-10 seconds (until the port lights flash at the same time) to reset the router to its factory defaults You can also restore the defaults using the browser-based utility

- **Power—**Connect the included AC power adapter to this port

  CAUTION

  Use only the adapter that came with your router
- **Power button—**Press | (on) to turn on the router

Setting Up Your E-Series Router

Where to find more help

In addition to this User Guide, you can find help at these locations:

- **Linksys.com/support** (documentation, downloads, FAQs, technical support, live chat, forums)
- Cisco Connect help (run Cisco Connect, then click Learn More where available)
- Browser-based utility context-sensitive help (open the utility, then click Help in the right-side column)

How to set up your router

The easiest and fastest way to set up your router is to run the Cisco Connect setup software

How to start Cisco Connect

When you run the setup CD, Cisco Connect (your router's setup software) is automatically installed onto your computer You can then use Cisco Connect to easily manage your router

NOTE: If you lose your setup CD, you can download the software from **Linksys.com/support**

To start Cisco Connect for the first time:

1. Insert the CD into your CD or DVD drive
2. Click Set up your Linksys Router

   If you do not see this:
   - For Windows, click Start, Computer, then double-click the CD drive and the Setup icon
   - For Mac, double-click the CD icon on your desktop, then double-click the Setup icon
3. Follow the on-screen instructions to complete your router setup

Use Cisco Connect to manage your router

After your router has been set up and Cisco Connect has been installed, you can use Cisco Connect to easily manage many of your router's settings such as:

- Connect devices to your network
- Test your Internet connection speed Configure parental controls
- Set up guest access
- Change your router's name and password

How to manually set up your router

After setting up the router with the setup software (located on the CD), the router will be ready for use If you would like to change its advanced settings, or if the software does not run, use the router's browser-based utility You can access the utility with a web browser on a computer connected to the router For more information on using the utility, see "How to open the browser-based utility" on page 4

Advanced Configuration

How to open the browser-based utility

To access some advanced settings, you need to open the browser-based utility To open the browser-based utility:

1. Run Cisco Connect, click Change under Router settings, click Advanced settings, then click OK – or – Open a web browser on a computer connected to your network, then go to 192.168.1.1 The router prompts you for a username and password
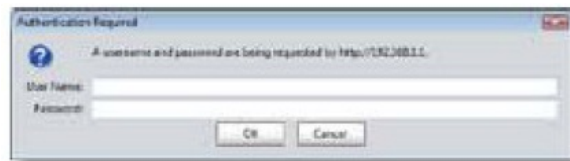
2. Enter the user name and password, then click oK The utility's main menu opens

TIPS

If you set up your router without using Cisco Connect, your router's default password is admin (You can leave the user name blank) If you used Cisco Connect to set up your router, you can see your router's username and password by running Cisco Connect, then clicking Router settings

Setup > Basic Setup

The first screen that appears is the Basic Setup screen This allows you to change the router's general settings

Language

Select your language To use a different language, select one from the drop-down menu The language of the browser-based utility will change five seconds after you select another language

Internet Setup

The Internet Setup section configures the router to your Internet connection Most of this information can be obtained through your Internet Service Provider (ISP)

Internet Connection Type

Select the type of Internet connection your ISP provides from the drop-down menu The available types are:

- Automatic Configuration – DHCP Static IP
- PPPoE
- PPTP
- L2TP
- Telstra Cable

1. **Automatic Configuration – DHCP**

   The default Internet Connection Type is Automatic Configuration – DHCP (Dynamic Host Configuration Protocol) Keep the default only if your ISP supports DHCP or if you connect using a dynamic IP address (This option usually applies to cable connections)

2. **Static IP**

   If you are required to use a fixed IP address to connect to the Internet, select Static IP

3. **PPPoE**

   If you have a DSL connection, check whether your ISP uses Point-to-Point Protocol over Ethernet (PPPoE) If so, select PPPoE

4. **PPTP**

   Point-to-Point Tunneling Protocol (PPTP) is a service that generally applies to connections in Europe If your PPTP connection supports DHCP or a dynamic IP address, then select obtain an IP Address Automatically If you are required

   to use a fixed IP address to connect to the Internet, then select Specify an IP Address and configure the options below

5. **L2TP**

   Layer 2 Tunneling Protocol (L2TP) is a service that generally applies to connections in Israel

6. **Telstra Cable**

   Telstra Cable is a service that generally applies to connections in Australia

7. **Connect on Demand or Keep Alive**

   The Connect on Demand and Keep Alive options let you choose whether the router connects to the Internet only as needed (useful if your ISP charges for connection time), or if the router should always be connected Select the appropriate option

Wireless > Basic Wireless Settings

The basic settings for wireless networking are set on this screen

NOTE: After you set up the wireless network(s), set up the wireless security settings

Wireless Settings

network Mode Select the wireless standards your network will support

- **Mixed** If you have Wireless-N (2 4 GHz), Wireless-G, and Wireless-B devices in your network, keep the default, Mixed
- **Wireless-B/G** only If you have both Wireless-B and Wireless-G (2 4 GHz) devices in your network, select Wireless-B/G only
- **Wireless-B** only If you have only Wireless-B devices, select Wireless-B only
- **Wireless-G** only If you have only Wireless-G devices, select Wireless-G only
- **Wireless-n** only If you have only Wireless-N (2 4 GHz) devices, select Wireless-n only
- **Disabled** If you have no Wireless-B, Wireless-G, and Wireless-N (2 4 GHz) devices in your network, select Disabled

NOTE: If you have a dual-band router, you can select Mixed, Wireless-A Only, Wireless-N Only, or Disabled for the 5 GHz band If you are not sure which mode to use, keep the default, Mixed

network name (SSID)

The Service Set Identifier (SSID) is the network name shared by all devices in a wireless network It is case-

sensitive and must not exceed 32 keyboard characters The default is Cisco followed by the last 5 digits of the router's serial number, which is found on the bottom of the router If you used the setup software for installation, then the default Network Name is changed to an easy-to-remember name

NOTE: If you restore the router's factory default settings (by pressing the Reset button or using the Administration > Factory Defaults screen), the Network Name will return to its default value Change the Network Name back to its original name, or you will have to reconnect all devices on your wireless network to the new network name

Channel Width

For the best performance in a network using Wireless-B, For Wireless-G and Wireless-N (2 4 GHz) devices, select Auto (20 MHz or 40 MHz) For a channel width of 20 MHz, keep the default, 20 MHz only

Channel

Select the channel from the drop-down list for Wireless-B, Wireless-G, and Wireless-N (2 4 GHz) networking If you are not sure which channel to select, then keep the default, Auto

SSID Broadcast

When wireless clients survey the local area for wireless networks to associate with, they will detect the SSID broadcast by the router To broadcast the router's SSID, keep the default, Enabled If you do not want to broadcast the router's SSID, then select Disabled

Wireless Security

Wireless > Wireless Security

The wireless security settings configure the security of your wireless network(s) The router supports the following wireless security options: WPA2/WPA Mixed Mode, WPA2 Personal, WPA Personal, WPA2/WPA Enterprise Mixed Mode, WPA2 Enterprise, WPA Enterprise, WEP, and RADIUS (WPA stands for Wi-Fi Protected Access WEP stands for Wireless Equivalent Privacy RADIUS stands for Remote Authentication Dial-In User Service)

Personal options

Security option	Strength
WPA2 Personal	Strongest
WPA2/WPA Mixed Mode	WPA2: Strongest WPA: Strong
WPA Personal	Strong
WEP	Basic

Office options

The office options are available for networks that use a RADIUS server for authentication, The office options are stronger than the personal options because WPA2 or WPA provides encryption while RADIUS provides authentication
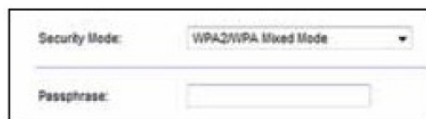
Security option	Strength
WPA2 Enterprise	Strongest
WPA2/WPA Enterprise Mixed Mode	WPA2: Strongest WPA: Strong
WPA Enterprise	Strong
RADIUS	Basic

Option settings

WPA2/WPA Mixed Mode, WPA2 Personal, WPA Personal

NOTES

- If you select WPA2/WPA Mixed Mode as your Security Mode, each device in your wireless network MUST use WPA2/WPA and the same passphrase
- If you select WPA2 Personal as your Security Mode, each device in your wireless network MUST use WPA2 Personal and the same passphrase
- If you select WPA Personal as your Security Mode, each device in your wireless network MUST use WPA Personal and the same passphrase

Passphrase

Enter a passphrase of 8-63 characters The default is password If you used the setup software for installation, then the default is changed to a unique passphrase, which you can find by running Cisco Connect, then clicking Router settings WPA2/WPA Enterprise Mixed Mode, WPA2 Enterprise, WPA Enterprise These option is used in coordination with a RADIUS server (These should only be used when a RADIUS server is connected to the router)

NOTES

- If you select WPA2/WPA Enterprise Mixed Mode as your Security Mode, each device in your wireless network MUST use WPA2/WPA Enterprise and the same shared key
- If you select WPA2 Enterprise as your Security Mode, each device in your wireless network MUST use WPA2 Enterprise and the same shared key
- If you select WPA Enterprise as your Security Mode, each device in your wireless network MUST use WPA Enterprise and the same shared key

- RADIUS Server Enter the IP address of the RADIUS server
- RADIUS Port Enter the port number of the RADIUS server The default is 1812
- Shared Key Enter the key shared between the router and the server

WEP

WEP is a basic encryption method, which is not as secure as WPA

NOTE: If you select WEP as your Security Mode, each device in your wireless network MUST use WEP and the same encryption and shared key

- **Encryption** Select a level of WEP encryption, (40/64-bit 10 hex digits) or 104/128-bit (26 hex digits) The default is 40/64-bit (10 hex digits)
- **Passphrase** Enter a passphrase to automatically generate WEP keys Then click Generate
- **Key 1-4** If you did not enter a passphrase, enter the WEP key(s) manually
- **TX Key** Select a default TX (Transmit) Key to use The default is 1

RADIUS

This option features WEP used in coordination with a RADIUS server (This should only be used when a RADIUS server is connected to the router)

NOTE: If you select RADIUS as your Security Mode, each device in your wireless network MUST use RADIUS and the same encryption and shared key

- **RADIUS Server** Enter the IP address of the RADIUS server
- **RADIUS Port** Enter the port number of the RADIUS server The default is 1812
- **Shared Secret** Enter the key shared between the router and the server
- **Encryption** Select a level of WEP encryption, (40/64-bit 10 hex digits) or 104/128-bit (26 hex digits) The default is 40/64-bit (10 hex digits)
- **Passphrase** Enter a passphrase to automatically generate WEP keys Then click Generate
- **Key 1-4** If you did not enter a passphrase, enter the WEP key(s) manually
- **TX Key** Select a default TX (Transmit) Key to use The default is 1

Disabled

If you choose to disable wireless security, you will be informed that wireless security is disabled when you first attempt to access the Internet You will be given the option to enable wireless security or confirm that you understand the risks but still wish to proceed without wireless security

Troubleshooting

This chapter can help you solve common setup issues and connect to the Internet Your router's CD includes Cisco Connect, the router setup software that makes it easy to connect network devices, change router settings, control guest access, enable parental controls, and connect to the Internet Cisco Connect is also installed onto your computer during setup If Cisco Connect is prevented from completing the setup, this chapter will guide you through finding solutions

You can find more help from our award-winning customer support at **linksys.com/support**.

How to run Cisco Connect after setup

When you run the setup CD, Cisco Connect is automatically installed onto your computer You can then use Cisco Connect to easily manage your network

To start Cisco Connect on a Windows computer:

1. Click Start, All Programs, then click Cisco Connect The Cisco Connect main menu opens

To start Cisco Connect on a Mac oS X computer:

1. Open Finder and click Applications in the left panel

2. Double-click the Cisco Connect icon The Cisco Connect main menu opens

Your router was not successfully set up
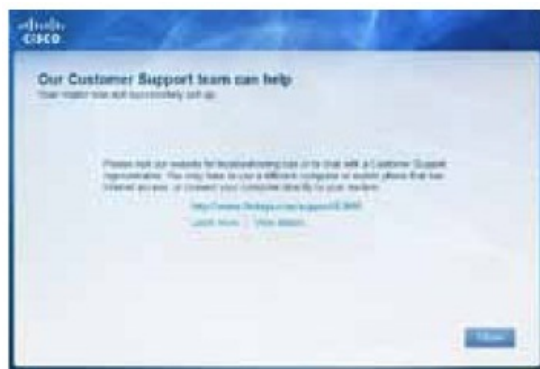
If Cisco Connect did not complete the setup, you can try the following:

- Press and hold the Reset button on your router with a paperclip or pin for 10-15 seconds, then run the Setup program again on the router's CD

Your router's appearance may vary

- Temporarily disable your computer's firewall (see the security software's instructions for help), then run the Setup program again on the router's CD
- If you have another computer, use that computer to run the Setup program again on the router's CD

Get Windows XP Service Pack 3 message

On Windows XP computers, Cisco Connect requires Service Pack 3 in order to work If you receive a "Get Windows Service Pack 3" message when setting up your router for the first time, follow these troubleshooting steps

If the currently installed Service Pack is older than version 3, you need to download and install Service Pack 3

TIP

To temporarily connect to the Internet and download the required Service Pack, you can use the included Ethernet cable to connect your computer directly to your modem

To install Service Pack 3:

1. Click the link in the Cisco Connect error message or connect to the Microsoft Update website (**update.microsoft.com/windowsupdate**)
2. Follow the instructions on the website or contact Microsoft if you need further help
3. After downloading and installing Service Pack 3, run the Setup program on your router's CD

Your Internet cable is not plugged in message

If you get a "Your Internet cable is not plugged in" message when trying to set up your router, follow these troubleshooting steps

To fix the problem:

1. Make sure that an Ethernet or Internet cable (or a cable like the one supplied with your router) is securely connected to the yellow Internet port on the back of the router and to the appropriate port on your modem This port on the modem is usually labeled Ethernet, but may be named Internet or WAn

Back view of router

Back view of cable modem

Back view of DSL modem

2. Make sure that your modem is connected to power and is turned on If it has a power switch, make sure that it is set to the on or I position
3. If your Internet service is cable, verify that the cable modem's CABLE port is connected to the coaxial cable provided by your ISP Or, if your Internet service is DSL, make sure that the DSL phone line is connected to the modem's DSL port
4. If your computer was previously connected to your modem with a USB cable, disconnect the USB cable
5. Return to the Cisco Connect window and click next to try again If the window has already been closed, run the Setup program again on the router's CD

Cannot access your router message

If you cannot access your router because your computer is not connected to your network, follow these troubleshooting steps
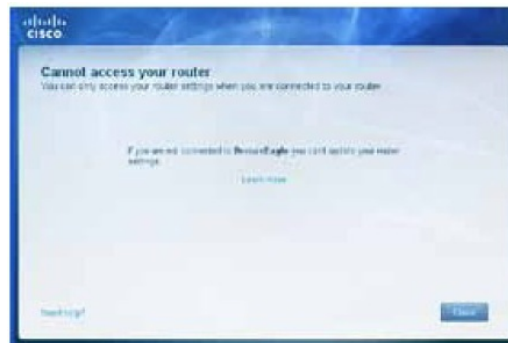
To access your router, you must be connected to your own network If you currently have wireless Internet access, the problem may be that you have accidentally connected to a different wireless network

To fix the problem on Windows computers:

1. On your Windows desktop, right-click the wireless icon in the system tray

2. Click View Available Wireless networks A list of available networks appears

3. Click your own network name, then click Connect 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 shown 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, then click Connect

Your computer connects to the network, and you should now be able to access the router

To fix the problem on Mac computers:

1. In the menu bar across the top of the screen, click the AirPort icon A list of wireless networks appears Cisco 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 shown selected
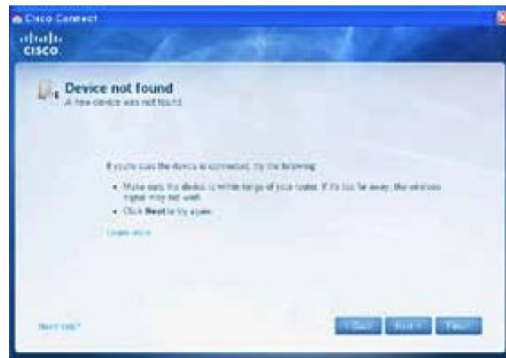

2. Click the wireless network name of your Linksys E-Series router (BronzeEagle in the example)
3. Type your wireless network password (Security Key) into the Password field, then click OK

Device not found message

If you get a "Device not found" message when trying to connect a network device (such as an iPhone, iPod, or smartphone), follow these troubleshooting steps

TIP

For a stronger signal during initial setup, move your wireless devices near your router Long distances make it harder for the router to detect the devices

To fix the problem:

1. Run Cisco Connect

2. Click Computers and Devices The Computers and other devices window appears
3. Click other Wireless devices

4. Enable your wireless network device's Wi-Fi connection, then search for your wireless network name See your device documentation for help

   NOTE: Your wireless device must support WPA/WPA2

5. On the wireless network device, select the network name of your router and enter the password (Security Key)
6. In Cisco Connect, click next

Example: On your Smartphone or other wireless device, locate the Wi-Fi menu and search for available wireless networks In this example, using the network information provided by Cisco Connect shown in the previous screen, click BronzeEagle

Android   iPhone

7. Enter the password (Security Key) provided by Cisco Connect In this example, the security key is B6eM9UkCjz
   NOTE: The password is case-sensitive Make sure that you enter letters in the correct case
8. When your wireless device is successfully connected to your wireless network, enter a name for the device in Cisco Connect, then click Finish

Specifications

Linksys E1200

- **Model Name:** Linksys E1200
- **Description:** Wireless-N Router
- **Model Number:** E1200
- **Standards:** 802 11n, 802 11g, 802 11b, 802 3u
- **Ports:** Power, Internet, and Ethernet (1-4)
- **Buttons:** Reset, Wi-Fi Protected Setup™
- **LEDs:** Power/Wi-Fi Protected Setup, Internet, Ethernet (1-4)
- **Cabling Type:** CAT 5e

- **Transmitted Power:**
  - **802 11n (20 MHz):** 15 0 ± 1 5dBm @ CH6, MCS 0~4, MCS 8~12 13 5 ± 1 5dBm @ CH6, MCS 5~7, MCS 13~15
  - **802 11n (40 MHz):** 14 0 ± 1 5dBm @ CH6, MCS 0~4, MCS 8~12 13 5 ± 1 5dBm @ CH6, MCS 5~7, MCS 13~15
  - **802 11g:** 14 5 ± 1 5dBm @ CH6, all rates
  - **802 11b:** 16 5 ± 1 5dBm @ CH6, all rates
- **Antenna Gain:** ≤2 5 dBi, ≤4 0 dBi (2 antennas)
- **UPnP:** Supported
- **Wireless Security:** Wi-Fi Protected Access™ 2 (WPA2), WEP, wireless MAC filtering
- **Security Key Bits:** Up to 128-bit encryption

Environmental

- **Dimensions:** 188 7 × 151 7 × 31 2 mm (7 43" × 5 97" × 1 23") Unit Weight 252 7g (8 91 oz)
- **Power:** 12V, 0 5A
- **Certifications:** FCC, UL/cUL, ICES-003, RSS210, CE, Wi-Fi (IEEE 802 11b/g/n), WPA2™, WMM®, Wi-Fi Protected Setup, Windows 7
- **Operating Temp:** 0 to 40°C (32 to 104°F)
- **Storage Temp:** -20 to 60°C (-4 to 140°F)
- **Operating Humidity:** 10 to 80% non-condensing
- **Storage Humidity:** 5 to 90% non-condensing

NOTES

For regulatory, warranty, and safety information, see the CD that came with your router or go to **Linksys.com/support** Specifications are subject to change without notice Maximum performance is derived from IEEE Standard 802 11 specifications Actual performance can vary, including lower wireless network capacity, data throughput rate, range and coverage Performance depends on many factors, conditions and variables, including distance from the access point, volume of network traffic, building materials and construction, operating system used, the mix of wireless products used, interference and other adverse conditions

Linksys E1500

- **Model Name:** Linksys E1500
- **Description:** Wireless-N Router with SpeedBoost
- **Model Number:** E1500
- **Standards:** 802 11n, 802 11g, 802 11b, 802 3u
- **Ports:** Power, Internet, and Ethernet (1-4)
- **Buttons:** Reset, Wi-Fi Protected Setup
- **LEDs:** Power/Wi-Fi Protected Setup, Internet, Ethernet (1-4)
- **Cabling Type:** CAT 5e
- **Transmitted Power:**

- **802 11n (20 MHz):** 17 0 ± 1 5 dBm @ CH6, MCS 0~4, MCS 8~12 16 0 ± 1 5 dBm @ CH6, MCS 5~7, MCS 13~15
- **802 11n (40 MHz):** 15 5 ± 1 5 dBm @ CH6, MCS 0~4, MCS 8~12 14 0 ± 1 5 dBm @ CH6, MCS 5~7, MCS 13~15
- **802 11g:** 18 0 ± 1 5 dBm @ CH6, 6 Mbps 17 0 ± 1 5 dBm @ CH6, 54 Mbps
- **802** 11b:18 0 ± 1 5 dBm @ CH6, all rates
- **Antenna Gain:** ≤3 0 dBi, ≤4 0 dBi, ≤4 5 dBi (3 antennas)
- **UPnP:** Supported
- **Wireless Security:** Wi-Fi Protected Access 2 (WPA2), WEP, wireless MAC filtering
- **Security Key Bits:** Up to 128-bit encryption

Environmental

- **Dimensions:** 188 7 × 151 7 × 31 2 mm (7 43" × 5 97" × 1 23")
- **Unit Weight:** 254 1g (8 96 oz)
- **Power:** 12V, 0 5A
- **Certifications:** FCC, UL/cUL, ICES-003, RSS210, CE, Wi-Fi (IEEE 802 11b/g/n), WPA2, WMM, Wi-Fi Protected Setup, Windows 7
- **Operating Temp:** 0 to 40°C (32 to 104°F)
- **Storage Temp:** -20 to 60°C (-4 to 140°F)
- **Operating Humidity:** 10 to 80% non-condensing
- **Storage Humidity:** 5 to 90% non-condensing

NOTES

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Linksys E2500

- **Model Name:** Linksys E2500
- **Description:** Advanced Dual-Band N Router
- **Model Number:** E2500
- **Standards:** 802 11n, 802 11a, 802 11g, 802 11b, 802 3, 802 3u, 802 3ab
- **# of Antennas:** 4 total, 2 internal antennas per each 2 4 GHz & 5 GHz radio band
- **Detachable (y/n):** No
- **Modulation:**

  802 11b: CCK, QPSK, BPSK

  802 11g: OFDM

  802 11a: OFDM

  802 11n: BPSK, QPSK, 16-QAM, 64-QAM

- **Receive Sensitivity (Typical):**
  - **2 4 GHz**

    802 11b: -87 dBm @ 11 Mbps

    802 11g: -70 dBm @ 54 Mbps

    802 11n 20 MHz: -70 dBm @ MCS15 802 11n 40 MHz: -66 dBm @ MCS15
  - **5 GHz**

    802 11a: -70 dBm @ 54 Mbps

    802 11n 20 MHz: -66 dBm @ MCS23 802 11n 40 MHz: -62 dBm @ MCS23
- **Antenna Gain in dB:**
  - **2 4 GHz:**

    Antenna 1 (right rear): ≤2 94 dBi Antenna 2 (front right): ≤3 78 dBi
  - **5 GHz:**

    Antenna 1 (right front): ≤5 86 dBi Antenna 2 (front left): ≤4 88 dBi
- **UPnP:** Supported
- **Security features:** WEP, WPA, WPA2
- **Security Key Bits:** Up to 128-bit encryption

Environmental

- **Dimensions:** 225 x 35 x 180 mm (8 86" x 1 38" x 7 09")
- **Unit Weight:** 452 g (15 94 oz)
- **Power:** 12V, 1A
- **Certifications:** FCC, IC, CE, Wi-Fi A/B/G/N
- **Operating Temp:** 0 to 40°C (32 to 104°F)
- **Storage Temp:** -20 to 60°C (-4 to 140°F)
- **Operating Humidity:** 10 to 80%, relative humidity, non-condensing
- **Storage Humidity:** 5 to 90% non-condensing

NOTES

For regulatory, warranty, and safety information, see the CD that came with your router or go to
Linksys.com/support Specifications are subject to change without notice Maximum performance is derived from
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distance from the access point, volume of network traffic, building materials and construction, operating system
used, mix of wireless products used, interference and other adverse conditions

Linksys E3500

- **Model Name:** Linksys E3500
- **Description:** Dual-Band N750 Router with Gigabit and USB
- **Model Number:** E3500
- **# of Antennas:** 6 total, 3 internal antennas per each 2 4 GHz & 5 GHz radio band
- **Detachable (y/n):** No
- **Switch Port Speed:** 10/100/1000 Mbps

- **Ports:** Internet, Ethernet (1-4), USB, Power
- **Buttons:** Reset, Wi-Fi Protected Setup
- **LEDs: Power, Ethernet (1-4)**
- **Modulation:**
    - **802 11b:** CCK, QPSK, BPSK
    - **802 11g:** OFDM
    - **802 11a:** OFDM
    - **802 11n:** BPSK, QPSK, 16-QAM, 64-QAM
- **Receive Sensitivity:**
    - **2 4 GHz**
    802 11b: -87 dBm @ 11 Mbps (Typical)
    802 11g: -77 dBm @ 54 Mbps (Typical)
    802 11n (20 MHz): -71 dBm @ MCS15 (Typical) 802 11n (40 MHz): -68 dBm @ MCS15 (Typical)
    - **5 GHz**
    802 11a: -75 dBm @ 54 Mbps (Typical)
    802 11n 20 MHz: -70 dBm @ MCS15 (Typical) 802 11n 40 MHz: -67 dBm @ MCS15 (Typical)
- **Antenna Gain:**
    - **2 4 GHz (Dipole Antennas) Antenna** 1 ≤ 2.69 dBi (right) Antenna 2 ≤ 3.67 dBi (left) Antenna 3 ≤ 4.95 dBi (front)
    - **5 GHz (Dipole Antennas) Antenna** 1 ≤ 4.73 dBi (right) Antenna 2 ≤ 3.32 dBi (left) Antenna 3 ≤ 3.88 dBi (front)
- **UPnP:** Supported
- **Security features:** WEP, WPA, WPA2
- **Security key bits:** Up to 128-bit encryption Storage File System Support FAT, NTFS, and HFS+

Environmental

- **Dimensions:** 6 69" x 0 98" x 7 48" (170 x 25 x 190 mm)
- **Unit Weight:** 7 62 oz (216 g)
- **Power:** 12V, 2A
- **Certifications:** FCC, IC, CE, Wi-Fi A/B/G/N
- **Operating Temp:** 32 to 95°F (0 to 35°C)
- **Storage Temp:** -4 to 140°F (-20 to 60°C)
- **Operating Humidity:** 10 to 80% relative humidity, non-condensing
- **Storage Humidity:** 5 to 90% non-condensing

NOTES
For regulatory, warranty, and safety information, see the CD that came with your router or go to
Linksys.com/support Specifications are subject to change without notice Maximum performance derived from IEEE Standard 802 11 specifications Actual performance can vary, including lower wireless network capacity, data throughput rate, range, and coverage Performance depends on many factors, conditions, and variables, including distance from the access point, the volume of network traffic, building materials and construction, operating system used, the mix of wireless products used, interference and other adverse conditions

Linksys E4200

- **Model Name:** E4200
- **Description:** Maximum Performance Wireless-N Router
- **Model Number:** E4200
- **Standards:** 802 11n, 802 11a, 802 11g, 802 11b, 802 3, 802 3u, 802 3ab
- **Radio Frequency:** 2 4 and 5 GHz
- **Switch Port Speed:** 10/100/1000 Mbps (Gigabit Ethernet)
- **Ports:** Power, USB, Internet, Ethernet (1-4)
- **Buttons:** Reset, Wi-Fi Protected Setup
- **LEDs:**
    - **Top panel:** Power
    - **Back panel:** Internet, Ethernet (1-4)
- **Number of Antennas:** 6 total, 3 internal antennas per each 2 4 GHz and 5 GHz radio band
- **Detachable (y/n):** No
- **Modulations:**

  802 11b: CCK, QPSK, BPSK

  802 11g: OFDM

  802 11a: OFDM

  802 11n: BPSK, QPSK, 16-QAM, 64-QAM
- **Receive Sensitivity:**
    - **2 4 GHz**

      802 11b: -87 dBm @ 11 Mbps (Typical)

      802 11g: -77 dBm @ 54 Mbps (Typical)

      802 11n: 20 MHz: -70 dBm @ MCS23 (Typical) 802 11n: 40 MHz: -66 dBm @ MCS23 (Typical)
    - **5 GHz**

      802 11a: -74 dBm @ 54 Mbps (Typical)

      802 11n: 20 MHz: -67 dBm @ MCS23 (Typical) 802 11n: 40 MHz: -64 dBm @ MCS23 (Typical)
- **Antenna Gain in dBi:**
    - **2 4 GHz (3 internal PIFA antennas)**

      PIFA 1 ≤ 3 31 dBi (Right)

      PIFA 2 ≤ 3 45 dBi (Front)

      PIFA 3 ≤ 1 96 dBi (Left)
    - **5 GHz (3 internal PIFA antennas)**

      PIFA 1 ≤ 3 71 dBi (Right)

      PIFA 2 ≤ 3 60 dBi (Front)

      PIFA 3 ≤ 4 27 dBi (Left)
- **Supported File Systems for Storage Devices:** FAT32, NTFS, and HSF+
- **UPnP:** Supported
- **Security Features:** WEP, WPA, WPA2
- **Security Key Bits:** Up to 128-bit encryption

Environmental

- **Dimensions:** 8 86" x 0 98" x 6 30" (225 x 25 x 160 mm)

- **Unit Weight:** 12 7 oz (0 36 g)
- **Power:** 12V, 2A
- **Certifications:** FCC, IC, CE, Wi-Fi a/b/g/n, Windows 7, DLNA
- **Operating Temp:** 32 to 104°F (0 to 40°C)
- **Storage Temp:** -4 to 140°F (-20 to 60°C)
- **Operating Humidity:** 10 to 80% relative humidity, non-condensing
- **Storage Humidity:** 5 to 90% non-condensing

NOTES

For regulatory, warranty, and safety information, see the CD that came with your router or go to **Linksys.com/support** Specifications are subject to change without notice Maximum performance is derived from IEEE Standard 802 11 specifications Actual performance can vary, including lower wireless network capacity, data throughput rate, range and coverage Performance depends on many factors, conditions, and variables, including distance from the access point, the volume of network traffic, building materials and construction, operating system used, a mix of wireless products used, interference and other adverse conditions

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FREQUENTLY ASKED QUESTIONS

What is the maximum wireless speed supported by the Linksys E3500 Wi-Fi Wireless Dual-Band Router?

The Linksys E3500 supports a maximum wireless speed of up to 300 Mbps.

Does the Linksys E3500 support both 2.4 GHz and 5 GHz bands?

Yes, the Linksys E3500 is a dual-band router, meaning it supports both 2.4 GHz and 5 GHz frequency bands.

What security features does the Linksys E3500 offer?

The Linksys E3500 supports several security features, including WPA2 encryption, SPI firewall, and MAC address filtering, to help protect your network from unauthorized access.

Can I connect a USB device to the Linksys E3500?

No, the Linksys E3500 does not have a USB port, so you cannot directly connect USB devices to it.

Does the Linksys E3500 support guest networks?

Yes, the Linksys E3500 has a guest network feature that allows you to create a separate network for guests

to use while keeping your main network secure.

Can I set up parental controls with the Linksys E3500?

Yes, the Linksys E3500 supports parental controls, which allow you to restrict access to certain websites or set specific time limits for internet usage.

Does the Linksys E3500 have Quality of Service (QoS) capabilities?

Yes, the Linksys E3500 supports Quality of Service (QoS), which allows you to prioritize certain types of internet traffic for a better online experience.

What is the range of the Linksys E3500 router?

The range of the Linksys E3500 router can vary depending on factors such as the environment and obstacles, but it is typically suitable for small to medium-sized homes.

Can I connect multiple devices to the Linksys E3500 simultaneously?

Yes, the Linksys E3500 supports multiple device connections, allowing you to connect several devices wirelessly or through Ethernet ports.

Does the Linksys E3500 have a built-in modem?

No, the Linksys E3500 is a standalone router and does not have a built-in modem. You would need to connect it to a separate modem or gateway device for internet connectivity.

Is it possible to set up a VPN connection with the Linksys E3500?

Yes, the Linksys E3500 supports VPN passthrough, which means you can connect to a VPN server using a device connected to the router.

Can I monitor and manage the router remotely?

Yes, the Linksys E3500 has a web-based management interface that allows you to monitor and manage the router's settings remotely through a compatible web browser.

What is the physical size of the Linksys E3500 router?

The Linksys E3500 has dimensions of approximately 7.4 x 6 x 1.2 inches (18.8 x 15.2 x 3 cm).

Does the Linksys E3500 support IPv6?

Yes, the Linksys E3500 supports IPv6, the latest version of the Internet Protocol.

Can I use the Linksys E3500 as a wireless range extender?

No, the Linksys E3500 is not specifically designed to function as a wireless range extender. It is a standalone router meant to provide wireless connectivity in a network.

VIDEO – PRODUCT OVERVIEW

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