



# Using Your Adapter

## AE1200/AE2500 Wireless-N USB Network Adapter

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## **Product Overview**

Thank you for choosing the Linksys Wireless-N USB adapter. Using the latest wireless networking technology, the adapter adds or upgrades wireless connectivity on your Windows-based desktop or laptop computer. To help protect your data and privacy, you can use Wi-Fi Protected Access 2 (WPA2) encryption to protect your wireless connection.

### **Features**



**USB plug:** Connect this end to any available USB port on your computer. **LED:** Flashes when there is wireless network activity.

## Installation

This chapter describes the procedure for installing the adapter.

## Installation

To install the adapter:

1. Insert the CD into your CD or DVD drive.



2. Click Set up your Linksys Adapter.



If you do not see this, access setup on the CD directly. To do so, perform the following steps for your specific operating system:

#### Windows 7

- a. Go to Start > Computer.
- **b.** Double-click your CD or DVD drive.

#### **Windows Vista**

- a. Go to Start > Computer.
- **b.** Double-click your CD or DVD drive.

#### Windows XP

- a. Go to Start > My Computer and select your CD or DVD drive.
- **b.** Double-click **Setup.exe**.
- **3.** Follow the on-screen instructions to finish setting up your Linksys wireless adapter.



#### Note

You need to run Setup only once to install your adapter. After you run Setup, your computer recognizes the adapter each time it is connected to your computer's USB port.

## Wireless Network Configuration

To configure the adapter's wireless connection settings, use a wireless network configuration utility. If you have installed such a utility on your computer, or if your computer came with one already installed, refer to that utility's documentation for instructions on use. Otherwise, follow the instructions in the appropriate section below to use your operating system's built-in utility:

- "Windows 7" on page 3
- "Windows Vista" on page 4
- "Windows XP" on page 6

### Windows 7

After you have installed the adapter, the *Wireless Network Configuration* utility icon appears on your computer's system tray. (If you do not see the icon, click the *Show hidden icons* arrow in the system tray.)



When your mouse pointer hovers over the icon, the status information of your wireless connection appears.



### **New Wireless Connection**

To connect to a different wireless network:

1. Click the **Wireless Network Configuration** utility icon. A list of available wireless networks appears.



2. Select your network, and then click **Connect**.



3. If your network does not use wireless security, go to step 5.

**4.** Enter the Wi-Fi Protected Access (WPA/WPA2) passphrase or the Wired Equivalent Privacy (WEP) key (depending on your type of security), then click **OK**.

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Type the network	c security key	
Security key:		3.
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Ø.	You can also connect by pushing the suffers on the route:	
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This screen appears while the adapter connects to your network. Do not cancel, unless you want to end the connection.

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Your computer is now connected to your wireless network.

#### Note

For help with the Wireless Network Configuration utility, click **Start**, then click **Help and Support**.

### **Windows Vista**

After you have installed the adapter, the *Wireless Network Configuration* utility icon appears on your computer's system tray.



When your mouse pointer hovers over the icon, the status information of your wireless connection appears.



### **New Wireless Connection**

To connect to a different wireless network:

- 1. Right-click the **Wireless Network Configuration** utility icon.
- 2. Click Connect to a network.



**3.** Select your network, then click **Connect**.



4. If your network uses wireless security, go to Step 5.

If your network does **not** use wireless security, this screen appears.

**a.** To connect to your unsecured network, click **Connect Anyway** and go to Step 6.



 Enter the Wi-Fi Protected Access (WPA/WPA2) passphrase or the Wired Equivalent Privacy (WEP) key (depending on your type of security), then click Connect.

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This screen appears while the adapter connects to your network. Do not cancel, unless you want to end the installation.

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Connecting to My/Network	
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This screen appears when you are connected to your network.

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	( Dec. )
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6. If you want to save your settings, select **Save this network**.

#### 7. Click Close.

The Set Network Location screen may appear. This screen helps apply the correct settings for your type of location.



**a.** Click **Home**, **Work**, or **Public location**, then click **Close** on the resulting screen.

#### Note

For help with the Wireless Network Configuration utility, click **Start**, then click **Help and Support**.

Your computer is now connected to your wireless network.

### Windows XP

After you have installed the adapter, the **Windows XP Wireless Zero Configuration Utility** icon appears on your computer's system tray.



When your mouse pointer hovers over the icon, the status information of your wireless connection appears.



### **New Wireless Connection**

#### To connect to a new wireless network:

- Right-click the Windows XP Wireless Zero Configuration icon in your computer's system tray, then click View Available Wireless Networks. A window displays the available wireless networks.
- 2. Select the network that you want, then click Connect.

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If the network uses wireless security, go to Step 4. Otherwise, continue to Step 3.

**3.** Click **Connect Anyway** to connect the adapter to your unsecured network, then go to Step 5.

Wireless Netw	wik Connection	8
1 You are the	connecting to the unsecured network "triags". John I network is not encrypted and night be visible to of	relation sent her people.
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**4.** If your network uses Wired Equivalent Privacy (WEP) wireless security, enter the WEP Key in the *Network key* and *Confirm network key* fields. If your network uses Wi-Fi Protected Access (WPA/WPA2) wireless security, enter the passphrase in the *Network key* and *Confirm network key* fields. Click **Connect**.

The network Tricips' requirements have been as a second to be a se	ares a nativork key (also called a WEP key or WPA key). A d uninesse intrudiers from connecting to this national.
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#### Note

Windows XP Wireless Zero Configuration does not support the use of a WEP passphrase. Enter the exact WEP key used by your wireless router or access point.

#### Note

If your network is using WPA2 security, make sure that you have installed the Update for Windows XP (KB893357), available at **www.microsoft.com**.

Your wireless network will appear as *Connected* when your connection is active.



#### Note

For help with the Wireless Network Configuration utility, click **Start**, then click **Help and Support**.

Your computer is now connected to your wireless network.

## Troubleshooting

### AE1200/AE2500

#### Your computer does not recognize the adapter.

- Make sure that the adapter is properly inserted into your computer's USB slot.
- Connect the adapter into a different USB port.

#### The adapter does not work properly.

Remove the adapter, and then reinsert it into the computer's USB slot.

## Your computer cannot communicate with the other computers on your wireless network.

- **1.** Make sure that the computers are powered on.
- 2. Make sure that the adapter is configured with the same Wireless Network Name (also called the SSID or Service Set Identifier) and wireless security settings as the other computers on your wireless network.

#### Note

If your questions are not addressed here, refer to our support section on the web at Linksys.com/support.

## Specifications

Linksys AE12	00	Antenna Gain in dBi	Antenna 1: ≤ -1.2 dBi Antenna 2: ≤-1.0 dBi
<b>Model Name</b> Description Model Number	<b>Linksys AE1200</b> High Performance Wireless-N USB Adapter AE1200	Power Consumption	TX: MCS15 @20 MHz: 278 mA MCS8 @20 MHz: 371 mA MCS15 @40 MHz: 266 mA MCS8 @40 MHz: 344 mA
Standards Interface	802.11b, 802.11g, 802.11n USB 2.0		RX: 20 MHz: 111 mA Standby: 37 mA
LEDs Antennas	Link/Act 2 Internal Single-band	Security Features	Radio Off: 37 mA WEP, WPA & WPA2 Personal, WPA & WPA2 Enterprise, WPS
Transmitted Power	802.11b: 15 dBm $\pm$ 2.0 802.11g: 15 dBm $\pm$ 2.0 801.11n: MCS15 (20 MHz): 15 dBm $\pm$ 2.0 MCS8 (20 MHz): 15 dBm $\pm$ 2.0 MCS7 (20 MHz): 15 dBm $\pm$ 2.0 MCS0 (20 MHz): 15 dBm $\pm$ 2.0 MCS15 (40 MHz): 13 dBm $\pm$ 2.0 MCS8 (40 MHz): 13 dBm $\pm$ 2.0 MCS7 (40 MHz): 13 dBm $\pm$ 2.0 MCS7 (40 MHz): 13 dBm $\pm$ 2.0 MCS0 (40 MHz): 15 dBm $\pm$ 2.0 MCS0 (40 MHz): 15 dBm $\pm$ 2.0 802 11b: ( $\pm$ 2/-4 dB)	Security Key Bits	Up to 128-Bit Encryption
		OS Requirements	Windows XP, Windows Vista, Windows Vista 64-bit Edition, Windows 7, or Windows 7 64-bit
		Environmental	
Pocoivo Consitivity		Dimensions Weight	2.87" x 0.94" x 0.35" (73.0 x 23.8 x 9.0 mm) 0.39 oz (11 g)
		Certification	FCC, CE, IC, UL, RoHS, WEEE, IDA, C-Tick, Wi-Fi B/G/N
	DBPSK: -96 dBm Typical DQPSK: -96 dBm Typical CCK: -90 dBm Typical	Operating Temp. Storage Temp. Operating Humidity	32 to 104°F (0 to 40°C) -4 to 158°F (–20 to 70°C) 10 to 85% Noncondensing
	802.11g: (+2/-4 dB) BPSK: -93 dBm Typical QPSK: -90 dBm Typical 16-QAM: -84 dBm Typical 64-QAM: -76 dBm Typical	Storage Humidity Model Name Description Specifications are subject to cha	5 to 90% Noncondensing Linksys AE2500 High Performance Dual-Band Wireless-N USB Adapter ange without notice.
	802.11n: (+2/-4 dB) -72 dBm @MCS15 (20 MHz) -90 dBm @MCS0 (20 MHz) -68 dBm @MCS15 (40 MHz) -87 dBm @MCS0 (40 MHz)		

Linksys AE2500		Antenna Gain in dBi	Antenna 1 2 4 GHz <sup>,</sup> < 3 dBi
Model Number	AE2500		5.15~5.35 GHz: ≤ 1.5 dBi
Standards	802.11a, 802.11b, 802.11g, 802.11n		5.5~5.85 GHz: ≤ 4.5 dBi
Interface	USB 2.0		Antenna 2
LEDs Antennas	Link/Act 2 Internal Dual-band (selectable)		2.4 GH2: ≤ 4.0 dbi 5.15~5.35 GHz: ≤ 1.0 dBi 5.5~5.85 GHz: < 5.0 dBi
Transmitted Power	802.11a: 14 dBm ± 2.0 802.11b: 15 dBm ± 2.0 802.11g: 15 dBm ± 2.0 801.11n: MCS15 (20 MHz): 14 dBm ± 2.0 MCS8 (20 MHz): 14 dBm ± 2.0 MCS7 (20 MHz): 14 dBm ± 2.0 MCS0 (20 MHz): 14 dBm ± 2.0 MCS15 (40 MHz): 13 dBm ± 2.0 MCS8 (40 MHz): 13 dBm ± 2.0 MCS7 (40 MHz): 13 dBm ± 2.0	Power Consumption	TX: MCS15 @20 MHz: 364 mA MCS8 @20 MHz: 447 mA MCS15 @40 MHz: 316 mA MCS8 @40 MHz: 430 mA
			RX: 20 MHz: 176 mA 40 MHz: 173 mA Standby: 48 mA Radio Off: 48 mA
		Security Features	WEP, WPA & WPA2 Personal, WPA & WPA2 Enterprise, WPS
	MCS0 (40 MHz): 13 dBm ± 2.0	Security Key Bits	Up to 128-Bit Encryption
Receive Sensitivity	802.11b: (+2/-4 dB) DBPSK: -96 dBm Typical DQPSK: -96 dBm Typical	OS Requirements	Windows XP, Windows Vista, Windows Vista 64-bit Edition, Windows 7, or Windows 7 64-bit
	CCK: -90 dBm Typical	Environmental	
	802.11g: (+2/-4 dB) BPSK: -93 dBm Typical QPSK: -90 dBm Typical 6-QAM: -84 dBm Typical 64-QAM: -76 dBm Typical	Dimensions Weight	2.87" x 0.94" x 0.35" (73.0 x 23.8 x 9.0 mm) 0.39 oz (11 g)
		Certification	FCC, CE, IC, UL, RoHS, WEEE, IDA, C-Tick, Wi-Fi A/B/G/N
	802.11n: (+2/-4 dB) -72 dBm @MCS15 (20 MHz) -90 dBm @MCS0 (20 MHz) -68 dBm @MCS15 (40 MHz) -87 dBm @MCS0 (40 MHz)	Operating Temp. Storage Temp. Operating Humidity Storage Humidity	32 to 104°F (0 to 40°C) -4 to 158°F (–20 to 70°C) 10 to 85% Noncondensing 5 to 90% Noncondensing
		Specifications are subject to cha	ange without hotice.

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

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