



User Guide

Linksys AE1200/AE2500 | High Performance Wireless-N USB Adapter

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Chapter 1: 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.

LED



Link (Blue) The LED flashes when there is wireless network activity.

Chapter 2: Installation

This chapter describes the procedure for installing the Adapter.

Installation

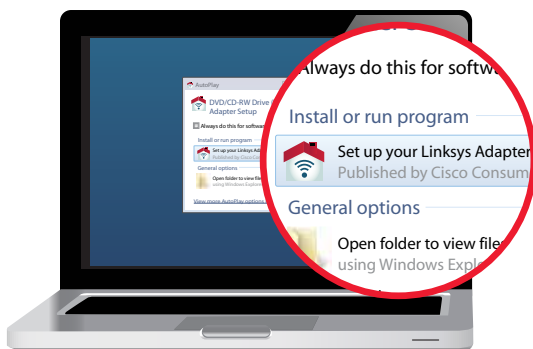
To install the Adapter:

1. Insert the CD into your CD-ROM drive.



Insert CD

2. Click **Set up your Linksys Adapter**.



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-ROM drive.

Windows Vista

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

Windows XP

- a. Go to **Start > My Computer** and select your CD-ROM drive.
- b. Double-click **Setup.exe**.

3. Follow the on-screen instructions to finish setting up your Linksys wireless adapter.

Appendix A: Troubleshooting

Your computer does not recognize the Adapter.

Make sure that the Adapter is properly inserted into your computer's USB slot.

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.



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

Appendix A: Specifications

| | |
|---------------------|---|
| Model Name | Linksys AE1200 |
| Description | High Performance Wireless-N USB Adapter |
| Model Number | AE1200 |
| Standards | 802.11b, 802.11g, 802.11n |
| Interface | USB 2.0 |
| LEDs | Link/Act |
| Antennas | 2 Internal Single-band |
| Transmitted Power | 802.11b: 20.1 dBm 802.11g: 24.2 dBm 802.11n: (20 MHz): 23.9 dBm (40 MHz): 24.1 dBm |
| Receive Sensitivity | 802.11b: (+2/-4 dB) DBPSK: -96 dBm Typical DQPSK: -96 dBm Typical CCK: -90 dBm Typical 802.11g: (+2/-4 dB) BPSK: -93 dBm Typical QPSK: -90 dBm Typical 16-QAM: -84 dBm Typical 64-QAM: -76 dBm Typical 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) |
| Antenna Gain in dBi | Antenna 0: ≤ -1.46 dBi Antenna 1: ≤ -1.2 dBi |
| Power Consumption | TX: MCS15 @20 MHz: 278 mA MCS8 @20 MHz: 371 mA MCS15 @40 MHz: 266 mA MCS8 @40 MHz: 344 mA RX: 20 MHz: 111 mA Standby: 37 mA Radio Off: 37 mA |
| Security Features | WEP, WPA & WPA2 Personal, WPA & WPA2 Enterprise, WPS |
| 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

| | |
|---------------------|---|
| Dimensions | 2.87" x 0.94" x 0.35" (73.0 x 23.8 x 9.0 mm) |
| Weight | 0.39 oz (11 g) |
| Certification | FCC, CE, IC, UL, RoHS, WEEE, IDA, C-Tick, Wi-Fi B/G/N |
| Operating Temp. | 32 to 104°F (0 to 40°C) |
| Storage Temp. | -4 to 158°F (-20 to 70°C) |
| Operating Humidity | 10 to 85% Noncondensing |
| Storage Humidity | 5 to 90% Noncondensing |
| Model Name | Linksys AE2500 |
| Description | High Performance Dual-Band Wireless-N USB Adapter |
| Model Number | AE2500 |
| Standards | 802.11a, 802.11b, 802.11g, 802.11n |
| Interface | USB 2.0 |
| LEDs | Link/Act |
| Antennas | 802.11a: 22.6 dBm 802.11b: 22.3 dBm 802.11g: 25.3 dBm 802.11n: (20 MHz): 24.7 dBm (40 MHz): 24.4 dBm |
| Transmitted Power | |
| Receive Sensitivity | MCS0 (40 MHz): 13 dBm ± 2.0 802.11b: (+2/-4 dB) DBPSK: -96 dBm Typical DQPSK: -96 dBm Typical CCK: -90 dBm Typical 802.11g: (+2/-4 dB) BPSK: -93 dBm Typical QPSK: -90 dBm Typical 6-QAM: -84 dBm Typical 64-QAM: -76 dBm Typical 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) |
| Antenna Gain in dBi | Antenna 0 2.4 GHz: ≤ 2.54 dBi 5.15~5.35 GHz: ≤ 2.33 dBi 5.5~5.85 GHz: ≤ 2.55 dBi Antenna 1 2.4 GHz: ≤ 2.58 dBi 5.15~5.35 GHz: ≤ 2.32 dBi 5.5~5.85 GHz: ≤ 2.48 dBi |

| | |
|-------------------|---|
| 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: 1730 mA Standby: 48 mA Radio Off: 48 mA |
| Security Features | WEP, WPA & WPA2 Personal, WPA & WPA2 Enterprise, WPS |
| 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

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| Operating Temp. | 32 to 104°F (0 to 40°C) |
| Storage Temp. | -4 to 158°F (-20 to 70°C) |
| Operating Humidity | 10 to 85% Noncondensing |
| Storage Humidity | 5 to 90% Noncondensing |

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(USA, Canada, Asia Pacific, Australia, New Zealand)

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When a “work that uses the Library” uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a “work that uses the Library” with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer’s own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

- a. Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable “work that uses the Library”; as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
- b. Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user’s computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
- c. Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- d. If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
- e. Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the “work that uses the Library” must include any data and utility programs needed for

reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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END OF SCHEDULE 2-B

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Version 3, 29 June 2007

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END OF SCHEDULE 2-C

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Version 3, 29 June 2007

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END OF SCHEDULE 2-D

Schedule 2-E

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END OF SCHEDULE 2-E

Regulatory Information

Safety Notices



WARNING: Do not use this product near water, for example, in a wet basement or near a swimming pool.



WARNING: Avoid using this product during an electrical storm. There may be a remote risk of electric shock from lightning.



WARNING: This product contains lead, known to the State of California to cause cancer, and birth defects or other reproductive harm. Wash hands after handling.



WARNING: For use with a Listed Computer.



NOTICE: This product meets applicable international SAR limits of 2.0W/kg or FCC SAR limit of 1.6W/kg for FCC. The specific maximum SAR values can be found in the regulatory compliance section of this user guide.

FCC Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio 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.

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

FCC Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End users must maintain **0.5 cm** distance away from the USB device. Please refer to "Generic Discussion on RF Exposure" below for further detail.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

SAR compliance has been established in typical laptop computer(s) with USB slot, and this product could be used in typical laptop computer(s) with USB slot. Other applications like handheld PC or similar device have not been verified and may not be in compliance with related RF exposure rule and such use shall be prohibited.

Generic Discussion on RF Exposure

Cisco products are designed to comply with the following national and international standards on Human Exposure to Radio Frequencies.

- US 47 Code of Federal Regulations Part 2 Subpart J
- American National Standards Institute (ANSI) / Institute of Electrical and Electronic Engineers / IEEE C 95.1 (99)
- International Commission on Non Ionizing Radiation Protection (ICNIRP) 98
- Ministry of Health (Canada) Safety Code 6. Limits on Human Exposure to Radio Frequency Fields in the range from 3kHz to 300 GHz

THIS DEVICE MEETS FCC AND INDUSTRY CANADA GUIDELINES FOR EXPOSURE TO RADIO WAVES

Your USB adaptor is a radio transmitter and receiver. It is designed not to exceed the limits for exposure to radio waves (radio frequency electromagnetic fields) recommended by international guidelines. The guidelines were developed by the IEEE C 95.2 and Health Canada and include a substantial safety margin designed to assure the safety of all persons, regardless of age and health.

The radio wave exposure guidelines use a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit for mobile devices is 1.6 W/kg.

Tests for SAR are conducted using standard operating positions with the device transmitting at its highest certified power level in all tested frequency bands. The highest SAR values under the FCC and Industry Canada guidelines for this device model are:

| Maximum SAR for this model and conditions under which it was recorded | | | |
|--|--------------------|-------------------|-------------------|
| Type of Exposure | Target Freq | Value W/kg | Limit W/kg |
| SAR (Whole body) | WLAN 2.4 GHz | 1.03 | 1.6 |
| SAR (Whole body) | WLAN 5.0 GHz | 1.13 | 1.6 |

During use, the actual SAR values for this device are usually well below the values stated above. This is because, for purposes of system efficiency and to minimize interference on the network, the operating power of your mobile device is automatically decreased when full power is not needed for the transmission. The lower the power output of the device, the lower its SAR value.

Body SAR testing has been carried out at a separation distance of 0.5 cm. To meet RF exposure guidelines during operation, the device should be 0.5 cm positioned at least this distance away from the body. If you are not using an approved accessory ensure that whatever product is used is free of any metal and that it positions the mobile device indicated distance away from the body.

Industry Canada Statement

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

This device complies with RSS-210 of the Industry Canada 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.

Règlement d'Industry Canada

Les conditions de fonctionnement sont sujettes à deux conditions:

1. Ce périphérique ne doit pas causer d'interférence et.
2. Ce périphérique doit accepter toute interférence, y compris les interférences pouvant perturber le bon fonctionnement de ce périphérique.

IMPORTANT NOTE

Radiation Exposure Statement:

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. End users must maintain 0.5 cm distance away from the USB device. Please refer to the specific SAR information for further detail.

REMARQUE IMPORTANTE

Exposition aux radiofréquences :

Ce matériel est conforme aux limites d'exposition aux radiofréquences établies pour un environnement non contrôlé. Pour assurer le maintien de cette conformité, l'utilisateur doit suivre les consignes d'utilisation décrites dans le présent manuel.

Wireless Disclaimer

The maximum performance for wireless 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, mix of wireless products used, interference and other adverse conditions.

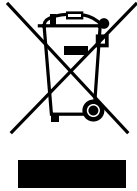
Avis de non-responsabilité concernant les appareils sans fil

Les performances maximales pour les réseaux sans fil sont tirées des spécifications de la norme IEEE 802.11. Les performances réelles peuvent varier, notamment en fonction de la capacité du réseau sans fil, du débit de la transmission de données, de la portée et de la couverture. Les performances dépendent de facteurs, conditions et variables multiples, en particulier de la distance par rapport au point d'accès, du volume du trafic réseau, des matériaux utilisés dans le bâtiment et du type de construction, du système d'exploitation et de la combinaison de produits sans fil utilisés, des interférences et de toute autre condition défavorable.

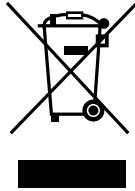
For operation within 5.15 ~ 5.25GHz frequency range, it is restricted to indoor environment.

User Information for Consumer Products Covered by EU Directive 2002/96/EC on Waste Electric and Electronic Equipment (WEEE)

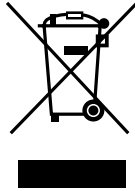
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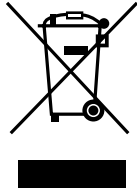
English - Environmental Information for Customers in the European Union

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Español (Spanish) - Información medioambiental para clientes de la Unión Europea

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Français (French) - Informations environnementales pour les clients de l'Union européenne

La directive européenne 2002/96/CE exige que l'équipement sur lequel est apposé ce symbole  sur le produit et/ou son emballage ne soit pas jeté avec les autres ordures ménagères. Ce symbole indique que le produit doit être éliminé dans un circuit distinct de celui pour les déchets des ménages. Il est de votre responsabilité de jeter ce matériel ainsi que tout autre matériel électrique ou électronique par les moyens de collecte indiqués par le gouvernement et les pouvoirs publics des collectivités territoriales. L'élimination et le recyclage en bonne et due forme ont pour but de lutter contre l'impact néfaste potentiel de ce type de produits sur l'environnement et la santé publique. Pour plus d'informations sur le mode d'élimination de votre ancien équipement, veuillez prendre contact avec les pouvoirs publics locaux, le service de traitement des déchets, ou l'endroit où vous avez acheté le produit.



WEB: For additional information, please visit www.myciscohome.com

- (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;
- (ii) the maximum antenna gain permitted for devices in the bands 5250-5350 MHz and 5470-5725 MHz shall comply with the e.i.r.p. limit; and
- (iii) the maximum antenna gain permitted for devices in the band 5725-5825 MHz shall comply with the e.i.r.p. limits specified for point-to-point and non point-to-point operation as appropriate.
- (iv) 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.

- (i) les dispositifs fonctionnant dans la bande 5 150-5 250 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;
- (ii) le gain maximal d'antenne permis pour les dispositifs utilisant les bandes 5 250-5 350 MHz et 5 470-5 725 MHz doit se conformer à la limite de p.i.r.e.;
- (iii) le gain maximal d'antenne permis (pour les dispositifs utilisant la bande 5 725-5 825 MHz) doit se conformer à la limite de p.i.r.e. spécifiée pour l'exploitation point à point et non point à point, selon le cas.
- (iv) De plus, les utilisateurs devraient aussi être avisés que les utilisateurs de radars de haute puissance sont désignés utilisateurs principaux (c.-à-d., qu'ils ont la priorité) pour les bandes 5 250-5 350 MHz et 5 650-5 850 MHz et que ces radars pourraient causer du brouillage et/ou des dommages aux dispositifs LAN-EL.



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