



Asus 54Mbps Pocket Wireless Access Point WL-330g User Manual

54mbps pocket wireless access point (wl-330g) user guide

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54Mbps

Pocket Wireless Adapter

(WL-330g)

User Guide

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Spacelink 802.11g access point (64 pages)

Summary of Contents for Asus 54Mbps Pocket Wireless Access Point WL-330g

[Page 1](#) ® 54Mbps Pocket Wireless Access Point (WL-330g) User Guide...

[Page 2](#) Product warranty or service will not be extended if: (1) the product is repaired, modified or altered, unless such repair, modification or alteration is authorized in writing by ASUS; or (2) the serial number of the product is defaced or missing.

[Page 3: Table Of Contents](#)

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[Page 5: Notices](#)

Notices Federal Communications Commission Statement This device complies with FCC Rules Part 15. Operation is subject to the following two conditions: • This device may not cause harmful interference, and • This device must accept any interference received, including interference that may cause undesired operation. This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to Part 15 of the Federal Communications Commission (FCC) rules.

[Page 6: Safety Statements](#)

Safety statements Regulatory Information/Disclaimers Installation and use of this Wireless LAN device must be in strict accordance with the instructions included in the user documentation provided with the product. Any changes or modifications (including the antennas) made to this device that are not expressly approved by the manufacturer may void the user's authority to operate the equipment.

[Page 7](#) Safety statements Caution Statement of the FCC Radio Frequency Exposure This Wireless LAN radio device has been evaluated under FCC Bulletin OET 65C and found compliant to the requirements as set forth in CFR 47 Sections 2.1091, 2.1093, and 15.247(b)(4) addressing RF Exposure from radio frequency devices.

[Page 8: About This Guide](#)

Wireless AP. This part also presents the package contents, LED indicators, and recommended network settings. • Chapter 2: Hardware installation This chapter provides information on how to install the ASUS Pocket Wireless AP. • Chapter 3: Configuration This chapter provides information on how to configure the ASUS Pocket Wireless AP using the utilities available from the support CD.

[Page 9: Asus Contact Information](#)

Harkort Str. 25, D-40880 Ratingen, Germany Telephone +49-2102-95990 +49-2102-959911 Online contact www.asuscom.de/sales Technical Support Telephone +49-2102-95990 +49-2102-959911 Online support www.asuscom.de/support Web site www.asuscom.de/news ASUS COMPUTER (Middle East and North Africa) Address P.O. Box 64133, Dubai, U.A.E. Telephone +9714-283-1774 +9714-283-1775 Web site www.ASUSarabia.com...

[Page 10: WL-330G Specification Summary](#)

Software support * Specifications are subject to change without notice. ** Line-of-Sight • The ASUS Pocket Wireless AP operating distance may be shorter if there are walls, barriers, or interferences in the home layout or operating environment. • Specifications are subject to change without notice.

[Page 11: Chapter 1: Product Introduction](#)

Chapter 1 This chapter describes the physical features of the ASUS Pocket Wireless AP. This part presents the package contents, LED indicators, and recommended network settings. Product introduction...

[Page 12: Welcome](#)

Wireless AP comes with a 64-bit/128-bit Wired Equivalent Privacy (WEP) encryption and Wi-Fi Protected Access (WPA) features. With these and many more, ASUS ASUS Pocket Wireless AP is sure to keep you ahead in the world of wireless computing. Package contents Check the following items in your ASUS Pocket Wireless AP package.

[Page 13: Features](#)

Features The ASUS Pocket Wireless AP employs the DSSS and OFDM technologies to transmit and receive signals through radio waves on the 2.4 GHz band. Here are other ASUS Pocket Wireless AP features: • Reliable data transfer rates of up to 54Mbps •...

[Page 14: Bottom View](#)

1.3.2 Bottom view Mounting hook. Use the mounting hook to install the device on concrete or wooden surfaces using a roundhead screw. Air vents. These vents provide ventilation to the device. Mode switch. Allows you to switch the device from AP mode to Ethernet adapter mode, or vice versa.

[Page 15: Led Indicators](#)

AP/EA The device is off or performing boot sequence. Blinking AP/EA Firmware upgrade failed.
*Modes: AP – Access Point mode EA – Ethernet adapter mode ASUS Pocket Wireless Access Point (WL-330g) Indication network. The device is on and ready. The device is associated with an AP or other wireless device.

[Page 16: Recommended Network Settings](#)

Recommended network settings The ASUS Pocket Wireless AP can be configured as an Access Point (AP) or wireless Ethernet adapter. In AP mode, the device acts as the central link between computers in a wireless network. In Ethernet adapter mode, the device connects to: 1.

[Page 17: Ethernet Adapter Mode](#)

1.5.2 Ethernet adapter mode Ad-hoc network When in Ad-hoc network, the ASUS Pocket Wireless AP connects to another wireless device. No access point (AP) is present in this wireless environment. Infrastructure mode When in Infrastructure mode, the wireless network is centered on an...

[Page 18](#) Xbox and PlayStation® game consoles, that use the MAC address to communicate with other devices. MAC cloning allows the ASUS Pocket Wireless AP to communicate with other devices in a wireless network using the MAC address of the host computer instead of its own. Multiple IP bridge environment...

[Page 19: Chapter 2: Hardware Installation](#)

Chapter 2 This chapter provides information on how to install the ASUS Pocket Wireless AP. Hardware installation...

[Page 20: System Requirements](#)

System requirements Before installing the ASUS Pocket Wireless AP, make sure that your system/network meets the following requirements: • An Ethernet RJ-45 port (10Base-T/100Base-TX) • At least one IEEE 802.11b/g device with wireless capability • An installed TCP/IP and Internet browser Device installation Follow these instructions to install the ASUS Pocket Wireless AP.

[Page 21: Using Dc Power](#)

5. Connect the network hub, switch, or router power adapter plug to the DC-IN socket of the device. 6. Connect the network hub, switch, or router power adapter to a wall socket. Wall socket ASUS Pocket Wireless Access Point (WL-330g) Switch WL-330g...

[Page 22: Using Usb Bus Power](#)

2.2.3 Using USB bus power 1. Insert one end of the supplied RJ-45 cable to the WL-330g Ethernet port. 2. Insert the other end of the RJ-45 cable to the Ethernet port on your computer, notebook, network hub, switch, router, or wall patch panel. 3.

[Page 23: Placement](#)

AP. You can configure the data rates that a device uses. If you limit the range of data rates available to the ASUS Pocket AP, you may reduce the effective range of the wireless LAN coverage.

[Page 24: Site Survey](#)

ID, known as the SSID or ESSID. Wireless clients must be configured with the same SSID as that of the ASUS Pocket APs on the network since it can only roam between ASUS Pocket APs sharing the same SSID.

[Page 25: Chapter 3: Configuration](#)

Chapter 3 This chapter provides information on how to configure the ASUS Pocket Wireless AP using the utilities available from the support CD. Configuration...

[Page 26: Installing The Utilities](#)

To install the device utilities in your computer: 1. Insert the support CD to the optical drive. 2. Click Install ASUS WLAN AP Utilities when the ASUS Wireless Access Point WL-330g installation window appears. 3. The device utilities are copied to your computer.

[Page 27: Wireless Setting Utility](#)

Wireless Setting Utility The Wireless Setting Utility allows easy configuration of the ASUS Pocket Wireless AP in both access point and Ethernet adapter modes. You can launch the Wireless Setting Utility directly from the support CD or from the Windows ®...

[Page 28: Using The Wireless Setting Utility](#)

3.2.2 Using the Wireless Setting Utility To set the device as an access point (AP) Make sure that you switched the WL-330g to AP mode before launching the Wireless Setting Utility. Use the mode switch to change the device operating mode. 1.

[Page 29](#) Otherwise, click the Web Configuration Utility button to launch the web-based configuration utility. Check the Obtain an IP address automatically if your network has an enabled DHCP server. Inquire with your network administrator for details. ASUS Pocket Wireless Access Point (WL-330g)

[Page 30](#) 6. The specified settings are applied to the device. 7. After applying the settings, the utility displays the WL-330g access point information. Click Finish to close the utility. Chapter 3: Configuration...

[Page 31](#) Each wireless network is preceded by an icon for easy identification. Refer to the table on the next page for icon indications. • Click Add to connect to another wireless network not listed in the field. ASUS Pocket Wireless Access Point (WL-330g)

[Page 32](#) Table 3-1: Wireless network icon indications Icon Indicates that the wireless network is an access point with no encryption the wireless network is an access point with enabled encryption the WL-330g is connected to this access point with no encryption the WL-330g is connected to this access point with enabled encryption the wireless network is a wireless device with no encryption the wireless network is a wireless device with enabled encryption...

[Page 33](#) The encryption settings of the network and the WL-330g must be the same to establish connection. 6. The WL-330g connects to the selected wireless network. 7. The utility displays the WL-330g status when connection is established. Click Finish to close the utility. ASUS Pocket Wireless Access Point (WL-330g)

[Page 34: Web Configuration Utility](#)

3.3.1 Adjusting the TCP/IP settings By default, the IP address of the ASUS Pocket Wireless AP is 192.168.1.1, and the Subnet Mask is 255.255.255.0. To access the configuration utility, assign a different IP address to the network adapter where the ASUS Pocket Wireless AP is connected.

[Page 35](#) 2 and 254 that is not used by another device.) 5. Set the Subnet Mask to 255.255.255.0. Click OK when finished. Changing the TCP/IP settings may require system restart. Switch on the WL-330g immediately after rebooting. ASUS Pocket Wireless Access Point (WL-330g) 3-11...

[Page 36: Launching The Web Configuration Utility](#)

Wireless Setting Utility. To launch the Web Configuration utility using the Wireless Setting Utility: 1. Click Start > All Programs > ASUS Utility > Wireless AP > Wireless Setting. 2. Click

Configure when the Wireless Setting Utility window appears.

[Page 37: Changing The Access Point \(Ap\) Configuration](#)

SSID in a wireless network. This allows other wireless devices to scan and establish communication with the device. Unchecking this option hides the SSID to prevent other wireless devices from recognizing and connecting to the device. ASUS Pocket Wireless Access Point (WL-330g) 3-13...

[Page 38](#) Click the Associated Stations link (beside the SSID) to displays the list of wireless device(s) associated with the ASUS Pocket Wireless AP. The list includes the wireless device(s) MAC address and connection status. Channel. Allows you to specify the channel the device uses to communicate with other wireless device(s) in the network.

[Page 39](#) The following fields allow you to configure the ASUS Pocket Wireless AP security settings. Authentication Method. This option allows you to select the encryption method for securing your wireless communication. Refer to the table below for details. Table 3-3: Authentication methods...

[Page 40](#) Securing your wireless communication using WEP encryption To secure your wireless communication using the WEP encryption: 1. Assign the WEP encryption keys by manual or automatic generation. Manual Assignment. For a 64-bit encryption, enter 10 hexadecimal digits (0~9, a~f, A~F) or 5 ASCII characters in each of the four WEP keys.

[Page 41](#) A shorter re-key interval provides a more secure wireless network. Changing the network settings The Ethernet Interface fields allow you to configure the ASUS Pocket Wireless AP. Inquire the correct network settings with your network administrator before changing any Ethernet interface settings.

[Page 42: Access Control Page](#)

Access Control page The MAC Access Control page allows you to control the wireless network traffic by specifying the MAC addresses of wireless clients allowed to establish connection to the WL-330g. To specify the wireless clients allowed to establish connection to the WL-330g: 1.

[Page 43: Firmware Upgrade Page](#)

The Power LED blinks continuously when the firmware is corrupted or when the firmware upgrade fails. 1. Download and save the latest firmware from the ASUS website. 2. Launch the Web Configuration Utility, then go to the Firmware Upgrade page.

[Page 44: Regulation Domain](#)

IEEE 802.11b/g networks are regulated worldwide since these networks use the 2.4GHz ~ 2.5GHz ISM (Instrumentation, Scientific, and Medical) Band. The ASUS Pocket Wireless AP is shipped with a default regulation domain allowed in your country/location. The FCC (US) and ETSI (Europe) specify operation from 2.4 GHz to 2.4835 GHz.

[Page 45](#) Japan. Table 3-6: Regulating bodies and allowed channels Country Unites States Europe Japan Use only the allowed channels when you set the ASUS Pocket Wireless AP in access point mode. ASUS Pocket Wireless Access Point (WL-330g) Regulatory Domain X'10' X'30' ETSI -...

[Page 46: Restoring The Default Values](#)

Restoring the default values The following are the default values of the ASUS Pocket Wireless AP (in AP mode). You can restore the default values by pressing the reset button for more than five seconds. Parameter Wireless Interface SSID ... AP_XXXXXX Response to broadcast SSID requests ...

[Page 47: Changing The Ethernet Adapter Configuration](#)

Operating Mode. This field allows you to select the operating mode for the Ethernet adapter. In an Infrastructure mode, the ASUS Pocket Wireless AP connects to an available AP. In Ad-hoc mode, the ASUS Pocket Wireless AP connects to other wireless devices in the wireless network. Select Ad-hoc mode when there is no available AP in your location.

[Page 48](#) Pass Phrase. See page 3-16. Default Key. See page 3-16. MAC cloning. MAC cloning

allows the ASUS Pocket Wireless AP to use the MAC address of the host computer in communicating with other wireless devices. MAC cloning supports certain software applications and devices...

[Page 49](#) Same as the above mode but only in the profile table - When the reset button is pressed for less than 5 seconds, the ASUS Pocket Wireless AP searches for an AP or wireless device in the Profile Table, then connects to the one with the strongest link quality.

[Page 50](#) Site Survey page The Site Survey page displays the Station Status, and allows you to scan and connect to available wireless networks within the WL-330g range. This page also allows you to save a wireless connection in the Profile Table for the Button Scan Mode feature.

[Page 51](#) 2. Click to select the number of the wireless network you intend to join, then click the Join button. A message appears in the browser indicating that you have successfully joined the wireless network. ASUS Pocket Wireless Access Point (WL-330g) 3-27...

[Page 52](#) To connect to an available wireless network with a hidden SSID and disabled encryption: 1. From the Site Survey table, select the wireless network (with a hidden SSID and disabled encryption) you intend to join. 2. Click to select the number of the wireless network you intend to join, then click the Join button.

[Page 53](#) 4. Enter the SSID of the wireless network, then select the Authentication Method and Encryption. When done, enter the encryption keys in the key fields, then click Apply. ASUS Pocket Wireless Access Point (WL-330g) 3-29...

[Page 54](#) A message appears in the browser indicating that you have successfully joined the wireless network. To connect to an available wireless network with a known SSID and enabled encryption: 1. From the Site Survey table, select the wireless network (with a known SSID and enabled encryption) you intend to join.

[Page 55](#) Click Apply when finished. A message appears in the browser indicating that you have successfully joined the wireless network. ASUS Pocket Wireless Access Point (WL-330g) 3-31...

[Page 56](#) Profile Table The Profile Table allows you to view or delete saved wireless networks. The table displays the saved wireless network SSID, channel, security settings, and network type. Click the Profile Table link to view the Profile Table. Saved wireless networks are preceded by an icon for easy identification. Refer to page 3-8 for wireless network icon indications.

[Page 57](#) Join button. 3. When the ASUS Pocket Wireless AP is associated with the wireless network, click the Save button. 4. The Profile Table appears with the saved wireless network. Click Back to return to the previous page.

[Page 58](#) The saved wireless networks in the Profile Table corresponds to the number of profiles available for the Button Scan Mode feature. For example, if you saved three wireless networks in the Profile Table, then three profiles are available for button scanning •...

[Page 59](#) Refer to page 3-19 for details. Restoring the default values The following are the default values of the ASUS Pocket Wireless AP (Ethernet adapter mode). You may restore these values by pressing the reset button for more than five seconds.

[Page 60: Firmware Restoration](#)

The Firmware Restoration utility is a rescue tool for an ASUS Pocket Wireless AP that failed during a previous firmware upload. This utility is available in the support CD that came with the ASUS Pocket Wireless AP package. A failed firmware upgrade causes the ASUS Pocket Wireless AP to enter a failure mode.

[Page 61: Using The Device](#)

Chapter 4 This chapter provides instructions on how to use the ASUS Pocket Wireless AP on various network setups. Using the device...

[Page 62: Chapter 4: Using The Device](#)

4.1 4.1 4.1 4.1 4.1 Using the device in a local network You can use the WL-330g to connect a wireless LAN-enabled computer to a local network with or without a DHCP server. To connect a wireless LAN-enabled computer to a local network: 1.

[Page 63: Replacing The Cable Connections Of Other Devices](#)

Internet ADSL/Cable modem Use the mode switch to set the WL-330g to AP mode before sharing an Internet connection with other computers in your network. ASUS Pocket Wireless Access Point (WL-330g) ® 2, or set-top box ® 2, or set-top box to...

[Page 64](#) Table 4-1: Internet connection sharing matrix If your Internet connection is xDSL with dynamic IP ISP automatically assigns (PPPoE account) xDSL with static IP xDSL/Cable with a router and enable DHCP server xDSL – ADSL (Asymmetric Digital Subscriber Line) or DSL (Digital Subscriber Line) PPPoE –...

[Page 65: Troubleshooting](#)

Appendix The Appendix features a troubleshooting guide for solving common problems you may encounter when using the ASUS Pocket Wireless AP. Troubleshooting...

[Page 66](#) This troubleshooting guide provides solutions to some common problems that you may encounter while installing and/or using ASUS Pocket Wireless AP. These problems require simple troubleshooting that you can perform by yourself. Contact the ASUS Technical Support if you encounter problems not mentioned in this section. Problem The ASUS Pocket Wireless AP does not power up.

[Page 67](#) Problem My ASUS WLAN card can not associate with the ASUS Pocket Wireless AP. ASUS Pocket Wireless Access Point (WL-330g) Action Observe the hub LED if you are not sure what speed the hub supports. • Make sure your WLAN card has...

[Page 68](#) To access the ASUS Pocket Wireless AP web configuration page, your computer must have the same subnet as that of the ASUS Pocket Wireless AP. Adjust your network if your computer's subnet does not match that of the ASUS Pocket Wireless AP.

[Page 69](#) IP from the DHCP server. (The ASUS Pocket Wireless AP has an enabled DHCP.) ASUS Pocket Wireless Access Point (WL-330g) Action Turn off the ASUS Pocket Wireless AP. Turn the device again and observe if the Power LED stops blinking.

[Page 70](#) Appendix...

This manual is also suitable for:

WL-330g

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