



Asus (WL-330) User Manual

Asus user guide pocket wireless access point (wl-330)

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Pocket Wireless Access Point (WL-330)

User Guide



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Summary of Contents for Asus (WL-330)

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® Pocket Wireless Access Point (WL-330) 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.

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[Page 5: 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. It 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 describes the utilities for configuring the ASUS Pocket Wireless AP.

[Page 9: Asus Contact Information](#)

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

Standard Technology Data Transfer Rate Network Types Frequency Band Security Operating Distance Supported OS Antenna *Specifications are subject to change without notice. WL-330 specification summary* IEEE 802.11b Direct Sequence Spread Spectrum (DSSS) 11Mbps (with automatic fallback to 5.5, 2 and 1Mbps) Supports Infrastructure and Ad-hoc networks 2.4 GHz ~ 2.5 GHz 64-bit/128-bit configurable WEP encryption...

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

Chapter 1 This chapter describes the physical features of the ASUS Pocket Wireless Access Point. It also presents the package contents, LED indicators, and recommended network

settings. Product introduction...

[Page 12: Welcome](#)

The ASUS Pocket Wireless AP is an easy-to-install wireless access point and Ethernet adapter in one. Conforming to IEEE 802.11b standard for wireless local area network (WLAN), the ASUS Pocket Wireless AP is capable of up to 11Mbps data transmission rate on the 2.4GHz to 2.5GHz band.

[Page 13: Features](#)

1.3.1 Top view LEDs. The ASUS Pocket Wireless AP comes with three LED indicators. Refer to section 1.4 "LED indicators" for details. ASUS Pocket Wireless Access Point (WL-330) Product introduction...

[Page 14: Bottom View](#)

In Ethernet adapter mode, press this button for less than five seconds to connect to the first saved wireless connection in the profile table. See page 3-15 for the reset button function in Ethernet mode. ASUS Pocket Wireless Access Point (WL-330) Mode switch Air vents...

[Page 15: Led Indicators](#)

LED indicators The ASUS Pocket Wireless AP comes with a Power, Wireless, and Ethernet LED indicators. Refer to the table below for LED indications. Status Mode* Power AP/EA AP/EA Blinking AP/EA Wireless Blinking AP/EA Ethernet AP/EA AP/EA *Modes: AP - Access point...

[Page 16: Network Setup](#)

Product introduction Network setup The ASUS Pocket Wireless AP may 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](#)

Product introduction 1.5.2 Ethernet adapter mode Ad-hoc network type In an Ad-hoc network type, the ASUS Pocket Wireless AP connects to another ASUS Pocket Wireless AP or other wireless devices. No access point (AP) is present. Infrastructure network type In an Infrastructure network type, each computer with an ASUS Pocket Wireless AP connects to an access point that provides a central link for communication among the computers.

[Page 18](#) Xbox and PlayStation 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.

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

Chapter 2 This chapter provides information on how to install the ASUS Pocket AP. Installation...

[Page 20: System Requirements](#)

Installation System requirements Before installing the ASUS Pocket Wireless AP, make sure that your system meets the following requirements: • An Ethernet (10Base-T or 100Base-TX) adapter for wired client • At least one 802.11b (11Mbps) wireless adapter for wireless mobile client •...

[Page 21: Installation Procedures](#)

6. Plug the power adapter of the network hub, switch, or router to a wall socket. Use only the power adapter and plug that came with the ASUS Pocket Wireless AP package. Using other power adapter and plug may damage the device.

[Page 22](#) After installation, check the Power and Ethernet LEDs. These LEDs light up to indicate that the device is on and has physical connection to an Ethernet network. Refer to the LED indications on page 1-5. ASUS Pocket Access Point (WL-330)

[Page 23: Placement](#)

AP vertically on a concrete or wooden wall using the mounting hooks at the bottom of the and a mounting screw. To mount the ASUS Pocket Wireless AP on a concrete or wooden wall: 1.

Locate the mounting hook at the bottom of the device.

[Page 24: Operating Range](#)

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

[Page 25](#) ID, known as the SSID or ESSID. Wireless mobile clients must be configured with the same SSID as the ASUS Pocket APs on the network since it can only roam between ASUS Pocket APs sharing the same SSID.

[Page 26](#) Notes ASUS Pocket Access Point (WL-330)

[Page 27: Chapter 3: Configuration](#)

Chapter 3 This chapter describes the ASUS Pocket Wireless AP configuration using the utilities available from the support CD. Configuration...

[Page 28: Installing The Utilities](#)

Configuration Installing the utilities The support CD contains the utilities for configuring the ASUS Pocket Wireless AP. 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-330 installation window appears.

[Page 29: Using The Setup Wizard Utility](#)

Using the Setup Wizard utility The Setup Wizard utility allows easy configuration of the ASUS Pocket Wireless AP settings in both access point and Ethernet adapter modes. You may launch the Setup Wizard utility directly from the support CD or from the Windows desktop.

[Page 30: Access Point \(Ap\) Mode](#)

Click Configure to change these settings. Basic tab Network Name (SSID). This field allows you to set the ASUS Pocket Wireless AP SSID. The SSID is an identification string of up to 32 ASCII characters that differentiate the device from other manufacturers.

[Page 31: Encryption Tab](#)

104-bit and 128-bit WEP keys use the same encryption method. • All wireless clients in a network must have identical WEP keys with the access point to establish connection. • Keep a record of the WEP encryption keys. ASUS Pocket Wireless Access Point (WL-330) Configuration...

[Page 32: Ethernet Adapter Mode](#)

Utility > Wireless AP WL-330 > Setup Wizard. The SSID and WEP encryption keys of the ASUS Pocket Wireless AP must be the same with that of the AP or wireless client to establish connection. ASUS Pocket Wireless Access Point (WL-330)

[Page 33](#) 1. Select a wireless network from the Available Networks list, then click Configure. The available networks are indicated by icons for easy identification. Refer to the table in the next page for icon indications. ASUS Pocket Wireless Access Point (WL-330) Configuration...

[Page 34](#) The device is connected to this WEP-encrypted wireless client. If you are trying to connect to an AP (Infrastructure), make sure the MAC address of the ASUS Pocket Wireless AP is included in the AP authorization table. 2. Enter the SSID in the Network Name field.

[Page 35](#) 5. Enable or disable MAC cloning. MAC cloning allows the ASUS Pocket Wireless AP to use the MAC address of the host computer in communicating with other wireless device. Refer to page 3-27 for details on MAC cloning. 6. Click the Encryption tab or the WEP link to configure the device WEP encryption settings.

[Page 36](#) Configuration Managing wireless networks The Preferred networks field allows you to save, configure and manage multiple wireless networks. The ASUS Pocket Wireless AP automatically connects to a wireless network with the strongest link quality in the preferred network list. To configure a preferred network: 1.

[Page 37](#) Configuration utility. See page 3-31 for details. • Check the Automatically connect to non-preferred networks option if you wish to establish connection with other AP or wireless client not listed in the preferred networks list. ASUS Pocket Wireless Access Point (WL-330) Configuration 3-11...

[Page 38: Device Discovery](#)

The Device Discovery utility searches and identifies the ASUS WLAN products connected to your computer. To launch the Device Discovery from the Windows 1. Click Start > All Programs > ASUS Utility > Wireless AP WL-330 > Device Discovery. 2. The Device Discovery window appears.

[Page 39: Web Configuration Utility](#)

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 40](#) 5. Set the Subnet Mask to 255.255.255.0. Click OK when finished. 3-14 ASUS Pocket Wireless Access Point (WL-330) 4. Check the Use the following IP address option, then enter the IP address for the network adapter. The IP address must be 192.168.1.X.

[Page 41: Launching The Web Configuration Utility](#)

3. Type http://192.168.1.1 on the address bar, then press <Enter>. 4. The configuration utility home page appears. The window displays the default values of the ASUS Pocket Wireless AP. If you wish to load the default values after changing these settings, press the reset button for more than five seconds.

[Page 42: Simple Setup](#)

Configuration Access Point mode 3.5.1 Simple Setup The Simple Setup page allows you to configure the ASUS Pocket Wireless AP configuration in access point mode. Wireless Interface SSID (Service Set Identifier). This field displays the SSID of the device. Enabling the Response to Broadcast SSID requests option allows the device to broadcast its SSID in a wireless network.

[Page 43](#) 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. Click Back to return to the Simple Setup page.

[Page 44](#) This option allows you to use WEP keys without having to remember or write them down. The WEP keys generated using the Pass Phrase is compatible with other ASUS WLAN products. The Pass Phrase option is not as secure as manual assignment.

[Page 45: Access Control](#)

3.5.2 Access Control The Access Control page allows you to control connection requests from other devices or enable the Wireless Distribution System (WDS) feature of the ASUS Pocket Wireless AP. MAC Access Control Check Accept association requests from any station to accept all connection requests from other wireless devices.

[Page 46](#) WDS APs allowed to be connected. This table allows you to specify the MAC address(s) of a device(s) allowed to connect to the ASUS Pocket Wireless AP. The table is activated only when the AP Mode is set to Hybrid-Active.

[Page 47](#) AP Modes Access Point Only The ASUS Pocket Wireless AP is set to Access Point Only mode by default. In this mode, the device only performs as an AP that connects wireless clients to a wired Ethernet network. The picture below illustrates the device in Access Point Only mode.

[Page 48](#) ASUS Pocket Wireless AP in the MAC address list. 3. Specify the channel to be used. All target AP(s) must specify the same channel to establish connection to the ASUS Pocket Wireless AP. 4. Click Launch. In a typical WDS network, the...

[Page 49: Firmware Upgrade](#)

Firmware Upgrade The Firmware Upgrade page displays the product ID, firmware version, and regulation domain. This page also allows you to restore or update the ASUS Pocket Wireless AP

firmware when it becomes outdated or corrupted. The Power LED blinks continuously when the firmware is corrupted or when the firmware upgrade fails.

Page 50 IEEE 802.11b 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 51: Restoring The Default Values

Table 2: 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. 3.5.4 Restoring the default values The following are the default values of the ASUS Pocket Wireless AP (AP mode).

Page 52: Ethernet Adapter Mode

Configuration Ethernet adapter mode Click the link in the home page to configure the ASUS Pocket Wireless AP Ethernet adapter settings. You must switch the device to Ethernet adapter mode using the mode switch before changing any Ethernet adapter setting. Any changes made in the Ethernet adapter configuration takes effect after switching the device in Ethernet adapter mode.

Page 53: Mac Cloning

(Ad-hoc) to establish connection. Transmission Rate. This field allows you to adjust the data transmission rate between the ASUS Pocket Wireless AP and the AP or other wireless device. Preamble. Allows you to set the preamble mode for a 2.4GHz/11Mb network to Long, Short, or Auto.

Page 54: Button Scan Mode

Same as the above mode but find extra site in my location- When the reset button is pressed for less than five seconds, the ASUS Pocket Wireless AP searches for an AP or wireless device in the Profile Table and in your location, then connects to the one with the strongest link quality.

Page 55 Scan Mode is set to Specified profile scan. Click Launch when done. Click Restore to load the default values. You may also press the reset button of the ASUS Pocket Wireless AP for more than five seconds to load the default values.

Page 56: Site Survey

Station Status The Station Status field displays various connection information including the SSID and WEP key information of the AP or wireless device the ASUS Pocket Wireless AP is connected to. This field also displays the operating mode and association state of the ASUS Pocket Wireless AP.

Page 57 The Profile Table displays the saved wireless connections including their SSID, channel, WEP encryption, and network type. An icon marks a saved connection to indicate whether the ASUS Pocket Wireless AP is connected or not. Refer to page 3-8 for icon indications.

Page 58 1. Check the Delete box of the wireless connection you wish to delete. 2. Click the Delete button. 3. The browser refreshes to display the remaining available wireless connections in the Profile Table. 3-32 ASUS Pocket Wireless Access Point (WL-330)

Page 59 CH. The direct sequence channel used by the wireless connection. RSSI. Received Signal Strength Indicator (RSSI) is a measurement of connection strength in dBm. Type. Tells whether a wireless connection is in access point (AP) or station (STA) mode. ASUS Pocket Wireless Access Point (WL-330) Configuration 3-33...

Page 60 Join. The following page appears. 2. Obtain the correct WEP keys of the wireless connection from your network administrator. 3. Enter the WEP keys you have obtained in the WEP key fields, then click Launch. 3-34 ASUS Pocket Wireless Access Point (WL-330)

Page 61 2. Obtain the correct SSID and WEP keys of the wireless connection from your network administrator. 3. Enter the SSID and WEP keys you have obtained in the SSID and WEP

key fields, then click Launch. ASUS Pocket Wireless Access Point (WL-330) Configuration 3-35...

[Page 62: Firmware Upgrade](#)

Firmware Upgrade The Firmware Upgrade page displays the product ID, firmware version, and regulation domain. This page also allows you to restore or update the ASUS Pocket Wireless AP firmware when it becomes outdated or corrupted. Refer to page 3-23 for details.

[Page 63: Firmware Restoration](#)

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.

[Page 64](#) Notes 3-38 ASUS Pocket Access Point (WL-330)

[Page 65: Chapter 4: Simple Setup](#)

Chapter 4 This chapter provides step-by-step instructions on how to setup your ASUS Pocket Wireless AP. Simple Setup...

[Page 66: Using The Device In A Local Network](#)

Wireless AP in various operating modes and conditions. Using the device in a local network In a local network, you may use the ASUS Pocket Wireless AP to connect a WLAN-enabled desktop PC or notebook with or without a DHCP server.

[Page 67: Replacing The Ethernet Cables Of Other Devices](#)

Ethernet port of the Xbox, Playstation, SETUP-box, or network printer. If you failed to connect to an AP, press the reset button of the ASUS Pocket Wireless AP for more than 5 seconds to load the default settings of the Button Scan mode.

[Page 68: Connecting To Another Ap As An Adapter Or Wireless Bridge](#)

Connecting to another AP as an adapter or wireless bridge Follow these instructions to set your ASUS Pocket Wireless LAN AP as a WLAN adapter to access another AP with disabled WEP encryption and valid SSID. 1. Switch the device to Ethernet adapter mode using the mode switch. (Default SSID: ANY in an Infrastructure network) 2.

[Page 69: Troubleshooting](#)

Chapter 5 This chapter contains a troubleshooting guide for solving common problems you may encounter when using the ASUS Pocket Wireless Troubleshooting...

[Page 70](#) Troubleshooting 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.

[Page 71](#) Access Point (IEEE 802.11b). • Minimize the distance between the devices. The ASUS WLAN card may be out of range of the ASUS Pocket Wireless AP. • Check if the ASUS Pocket Wireless AP and the ASUS WLAN card have the same SSID.

[Page 72](#) Troubleshooting Problem The throughput seems slow. I can not access the ASUS Pocket Wireless AP web configuration page. ASUS Pocket Wireless Access Point (WL-330) Action • Check if the ASUS Pocket Wireless AP is in "Access Point" mode. • Check if the ASUS Pocket Wireless AP and ASUS WLAN card have the same preamble mode.

[Page 73](#) Where can I get a firmware file to upgrade the ASUS Pocket Wireless AP? The ASUS Pocket Wireless AP Power LED continuously blinks for more than a minute. ASUS Pocket Wireless Access Point (WL-330) Troubleshooting Action The default subnet of the ASUS Pocket Wireless AP is "192.168.1.1".

[Page 74](#) Ethernet adapter mode. A wireless client wants to connect to the ASUS Pocket Wireless AP but can not get the correct IP from the DHCP server. (The ASUS Pocket Wireless AP has an enabled DHCP.)

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