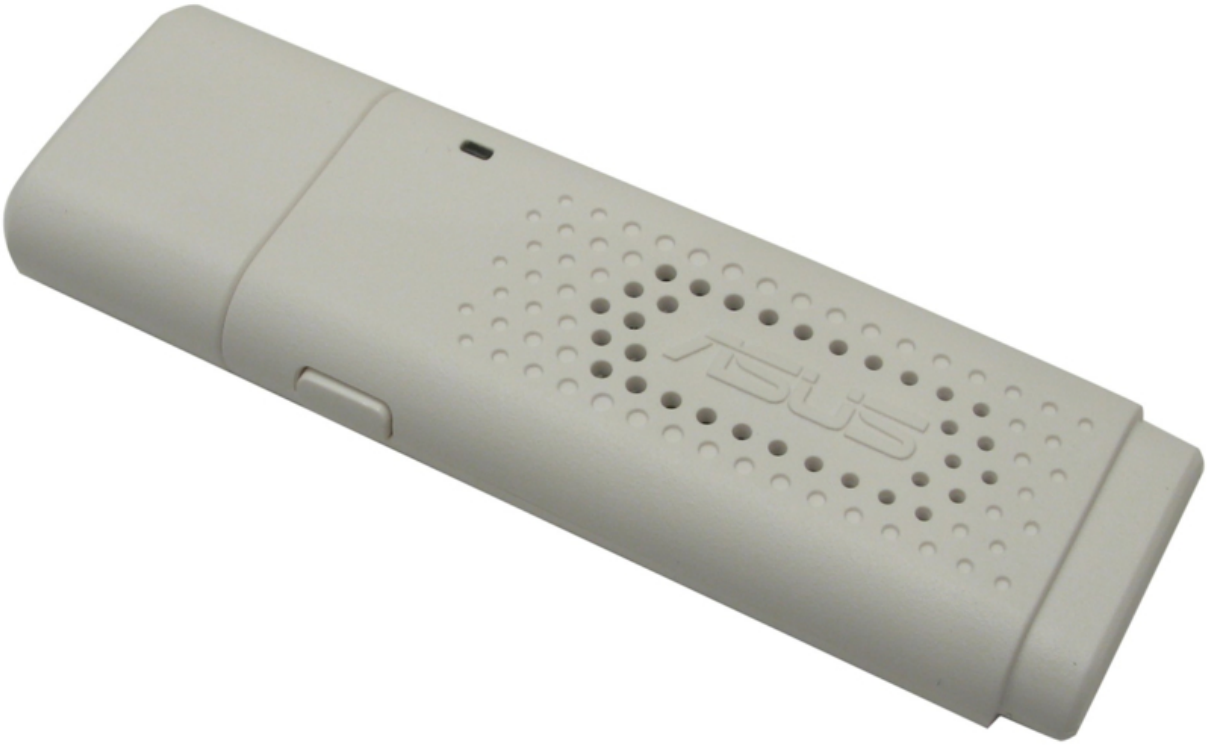

Asus USB-N11 User Manual

Wireless n usb adapter

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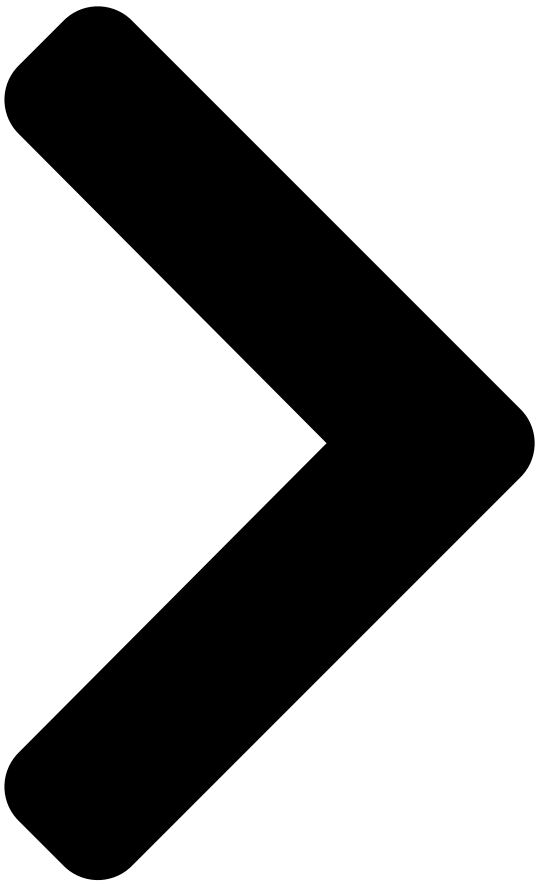

®

Wireless N USB Adapter

USB-N11

(

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For 802.11n draft, 802.11g & 802.11b Networks

User Manual

E3739 / May 2008

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Related Manuals for Asus USB-N11

Adapter Asus USB-N11 Quick Start Manual

Wireless n usb adapter (83 pages)

Adapter Asus USB-N11 User Manual

Wireless n (56 pages)

Adapter Asus USB-N53 User Manual

Wireless dual-band adapter for 802.11 a/g/b/n wireless networks (34 pages)

Adapter Asus USB-N13 Quick Start Manual

802.11n network adapter (28 pages)

Adapter Asus USB-N13 User Manual

Wireless n usb for 802.11n draft, 802.11g & 802.11b networks (34 pages)

Adapter Asus USB-N10 Quick Start Manual

Ez n wireless adapter (2 pages)

Adapter Asus USB-N10 Nano User Manual

Asus 802.11n network adapter (for 802.11 b/g/n wireless networks) (30 pages)

Adapter Asus USB-N66 Quick Start Manual

Dual-band wireless-n adapter (for 802.11 a/b/g/n wireless networks) (2 pages)

Adapter Asus USB-N14 Quick Start Manual

Wireless n-300 usb adapter (2 pages)

Adapter Asus USB-N14 User Manual

Dual-band wireless-ac600 usb adapter (26 pages)

Adapter Asus USB-BT211 User Manual

Mini usb bluetooth adapter (41 pages)

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Adapter Asus USB-AC50 User Manual

(36 pages)

Adapter Asus USB-AC56 Quick Start Manual

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Adapter Asus USB-BT500 Quick Start Manual

Bluetooth 5.0 usb adapter (48 pages)

Adapter Asus USB-BT500 Quick Start Manual

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Summary of Contents for Asus USB-N11

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® Wireless N USB Adapter USB-N11 For 802.11n draft, 802.11g & 802.11b Networks User Manual E3739 / May 2008...

Page 2

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

Page 3: Contact Information

Technical support General support (tel): +1-502-995-0883 Online support: http://support.asus.com Notebook (tel): +1-510-739-3777 x5110 Support (fax): +1-502-933-8713 ASUS COMPUTER GmbH (Germany & Austria) Company address: Harkort Str. 25, D-40880 Ratingen, Germany General (tel): +49-2102-95990 Web site address: www.asus.com.de General (fax): +49-2102-959911 Online contact: www.asus.com.de/sales...

Page 4: Table Of Contents

WPS Push Button .....8 Configuring with the WLAN utility (Infrastructure) .....9 Configuring with the WLAN utility (Ad Hoc) .....10 3. Software Reference .....11 ASUS WLAN Control Center .....11 ASUS Wireless Settings Utility .....13 Status - Status .....13 Status - Connection .....15 Status - IP Config .....16...

Page 5: Introduction

Chapter 1 - Introduction 1. Introduction Package contents Check the following items in your ASUS Wireless LAN Adapter package. Contact your retailer if any item is damaged or missing. 1 x ASUS Wireless LAN Adapter (USB-N11) 1 x Support CD...

Page 6: Installation

Follow these instructions to install the WLAN Adapter utilities and driver. Insert the support CD into your optical drive. If autorun is enabled in your computer, the CD automatically displays the utility menu. Click Install ASUS WLAN Card Utilities/Driver. If autorun is disabled, double-click SETUP.EXE in the root directory of the CD.

Page 7: Reading The Wlan Status Indicators

The device comes with one LED to indicate the status of the WLAN Adapter, and on button for WiFi Protected Setup (WPS). Connected to wireless device. Blinking: Transmitting data; the blinking speed indicates the link speed. OFF: Adapter is disabled. Button Button WPS Push Button: Enable WPS Push Button mode. ASUS WLAN Adapter...

Page 8: Wps Push Button

Click Finish to exit the WPS wizard. On the ASUS WLAN Card Settings utility, you can see the USB adapter connected to the router. Note: The WPS wizard works only with routers with WPS support. Check your router specification before setting up the WPS.

Page 9: Configuring With The Wlan Utility (Infrastructure)

Chapter 2 - Installation Configuring with the WLAN utility (Infrastructure) Use ASUS WLAN utility to get connected with an existing wireless network. 2. Check the Config page to set the SSID 1. Right-click the wireless connection icon and select Wireless Settings.

Page 10: Configuring With The Wlan Utility (Ad Hoc)

5. Check the Status page to see the association state. If connection is established, the box shows “Connected - xx:xx:xx:xx:xx:xx”. 6. Check the Connection tab to see the signal strength. Click OK to exit the utility. ASUS WLAN Adapter...

Page 11: Software Reference

3. Software Reference ASUS WLAN Control Center ASUS WLAN Control Center is an application which makes it easier to launch WLAN applications and activate network location settings. The WLAN Control Center starts automatically when system boots. When WLAN Control Center is running, you can see a Control Center icon on the Windows taskbar.

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• XP only) – Click to choose Windows ® ® Wireless Zero Configuration (WZC) service or ASUS utilities to configure your WLAN Adapter. Taskbar Icon - Launch Wireless Settings Double-click the taskbar icon to launch the Wireless Settings utility. ASUS WLAN Adapter...

Page 13: Asus Wireless Settings Utility

• select Wireless Settings. NOTE: If you have more than one ASUS WLAN device installed on your computer, you may see a device selection window when you launch the “Wireless Settings” utility. Select the device you want when such situation occurs.

Page 14 This function usually takes several seconds. Change SSID – Click this button to set the SSID to that of the AP you want to connect. Search & Connect – Click this button to connect to an available wireless AP. ASUS WLAN Adapter...

Page 15: Status - Connection

Ad Hoc node the WLAN Adapter is currently connected to. Ratings are: Excellent, Good, Fair, and Poor. Overall Connection Quality The overall connection quality is derived from the current signal strength. A graphic chart uses percentage to show signal quality. ASUS WLAN Adapter...

Page 16: Status - Ip Config

“Stop” button. The session field displays information on the verified connection including the roundtrip time (minimum, maximum, and average) and packets sent, received, and lost after a ping session. Click the “Clear” button to clear the session field. ASUS WLAN Adapter...

Page 17: Config - Basic

Europe (ETSI), channel 1 to 13 are supported. For Japan (MKK), channel 1 to 14 are supported. NOTE: Click Apply to save and activate the new configurations. Others Encryption – Click this link to show the "Encryption" tab. ASUS WLAN Adapter...

Page 18: Config - Advanced

If there is an excessive number of collisions on the WLAN, experiment with different fragmentation values to increase the reliability of frame transmissions. The default value (2346) is recommended for normal use. ASUS WLAN Adapter...

Page 19: Config - Encryption

WPA/ WPA2 - The network is operating in IEEE 802.1x authentication mode. This mode is for environments with RADIUS (Remote Access Dial-in User Service). In a RADIUS environment, five Extensible Authentication Protocol (EAP) are supported, including PEAP, TLS/Smart Card, TTLS, LEAP and Md5- Challenge. ASUS WLAN Adapter...

Page 20: Data Encryption

Key 1. For 64-bit encryption, you are required to enter four WEP Keys. Each Key contains exactly 10 hex digits (0~9, a~f, and A~F). For 128-bit encryption, you are required to enter four WEP Keys. Each Key contains exactly 26 hex digits (0~9, a~f, and A~F). ASUS WLAN Adapter...

Page 21 (104 + 24). Some vendors refer to this level of WEP as 104 bits and others refer to this as 128 bits. Our Wireless LAN products use the term 128 bits when referring to this higher level of encryption. ASUS WLAN Adapter...

Page 22: Config - Authentication

TTLS: TTLS authentication uses certificates to authenticate the server, while maintaining similar security properties to TLS such as mutual authentication and a shared confidentiality for session WEP key. ASUS WLAN Adapter...

Page 23: Profiles

To Configure AP Select Configure AP (Registrar), then click Next to continue. Select the AP that you want to configure, type in the PIN of the AP, and set up the encryption. When done, click Next to continue. ASUS WLAN Adapter...

Page 24: Survey - Site Survey

Survey - Site Survey Use the Site Survey tab to view statistics on the wireless networks available to the WLAN adapter and their parameters. SSID: The SSID of the available • networks. Channel: The channel used by each • network. ASUS WLAN Adapter...

Page 25: About - Version Info

The program version information field includes the Copyright and utility version. The version information includes the NDIS version, driver name, driver version and hardware version. This screen is an example only. Your version numbers will be different from what are shown here. ASUS WLAN Adapter...

Page 26: Link State

WLAN Adapter Settings. Use the icon to view the current signal status. Excellent Link Quality (Infrastructure) Good Link Quality (Infrastructure) Fair Link Quality (Infrastructure) Poor Link Quality (Infrastructure) Not linked (Infrastructure) Exit Wireless Settings To exit Wireless Settings, you can click OK or Cancel. ASUS WLAN Adapter...

Page 27: Windows ® Xp Wireless Options

Adapter. Only use our WLAN utilities and disable Windows wireless function – Only use ASUS WLAN utilities to configure the WLAN Adapter. Configuring with Windows® Wireless Zero Configuration service If you want to configure your WLAN Adapter via Windows Wireless Zero ®...

Page 28 Move up and Move down bar meaning poor signal. buttons. The radio tower with a signal icon identifies the currently connected access point. Click Properties to set the authentication of the wireless connection. ASUS WLAN Adapter...

Page 29: Windows ® Vista Wireless Options

1. The General page shows status,SSID, duration, speed, and signal strength. The to set the authentication of the wireless green bars represent signal strength, with connection,. . 5 bars indicating excellent signal and 1 bar meaning poor signal. ASUS WLAN Adapter...

Page 30: Troubleshooting

Verify that the “SSID” of your WLAN Adapter is set to the same “SSID” of an access point. c. Verify that the “Encryption” type is the same as that of an access point. If you enabled “WEP” encryption, you must also set the same WEP Keys on both sides. ASUS WLAN Adapter...

Page 31 98 or ten bindings in Windows Me. These limits are imposed by the Microsoft operating system. Solution: If your computer already has the maximum number of TCP/IP bindings, remove one of the network adapters from the Network configuration before installing the WLAN Adapter driver. ASUS WLAN Adapter...

Page 32: Glossary

52 subchannels, each approximately 300 KHz wide. COFDM uses 48 of these subchannels for data, while the remaining four are used for error correction. COFDM delivers higher data rates and a high degree of multipath reflection recovery, thanks to its encoding scheme and error correction. ASUS WLAN Adapter...

Page 33 Spread spectrum (broadband) uses a narrowband signal to spread the transmission over a segment of the radio frequency band or spectrum. Direct-sequence is a spread spectrum technique where the transmitted signal is spread over a particular frequency range. ASUS WLAN Adapter...

Page 34 (LANs) can be configured as an Extended Service Set. ESSID (Extended Service Set Identifier) You must have the same ESSID entered into the gateway and each of its wireless clients. The ESSID is a unique identifier for your wireless network. ASUS WLAN Adapter...

Page 35 Ethernet and Fast Ethernet, 802.11b and 802.11a use an identical MAC (Media Access Control). However, while Fast Ethernet uses the same physical-layer encoding scheme as Ethernet (only faster), 802.11a uses an entirely different encoding scheme, called OFDM (orthogonal frequency division multiplexing). ASUS WLAN Adapter...

Page 36 Infrastructure A wireless network centered about an access point. In this environment, the access point not only provides communication with the wired network but also mediates wireless network traffic in the immediate neighborhood. ASUS WLAN Adapter...

Page 37 NIC (Network Interface Card) A network adapter inserted into a computer so that the computer can be connected to a network. It is responsible for converting data from stored in the computer to the form transmitted or received. ASUS WLAN Adapter...

Page 38: Subnet Mask

Any device containing IEEE 802.11 wireless medium access conformity. Subnet Mask A subnet

mask is a set of four numbers configured like an IP address. It is used to create IP address numbers used only within a particular network. ASUS WLAN Adapter...

Page 39 For earlier Windows Operating systems, a WPA capable supplicant is required such as Funk Software's Odyssey Client. WLAN (Wireless Local Area Network) This is a group of computers and other devices connected wirelessly in a small area. A wireless network is referred to as LAN or WLAN. ASUS WLAN Adapter...

Page 40: Appendix

Safety Information To maintain compliance with FCC's RF exposure guidelines, this equipment should be installed and operated with minimum distance 20cm between the radiator and your body. Use on the supplied antenna. ASUS WLAN Adapter...

Page 41: Ce Mark Warning

These are considered relevant and sufficient. CE Mark Warning This is a Class B product, in a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures. ASUS WLAN Adapter...

Page 42 Chapter 6 - Appendix ASUS WLAN Adapter...