



OPEN



OPEN303W Wireless USB Adaptor

User Manual

Regulatory Statements

FCC Certification

The United States Federal Communication Commission (FCC) and the Canadian Department of Communications have established certain rules governing the use of electronic equipment.

Part15, Class B

This device complies with Part 15 of FCC rules. Operation is subject to the following two conditions:

- 1 This device may not cause harmful interface, and
- 2 This device must accept any interface received, including interface 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 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 off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
 - Reorient or relocate the receiving antenna.
 - Increase the distance between the equipment and receiver.
 - Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.

CAUTION:

- 1 To comply with FCC RF exposure compliance requirements, a separation distance of at least 20 cm must be maintained between the antenna of this device and all persons.
- 2 This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.



WARNING!

The 802.11b power output complies to the FCC/CE international standards but exceeds the Australian recommendations for prolonged RF exposure within close proximity to the body. To ensure Australian health and safety regulations are maintained, this device should not be used in laptops or desktop computers using older 802.11b wireless network technology unless the USB adaptor is positioned at a distance of greater than 20mm from the head and torso.

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Introduction

The **802.11b+g Wireless LAN USB Adaptor** is designed for a USB type A port of a laptop or desktop computer for creating a wireless workstation. It is USB 2.0 compliant which connects to any available USB port on a notebook or desktop computer.

The **802.11b+g Wireless LAN USB Adaptor** complies with **IEEE 802.11g** standard that offers a data rate up to **54Mbps** in a wireless LAN environment. It is backward compliant with IEEE 802.11b specification. The high-speed wireless network card can plug into your notebook or desktop computer and accesses to the LAN or peer-to-peer networking easily without wires or cables. Whether you're at your desk or in the boardroom, it allows you to share printers, files, and other network resources.

Features:

- Complies with IEEE 802.11g standard for 2.4GHz Wireless LAN
- USB 2.0 compliant
- USB Plug & Play
- Inter-operable with existing network infrastructure
- Secure information transmission
- Freedom to roam while staying connected
- Compatible with specialty wireless products and services
- Up to 54 Mbps data rate
- Antenna is built in the card with LED indication
- Low power consumption
- Easy to install and configure

Software Installation

Install the Driver And Utility

For Windows 98, 2000, ME and XP users



WARNING!

Do not insert the wireless LAN adaptor into your computer until the procedures in *Install the Driver & Utility* have been performed.

- step 1** Exit all Windows programs. Insert the included CD-ROM into your computer. The CD-ROM will run automatically.
- step 2** When the *Main Menu* screen appears, click **Driver & Utility Installation** to continue.
- step 3** When the *Welcome* screen appears, click **Next** to continue.
- step 4** The installation program will start running automatically. Follow the on-screen instruction to proceed.
- step 5** Click **Finish** to complete the software installation.

Hardware Installation

Windows 2000/XP



NOTE:

Before you install the device to your computer, make sure you have installed the driver and utility as described in the previous section.

Windows XP

- step 1** Locate your USB host and insert the USB adaptor.
- step 2** Once the device has been inserted to your computer, Windows will detect the new hardware.
- step 3** When the following screen appears, select **Install the software automatically (Recommended)**.
- step 4** Click **Continue Anyway** → **Finish** to complete the hardware installation.

Windows 2000

Insert the USB adaptor into the USB port of your computer and then click **Yes** to complete the hardware installation.

Windows 98/ME

In Window 98/ME, you only have to insert the USB adaptor into the USB port of your computer to complete the hardware installation.

To verify whether the device exists in your computer and is enabled:

- Go to **Start** → **Settings** → **Control Panel** → **System** (→**Hardware**) → **Device Manager**. Expand the Network Adaptors category. If the 802.11b+g USB Wireless LAN Adaptor is listed here, it means that your device is properly installed and enabled.

Network Connection

Once the device driver is well installed, a network setting described in the following should be also established.

Windows 98SE/ME

- step 1** Go to **Start** → **Settings** → **Control Panel** → **Network**.
- step 2** Make sure all the required components are installed. If any components are missing, click the **Add** button to add them.
- step 3** For making your computer visible on the network, enable the File and Print Sharing.
- step 4** Click the **Identification** tab. Make up a name that is unique from the other computers' names on the network. Type the name of your workgroup, which should be the same used by all of the other computers on the network.
- step 5** Click the **Access Control** tab. Make sure that *Share-level access control* is selected. If connecting to a Netware server, share level can be set to *User-level access control*.
- step 6** When finished, restart your computer to activate the new device.

Windows 2000/XP

- step 1** Go to **Start** → **Settings** → **Control Panel** → **Network and Dial-up Connections** → **Local Area Connection** → **Properties**.

(In Windows XP)

- step 1** Go to **Start** → **Control Panel** → **Network and Internet Connections** → **Network Connection** → **Wireless Network Connection** Enabled USB Wireless Network Adaptor.
- step 2** Make sure that all the required components are installed.
- step 3** If any components are missing, click the **Install...** button to select the **Client/Service/Protocol** required. After selecting the component you need, click **Add...** to add it.
- step 4** For making your computer visible on the network, make sure you have installed **File and Printer Sharing for Microsoft Networks**.

NOTE:



When assigning IP Addresses to the computers on the network, remember to have the IP address for each computer set on the same subnet mask. If your Broadband Router use DHCP technology, however, it won't be necessary for you to assign Static IP Address for your computer

- step 5** To configure a dynamic IP address (i.e. if your broadband Router has the DHCP technology), check the *Obtain an IP Address Automatically* option.
- step 6** To configure a fixed IP address (if your broadband router is not DHCP supported, or when you need to assign a static IP address), check the *Use the following IP address* option. Then, enter an IP address into the empty field, for example, enter **192.168.1.1** in the IP address field, and **255.255.255.0** for the Subnet Mask.

Configuration Utility

After the Wireless adaptor has been successfully installed, users can use the included Configuration Utility to set their preference.

- Go to **Start** → **Program** → **802.11b+g Wireless LAN** → **802.11b+g USB Wireless LAN Utility**.

For **Windows 2000/XP**, the *Configuration Utility* icon will also appear in the taskbar. You can open the Configuration Utility by clicking the icon.



NOTE:

There are two modes, Station and Access Point for you to switch. You can select the mode you need from the drop-down menu.

Station

Select **Station** mode, and you will see the following fields.

Field	Definition
Channel	Shows the selected channel that is currently in use. (There are 14 channels available, depending on the country.)
Type	The infrastructure is intended for the connection between wireless network cards and an Access Point. With the wireless adaptor, you can connect wireless LAN to a wired global network via an Access Point The Ad-hoc lets you set a small wireless workgroup easily and quickly. Equipped with the wireless adaptor, you can share files and printers between each COMPUTER and laptop.
SSID	The SSID is the unique name shared among all points in your wireless network. The name must be identical for all devices and points attempting to connect to the same network. It shows the current SSID setting of the Wireless USB Adaptor.

Field	Definition
Tx Rate	Click the down arrow ▼ to select the Tx Rate from Auto, 1, 2, 5.5, 11, 6, 9, 12, 18, 24, 36, 48, 54 Mbps, you can select up to 54 Mbps.
Encrypt	WEP is a data privacy mechanism based on a 64-bit/128-bit shared key algorithm.
More Setting...	Click the More Setting button to configure, see the following figure (Refer to the More Setting section on the next page for more information about this figure).
Link Status	Displays the information about the status of the communication between the Wireless USB Adaptor and the Access Point.
Signal Strength	Displays the signal strength of the connection between the Wireless USB Adaptor and the Access Point it connects.
Link Quality	Displays the link quality of the connection between the Wireless USB Adaptor and the Access Point it connects.

More Settings...

Field	Definition
Tx Frame	The quantities for the wireless network card transmit. (Frame: The unit of packet)
Rx Frame	The quantities for the wireless network card receive. (Frame: The unit of packet)

Field	Definition
Channel	The Channel will change automatically according to AP's setting.
Tx Rate	Click the down arrow ▼ to select the Tx Rate from Auto, 1, 2, 5.5, 11, 6, 9, 12, 18, 24, 36, 48, 54 Mbps, you can select up to 54 Mbps.
SSID	The SSID is the unique name shared among all points in your wireless network. The name must be identical for all devices and points attempting to connect to the same network.
Any	You may select to have SSID by choosing any, the SSID will be obtained automatically from whichever Access Point with the optimal signal for this device. If any is left unchecked, it means you will have to enter the SSID manually.

Field	Definition
Network Type	The infrastructure is intended for the connection between wireless network cards and an Access Point. With the wireless adaptor, you can connect wireless LAN to a wired global network via an Access Point. Equipped with the wireless adaptor, you can share files and printers between each COMPUTER and laptop.
Encryption	You can only set your Security preference when Change is selected and then all fields are active for change. To save settings, press Apply when you are done with the settings. Select from the pull-down menu, there are four options including Disable, WEP, TKIP and AES.
Authentication Mode	You can select the Authentication Mode from the pull-down men, including Auto, Open System, Shared Key, WPA and WPA PSK.
Encryption Setting	WEP Encryption Setting WPA Encryption Setting. You can only set your Security preference when Change is selected and then all fields are active for change. To save settings, press Apply when you are done with the settings. WEP Encryption Setting Key length. You may select the key length between 64 (bit), 128 (bit) and 256 (bit).

Field	Definition
Default Key ID	You can set your default key ID at #1~#4.
Key Format	Select Hexadecimal if you are using hexadecimal numbers (0-9, or A-F). Select ASCII if you are using ASCII characters (case-sensitive). 10 hexadecimal digits or 5 ASCII characters are needed if 64-bit WEP is used; 26 hexadecimal digits or 13 ASCII characters are needed if 128-bitWEP is used <input type="checkbox"/> 58 hexadecimal digits or 29 ASCII characters are needed if 256-bitWEP is used.
Key Value	#1~#4 This setting is the configuration key used in accessing the wireless network via WEP encryption. You can specify up to 4 different keys to <i>encrypt</i> or <i>decrypt</i> wireless data. The Key is provided via 802.1x authentication

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Field	Definition
	Please ask your network manager about the currently used security protocol, if 802.1x authentication is currently used, then you can check this item to enable 802.1x security protocol. The key value will be configured automatically, just click Apply to take effect.
WPA Encryption Setting	<p>Protocol - This panel enables you to select an authentication protocol.</p> <p>User Name - Type in the user name assigned to the certificate.</p> <p>Password - This panel is available when EAP-TLS is not selected (either MSCHAP V2 over PEAP is selected with WEP or LEAP is selected for CCX). This panel enables you to enter a login name and password or request that the driver prompt for them when you connect to a network.</p> <p>Passphrase - Enter the key that you are sharing with the network for the WLAN connection.</p> <p>Key Format - Select Hex if you are using hexadecimal numbers (0-9, or A-F). Select ASCII if you are using ASCII characters.</p>

	Certificate - Please ask your network manager about the certificate, select the same certificate as the certification server.
Load	You may select already saved file from the Profile name list, and then press Load . The setting status will then be restored.
Save Current	You may save current setting to profile and add one new item in Profile name .
Delete	Delete the files in the Profile name .
Advanced Setting	Click the Advanced Setting button to configure the following figure. Refer to the Advanced Setting section on the next page to see more information about the Advanced Setting .
Information	Click the Information button to display the Driver Version, Utility Version and MAC Address of the system.

Advanced Setting

User Interface

Power Consumption Setting

Field	Definition
Language	Select English or Traditional Chinese.

Field	Definition
Continuous Access Mode (CAM)	When this mode is selected, the power supply will be normally provided even when there is no throughput.
Maximum Power-Saving Mode	When this mode is selected, this device will stay in power saving mode even when there is high volume of throughput.
Fast Power-Saving Mode	When this mode is selected, the power mode will switch between CAM and Maximum Power-Saving Mode depending on the volume of throughput. The device driver checks the total bytes (only data frame) every 4 seconds to decide the power mode. If the total bytes sent exceed 10k bytes, the device driver will choose "CAM". If the total bytes are less than 10k bytes, however, the device driver will choose "Maximum Power-Saving Mode".

Country Roaming

Field	Definition
World Mode	This function is only enabled and effective with 802.11d standard.
User Select	Enable this function to select the country you are now locating.

Field	Definition
Fragmentation Threshold	The mechanism of Fragmentation Threshold is used to improve the efficiency when high traffic flows along in the wireless network. If your 802. Wireless LAN Adaptor often transmit large files in wireless network, you can enter new Fragment Threshold value to split the packet. The value can be set from 256 to 2346. The default value is 2346.
RTS/CTS Threshold	RTS/CTS Threshold is a mechanism implemented to prevent the "Hidden Node" problem. If the "Hidden Node" problem is an issue, users have to specify the packet size. <u>The RTS/CTS mechanism will be activated if the data size exceeds the value you set.</u> The default value is 2347. This value should remain at its default setting of 2347. Should you encounter inconsistent data flow, only minor modifications of this value are recommended.

Access Point

You can set your **802.11g Wireless LAN USB Adaptor** as an Access Point (AP). This allows you to set up your wireless networks without using a dedicated AP device. Up to 16 wireless stations can be associated via the **802.11g Wireless LAN USB Adaptor**.

To the **802.11g Wireless LAN USB Adaptor** to bridge your wired and wireless network, the following requirements must be met.

- step 1** The **802.11g Wireless LAN USB Adaptor** must be installed on a computer connected to the wired network.
- step 2** Either configure network sharing (refer to the appendix for an example) or bridge the two interfaces (wireless and wired) on the computer.
- step 3** Set the wireless station's IP address to be in the same subnet as the computer in which the **802.11g Wireless LAN USB Adaptor** is installed. Refer to **Configuring the Wireless Station Computer**.
- step 4** Select the Access Point mode, and you will see the following figure.

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Field	Definition
Network Adaptor	You can select the network adaptor from the pull-down menu, it shows the device itself the 802.11g Wireless LAN USB Adaptor and also shows the devices supported by the 802.11g Wireless LAN USB Adaptor.
Connection Station List	It shows the stations which are now connecting to the AP.
Channel	Shows the selected channel that is currently in use. (There are 14 channels available, depending on the country.)
SSID	The SSID is the unique name shared among all points in your wireless network. The name must be identical for all devices and points attempting to connect to the same network. It shows the current SSID setting of the Wireless USB Adaptor.
WEP	The WEP function here has been disabled. If you want to change to Enabled, click More Setting... to configure.
Tx Power	The Tx power here is configured as Level 0, to change the Tx power, click More Setting... to configure.
More Setting...	Click the More Setting... button and the following figure will appear for you to configure. Refer to the More Setting... section on the next page for more information about this figure.

More Setting...

Field	Definition
Tx Frame	The quantities for the wireless network card transmit. (Frame: The unit of packet)
Rx Frame	The quantities for the wireless network card receive. (Frame: The unit of packet)

Field	Definition
Channel	Shows the selected channel that currently in use. (There are 14 channels available, depending on the country.)
Mode	Select Mixed Mode or 802.11b only, 802.11g only standard Mode (If you choose this option the device will automatically convert the suitable standard).
SSID	The SSID is the unique name shared among all points in your wireless network. The name must be identical for all devices and points attempting to connect to the same network. It shows the current SSID setting of the Wireless USB Adaptor.
Tx Power	Select the Tx power from the pull-down menu, there are four levels including Level 1, Level 2, Level 3 (Minimum).
Change or Apply	Click Change to set the General Connection Setting. After Completing the setting click Apply .
WEP	You can select to Enable or Disable the WEP function by highlighting it from the drop-down menu. Click Setting and the following figure will appear.

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Field	Definition
Authentication Mode	Select the Authentication mode from the drop-down menu, there are two modes for you to choose, Open System and Shared Key.
Fragment	The mechanism of Fragmentation Threshold is used to improve the efficiency when high traffic flows along in the wireless network. If your 802. Wireless LAN Adaptor often transmit large files in wireless network, you can enter new Fragment Threshold value to split the packet. The value can be set from 256 to 2346. The default value is 2346.
RTS/CTS	RTS/CTS Threshold is a mechanism implemented to prevent the "Hidden Node" problem. If the "Hidden Node" problem is an issue, users have to specify the packet size. <u>The RTS/CTS mechanism will be activated if the data size exceeds the value you set.</u> The default value is 2347. This value should remain at its default setting of 2347. Should you encounter inconsistent data flow, only minor modifications of this value are recommended.
Preamble	A preamble is a signal used in wireless environment to synchronize the transmitting timing including Synchronization and Start frame delimiter. Select from the pull-down menu to change the Preamble type into Long or Short.

Field	Definition
MAC Address Filter	Click Setting and you will see the following figure. You can select the Filter Type from the drop-down menu. Disable - Select to disable the filter function. Accept - You can type in 15 MAC addresses by clicking Change . If you select Accept, then the MAC address(es) you type in will be connected to the AP. Reject - You can type in 15 MAC addresses by clicking Change . If you select Reject , then the MAC address(es) you type in will not be connected to the AP.
Bridge Adaptor	The stations will not be allowed to connect to the internet if you select No bridge. The stations will be allowed to connect to the internet if you select the device listed in the pull-down menu.

Appendix

Soft AP Configuration

Setup Requirement:

To bridge your wired and wireless network using 802.11b+g Wireless LAN USB Adaptor, the following must be met:

- step 1** Install the 802.11b+g Wireless LAN USB Adaptor on the LAN-connected computer.
- step 2** The Soft Access Point should be connected to a network switch, hub or a Broadband Router. Use a standard Category 5 UTP Ethernet cable with an RJ-45 connector to connect the Soft Access Point to one of router, hub, or switch.
- step 3** The computer that you are installing the wireless card into has an Ethernet connection, and is connected to a LAN with a DHCP server.

SoftAP Configuration

- step 1** Select the Access Point mode, and you will see the following figure
- step 2** Click the **More Setting...** button and the following figure will appear for you to configure
- step 3** Select the wired Network Adaptor that has already installed in the COMPUTER from the pull-down menu.
- step 4** If the network connected to the wired LAN card has a DHCP server, you just need to configure the wireless station as a DHCP client (select **Obtain an IP address automatically**). If the network does not have a DHCP server, you must assign a fixed IP to the wired computer (select Use the following IP address).

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