

**WLI-CB-B11
Manual**

Quick Setup Guide

Thank you for purchasing BUFFALO's wireless LAN card WLI-CB-B11. The WLI-CB-B11 is installed for wireless LAN communication in computers equipped with a CardBus slot (type II). Read this manual carefully before using the wireless LAN card to ensure correct operation.

Contents of Package

The items listed below are included in the package. Please check the package and contact your nearest sales representative if any items are missing.

- Wireless LAN Card.....□ 1
- AirNavigator CD.....□ 1
- Quick Setup Guide(this document).....□ 1
- User registration card, warranty.....□ 1

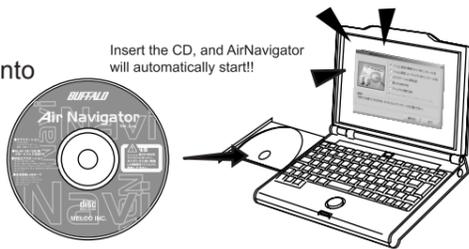
Note Be sure to read any additional information sheets provided in the package.

Windows XP/2000/Me/98 Settings

This chapter describes how to make the settings for connecting your Windows XP/2000/Me/98 computer to a wireless LAN.

1 Getting Started

The wireless LAN adapter setup procedure begins with setting of the AirNavigator CD. First, insert the CD into the CD-ROM drive of your PC. Then, proceed to the next step 2, "Installing Drivers."

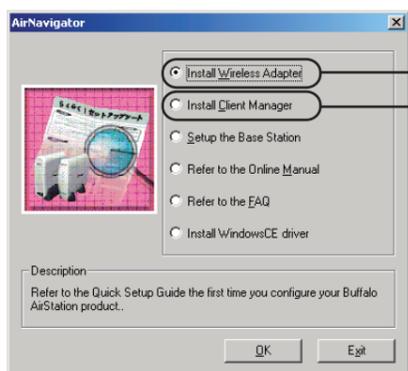


If your computer has only one PC card slot

If the CD-ROM drive is connected via the PC card to a computer with only one PC card slot, the CD-ROM drive and this wireless LAN card cannot be used at the same time. Execute the following steps before installing the PC card driver.

- 1 Connect the CD-ROM drive to the computer.
- 2 Insert the "AirNavigator CD" into the CD-ROM drive.
- 3 Create a new folder (directory) on the hard disk, and copy all files from the CD-ROM to that folder.
- 4 Double-click the "Setup" icon .

2 Installing Drivers



1 Choose "Install Wireless Adapter" and then click "OK". The drivers will be copied to your PC, and the on-screen instructions will appear. (*)

2 Chose "Install Client Manager" and click "OK".

Note If the window shown above is not visible, it may be behind another window. In this case, close the other window.

3 Click [Exit], and proceed to the next step 3, Connecting to Network.

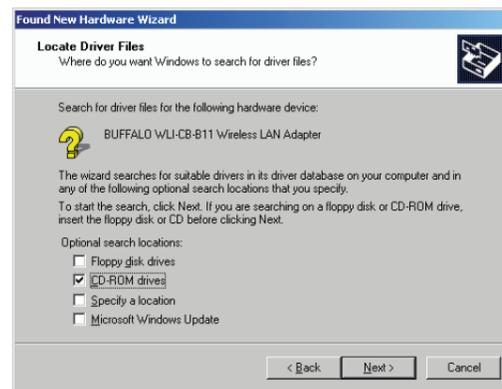
(*) If the "Found New Hardware Wizard" or "Add New Hardware Wizard" appears, please proceed the following instruction. The WindowsXP screen shots are used for example.

1 In the case of Windows2000 and 98SE, click [Next].

2 Select "Search for a driver automatically (Recommended)" option and click [Next].

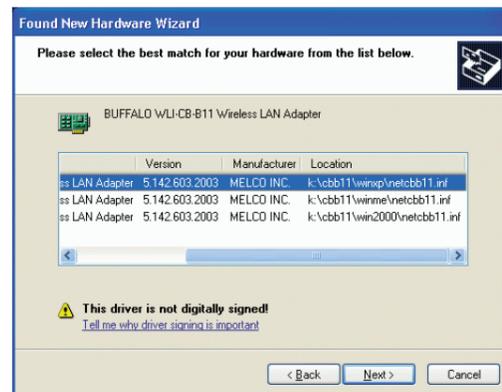


3 If the dialog asking search location appears, select "CD-ROM" drive and click [Next].



*Only Windows2000 and 98SE prompts this option

4 If driver selection list appears, select suitable folder name for your system and click [Next].



5 If Windows compatibility dialog appears, click [Continue Anyway].



6 If complete message appears, click [Finish] to close the Wizard. Some OS might require system rebooting to activate installed driver.



3 Connecting to Network

There are two methods for connecting to the network as shown below. Make the settings according to your case.

A Communicating via AirStation

B Communicating with wireless LAN computers

Note For the AirStation setup, refer to the AirStation manual.

A Communicating via AirStation

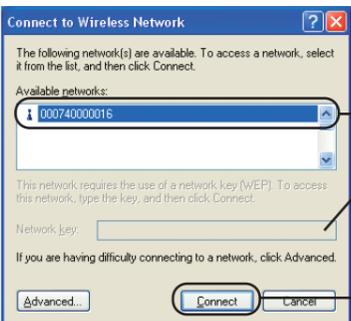
- Note**
- If you always use the same access point such as at home or office, select it only once during the following initial setting. No need to select again once set.
 - If you use different access points, you have to select an access point using the following procedure each time you access.

Windows XP User

The settings are made on the wireless network connection window.

1 Right-click the "Wireless Network Connection" icon () on the task tray, and choose [View Available Wireless Networks].

2



1 Select the access point ESS-ID.

2 When you are connecting to an access point with an encryption (WEP) key set, enter the WEP key to the "Network key" text box. (If the WEP key is not set, this box is displayed in gray.)

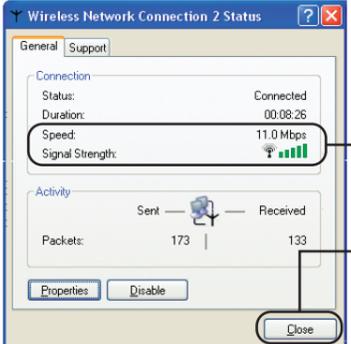
3 Click [Connect].

Note

- If more than one ESS-ID is displayed, check the ESS-ID value to identify the target access point.
- For the initial ESS-ID setting of the AirStation, refer to the AirStation manual.

3 When your PC is correctly connected to the network, the message "Connected to: (Associated ESS-ID)" appears on the task tray.

4



To check the connection status, click the "Wireless Network Connection" icon () on the task tray.

1 Confirm the current communication speed (Speed) and signal strength (Signal Strength).

2 Click [Close] to close the connection status window.

Now, the wireless connection setting is complete.

Next, set up the TCP/IP. For the TCP/IP setting method, refer to the Windows manual or Help.

Note When reading the electronic manual, see the "How to Read the Electronic Manual" on the reverse side of this sheet.

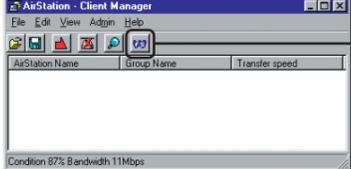
Windows 2000/Me/98 User

The settings are made with Client Manager.

1 Double-click the "Client Manager" icon () on the desktop.

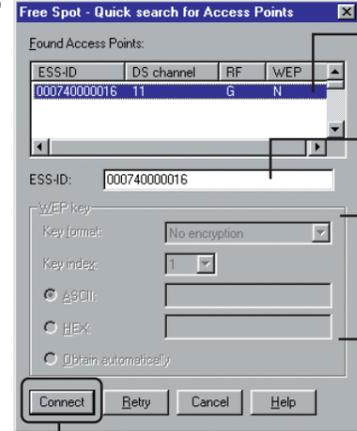
Note If you cannot find the "Client Manager" icon on the desktop, choose [Start]-[Programs]-[AirStation Utility]-[Client Manager].

2



Click the "FREESPOT" button.

3



1 Select the access point ESS-ID. (If no ESS-ID is displayed, Click[Retry].)

2 Check the selected ESS-ID is displayed.

3 When you are connecting to an access point with an encryption (WEP) key set (access point with "Y" marked under "WEP" , enter the WEP key data to this area.

- When entering the WEP key data, usually set the "Key index" to "1."
- If you are connecting to an access point compatible with more than one WEP key, enter the "Key index" and its corresponding WEP key.

4 Click [Connect].

Note

- If more than one ESS-ID is displayed, check the ESS-ID value to identify the target access point.
- For the initial ESS-ID setting of the AirStation, refer to the AirStation manual.

4



When the "Condition" is displayed, the connection setting to the access point is complete.

Note After the computer has succeeded in connecting to the AirStation, a slower data rate such as "2Mbps" may be displayed in the "Transfer speed" column. In this case, the correct data rate will appear when the practical communication starts.

Note If the set access point is AirStation, the AirStation name is displayed when you click the Search button (). (The AirStation name is not displayed when the another maker's access point is set.)

Now, the wireless connection setting is complete.

When reading the electronic manual, see the "How to Read the Electronic Manual" below.

B Communicating with wireless LAN Computers

For the setting procedure, refer to the Help Topics of the Client Manager.

Note

- For Windows XP, you need to cancel the Windows standard wireless networking feature.
- When reading the electronic manual, see the "How to Read the Electronic Manual" below.

How to Read the Electronic Manual

1 Insert the AirNavigator CD into your PC's CD-ROM drive.

2 Choose [Refer to the Online Manual], and click [OK].

3 Select an item you want to reference, and click [OK].

Note If Adobe Acrobat Reader is not in your PC, it will start to be installed. Follow the on-screen instructions to complete the installation.

Removing the wireless LAN card

Follow the procedure below to remove the wireless LAN card when the computer is running. The following procedure uses Windows ME for example.

1 Click the removal icon () in the task tray, and select "Stop BUFFALO WLI-CB-B11 Wireless LAN Adapter."

* The message displayed when you click the icon varies with the Windows version.
* If you cannot find the icon, see the Windows Help.

2 When the message "The 'BUFFALO WLI-CB-B11 Wireless LAN Adapter' device can now be safely removed from the system." is displayed, click [OK].

* The message to be displayed varies with the Windows version.

3 Remove the wireless LAN card from the computer.

Component Names



POWER/LINK lamp

Name	Function
POWER/LINK lamp	FLASH(red) : unlinked ON(green)+FLASH(red) : linked

Product Specifications

Wireless LAN interface	Conforming standards	FCC Part15.247 ETS 300-328 IEEE802.11b (wireless LAN standard)
	Transmission method	DS-SS (IEEE802.11 compliant) Half-duplex
	Max. distance between terminals	11 Mbps transmission 160 m outdoors (estimated) 50 m indoors (1) (estimated) 25 m indoors (2) (estimated) 2 Mbps transmission 400 m outdoors (estimated) 90 m indoors (1) (estimated) 40 m indoors (2) (estimated) 1 Mbps transmission 550 m outdoors (estimated) 115 m indoors (1) (estimated) 50 m indoors (2) (estimated)
		* Indoors (1) ...Office with few obstacles Indoors (2) ...Office with many obstacles * The effective range is adversely affected by the operating environment. • Within a reinforced concrete building such as a condo, or a house with a metal frame • Near large metal furniture
Host interface	Transmission method	CardBus

Applicable PC	IBM AT compatible PC equipped with a CardBus(3.3V) slot	
Operating System	Windows XP, Windows ME, Windows 98, Windows 2000	
Frequency range (central frequency)	2412 to 2483.5 MHz (total 11 channels)	
Data transmission rate	11M/5.5M/2M/1M (bps)	
Security	64-/128-bit WEP	
Operating voltage	3.3V	
Power consumption	Max. 1188mW / 3.3V	
Current consumption	Sending: Max. 360mA	
Operating environment	Temperature	0 ~ 55 °C
	Humidity	20 to 80% (no condensation)
Weight	41g	
Dimensions	54.0mm (W) x 5.0mm (H) x 115.0mm (D)	

Note For the latest product information and applicable PC models, refer to the BUFFALO's catalog, brochure, or Internet homepage (<http://www.buffalotech.com>).

Precautions for radio signals

- The wireless LAN card WLI-CB-B11 has been approved for conformity to the engineering standards as the wireless facility for a radio station with the low power data communication system based on the Wireless Telegraphy Act. Therefore, use of this LAN card does not require any radio station license.
- Never use the WLI-CB-B11 near the magnetic field around a microwave oven or in an area where static electricity and/or radio noise is generated. The radio signals may not be normally transmitted in these areas.
 - * When the WLI-CB-B11 is used near a wireless printer buffer (BUFFALO's RYP-G or similar products by other manufacturers) that use radio signals around 2.4 GHz, the processing speed of both devices may be adversely affected.
- As the WLI-CB-B11 has been approved for conformity to the engineering standards, the following may be regarded as unlawful.
 - Disassembling/remodeling the WLI-CB-B11
 - Removing the approval label from the rear of the WLI-CB-B11
- When it is necessary to set a radio channel other than the initial setting in the WLI-CB-B11, use the same frequency band as the following equipment or wireless stations
 - Industrial, scientific, or medical equipment
 - Radio station for mobile identification used such as on a manufacture line in a factory
 - (1) On-premise radio station (requiring a license)
 - (2) Specific low power radio station (requiring no license)
- Operating the WLI-CB-B11 may cause interference with the above equipment or radio stations. Thus, take precautions for the following points
 - 1 Before using the WLI-CB-B11, verify that no on-premise radio station for mobile identification or no specific low power radio station is operating near the WLI-CB-B11.
 - 2 If an event of interference should be taken place by the WLI-CB-B11 with an on-premise radio station for mobile identification, immediately change the frequency for this product to prevent the interference.
 - 3 If you notice any trouble such as an event of interference caused by the WLI-CB-B11 with a specific radio station for mobile identification, contact your nearest sales representative.

Operating frequency band□	2.4GHz
Modulation method□	DS-SS
Assumed interference distance□	40 m or less
Frequency changeability□	Uses the entire bandwidth, and can avoid the "on-premise radio station" and "specific lower power radio station" bands.

FCC Compliance Statement

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.

R&TTE Compliance Statement

This device complies with the essential requirements of the R&TTE Directive 1999/5/EC. The following test methods have been applied in order to prove presumption of compliance with the R&TTE Directive 1999/5/EC:

- EN 60950: 2000
Safety of Information Technology Equipment
- EN 300 328-2 V1.2.1(2001-12)
Technical requirements for spread-spectrum radio equipment
- EN 301 489-17 V1.1.1(2000-09)
EMC requirements for spread-spectrum radio equipment.

This device is a 2.4GHz wireless LAN transceiver, intended for indoor home and office use in all EU and EFTA member states, except in France where restrictive use applies.

A restricted frequency band exists in France. When operating this device on French territory you may only use channels 10 and 11(2457 and 2462 MHz). It is not allowed to operate this device at any other frequency supported by the device. For more information see <http://www.anfr.fr/>

Federal Communication Commission Interference 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.

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.

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.

IMPORTANT NOTE:

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End users must follow the specific operating instructions for satisfying RF exposure compliance.

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

Information to User:

The users manual or instruction manual for an intentional or unintentional radiator shall caution the user that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.