



# User Manual

## High Power Wireless Notebook Adapter WLI-CB-G54HP

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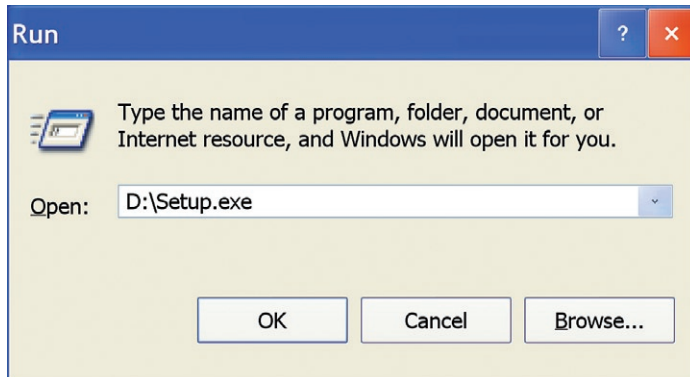
The High Power Wireless Notebook Adapter is a CardBus card that provides wireless connectivity to notebook PCs. It uses an internal amplifier to increase the radio output so that it can connect to APs/Wireless Routers further away and transfer data at range faster than traditional 802.11g CardBus cards.

Buffalo Technology recommends use with the High Power Wireless Router (WZR-HP-G54) for maximum range and performance.

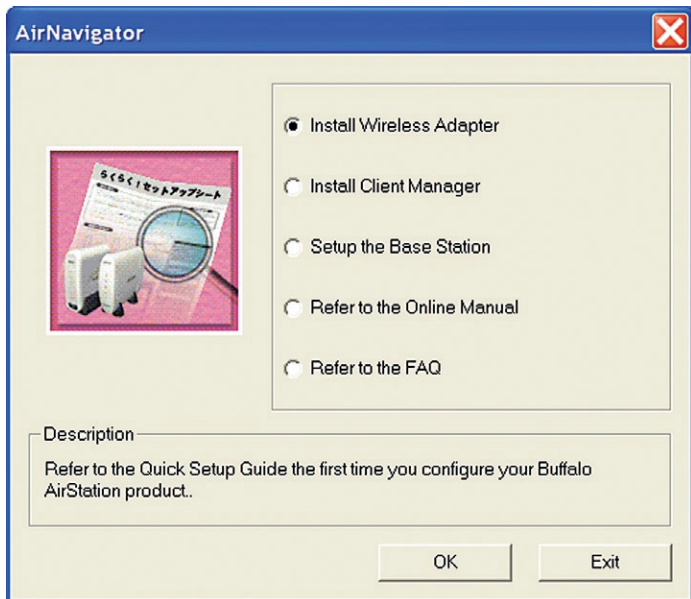
An external antenna can be added to the High Power Wireless Notebook Adapter to increase its range and versatility. Antenna information can be found on *page 24*.

## 1 - Windows 2000 & XP – Installing Drivers

- Insert the AirNavigator CD into the CD-ROM drive of the PC. The Air Navigator Setup Wizard will launch automatically. Turn to page 5.



If the Air Navigator Setup Wizard does not launch automatically, select *Start*, then *Run*, then enter *D:\Setup.exe* in the Open field, where D: is the letter assigned to your CD-ROM drive. Click the *OK* button to launch the wizard.

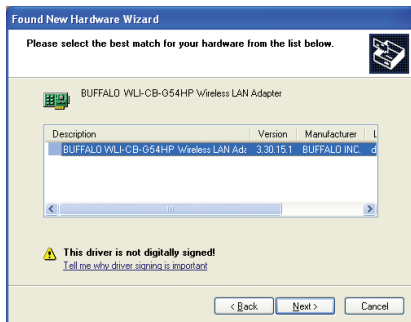


- Select *Install Wireless Adapter*. Click *OK* to begin installation.
- Click *Yes* to confirm your agreement with the terms of the software license agreement, or *No* to abort the installation process.

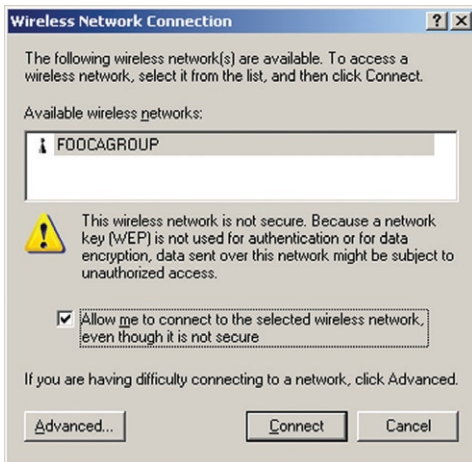
## 2. Installing the Wireless Notebook Adapter:



- Turn on your notebook PC. Insert the AirStation card, with the Buffalo logo facing up, into an available CardBus slot. The Found New Hardware Wizard will launch.
- Select *Install the software automatically*. Click *Next*.



- Select the driver you want to install. If multiple drivers are listed, select the most recent driver version. Click the *Next* button.
- If a window opens, stating that your driver does not pass Windows Logo testing, click the *Continue Anyway* button. When the Wireless Notebook Adapter is successfully installed, click the *Finish* button. Restart your PC if prompted.



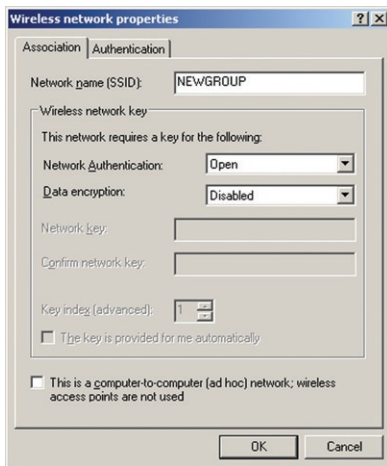
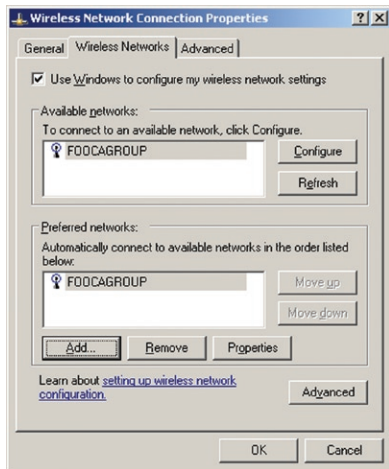
### 3. Wireless Zero Configuration Service:

- If the Wireless Zero Configuration Service is activated, Windows will scan for available wireless access points once the Wireless Notebook Adapter is properly installed. If Windows detects one or more access points, a networking icon appears on the task bar. One or more wireless networks are available appears as a caption accompanying the icon.

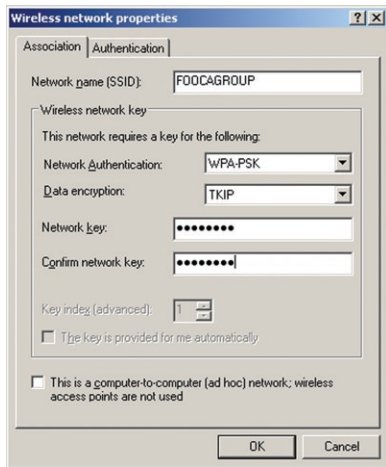
Note: If the Wireless Zero Configuration Service is not functioning, select Start>Control Panel>Administrative Tools>Services. Select Automatic in the Startup Type field of Wireless Zero Configuration Service to enable the Wireless Zero Configuration Service.

- Right click the networking icon in the taskbar and select *View Available Wireless Networks* to display a list of available wireless networks. Select a wireless network and click *Connect*. You may need to check the box indicating you are connecting to an unsecured network. See next page if you need to enter an SSID network name or WEP/WPA encryption key.





- Click the *Advanced* button to enter an SSID network name or WEP/WPA encryption key, if either is necessary. To add an SSID network name that is not listed, click *Add*.



- To configure a WEP/WPA encryption key, select the appropriate wireless network and click the Configure button.
- From the pull down menu, select the appropriate Network Authentication and Data Encryption for the wireless network. Enter and confirm the Network Key and Key Index. Click the OK button when finished.

Skip to page 14 if you are not using Windows XP or prefer not to use Windows XP's Wireless Zero Configuration Service. To use AOSS, begin by installing Buffalo's Client Manager software on page 14.

## Windows 98/ME/2000

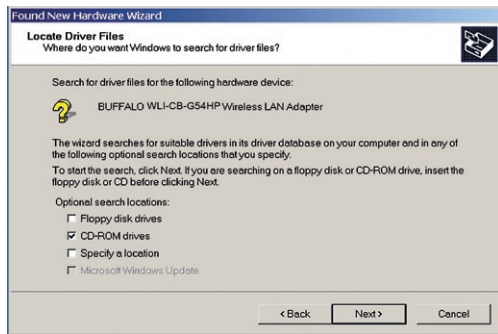
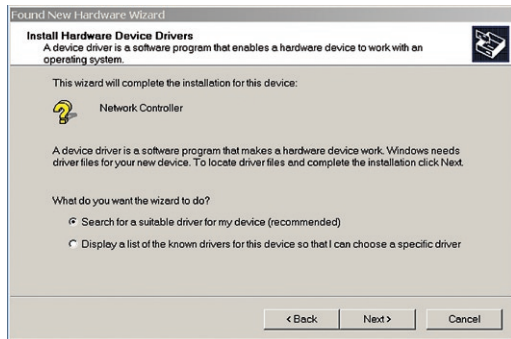
### Installation & Configuration

#### 1. Installing the Wireless Notebook Adapter:

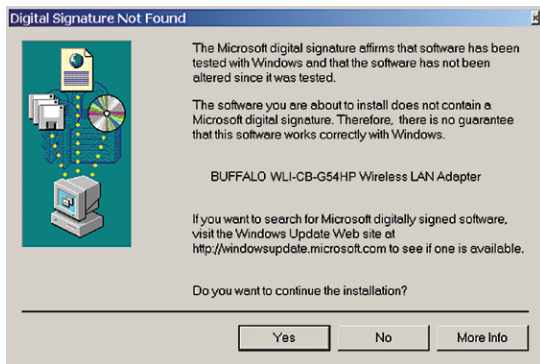


- Insert the Wireless Notebook Adapter, with the Buffalo logo facing up, into an available CardBus slot. CardBus slots are usually located on the left or right side of the notebook. Once the Wireless Notebook Adapter is installed correctly, the Found New Hardware Wizard will launch automatically. If the Found New Hardware Wizard does not launch, remove the Wireless Notebook Adapter and restart the notebook. Reinsert the Wireless Notebook Adapter once the notebook has rebooted. Then, the Found New Hardware Wizard will launch automatically.

## 2. Installing the Wireless Notebook Adapter-Drivers:



- Insert the AirNavigator CD. Click *Next* at the Welcome to the Found New Hardware Wizard. Select *Search for a suitable driver for my device*. Click *Next* to continue.
- Select only the CD-ROM drives checkbox, and clear any other checkboxes that are selected. Click the Next button to continue.



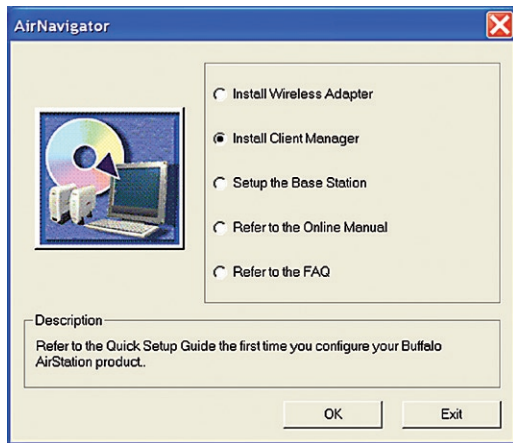
- Windows will display a driver you can use with the Wireless Desktop Wireless Notebook Adapter Adapter. Click the Next button to continue.
- Windows 2000: If the Digital Signature Not Found page opens, informing that no digital signature exists for the driver you are installing, click the Yes button to continue the installation process. When the Wireless Notebook Adapter is successfully installed, click the Finish button. Restart your computer if prompted.

See the Installing Client Manager section to install the Client Manager.

Use Client Manager to configure your wireless network, survey and connect to available access points, enable and use WEP encryption, and create connection profiles.

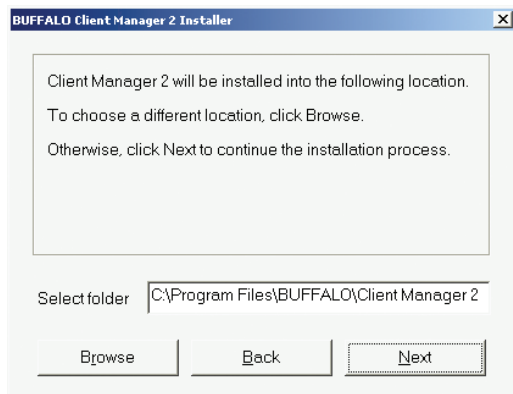
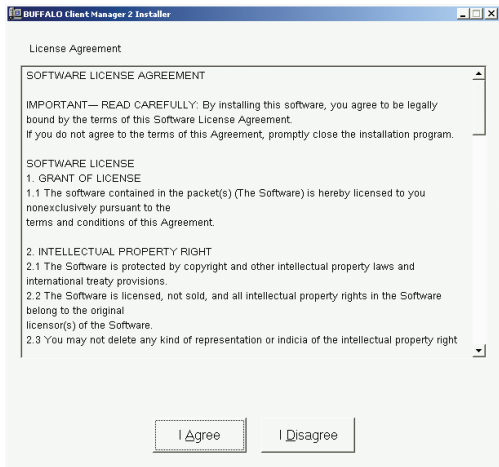
Note: Client Manager does not function properly if the Windows XP Wireless Zero Configuration Service is enabled.

## Installing Client Manager



- Insert the AirNavigator CD. The AirNavigator dialog box will open automatically. If the AirNavigator dialog box does not open automatically, select Start»Run and enter D:\Setup.exe in the Open field to open the dialog box manually. D: represents the letter assigned to the CD-ROM drive. If another letter is assigned to the CD-ROM drive, your command should reflect that difference. Click the OK button. Select Install Client Manager to launch the Install Shield Wizard.

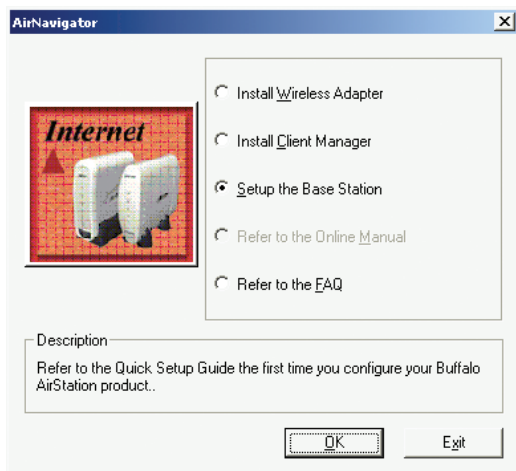
- Once the InstallShield Wizard launches, click the Next button to begin the software installation.



- Once the Installer Wizard launches, click the Next button to begin the software installation.
- Press I Agree to accept the license agreement and continue the installation process.

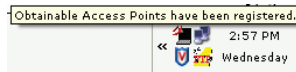


- Press the OK button to finish and close the installation program.



- Press the Exit button to exit the Client Manager installation utility.

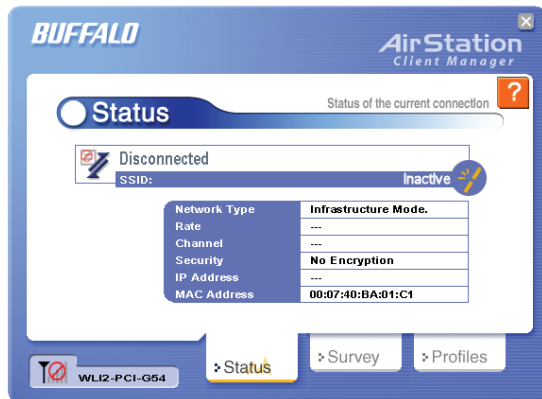
- The Buffalo Client Manager is now installed and running, right clicking on its icon (the black notebook icon) will allow you to begin using it.





## Client Manager Configuration

Use Client Manager to configure your wireless network. To assist in configuring your wireless network, Client Manager consists of the Status page, the Survey page, and the Profiles page. You can access each page by clicking the corresponding button on Client Manager. In addition to these pages, several dialog boxes are available to meet specialized configuration needs. You can access the Edit Profile dialog box, New Profile dialog box, IP Configuration dialog box, or WEP Configuration dialog box using the Client Manager pages.



### Status Page

Click the *Status* button to open this page. By default, this page is displayed when you start Client Manager. This page displays the status of the connection between the wireless adapter and another wireless device. This page only displays connection information no changes to the connection can be made from this screen.

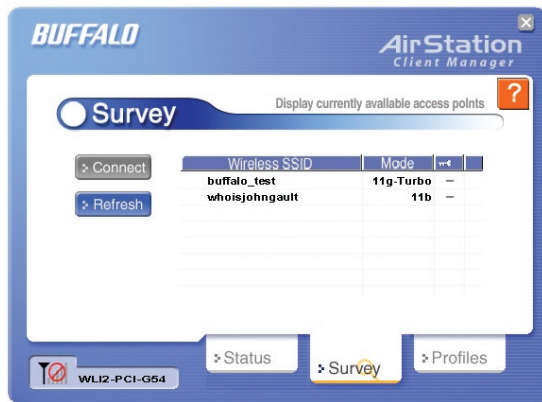
This page includes the following components:

- **Network Type** – Displays what mode the network device is in. Ad-Hoc or Infrastructure are the available modes.

- **Rate** – The speed that the two wireless clients are communicating at. If the Client Manager is not connected to a remote wireless device (access point or another client) then no rate will be displayed.
- **Channel** – The channel that the two wireless clients are communicating at. If the Client Manager is not connected to a remote wireless device (access point of another client) then no channel will be displayed. The available channels for use are 1-11.
- **Security**– The type of encryption that the two wireless clients are communicating with. If the Client Manager is not connected to a remote wireless device (access point of another client) then 'No Encryption' will be displayed.
- **IP Address** – The IP address of the machine the Client Manager is installed on. If the Client Manager is not connected to a remote wireless device (access point of another client) or is not connected to a network with DHCP, then no IP address will be displayed.
- **MAC Address** – The MAC address of the wireless client device inside the computer Client Manager is installed on. If no wireless device is present in the computer, then no MAC Address will be displayed.
- **Signal Strength** – Displays the strength of the signal. Signal Strength is based on the peak signal level the wireless adapter receives from the wireless device to which it is connected. Next to the signal level is the wireless hardware type that the computer has available.

## Survey Page

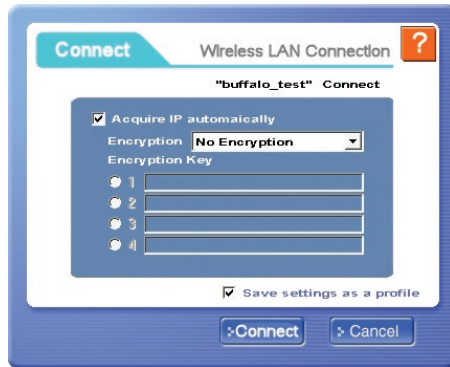
Click the **Survey** button to open this page. Use this page to survey the area, display available access points, and connect to available access points.



This page includes the following components:

- **Wireless SSID** – Displays the SSID associated with each available access point. The SSID is the unique network name that functions as an identifier for your wireless devices. All wireless devices on a network must use identical SSIDs to successfully associate with other devices on the network. buffalo\_test is an example of a valid SSID.
- **Mode** – Displays the mode/rate set that the remote wireless device is offering.
- **Key** – Displays whether the wireless network is using any sort of encryption.

Once the **'Connect'** button is pressed, you will be prompted to enter any encryption related information.



The **'Acquire IP automatically'** checkbox tells the client device to obtain an IP automatically from a DHCP server. This is the recommended setting.

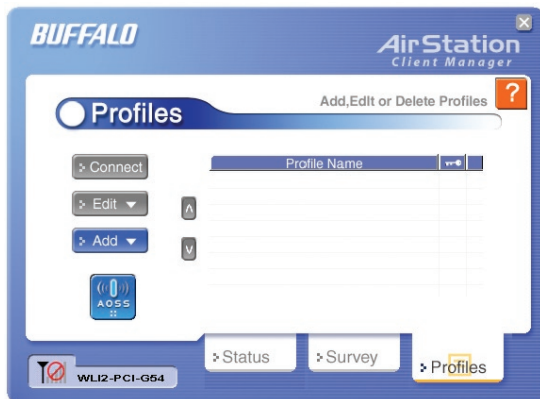
The **'Encryption'** drop down list allows you to select the type of encryption for the network. By default the proper encryption type should already be selected. In the event that no encryption is used, leave the *'No Encryption'* option selected.

The **'Encryption Key'** is where the actual key required by the wireless network must be inputted. Please consult your wireless access point or router's documentation for proper input

of the encryption keys. Some wireless networks may require you to enter multiple keys, in this event, four separate fields are available for encryption keys.

The **'Save settings as a profile'** option will store this wireless network in your profiles. This means you will automatically connect to this network when inside its range. This settings is recommended if you plan on using this wireless network more than once.

## Profiles Page



Click the **Profiles** button to open this page. Use this page to access your profiles. Profiles allow you to save the information associated with a specific wireless network so you can quickly and easily connect to that network when you are in that location. The Profiles page allows you to add, delete, and edit your profiles, as well as import and export data.

- **Connect** – Click the **Connect** button to connect to the selected profile and return to the **'Status'** page.

- **Edit** – Click the **Edit** button to edit the

selected profile's settings. The Edit button also allows you to delete a profile no longer used or required.

- **Add** – Click the **Add** button to add a profile manually. You will need important information such as SSID, encryption settings, and network type.

## New Profile Dialog Box

Use this dialog box to create a new profile.

Profile Name	
Network Type	Infrastructure Mode
Network Name(SSID)	
Channel	1
Encryption Type	No Encryption
Encryption Key	1

- **Profile Name** – Enter the name you want to associate with the new profile.
- **Network Type** – Select the network mode you want to associate with the new profile. Select **Infrastructure** if your network consists of both wired and wireless devices that communicate through a central device, such as an access point. Select **Ad-hoc** if your network consists of only wireless devices that communicate with each other directly.
- **Network Name SSID** – Enter the **SSID** of your network. The SSID is the unique network name that functions

must use identical SSIDs to successfully associate with other devices on the network. “myssid” is an example of a valid SSID.

- **Channel** – Displays the channel associated with the new profile. The channel indicates what range of frequencies the radio waves emitted by the wireless device are occupying. Devices that meet 802.11b and 802.11g standards can use channels 1-11 within the 2.4 GHz spectrum.
- **Encryption Type** – Displays the types of encryptions available. Once selected, you will be required to enter the **Encryption Key Number** and the **Encryption Key** as well. For the Encryption Key Number, it is recommended to use 1 unless specified to by an administrator.

## Advanced Profile Options

- **Network Tab** – Displays the network information tab. A static IP can be specified for this wireless profile here. It is not recommended to change any of these settings unless specified by an administrator.
- **Browser Tab** – Displays settings to change your browser preferences for this wireless profile. A specific home page can be specified when connected to this wireless profile as can specific proxy server addresses.
- **Printers Tab** – Displays the printers tab. A specific default printer can be associated to this profile. Thus, when connected to this profile, a specific printer will be used as the default printer.
- **Network Tab** – Displays the network information tab. A static IP can be specified for this wireless profile here. It is not recommended to change any of these settings unless specified by an administrator.
- **OK** – Click the **OK** button to save your specifications and return to the Profiles page.



- **AOSS Icon** – The AOSS icon is used to launch AOSS client requests for AOSS communication. Inside your wireless client's box, an AOSS supplement guide is present. This guide leads to step-by-step instructions on



- The WLI-CB-G54HP comes with an external antenna connector. Buffalo Technology sells numerous external antennas that are compatible with this card. The connector type is called an MC-Card Connector. Adding an external antenna can further increase the power and range of this device. Please see the Buffalo Technology Web Page (<http://www.buffalotech.com>) to compare antennas available for your adapter.



## Wireless LAN Interface

Standards Compliance	IEEE 802.11g
Communication Protocol	Direct Sequence Spread Spectrum (DS-SS), Half Duplex
Frequency Range	2.412-2.462Mhz
Transmission Rates	802.11g: 1, 2, 5.5, 11, 18, 24, 36, 48, 54 125* Mode: 13, 20, 27, 40, 54, 80, 110, 125
Access Mode	Infrastructure mode, Ad-Hoc
Security	WEP 128/64 bit, 802.1x, WPA-TKIP/AES

## Others

Interface	CardBus
Environmental Operation	0-55°C, 20-80% (non-condensing)

## Troubleshooting / FAQ

Use this section to locate answers to frequently asked questions.

### ***What should I do if I already have a version of Client Manager on my PC?***

Update your Client Manager to the version on the CD. If you do not update your Client Manager, there could be a loss of functionality, as some versions of Client Manager will not work properly with the G54 Wireless Notebook Adapter. Before updating Client Manager, you must uninstall all previous versions of Client Manager. To update your Client Manager, load the Air Navigator CD and select Install Client Manager.

### ***Why won't all my network clients work?***

Some operating systems support only a limited number of network clients.

**Windows 98/Me:** These operating systems support only four network clients. If you install more than four network clients, only the first four clients you install will work.

### ***Will Client Manager support all operating systems?***

Client Manager and the Wireless Notebook Adapter currently support only Windows 98/ME/2000/XP. They do not currently support Windows NT, Mac OS, or Linux. For more information, refer to the Mac OS and Linux page in the Troubleshooting section of this help file.

### *Where can I attach my external antenna?*

Insert your external antenna into the antenna connector, located on the back of the G54 Wireless Notebook Adapter.

### *Why won't Client Manager function properly?*

**Windows XP** – The Wireless Zero Configuration Service conflicts with Client Manager. Select **Start»Control Panel»Administrative Tools»Services** to open the Services window. Select **Disabled** in the Startup Type field of Wireless Zero Configuration Service to disable the Wireless Zero Configuration Service.

### *I have more than one Air Navigator CD. Do I need more than one CD?*

No. You receive the same Air Navigator CD with each Buffalo Technology access point and wireless adapter. The CDs are identical and you only need one copy.

**10BaseT or 100BaseTx:** 802.3 based Ethernet network that uses UTP (Unshielded twisted pair) cable and a star topology. 10 is 10 Mbps and 100 is 100 Mbps.

**802.1x:** The standard for wireless LAN authentication used between an AP and a client. 802.1x with EAP will initiate key handling.

**Ad-Hoc Network:** The wireless network based on a peer-to-peer communications session. Also referred to as AdHoc.

**Bandwidth:** The transmission capacity of a computer or a communication channel, stated in Megabits per second (Mbps).

**BSS (Basic Service Set):** An 802.11 networking framework that includes an Access Point.

**Bus Mastering:** A system in which the specified Input/Output device (e.g. NIC Card) can perform tasks without the intervention of the CPU.

**Client:** A PC or workstation on a network.

**Cross-Over Wiring:** A UTP cable that has its transmit and receive pair crossed to allow communications between two devices.

**DCE (Data Communications Equipment):** Hardware used for communication with a Data Terminal Equipment (DTE) device.

**Default Gateway:** The IP Address of either the nearest router or server for the LAN.

**Default Parameter:** Parameter set by the manufacturer.

**Destination Address:** The address portion of a packet that identifies the intended recipient station.

**DHCP (Dynamic Host Configuration Protocol):** Based on BOOTP, it uses a pool of IP addresses, which it assigns to each device connected to it, and retrieves the address when the device becomes dormant for a period of time.

**DNS (Domain Name System):** System used

to map readable machine names into IP addresses

**Driver:** Software that interfaces a computer with a specific hardware device.

**DSSS (Direct Sequence Spread Spectrum):** Method of spreading a wireless signal into wide frequency bandwidth.

**DTE (Data Terminal Equipment):** Device that connects 10BaseT or 100BaseTx: 802.3 based Ethernet network that uses UTP (Unshielded twisted pair) cable and a star topology. 10 is 10 Mbps and 100 is 100 Mbps.

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**Driver:** Software that interfaces a computer with a specific hardware device.

**DSSS (Direct Sequence Spread Spectrum):** Method of spreading a wireless signal into wide frequency bandwidth.

**DTE (Data Terminal Equipment):** Device that controls data flowing to and from a computer.

**Dynamic IP Address:** An IP address that is automatically assigned to a client station

in a TCP/IP network, typically by a DHCP server.

**ESS (Extended Service Set):** A set of two or more BSSs that form a single sub-network. ESS-ID is user identification used in the ESS LAN configuration.

**Ethernet:** The most widely used architecture for Local Area Networks (LANs). It is a shared-media network architecture. The IEEE 802.3 standard details its functionality.

**Ethernet cable:** A wire similar to telephone cable that carries signals between Ethernet devices.

**File and Print Sharing:** A Microsoft application that allows computers on a network to share files and printers.

**Firmware:** Programming inserted into programmable read-only memory, thus becoming a permanent part of a computing device.

**Frame:** A fixed block of data, transmitted as a single entity. Also referred to as packet.

**Full-Duplex:** To transmit on the same channel in both directions simultaneously.

**Gbps (Giga Bits per second):** One billion bits per second.

**Half-duplex:** To transmit on the same channel in both directions, one direction at a time.

**Hub:** A device which allows connection of computers and other devices to form a LAN.

**IEEE (Institute of Electrical and Electronics Engineers):** The professional organization which promotes development of electronics technology.

**IP (Internet Protocol) Address:** A unique 32-binary-digit number that identifies each sender or receiver of information sent in packets.

**Infrastructure:** A wireless network or other small network in which the wireless network devices are made a part of the network through the Access Point.

**ISP (Internet Service Provider):** A company that provides access to the Internet and other related services.

**IV (Initialization Vector):** The header section of a message packet.

**LAN (Local Area Network):** A group of computers and peripheral devices connected to share resources.

**LED (Light Emitting Diode):** The lights on a hardware device representing the activity through the ports.

**MAC (Medium Access Control) Address:** A unique number that distinguishes network cards.

**Mbps (Mega Bits Per Second):** A measurement of millions of bits per second.

**MDI/X (Media Dependent Interface/Crossover):** Port on a network hub or switch that crosses the incoming transmit lines with the outgoing receive lines.

**MHz (MegaHertz):** One million cycles per second.

**MIB II:** A database containing performance information and statistics on each device in a network.

**MIPS (Million Instructions Per Second):** A measurement of processing speed.

**NAT (Network Address Translation):** An internet standard that enables a LAN to use one set of IP addresses for internal traffic and a second set for external traffic.

**NIC (Network Interface Card):** An expansion card connected to a computer so the computer can be connected to a network.

**Packet:** A block of data that is transferred as a single unit, also called a frame or a block.

**Packet Filtering:** Discarding unwanted network traffic based on its originating address or its type.

**PCI (Peripheral Component Interconnect):** A bus that is connected directly to the CPU.

**PCMCIA (Personal Computer Memory Card International Association) Card:** Removable module that adds features to a portable computer.

**Ping (Packet Internet Groper):** An Internet utility used to determine whether a particular IP address is online.

**Plug and Play:** Hardware that, once installed (“plugged in”), can immediately be used (“played”), as opposed to hardware that requires manual configuration.

**PoE (Power over Ethernet):** A mechanism to send DC power to a device using a CAT5 Ethernet cable.



**PPPoE (Point-to-Point Protocol over Ethernet):** A specification for connecting users on an Ethernet line to the Internet through a common broadband medium.

**Protocol:** A standard way of exchanging information between computers.

**RADIUS (Remote Authentication Dial In User Service):** A server that issues authentication key to clients.

**RAM (Random Access Memory):** Non-permanent memory.

**Repeater Hub:** A device that collects, strengthens and transmits information to all connected devices, allowing the network to be extended to accommodate additional workstations.

**RC4:** The encryption algorithm that is used in WEP.

**RJ-45 connector:** An 8-pin connector used between a twisted pair cable and a data

transmission device.

**ROM (Read Only Memory):** Permanent memory.

**Router:** Device that can connect individual LANs and remote sites to a server.

**Roaming:** The ability to use a wireless device while moving from one access point to another without losing the connection.

**Script:** A macro or batch file containing instructions and used by a computer to perform a task.

**Server:** Any computer that makes files or peripheral devices available to users of the network and has a resident Network OS.

**SMTP (Simple Mail Transfer Protocol):** The protocol used to define and deliver electronic mail (E-mail) from one location to another.

**SNMP (Simple Network Management Protocol):** An application layer protocol that outlines the formal structure for communi-

cation among network devices.

**Static IP Address:** A permanent IP address is assigned to a node in a TCP/IP network. Also known as global IP.

**STP (Shielded Twisted Pair):** Twisted Pair cable wrapped in a metal sheath to provide extra protection from external interfering signals.

**Subnet Mask:** An eight-byte address divided into 4 parts separated by periods.

**TCP/IP (Transmission Control Protocol/Internet Protocol):** Protocol used by computers when communicating across the Internet or Intranet.

**TFTP (Trivial File Transfer Protocol):** Simple form of FTP (File Transfer Protocol), which Uses UDP (User Datagram Protocol), rather than TCP/IP for data transport and provides no security features.

**TKIP (Temporal Key Integrity Protocol):** An

encryption method replacing WEP. TKIP uses random IV and frequent key exchanges.

**Topology:** The shape of a LAN (Local Area Network) or other communications system.

**Twisted Pair:** Cable that comprises 2 or more pair of insulated wires twisted together.

**UDP (User Datagram Protocol):** A communication method (protocol) that offers a limited amount of service when messages are exchanged between computers in a network. UDP is used as an alternative to TCP/IP.

**Uplink:** Link to the next level up in a communication hierarchy.

**UTP (Unshielded Twisted Pair) cable:** Two or more unshielded wires twisted together to form a cable.

**WAN (Wide Area Network):** A networking

## 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 (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 the 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/television technician for help.

FCC Caution: To assure continued compliance, users of this device should use only shielded interface cables when connecting to computer or peripheral devices. Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

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.

systems operating in a wireless geographical area.

**WEP (Wired Equivalent Privacy):** A security

algorithm designed to provide reasonable protection against unauthorized access to data transmitted over a network.

**Web Browser:** A software program that allows viewing of web pages.

**Wi-Fi (Wireless Fidelity):** An organization which sets standards and assures interoperability of wireless LAN devices.

**Wire Speed:** The maximum speed at which data packets can be transferred using Ethernet and Fast Ethernet standard specifications.

**WLAN (Wireless LAN):** A LAN topology using wireless devices and only shielded interface cables.

**VPN (Virtual Private Network):** A security method to connect remote LAN users to a corporate LAN system.

## **IMPORTANT NOTE:**

### **FCC RF Radiation Exposure Statement:**

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

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

### **R&TTE Compliance Statement**

This equipment complies with all the requirements of the DIRECTIVE 1999/5/EC OF THE EUROPEAN PARLIAMENT AND THE COUNCIL of 9 March 1999 on radio equipment and telecommunication terminal Equipment and the mutual recognition of their conformity (R&TTE). The R&TTE Directive repeals and replaces in the directive 98/13/EEC (Telecommunications Terminal Equipment and Satellite Earth Station Equipment) As of April 8, 2000.

### **Safety**

This equipment is designed with the utmost care for the safety of those who install and use it. However, special attention must be paid to the dangers of electric shock and static

electricity when working with electrical equipment. All guidelines of this manual and of the computer manufacturer must therefore be allowed at all times to ensure the safe use of the equipment.

## **EU Countries intended for use**

The ETSI version of this device is intended for home and office use in Austria, Belgium, Denmark, Finland, France (with Frequency channel restrictions), Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Norway, The Netherlands, Portugal, Spain, Sweden, Switzerland and United Kingdom.

The ETSI version of this device is also authorized for use in EFTA member states Iceland, Liechtenstein, Norway and Switzerland.

## **EU Countries Not intended for use**

None.

## **Potential restrictive use**

France: Only channels 10,11,12, and 13.

Buffalo Technology (USA), Inc. products comes with a two-year limited warranty from the date of purchase. Buffalo Technology (USA), Inc. warrants to the original purchaser the product; good operating condition for the warranty period. This warranty does not include non-Buffalo Technology (USA), Inc. installed components. If the Buffalo product malfunctions during the warranty period, Buffalo Technology (USA) Inc. will, replace the unit, provided the unit has not been subjected to misuse, abuse, or non-Buffalo Technology (USA), Inc. authorized alteration, modifications or repair.

All expressed and implied warranties for the Buffalo Technology (USA) Inc. product line including, but not limited to, the warranties of merchantability and fitness of a particular purpose are limited in duration to the above period.

Under no circumstances shall Buffalo Technology (USA), Inc. be liable in any way to the user for damages, including any lost profits, lost savings or other incidental or consequential damages arising out of the use of, or inability to use the Buffalo products.

In no event shall Buffalo Technology (USA), Inc. liability exceed the price paid for the product from direct, indirect, special, incidental, or consequential damages resulting from the use of the product, its accompanying software, or its documentation. Buffalo Technology (USA), Inc. does not offer refunds for any product.

Buffalo Technology offers toll-free technical support 24 hours a day, 7 days a week for this product. Customers in the United States and Canada can obtain technical support using the following information:

Web: [www.buffalotech.com](http://www.buffalotech.com)  
E-mail: [info@buffalotech.com](mailto:info@buffalotech.com)  
Telephone: **1(866)-752-6210** (USA & Canada only)

## **FCC Warning**

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.

## **GPL Statement**

This product uses GPL/LGPL software. Please see the GNU LICENSE document on the LinkNavigator CD-ROM for more information concerning the terms of the license. To obtain a copy of our open source software, please send a message to [GPL@buffalotech.com](mailto:GPL@buffalotech.com) to inquire about obtaining a package.