



TravelNet Internet Only Cellular Router Installation Guide

ATTENTION INSTALLER

Parts List:

- TravelNet Cellular Router (TN-2033, TN-2055)
- 110 volt adapter with green connector
- Edimax BR-6204WG WiFi Preconfigured Router
- 110 volt adapter with plug connector
- 3 foot Ethernet Cable
- (2)External Antenna (white)
- (2)External Antenna mount with 14' cable
- (2)Stainless Antenna Mounts
- Cable Entry Cover
- Aluminum Ground Plane (7 x 7)
- Customer Package (clear envelope)
 - o 7 foot Red Ethernet Cable
 - o (2)Black SMA Antenna
 - o TravelNet Quick Start,
 - o TravelNet User CD
 - User Manual
 - Troubleshooting Guide

Other items not included:

- Sealant (Consult your vehicle manufacturer for the best sealant for your roof material.)

TravelNet's Cellular Router System is Preconfigured And Ready to Install with these Easy Steps

Installation Instructions:

1. Install the TravelNet Router and Edimax Router equipment in a convenient place such as upper cabinet (Velcro works well on the base of the each unit). Mount the unit so that the **diagnostic lights** can be viewed without moving the TravelNet Router and the Edimax Wireless Router.

2. Locate the 2 antennas on the roof away from other obstructions
Also, you will need sealant as recommended by your coach manufacturer, stainless screws (4) to anchor the aluminum ground plane to roof, cable clips to anchor cable, cable entry cover plate.

Warning – You must connect antennas to the SMA style antenna connectors on the TravelNet Cell Router before turning it on. Failure to do this could result in erratic start up behavior and could possibly damage the unit.



Figure 1

Position the antennas near the cable entry point. Here the TravelNet unit was located in the front overhead (Figure 1) with the antennas mounted close by on the roof.



Figure 2

Note that the antenna mounts are anchored to the 7" x 7" aluminum ground plane and that everything is well sealed.

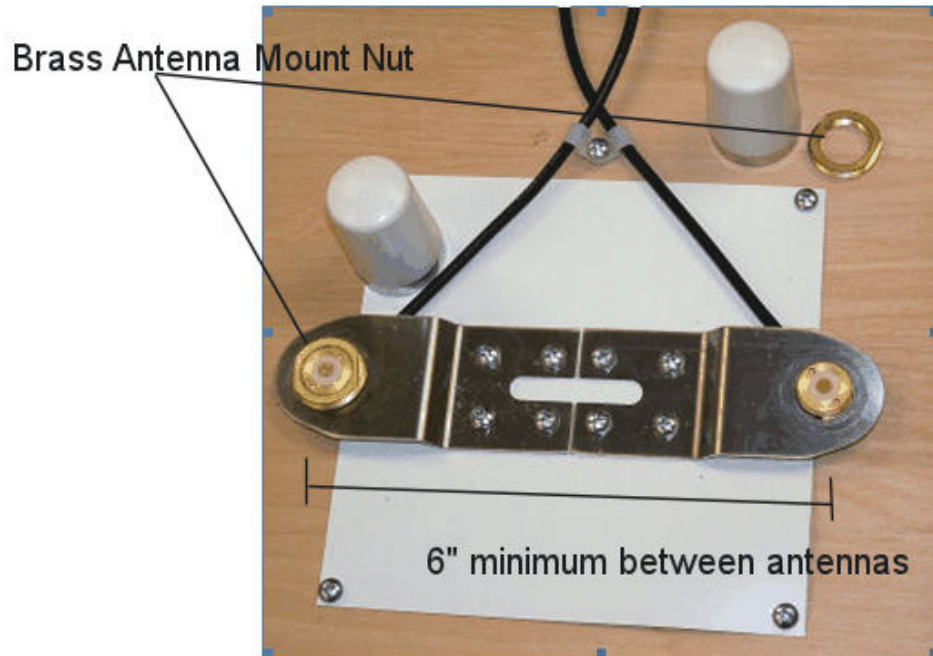


Figure 3

3. Insert the small end of the cable through the $\frac{3}{4}$ " diameter hole in the stainless antenna mount and feed the cable through. Next screw the brass antenna mount nut to the antenna mount as shown above, with the O-ring down, and attach the Antennas. Locate the antenna mounts as shown, and attach the stainless Antenna mounts securely to the ground plane and coach roof as shown. Secure the antenna cable to the roof as shown.

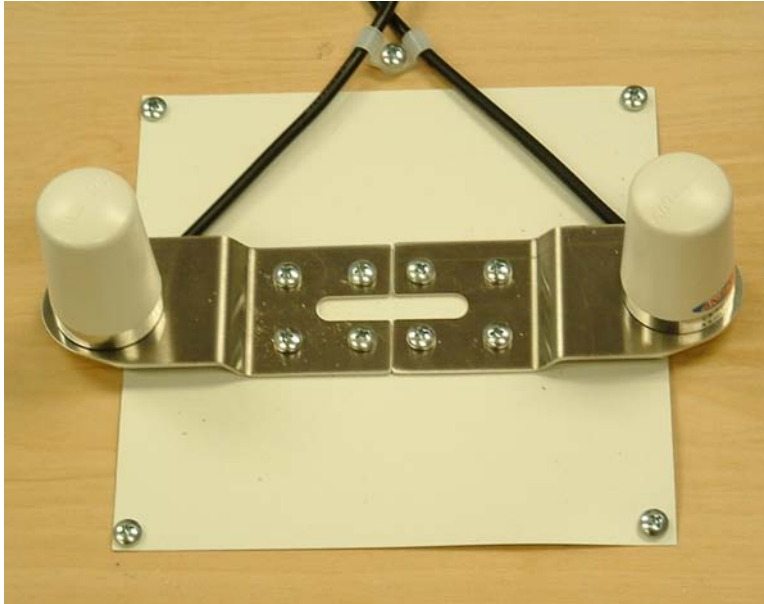


Figure 4

4. Route the 2 antenna cables to the cable entry hole in the coach roof. Securely attach the cable entry cover over the cable entry point on the coach roof using screws and caulk (Figure 6) Antenna cables should be directed to the TravelNet Router.

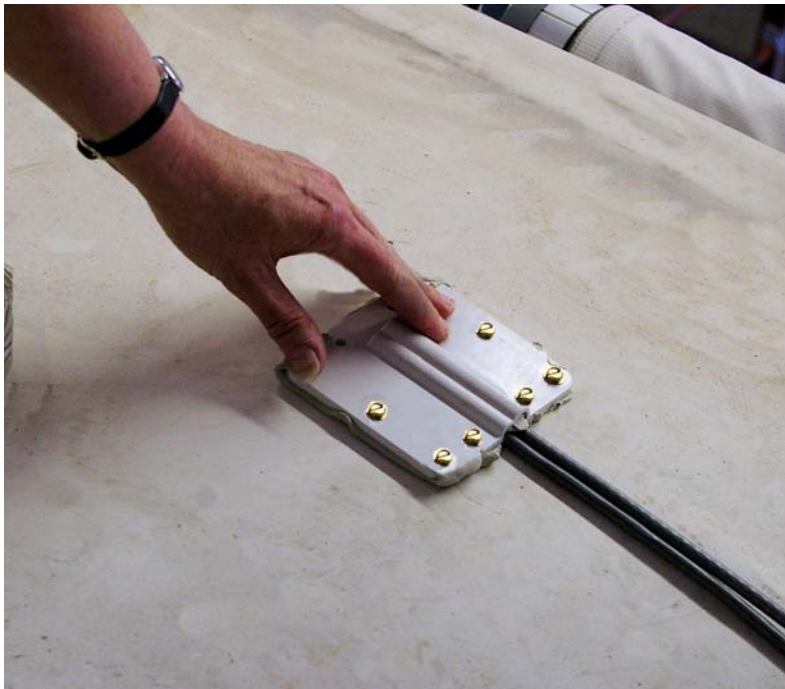


Figure 5

5. Attach the 3 foot Ethernet cable to the TravelNet router's Ethernet port and the Edimax wireless router. Note: there are 5 ports on the Edimax Wireless router, use the WAN port (Figure 19), not the 4 LAN ports.



Figure 6

6. Carefully attach the antenna cables to the SMA Antenna Mounts on the TravelNet router. Caution should be taken to not over tighten the SMA cable connectors.

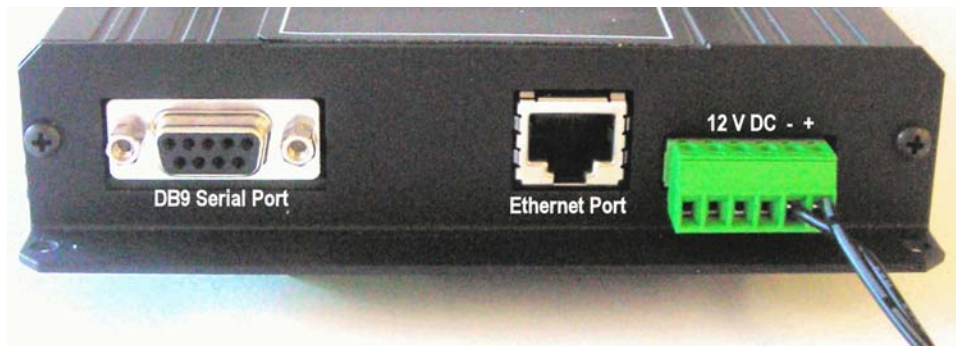


Figure 7

7. Connect power supplies for both devices to AC source or 12VDC source. When a 12 VDC source, order the appropriate pigtail accessories and please save the 12 volt power supply for the coach owner. Note that if using RV's DC power, the power inputs are polarity sensitive. NOTE: The lead with the white stripe is +12 VDC.



Figure 8

8. Check table below for LED status.

Light Status	LINK	SVC	LAN
Off	No Connection (IP address)	No Power	No Connection
On	Green-- 1XRTT Connection	Yellow Blinking-- No Signal (RSSI)	Red-- Connected to LAN
On	Red— EV-DO Connection	Yellow Solid— RSSI < -88	
On		Green Solid -- RSSI > -88	

9. If you are activating the TravelNet Cellular Router, precede to the activation instructions for the correct TravelNet model. See below: Sprint or Verizon

10. If the unit has been previously activated, now start your computer, connect to the wireless network, launch a browser window and open a website to test your internet connection. If this test is successful then your setup and the installation is complete.

If a problem arises check our troubleshooting guide in the User Manual CD or call our support line.

11. Attention Installer: Place consumer information package in cabinet or drawer for your customer.

Activation Instructions for model TN-2055 and TN-2033:

(Sprint TN-2033 users skip to page 9)

Verizon TN-2055 Activation:

1. Connect an Ethernet Cable directly to the TravelNet Cellular Router and the Laptop.
2. Enable the Local Area Network, when connected, go to the next step.
3. Open a web browser (Internet Explorer, Firefox, Mozilla, Safari)
4. Enter the IP address: 192.168.1.10



Figure 9



Internet Only

User Name:	<input type="text" value="ctek"/>
Password:	<input type="password" value="••••"/>

Figure 10

5. Enter the user name 'ctek' and password 'ctek'
6. Click on the [Login](#) button.
7. Click on the [Activation](#) button.

INTERFACES	STATUS	SERVICES	OPTIONS
Wireless	Wireless	Password	Applications
Ethernet	Ethernet	Routing	Tools
RS-232		TCP PAD	
Relay Input		UDP PAD	
Relay Output		Admin Screens	
		Activation	

[Restart](#)

Winegard Website

Figure 11

8. Click on the [Over The Air Activation](#) button.
9. If [Network Stability is OK For Activation](#) (if Not Ok for Activation, wait 3 minutes.) If Not OK for Activation for 15 additional minutes, contact Support.
10. Click the [Activate](#) button.
11. Wait 3 minutes, then check status. If still in progress, wait an additional 3 minutes. If still in progress or 'failed', contact support.
12. When 'Activated' click [Back](#) button
13. Click the [Home](#) button.
14. Go to Interfaces-Wireless and [Wireless Connection:](#) and Select 'Enable' (refer to [figure 11](#))

WINEGARD
TravelNet

Wireless Interface Configuration

Network Select:

Change to Enable

User Name:	<input type="text"/>	Wireless Connection:	<input type="text" value="Disabled"/>
Password:	<input type="text"/>	Inactivity Timeout:	<input type="text" value="Never"/>
<input checked="" type="radio"/> Use network provided dynamic IP address		<input type="radio"/> Use the following static IP address: <input type="text"/>	
Enable LCP echo packets: <input type="checkbox"/>			

Figure 12

15. At the bottom of the page, click the [Update](#) button.
16. Click on the [Home](#) button.
17. Click on the [Restart](#) button and confirm by clicking the [Restart](#) button again, and wait 30 seconds.
18. Click on the [Home](#) button.

- Click on the Status-[Wireless](#) button, and verify that there is a Current IP address. This may take several minutes depending on the carrier network.

WINEGARD[®] TravelNet Wireless Interface Status

ESN - Dec:	09608911949	ESN - Hex:	6087FC4D
System ID:	20	Phone Number (MDN):	0000004685
Network Status:	In Service	Signal Level (RSSI):	-89dBm
Service Type:	1xRTT/EvDO Rev A	Current IP Address:	6087FC4D
Band:	Cellular	Call Status:	Idle
Roam Status:	Not Roaming	Temp Alert:	Temp OK

Home Refresh Details

Figure 13

- Click on the [Home](#) button.
- Click on the [Restart](#) button and confirm by clicking the [Restart](#) button again, and wait 30 seconds.
- Do a restart of all network devices in order, first the TravelNet Router, 2nd the Edimax Router, and finally laptop.

Sprint TN-2033 Activation:

- Connect an Ethernet Cable directly to the TravelNet Cellular Router and the Laptop.
- Enable the Local Area Network, when connected, go to the next step.
- Open a web browser (Internet Explorer, Firefox, Chrome, Mozilla)
- Enter the IP address: 192.168.1.10



Figure 14

WINEGARD[®] TravelNet Internet Only

User Name:	ctek
Password:	••••

Log In

Figure 15

5. Enter the user name 'ctek' and password 'ctek'
6. Click the [Log In](#) button.
7. Click on the [Activation](#) button.
8. Click on the [Over the Air Activation](#) button


Wireless Activation Services

Local PRL Update	<input type="button" value="Select"/>
Over The Air PRL Update	<input type="button" value="Select"/>
Over The Air Activation	<input type="button" value="Select"/>
Manual Configuration	<input type="button" value="Select"/>

Figure 16

9. If Network Stability is [Ok for Activation](#) then go to step 9, if Not Ok, then wait 3 minutes. If still Not Ok, call support.


Over The Air Activation

Activation Status: Not Activated	Network Stability: <input type="button" value="OK For Activation"/>
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Figure 17

10. Click on the [Activate](#) button.
11. Wait 3 minutes, then click the [Status](#) button. If still **in progress**, then wait an additional 3 minutes. If still in progress or 'failed', contact support.
12. When status changes to 'Activated' click the [Back](#) button.
13. Click on the [Home](#) button.
14. Click on the Interfaces-[Wireless](#) button and change the Wireless connection type to 'Enable' (refer to fig. 17)



Wireless Interface Configuration

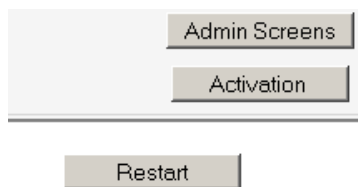
Network Select: 0 - Auto

Change to Enable

User Name:	<input type="text"/>	Wireless Connection:	Disabled
Password:	<input type="text"/>	Inactivity Timeout:	Never
<input checked="" type="radio"/> Use network provided dynamic IP address		<input type="radio"/> Use the following static IP address: <input type="text"/>	
Enable LCP echo packets: <input type="checkbox"/>			

Figure 18

15. At the bottom of the page, click the [Update](#) button.
16. Ok, then click the [Home](#) button.
17. Click on the [Restart](#) button and confirm by clicking the [Restart](#) button again, and wait 30 seconds.



[Winegard Website](#)

Figure 19

18. Click on the [Home](#) button.
19. Click the Status-[Wireless](#) button, verify that there is a Current IP address.
20. Click on the [Home](#) button.
21. Click on the [Restart](#) button and confirm by clicking the [Restart](#) button again, and wait 30 seconds.
22. Do a hard restart of all network devices in order, first the Cellular Router, 2nd the WiFi Router, and finally laptop.

Setting Up WiFi Security on the Edimax BR-6204WG

Refer to the Edimax users guide CD for additional information.

Once you have an internet connection and an unsecure WiFi connection established proceed to setup WiFi security for your Edimax router.

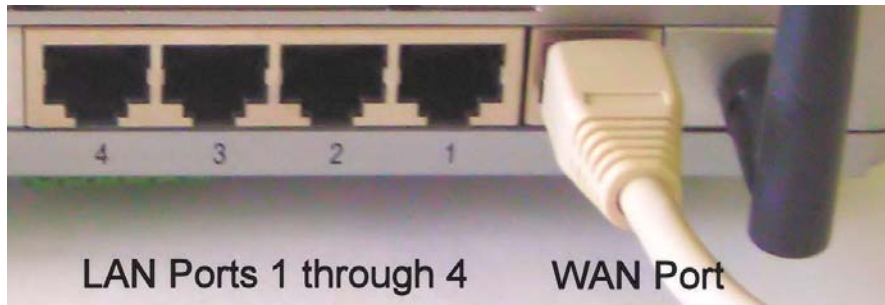


Figure 20

WEP Key Setup

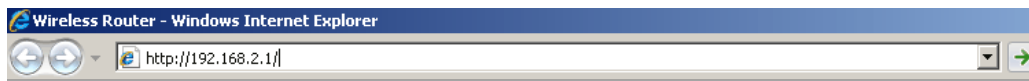


Figure 21

1. Log into the Edimax WiFi Router at 192.168.2.1
2. Enter the Username 'admin' and Password '1234'
3. Go to WIRELESS SETTINGS > SECURITY
4. Encryption type: select **WEP**
5. Key Length: **64-bit**
6. Key Format: **Hex (10 Characters)**
7. Default Tx Key: **Key 1.**
8. Encryption Key 1: Enter your 10 Characters Key- see chart below
9. **Do not place an "x" in the selection box labeled "Enable 802.1x Authentication"** for normal installations. If there are any questions call TravelNet Technical Support.

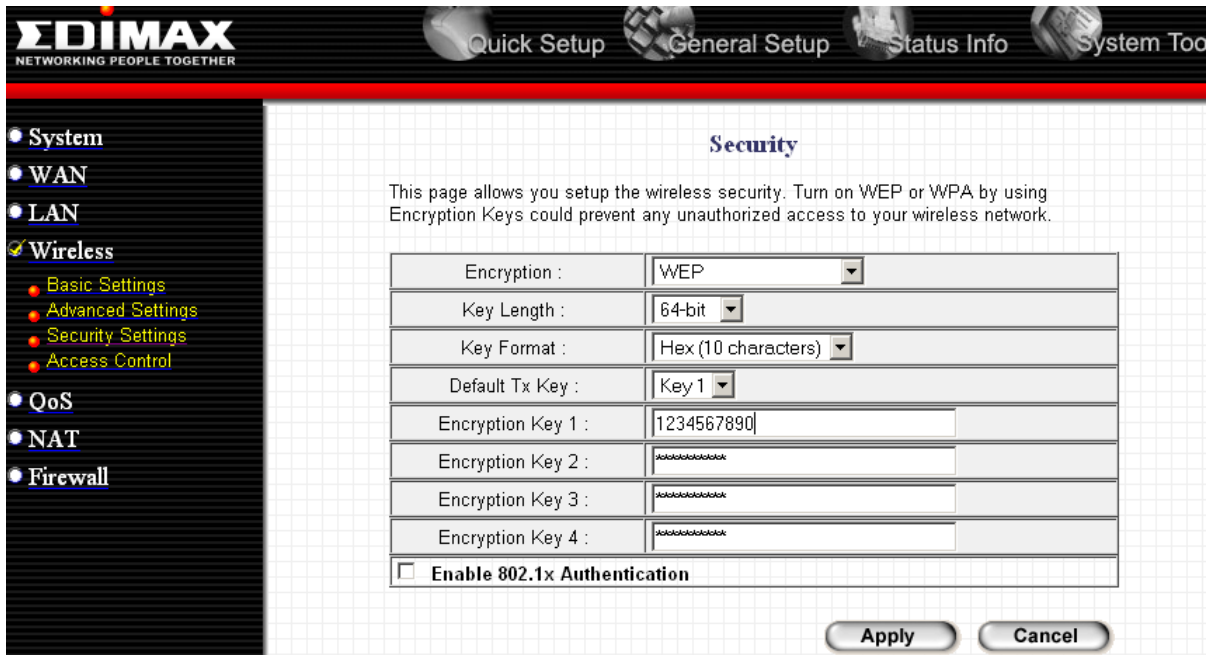


Figure 22

WEP Key Setup

Parameters	Default	Description
Key Length	64-bit	You can select the WEP key length for encryption, 64-bit or 128-bit. Larger WEP key length requires 26 hexadecimal characters
Key Format		Use hexadecimal digits (in the "A-F", "a-f" and "0-9" range) to be the WEP Key. Examples: Hexadecimal Digits: 12345abcde or abcdef0123

10. Write key on piece of paper or on Edimax manual and keep in a safe place with other important documentation.
11. Click on the Apply Button and wait for the System to automatically Restart. Click OK button and security setup is complete.
12. Call TravelNet Technical Support (877) 475-7771 if there are questions concerning Apple Computers or if you prefer to use other encryption methods.

To connect your XP computer to your wireless network

Configuring the Windows XP Wireless Clients (With WEP)

Configuration of the Windows XP wireless clients for WEP key authentication depends on whether you are using Windows XP with SP2 or Windows XP with SP1 and whether the wireless network adapter driver supports Wireless Auto Configuration.


Wireless Network Adapter Driver Supports Wireless Auto Configuration with Windows XP with SP2

Use the following procedure to configure Windows XP with SP2 for your infrastructure mode wireless network when the wireless network adapter supports Wireless Auto Configuration:


1. When the computer is within range of the wireless router or Access Point (AP) operating in your home or small business, Windows XP should detect it and prompt you with a **Wireless networks detected** message in the notification area of your taskbar.
2. Click the notification message. If you are not notified, right-click the wireless network adapter in Network Connections, then click **View Available Wireless Networks**. In either case, you should see a **Choose a wireless network** dialog box with the name of your wireless network. (If the "TravelNet xxxx" wireless network is not displayed, it may be necessary to reset the unit by removing its power plug for 10 seconds, then reinsert the power plug and wait 45 to 60 seconds). Then select the "View Available Wireless Networks" again.
3. Double-click your wireless network name. Windows XP will attempt to connect to your wireless network.
4. Because Windows XP has not been configured with the WEP key for your wireless network, the connection attempt will fail and Windows XP will prompt you with a **Wireless Network Connection** dialog box. Type the WEP key in **Network key** and **Confirm network key**, and then click **Connect**.
5. If the status message for your wireless network in the **Choose a wireless network** dialog box is **Connected**, you are done. If the status message for your wireless network in the **Choose a wireless network** dialog box is **Authentication did not succeed**, click **Change the order of preferred networks** in the list of **Related tasks**. From the **Wireless Networks** tab of properties of your wireless network adapter, click the name of your wireless network in **Preferred networks**, and then click **Properties**.
6. In **Network Authentication**, click **WEP**.
7. In **Network key**, type the WEP key as configured on the wireless Access Point (AP). In **Confirm network key**, retype the WEP key.
8. Click **OK** to save changes to the wireless network.
9. Click **OK** to save changes to the wireless network adapt

To connect your Windows Vista computer to your wireless network

View and connect to available wireless networks

 Applies to all editions of Windows Vista.

If you have a mobile PC, you can see a list of available wireless networks, and then connect to one of those networks, no matter where you are. The wireless networks appear only if your computer has a wireless network adapter installed and the adapter is turned on.

1. Open **Connect to a Network** by clicking the **Start** button , and then clicking **Connect to**.
2. In the **Show** list, click **Wireless**.

You'll see a list of the wireless networks currently available. If you do not see a network listing similar to this example: TravelNet 1234, it may be necessary to reset power on the WiFi router, wait 45 to 60 seconds and refresh the "View Available Wireless Networks".


You'll see a list of the wireless networks currently available.

3. Click a network, and then click **Connect**.

If you don't see the network you want to connect to, click **Set up a connection or network**. A list of options will appear that includes manually searching for and connecting to a network, as well as creating a new network connection.

Some networks require a network security key or passphrase. To connect to one of those networks, ask the network administrator or the service provider for the key or passphrase.

Enter WEP encryption key in same manner as described on previous page for Windows XP

 Whenever possible, you should connect to security-enabled wireless networks. If you do connect to a network that is not secure, be aware that someone with the right tools can see everything that you do, including the websites you visit, the documents you work on, and the user names and passwords that you use.

After you're connected, you can close the **Wireless Network Connection** window. Now you're ready to browse the Web wirelessly. You can also create a wireless network in your home, RV or boat that connects your computers, printers, cameras, games, and other accessories for easy access and enjoyment.

QUESTIONS? CALL OUR SUPPORT LINE: 877-475-7771 or visit our
website FAQ at <http://www.winegard.com>

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Support: (877) 475-7771
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