

Intermec
Technologies Corporation

550 Second Street SE
Cedar Rapids, IA 52401
United States
tel 319.369 .3100
fax 319.369.3453
www.intermec com

## To Whom It May Concern:

Intermec Technologies Corporation acknowledges that the radio device approvals, referenced in the subject of this letter, based on the content of the CyberTAN manual for radio model WM600AF, are for mobile applications (ie., antenna clearance of at least 20 cm from any portion of the user's body).

Intermec Technologies Corporation will be responsible for subsequent applications, including submission of required SAR data, to the FCC and Industry Canada for approval to use the WM600-AF radio in portable devices (ie., where antenna clearance would be less than 20 cm from any portion of the user's body).

Sincerely


Stuart Adams


Intermec Technologies Corporation 550 Second Street SE Cedar Rapids, IA 52401 USA


## Table of Contents

Chapter 1: Introduction 1
Welcome 1
What's in this Guide? 1
Chapter 2: Getting to Know the Wireless-G CompactFlash Card 3
The Front Panel 3
Chapter 3: Setting Up the PDA 5
Overview 5
Setup Wizard 5
Chapter 4: Installing the CompactFlash Card 8
Overview 8
Installing the Card 8
Chapter 5: Connecting to a Wireless Network 10
Overview 10
Connect to a Wireless Network 10
Chapter 6: Configuring the Wireless-G CompactFlash Card with the Wireless Network Monitor16
Overview 16
Wireless Network Monitor 16

## List of Figures

Figure 2-1: Front Panel 3
Figure 3-1: PDA to PC Installation 5
Figure 3-2: Welcome 5
Figure 3-3: License Agreement 5
Figure 3-4: Click Yes 6
Figure 3-5: Application Being Installed 6
Figure 3-6: Mobile Device 7
Figure 3-7: Congratulations 7
Figure 4-1: Successful Installation 8
Figure 4-2: CompactFlash Installation into PDA 8
Figure 4-3: Start Screen 9
Figure 4-4: Wireless Network Monitor Icon 9
Figure 5-1: Wireless Network Monitor Icon 10
Figure 5-2: Status Screen 10
Figure 5-3: Configure Wireless Networks 11
Figure 5-4: Settings 11
Figure 5-5: Configure Network Authentication 12
Figure 5-6: PDA Connected 12
Figure 5-7: Configure Wireless Networks 13
Figure 5-8: Add/Edit Configuration 13
Figure 5-9: SSID 14
Figure 5-10: Wireless Security (WEP) 14
Figure 5-11: Power Management 15
Figure 5-12: Select Profile 15
Figure 6-1: Wireless Network Monitor Icon 16
Figure 6-2: Status Screen 16
Figure 6-3: Version Information Screen 17
Figure 6-4: Wireless Advanced Screen 17
Figure 6-5: Netw ork Troubleshooting Screen ..... 18
Figure 6-6: More Information Screen ..... 18
Figure 6-7: Repair Screen ..... 18
Figure 6-8: Contact Screen ..... 19
Figure 6-9: Site Survey Screen ..... 19
Figure 6-10: Link Test Screen ..... 20

## FCC 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.
$\cdot-\cdot$ 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. This equipment should be installed and operated with minimum distance 20 cm between the radiator \& your body.
-This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
Intermec declared that WM600-AF is limited in $\mathrm{CH} 1 \sim 11$ by specified firmware controlled in USA.

## IC Statement

"Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device."
"To prevent radio interference to the licensed service, this device is intended to be operated indoors and away from windows to provide maximum shielding. Equipment (or its transmit antenna) that is installed outdoors is subject to licensing."

## Chapter 1: Introduction

## Welcome

Thank you for choosing the Wireless-G CompactFlash Card.
The Wireless-G CompactFlash Card installs directly into your Pocket PC using a CompactFlash Type II slot. The user-friendly software makes it a snap to set up, and you're ready to share data, printers, or high-speed Internet access over your existing wireless network at speeds up to 54Mbps. It's also compatible with Wireless-B (802.11b) wireless networks.

Use the Wireless CompactFlash Card to connect your PDA to wireless networks at the office, at home, or in any of the growing number of public wireless hotspot venues springing up in coffee shops, airport lounges, hotels and convention centers.

Use the instructions in this Guide to help you connect the CompactFlash Card, set it up, and configure it to communicate with your PDA and PC. These instructions should be all you need to get the most out of the CompactFlash Card.

## What's in this Guide?

This user guide covers the steps for setting up and using the Dual-Band Wireless A+G Notebook Adapter.

- Chapter 1: Introduction

This chapter describes the Adapter's applications and this User Guide.

- Chapter 2: Getting to Know the Wireless-G CompactFlash Card

This chapter describes the physical features of the Adapter.

- Chapter 3: Setting Up the PDA

This chapter instructs you on how to use the Card's Setup Wizard.

- Chapter 4: Installing the CompactFlash Card

This chapter shows you how to install CompactFlash Card into your PDA.

- Chapter 5: Connecting to a Wireless Network

This chapter shows you how to connect the CompactFlash Card to a wireless network.

## Chapter 2:Getting to Know the Wireless-G CompactFlash Card

## The Front Panel

The CompactFlash Card's LEDs, where information about network activity is displayed, are located on the front panel.

Power Green. The Power LED lights up when the CompactFlash Card is powered on.
Link Green. If the Link LED is flickering, the CompactFlash Card is actively sending or receiving data to or from one of the devices on the network.

With these, and many other, Intermec products, your networking options are limitless. Go to thevintebsief at wiW.. Interraec $m$ for more information about products that work with the CompactFlash Card.


Figure 2-1: Front Panel

## Wireless-G CompactFlash Card

## Chapter 3: Setting Up the PDA

## Overview

This Setup Wizard will take you through all the steps necessary to install the Card's software on your PC so it can communicate with the PDA. The role of this module is a mobile device. It should not operate within 20 cm human body.

Connect your PDA to your PC. Make sure you have the Microsoft ActiveSync software installed on your PC. Refer to your PDA's documentation for information on Microsoft ActiveSync software. The module is mainly for industrial devices


Figure 3-1: PDA to PC Installation

## Setup Wizard

1. Insert the Setup Wizard CD into your PC's CD-ROM drive.
2. The Setup Wizard's Welcome screen should appear on your monitor. (If it does not, the autorun is not functioning. Start the Setup Wizard manually by clicking the Start button, selecting Run, and typing d:\setup.exe (where "D" is your PC's CD-ROM drive)).

Click the Install button to continue this Setup Wizard. Clicking the User Guide button opened this Guide. To exit this Setup Wizard, click the Exit button.
3. The following screen displays the License Agreement. Read the agreement, then if you agree, click Next to continue.

Click Cancel to return to the previous screen.


Figure 3-3: License Agreement
4. When asked if you want to install the Intermec Wireless-G CompactFlash Card using the default application install directory, click Yes to continue.

Click Cancel or No to return to the previous screen


Figure 3-4: Click Yes
5. A screen will appear to show that the application is being installed. Do not cancel.

Figure 3-5: Application Being Installed
6. When asked to check your mobile device screen to see if additional steps are necessary to complete this installation, click OK.
7. The Congratulations screen will appear when the installation is complete. Click Exit to exit the Setup Wizard.


Figure 3-7: Congratulations

## Wireless-G CompactFlash Card

## Chapter 4: Installing the CompactFlash Card

## Overview

This chapter explains the steps to install the CompactFlash Card. Make sure that you have installed the Setup Wizard software before installing the Card.


IMPORTANT: Make sure that the Setup Wizard software is
installed before installing the Card.

## Installing the Card

1. After installing the Setup Wizard software, the Installation has completed successfully screen will appear on your PDA. Click OK.


Figure 4-1: Successful Installation
2. Disconnect the PDA from your PC.
3. Insert the Wireless CompactFlash Card into your PDA.


Figure 4-2: CompactFlash Installation into PDA
4. The Start screen in will appear for Pocket PC 2002 users. The default setting is Use server-assigned IP address. In most cases, you should keep the default setting. However, if you are using fixed IP addresses on your wireless network, then click the radio button next to Use specific IP address, and complete the IP address, Subnet mask, and Default gateway fields. Click the OK button to close the screen.


Figure 4-3: Start Screen

Figure 4-4: Wireless Network Monitor Icon

## Chapter 5: Connecting to a Wireless Network

## Overview

This chapter explains how to connect your PDA to a wireless network.

## Connect to a Wireless Network

1. On your PDA's desktop, click the Wireless Network Monitor icon at the bottom of the desktop.
2. The Status screen will appear. Click Configure Wireless Networks near the bottom of the screen.
3. Continue to the section for the Pocket PC operating system that your PDA uses.


To change your wireless settings, go to the Configure Wireless Networks

## Tools Advanced

Figure 5-2: Status Screen

## Pocket PC 2003

1. Select your wireless network from the list and click Connect.


Figure 5-3: Configure Wireless Networks


Figure 5-4: Settings
3. When the Configure Network Authentication screen appears, Check the box for Data encryption (WEP Enabled) and uncheck the box for The Key is provided for me automatically. Enter the Network key in the field and click OK.


Figure 5-5: Configure Network Authentication

| Settings |
| :--- |
| Configure Wireless Networks |
| Wireless networks: |
| Add New Settings....  <br> 8 linksys Connected <br>   |

Networks to access:
All AvailableAutomatically connect to non-preferred networks

Figure 5-6: PDA Connected

Connect to a Wireless Network

Pocket PC 2002

1. When the Configure Wireless Networks screen appears, select the Default profile and click Edit.
2. On the Add/Edit Configuration screen, select Access Point from the drop-down menu for Wireless Mode. Click Next.
+1 凡 12:11 ok
Configure Wireless Networks
Select Profile

| Default |  |  |
| :--- | :--- | :--- |
| Add | Edit | Delete |

## Use this page to:

- Click the 'Add' button to create a new profile.
- Select a profile and click the 'edit' button to change an existing profile.
- To connect to a wireless network using a specific profile, select the profile a speciric prof
then click OK.

Figure 5-7: Configure Wireless Networks


Add/Edit Configuration

| Profile Name: | Default |
| :--- | :--- |
| Wireless Mode: | Access Point |

## Use this page to:

- Enter a name for the profile.
- Select Infrastructure Mode when you want to communicate through an Access Point, otherwise select Peer-to-Peer mode.


Figure 5-8: Add/Edit Configuration
3. On the next screen, enter the name of your wireless network in the SSID field. You can click Scan to search for an existing wireless network name. Click Next.


## Use this page to:

- Identify the SSID (Network Name) of the wireless network to which you wish to connect.


Figure 5-9: SSID

Wif WCF54G + - - 12:13 ok
Add/Edit Configuration
. If your wireless network has Wireless Security-WEP, check Wireless Security (WEP). Then select Use Hexadecimal (0-9, A-F) and enter the WEP key in a Key field. Click Next.


Figure 5-10: Wireless Security (WEP)
5. Power Management is a power saving mode. To enable Power Management, select On. To disable Power Management, select Off. Then, click Finish.
6. You will return to the Select Profile screen. Click OK

## The installation of the Wireless-G CompactFlash Card is complete.

```
Power Management
```

```
Off
```

```
Off
```

On

## Use this page to:

- Enable Power Management for lower power consumption and wireless performance.


Figure 5-11: Power Management
WCF54G $+\frac{1}{4}$ 12:11 ok

Configure Wireless Networks
Select Profile

| Default |  |
| :--- | :--- |
| Add | Edit |
| Delete |  |

## Use this page to:

- Click the 'Add' button to create a new profile.
- Select a profile and click the 'edit'
button to change an existing profile.
- To connect to a wireless network using a specific profile, select the profile then click OK.

Figure 5-12: Select Profile

## Chapter 6: Configuring the Wireless-G CompactFlash Card with the Wireless Network Monitor

## Overview

the CompactFlash Card can be configured with the Wireless Network Monitor. This chapter explains how to configure the CompactFlash Card in this manner.

On your PDA's desktop, click the Wireless Network Monitor icon at the bottom of the screen.

## Wireless Network Monitor

The Status screen appears first. It displays the status of your wireless connection, the SSID, the strength of the connection, the base station, the channel, and the encryption.

Two menu options are available: Tools and Advanced. The options are described below.

## Tools

There are many tools available for your use. They are described below.
Exit. Select Exit to exit the Wireless Network Monitor.

Turn Radio. Select Turn Radio Off to disable the wireless connection. Select Turn Radio On to enable the wireless connection

Power Management. Power Management is a power saving mode. Select On to enable Power Management Select Off to disable Power Management.


To change your wireless settings, go to the Configure Wireless Networks

Figure 6-2: Status Screen

Version Information. Select Version Information to view information about the driver. Included is the Client, Driver Name, Driver Version, Primary Firmware Version, and Station Firmware Version.

Wireless Advanced. The advanced wireless settings are displayed on this screen.
Country
Power Mode
Cell Size
Tx Power
Tx Rates
Force long preamble
Allow 802.11g operation in IBSS
Reset to Default Values
Defaults

| (4)wcr54G | (\%) 사 12:10 ok |  |  |
| :---: | :---: | :---: | :---: |
| Country | Choose Lo | tion | $\checkmark$ |
| Power Mode | Automatic |  | $\checkmark$ |
| Cell Size | Medium |  | - |
| Tx Power | 20 |  | $\checkmark$ |
| Tx Rates... | (2.4Ghz : 10 rates set) <br> (5Ghz : 6 rates set) |  |  |
| $\checkmark$ Force long preamble |  |  |  |
| $\square$ Allow 802.119 operation in IBSS |  |  |  |
| Reset to Default Values |  | Defaults |  |
| Tools Advanced |  |  | 畑\| |

Figure 6-4: Wireless Advanced Screen

## Advanced

Three advanced options are offered: Network Troubleshooting, Site Survey, and Link Test. See below for descriptions.

Network Troubleshooting. The IP Address of the CompactFlash Card is displayed.
For information on the connection, click More Info. The More Information screen will appear. The MAC Address, IP Address, Subnet Mask, DHCP Server, Gateways, and DNS are displayed. The IP Forward Table displays the Destination, Mask, Interface, Next Hop, Policy, Type Protocol, Age, Next Hop AS, Metric 1, Metric 2, Metric 3, and Metric 4.

For repair information, click Repair. The Repair screen will appear.
You can check the connectivity by entering the IP Address into the field, then clicking Contact. The Contact screen will appear.


Figure 6-5: Network Troubleshooting Screen


Figure 6-6: More Information Screen


Figure 6-7: Repair Screen


Figure 6-8: Contact Screen


Figure 6-9: Site Survey Screen

Link Test. To run a test, enter the IP Address in the field. The MAC Address and Transfer Rate will be displayed The SNR, Signal , and Noise will be displayed for the Station and Device.


Figure 6-10: Link Test Screen

