

CAREFREE WIRELESS



## HWC54D

### Hi-Gain Wireless-G Cardbus Adapter w/ Directional Antenna for Range Extension

**PACKAGE CONTENTS:**

- ◆ One Hi-Gain Wireless-G Laptop Card
- ◆ One CD, includes Drivers, Software Utility and Manual
- ◆ Easy to follow Quick Installation Guide

**Get More with Hawking**

- ◆ Go Wireless with your Laptop
- ◆ Hi-Gain Directional Antenna diverts interference from laptop
- ◆ Hi-Gain Antenna Rotates and Swivels to help find the best signal
- ◆ Up to 200% the wireless distance performance of standard Wireless cardbus cards
- ◆ 2 Year Warranty
- ◆ Free tech support

**Hi-Gain Antenna Technology Extends Wireless Range**

Hawking Technologies' HWC54D Wireless-G Cardbus PC Card Adapter features the latest in wireless technology. Standard wireless cardbus cards use low power antennas that deliver a circular signal pattern. This type of pattern receives interference from the metal components within the laptop resulting in a drop in wireless performance and distance. The HWC54D solves this problem with its advanced directional 6 dBi Hi-Gain Antenna that delivers a strong concentrated signal in the direction of the wireless access point to establish a strong wireless link resulting in a significant increase in operating distance (Up to 200%). The Hi-Gain antenna position swivels and folds to make finding an optimal signal easy and simple. When you are not using the card, simply fold the antenna down for compact, safe, easy transport.

**Fast and Easy**

The Wireless-G Cardbus Card is packed with features, including support for true plug and play (hot swappable), high level security (WPA and WEP Encryption), and low power consumption to preserve your laptop's battery life. The HWC54D uses the latest wireless standard for the fastest connection speeds (Up to 54Mbps - 802.11g). It is also backwards compatible with legacy wireless 802.11b products. Transferring data, audio and even video files wirelessly will be easy and fast. Configuration and installation is simplified to get your wireless network up and running in a matter of minutes!

**Systems Requirement:**

- ◆ Pentium compatible CPU or above
- ◆ Windows 98SE/2000/ME/XP

## CAREFREE WIRELESS



### HWC54D

**Hi-Gain Wireless-G  
Extended Range Cardbus Card  
Two Year Warranty**

#### ORDERING INFORMATION:

- HWR54G** HI-Speed Wireless-G Router
- HWP54G** HI-Speed Wireless-G PCI Card
- HWC54G** Hi-Speed Wireless-G Cardbus PC Card
- HWU54D** Hi-Speed Wireless USB Network Adapter

#### SPECIFICATIONS:

##### Network Specifications

- ♦ IEEE 802.11b WLAN Standard
- ♦ IEEE 802.11g WLAN Standard

##### Wireless Speed:

- ♦ 54/48/36/24/12/11/9/6/5.5/  
2/1 Mbps Adaptive Data Rate

##### Operating Systems:

- ♦ Microsoft Windows 98SE, 2000, ME, XP

##### Host Interface:

##### Power Requirements:

Operating Voltage: 3.3V

- ♦ 54g: TX: 480Ma (Max)      RX: 340Ma (Max)
- ♦ 11b: TX: 430Ma (Max)    RX: 340Ma (Max)

##### Security:

##### Modulation Techniques:

- ♦ 54g: 54g OFDM (64QAM, 16QAM, QPSK, BPSK)
- ♦ 11b: DSSS (CCK, DQPSK, DBPSK)

##### Antenna:

##### Frequency Range:

##### RF Output Power

##### (Before 6dBi Hi-Gain Antenna)

- ♦ 64 QAM - 11dBm      ♦ 16 QAM - 14dBm
- ♦ QPSK - 16dBm       ♦ BPSK - 17dBm
- ♦ DBPSK, SQPSK, CCK - 17dBm

##### Sensitivity

- ♦ 802.11g; PER < 10%  
54Mbps: -65dBm      48Mbps: -66dBm  
36Mbps: -70dBm      24Mbps: -72dBm  
18Mbps: -77dBm      12Mbps: -79dBm  
9Mbps: -81dBm       6Mbps: -82dBm
- ♦ 802.11b; PER < 8%  
11Mbps: -80dBm  
5.5Mbps: -83dBm  
2Mbps: -86dBm  
1Mbps: -89dBm

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#### READY, NETWORK & GO!

It's easy to install, it's easy to use! Everyone can do it.

##### Step 1 - Install the HI-Gain 54G CardBus Card

Insert the HWC54D Card into your Notebook Computer PC Card Slot.

##### Step 2 - Install Utility and Driver

Install the software utility on the provided CD-ROM and then insert the HWC54D and Windows will automatically guide you through the Driver Installation.

##### Step 3 - Configure and GO!

Click the WLAN utility, follow the simple configuration instructions, adjust the Hi-Gain antenna and you're done!

#### WIRELESS NETWORK DIAGRAM:



#### PRODUCT VIEWS:



##### Roaming:

802.11g standard

##### Dimension:

4.63" L x 2.13" W x 0.27" H

##### EMI Conformance:

FCC part 15 Class B

\*The range will vary in different operating environments due to effects such as building construction.

Features	Benefits
Hi-Speed Wireless-G Networking	Blazing fast wireless data transfers
IEEE 802.11g/b Standards	Compatible with Industrial Standards
WPA Wireless Security	For ensured Security and Privacy
Flip-out and swivel 6dBi Directional Antenna	For greater signal coverage and data transfer rates