



▶ **Smart Wireless**

PCMCIA Adapter 802.11b (95-31)

User Guide



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 radiated 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.

To assure continued compliance, (example – 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 transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

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 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 equipment complies with all the requirements of DIRECTIVE 1999/5/CE 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 and of the computer manufacture 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, Ireland, Italy, Luxembourg, Spain (with Frequency channel restrictions), Sweden, The Netherlands, and United Kingdom.

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

EU Countries Not Intended for Use

Portugal.

Potential Restrictive Use

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

Spain: only channels 10 and 11.

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1 Introduction

This User Guide will assist you to correctly install and configure the Madge 802.11b PCMCIA adapter.

The following items should be found in the package you have purchased:

- One 802.11b PCMCIA adapter
- CD-ROM containing documentation, the Wireless LAN Utility and drivers

Please visit www.madge.com/software to check for the latest driver releases.

The CD-ROM also contains information on other Madge Smart Wireless products.

NOTE:

2 Wireless LAN Basics

Wireless LANs (Local Area Networks) offer a number of benefits over traditional wired networks. Wireless LANs (WLANs) are easier to set up and manage, more flexible, and often more cost effective than a wired equivalent.

By using radio frequency (RF) technology, the need for wired connections is minimized as WLANs transmit and receive data over the air. Moreover, WLANs combine data connectivity and user mobility through simplified configuration.

Wireless LANs allow users to access shared network resources without additional physical cabling. They also enable network managers to set up or augment networks quickly and without the need to re-cable or re-patch the network. Consequently, WLANs offer business benefits of productivity, convenience, and cost advantage over traditional wired networks as follows:

- WLAN systems enable users to access real-time information anywhere in their organization covered by the wireless network. This mobility supports productivity and services opportunities that are not possible by wired networks.
- . It is quick and easy to install a WLAN system as there is no need to pull cables through walls and ceilings, install patching and switching and other traditional LAN equipment.
- . The initial deployment costs of WLAN hardware is less than those of wired LAN hardware, and the overall costs of ownership will be significantly lower. WLANs offer greatest long-term cost benefits when operating in dynamic environments that require frequent moves, adds, and changes.

3 Installation and removal on Windows Platforms

To operate the wireless PCMCIA adapter you need to insert it into a free PCMCIA slot in your computer and then install a “driver” that is compatible with the Windows version you are running. In addition there is a configuration utility that allows the wireless PCMCIA adapter settings to be changed. There is a PRISM configuration utility for Windows 95/NT, a Madge Wireless LAN Utility for Windows 98/ME/2000 and Windows XP has built in support for 802.11b adapter configuration.

NOTE: The configuration utility must be installed after the PCMCIA adapter and driver have been installed.

3.1 Installing the Driver

3.1.1 Windows 95 OSR2

1. Power on your computer and allow Windows to load fully.
2. Insert the accompanying CD-ROM into your CD-ROM drive.
3. If AutoPlay is enabled then the “Accept Warranty Dialog” should appear. Read the agreement and click [Yes](#) if you agree to the terms of the Warranty. Dismiss the Smart Wireless CD-ROM dialog by clicking on the [Close](#) link.
4. Insert the wireless PCMCIA adapter into the PCMCIA slot of the computer.
5. Windows detects the wireless PCMCIA adapter, and then the Add New Hardware Wizard is launched to help you install the driver. Click [Next](#).
6. Select the [Hardware](#) option and specify “[D:\](#)” (where D: is the drive letter of your CD-ROM; replace it with a correct letter if necessary) as the location for Windows to search for the PCMCIA adapter driver. Click [Next](#).
7. Windows finds the driver of the wireless PCMCIA adapter. Click [Next](#).
8. Once the [Hardware](#) window appears, remove the accompanying CD-ROM of the wireless PCMCIA adapter from the CD-ROM drive, insert the Windows 98/Me CD-ROM, and click [Next](#).
9. Click [Finish](#) to complete the installation. Restart the computer when prompted.
10. Run “[prism](#)” to install the PRISM configuration utility.

3.1.2 Windows 98/Me

1. Power on your computer and allow Windows to load fully.
2. Insert the accompanying CD-ROM into your CD-ROM drive.
3. If AutoPlay is enabled then the “Accept Warranty Dialog” should appear. Read the agreement and click [Yes](#) if you agree to the terms of the Warranty. Dismiss the Smart Wireless CD-ROM dialog by clicking on the [Close](#) link.
4. Insert the wireless PCMCIA adapter into the PCMCIA slot of the computer.
5. Windows detects the wireless PCMCIA adapter, and then the Add New Hardware Wizard is launched to help you install the driver. Click [Next](#).
6. Select the [Hardware](#) option and specify “[D:\](#)” (where D: is the drive letter of your CD-ROM; replace it with a correct letter if necessary) as the location for Windows to search for the PCMCIA adapter driver. Click [Next](#).
7. Windows finds the driver of the wireless PCMCIA adapter. Click [Next](#).
8. Once the [Hardware](#) window appears, remove the accompanying CD-ROM of the wireless PCMCIA adapter from the CD-ROM drive, insert the Windows 98/Me CD-ROM, and click [Next](#).
9. Click [Finish](#) to complete the installation. Restart the computer when prompted.

3.1.3 Windows NT 4.0

1. Insert the wireless PCMCIA adapter into the PCMCIA slot of the computer.
2. Power on your computer and allow Windows to load fully. Then log on as an *administrator*.


3. Click the button on the taskbar, point to , and click . In Control Panel, double-click , click the tab, and click .
4. Windows NT presents a list of all its supported adapters. Click to continue.
5. Windows NT asks for the path containing the wireless PCMCIA adapter driver. Specify " (where D: is the drive letter of your CD-ROM; replace it with a correct letter if necessary) as the location for Windows to search for the wireless PCMCIA adapter driver. Insert the accompanying CD-ROM into your CD-ROM drive. Click .
6. Windows finds the wireless PCMCIA adapter driver and then copies the necessary files into the system. Click to finish the installation. Restart your computer when prompted.
7. Run " /c " to install the PRISM configuration utility.

3.1.4 Windows 2000

1. Power on your computer and allow Windows to load fully.
2. Insert the accompanying CD-ROM into your CD-ROM drive.
3. If AutoPlay is enabled then the "Accept Warranty Dialog" should appear. Read the agreement and click if you agree to the terms of the Warranty. Dismiss the Smart Wireless CD-ROM dialog by clicking on the link.
4. Insert the wireless PCMCIA adapter into the PCMCIA slot of the computer.
5. Windows detects the wireless PCMCIA adapter, and then the Found New Hardware Wizard is launched to help you install the driver. Click .
6. Select the option and click .
7. Select CD-ROM drives for the optional search location and click .
8. Windows should find the driver in " (where D: is the drive letter of your CD-ROM). Click .
9. The driver does not have a digital signature. Click to continue the installation. Windows installs the driver of the wireless PCMCIA adapter.
10. Click to complete the installation.
11. Now install the Wireless LAN Utility, see section 3.2.

3.1.5 Windows XP

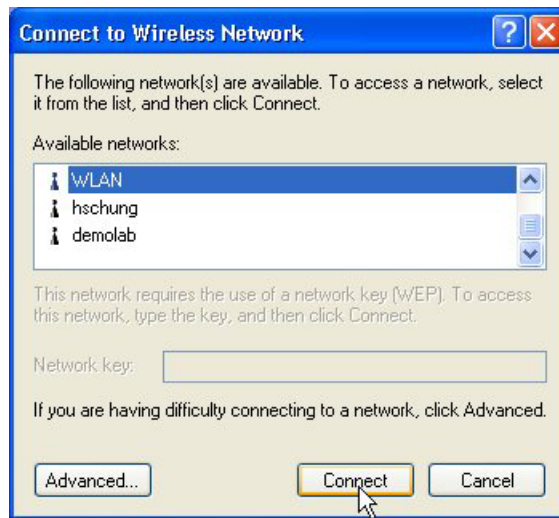
1. Power on your computer and allow Windows to load fully.
2. Insert the accompanying CD-ROM into your CD-ROM drive.
3. If AutoPlay is enabled then the "Accept Warranty Dialog" should appear. Read the agreement and click if you agree to the terms of the Warranty. Dismiss the Smart Wireless CD-ROM dialog by clicking on the link.
4. Insert the wireless PCMCIA adapter into the PCMCIA slot of the computer.
5. Windows detects the wireless PCMCIA adapter, and then the Found New Hardware Wizard is launched to help you install the driver. Click .
6. Select the option and specify " (where D: is the drive letter of your CD-ROM; replace it with a correct letter if necessary) as the location for Windows to search for the PCMCIA adapter driver. Click .
7. Windows finds the driver of the wireless PCMCIA adapter. Click .

8. Click  to complete the installation.

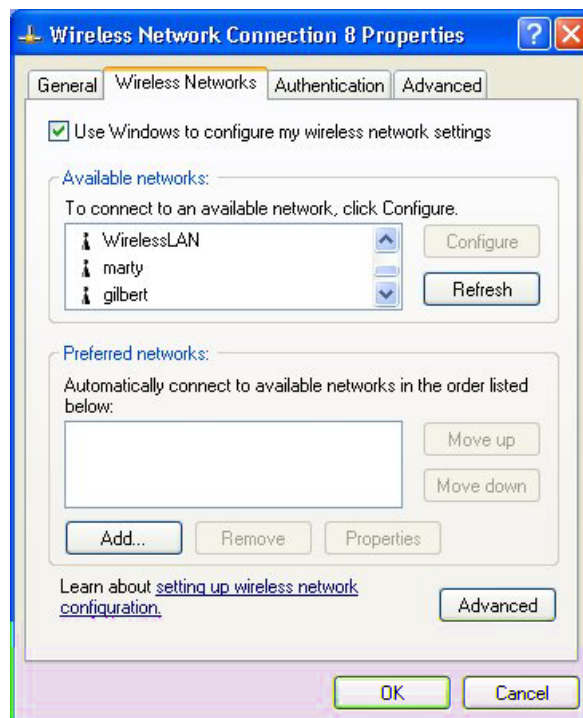
After the driver of the wireless PCMCIA adapter has been installed, Windows XP displays a “Wireless Network Connection #” message on the status area of the task bar if Windows detected available Access Points.



Click the above message and the  dialog box appears to allow users to connect to an available wireless infrastructure network (access point) as shown below:



If you click , the  dialog box will appear for you to configure wireless settings.



For more information about wireless networking, please refer to Windows XP on-line help.

3.1.6 Windows CE

NOTE: Make sure you have installed _____ or later before you install the wireless PCMCIA adapter driver/utility for Windows CE 3.0.

The PCMCIA adapter driver for Windows CE 3.0 is put in “_____” (where D: is the drive letter of your CD-ROM; replace it with a correct letter if necessary). Run _____ to install the driver/utility.

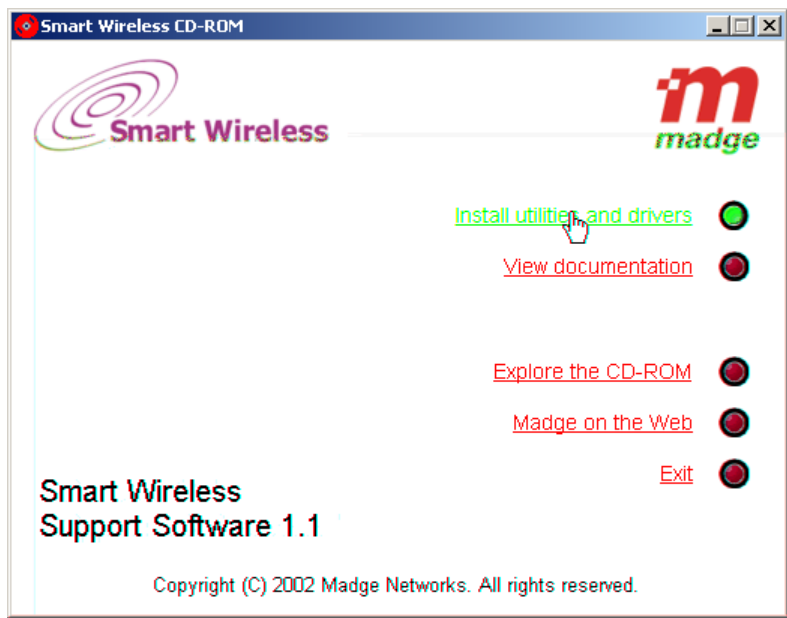
3.1.7 Linux

The PCMCIA adapter driver for Linux is put in “_____” (where D: is the drive letter of your CD-ROM; replace it with a correct letter if necessary). You can go to “http://www.hpl.hp.com/personal/Jean_Tourrilhes/Linux/” to get more information on how to install wireless PCMCIA adapter driver on Linux.

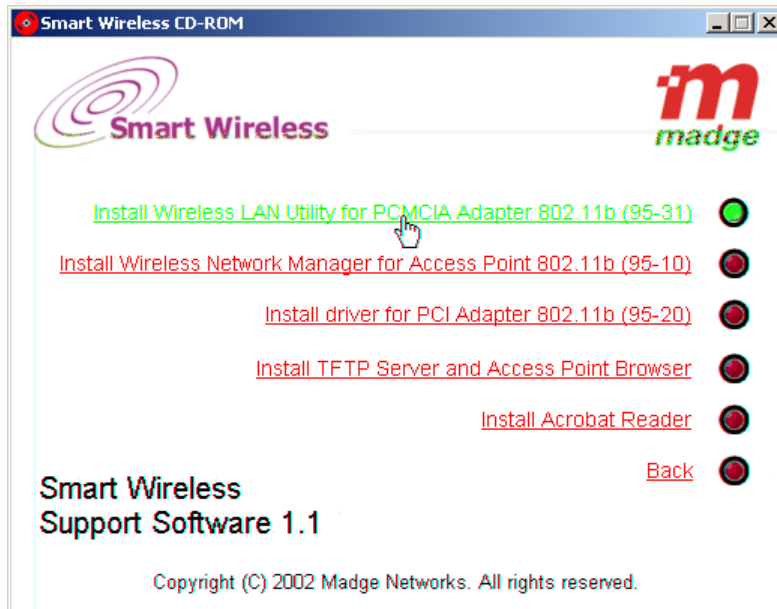
3.2 Installing the Wireless LAN Utility

NOTE: Currently the Wireless LAN Utility only runs on Windows 98/Me/2000. It must be installed after the wireless PCMCIA adapter and driver have been installed. If the Wireless LAN Utility is installed first, followed by the PCMCIA Adapter, it is possible that the Utility will not recognise the Adapter. To recover from this, remove the PCMCIA adapter from the computer and then reinsert it.

1. Insert the accompanying CD-ROM into your CD-ROM drive.
2. If AutoPlay is enabled then the “Accept Warranty Dialog” should appear (if not it can be run from “_____” where D: is the drive letter of your CD-ROM). Read the agreement and click _____ if you agree to the terms of the Warranty. The following dialog will appear:



3. Click _____, the following dialog will appear:



4. Click on [Install Wireless LAN Utility for PCMCIA Adapter 802.11b \(95-31\)](#) to install the utility.
5. Follow the instructions of the installer wizard to complete the installation of Wireless LAN Utility.
6. Alternatively you can run “`D:\Smart Wireless\Utility\Utility.exe`” (where D: is the drive letter of your CD-ROM; replace it with a correct letter if necessary) to install the Wireless LAN Utility.

3.3 Removing the wireless PCMCIA adapter

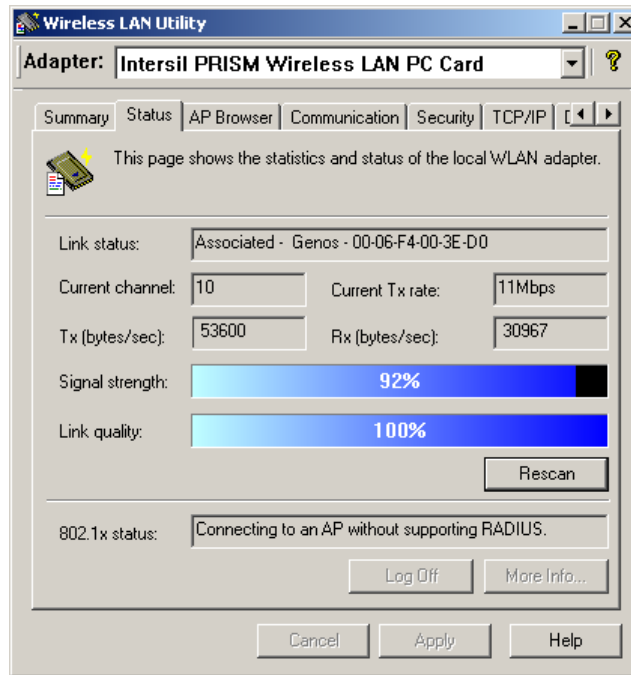
When removing the wireless PCMCIA adapter from a computer be sure to disable (stop) the card first. Removing a wireless PCMCIA adapter without first stopping it can cause data loss or system crashes.

4 Wireless LAN Utility

The Wireless LAN Utility enables the user to perform the following operations:

- View current TCP/IP and wireless network settings of the computer.
- Monitor the wireless status of the wireless PCMCIA adapter and log on to an IEEE 802.1x controlled wireless network.
- Scan nearby access points and associate with a specific access point.
- Configure communication and security settings (including IEEE 802.1x settings) of the wireless PCMCIA adapter.
- Configure TCP/IP settings of the computer.
- Check if a remote host can be reached by sending ICMP Echo Request (“ping”) messages to it.
- View version info of the wireless PCMCIA adapter’s driver and firmware.

The following screenshot shows typical status information displayed by the Wireless LAN Utility:



Refer to the on-line help of the Wireless LAN Utility for more information about this program.

5 Driver Upgrade

The wireless PCMCIA adapter driver can be upgraded from a floppy disk, a CD-ROM or from a folder on a hard disk. Typically a new driver will be downloaded from the Madge web-site (www.madge.com/software) and saved to either a floppy disk or a hard drive. The following instructions include a step where is clicked. At this step browse to the location where the driver files have been saved.

5.1 Windows 98/Me

1. Right-click the icon at the upper left of your Windows desktop, click , and then click the tab.
2. From , double-click the icon standing for the wireless PCMCIA adapter. On the tab, click .
3. Update Device Driver Wizard appears. Click to proceed.
4. Select the option, and then click .
5. Click to specify the location where the driver files reside, and then click .
6. From the list, select the correct model and click .
7. Windows starts to copy the new driver files into the system.
8. Once the window appears, insert the Windows 98/Me CD-ROM, and click .
9. Click to complete the upgrade process. Restart your computer when prompted.

5.2 Windows NT 4.0

1. Click the button on the taskbar, point to , and then click .
2. Double-click the icon, and then click the tab.

3. Click to uninstall the driver in use currently.
4. On the tab, click to install the most recent driver. For installation of the NT driver, please refer to Section 3.1.3.
5. Restart your computer.

5.3 Windows 2000

1. Right-click the icon at the upper left of your Windows desktop, click , click the tab, and then click .
2. From , double-click the icon standing for the wireless PCMCIA adapter. Click the tab, and then click .
3. Upgrade Device Driver Wizard window appears. Click to proceed.
4. Select the option, and then click .
5. Click to specify the location where the driver files reside, then click .
6. From the list, select the wireless PCMCIA adapter, and then click .
7. Click and Windows starts to copy the new driver files into the system.
8. Click to complete the upgrade process.

5.4 Windows XP

1. Click the button of the taskbar, right-click the icon, and then click .
2. On the tab, click .
3. From , double-click the icon standing for the wireless PCMCIA adapter. Click the tab, and then click .
4. Hardware Update Wizard appears. Click to proceed.
5. Select the option, and then click .
6. Click to specify the location where the driver files reside, and then click the . Then, Windows starts to copy the new driver files into the system.
7. Click to complete the upgrade process.