



3COM

User Guide

Bluetooth™ Wireless PC Card

3CRWB6096

<http://www.3com.com/>
<http://www.3com.com/productreg>

Published April 2001
User Guide version 2.0.1
SL-1022

3Com Corporation ■ 5400 Bayfront Plaza ■ Santa Clara, California ■ 95052-8145

Copyright © 2001 3Com Corporation. All rights reserved. No part of this documentation may be reproduced in any form or by any means or used to make any derivative work (such as translation, transformation, or adaptation) without written permission from 3Com Corporation.

3Com Corporation reserves the right to revise this documentation and to make changes in content from time to time without obligation on the part of 3Com Corporation to provide notification of such revision or change.

3Com Corporation provides this documentation without warranty, term, or condition of any kind, either implied or expressed, including, but not limited to, the implied warranties, terms or conditions of merchantability, satisfactory quality, and fitness for a particular purpose. 3Com may make improvements or changes in the product(s) and/or the program(s) described in this documentation at any time.

If there is any software on removable media described in this documentation, it is furnished under a license agreement included with the product as a separate document, in the hard copy documentation, or on the removable media in a directory file named LICENSE.TXT or !LICENSE.TXT. If you are unable to locate a copy, please contact 3Com and a copy will be provided to you.

UNITED STATES GOVERNMENT LEGEND

If you are a United States government agency, then this documentation and the software described herein are provided to you subject to the following:

All technical data and computer software are commercial in nature and developed solely at private expense. Software is delivered as "Commercial Computer Software" as defined in DFARS 252.227-7014 (June 1995) or as a "commercial item" as defined in FAR 2.101(a) and as such is provided with only such rights as are provided in 3Com's standard commercial license for the Software. Technical data is provided with limited rights only as provided in DFAR 252.227-7015 (Nov 1995) or FAR 52.227-14 (June 1987), whichever is applicable. You agree not to remove or deface any portion of any legend provided on any licensed program or documentation contained in, or delivered to you in conjunction with, this User Guide.

Unless otherwise indicated, 3Com registered trademarks are registered in the United States and may or may not be registered in other countries.

3Com is a registered trademark and the 3Com logo is a trademark of 3Com Corporation.

The Bluetooth trademarks are owned by their proprietor and used by 3Com Corporation under license. Microsoft and Windows are registered trademarks of Microsoft Corporation. XTNDConnect PC is a registered trademark of Extended Systems.

All other company and product names may be trademarks of the respective companies with which they are associated.

Contents

1	Introduction to Bluetooth Wireless Technology	1
	Overview	1
	Bluetooth Wireless PC Card	1
	Wireless Radio Transmission	1
	Optimized Antenna	1
	Software and Firmware Upgrades	1
2	Installing Your Bluetooth Wireless PC Card and Connection Manager	3
	Bluetooth Installation CD	3
	Installing the PC Card and Virtual COM Ports	3
	Confirming Device Installation	5
	Uninstalling Your Bluetooth PC Card and Virtual COM Ports	5
	Uninstalling Bluetooth Connection Manager	6
	Using Bluetooth Connection Manager	6
A	Technical Support	7
	Online Technical Services	7
	World Wide Web Site	7
	3Com Knowledgebase Web Services	7
	3Com FTP Site	7
	Support from Your Network Supplier	8
	Support from 3Com	8
	Returning Products for Repair	10
	Regulatory Information	

1

Introduction to Bluetooth Wireless Technology

Overview

Bluetooth™ wireless technology allows you to make short-range wireless connections to Bluetooth devices, such as cellular phones, personal digital assistants (PDA), and desktop and notebook computers. Because Bluetooth wireless technology uses radio transmission, voice and data are transmitted almost immediately. Bluetooth transmission ensures both protection from interference and secure data transfers.

You might use Bluetooth wireless technology in these ways:

- Dial up to the Internet on your notebook over your Bluetooth cellular phone.
- Send a fax from your notebook over your Bluetooth cellular phone.
- Synchronize your Bluetooth PDA with your notebook.
- Send your business card to anyone in a meeting who has a Bluetooth device.
- Send or receive files to or from anyone in a meeting who has a Bluetooth notebook or PDA.
- Chat with anyone in a meeting who has a Bluetooth notebook.
- Play a one-on-one serial game without a cable.
- Send an e-mail from your training session without being wired to the network.

Bluetooth Wireless PC Card

Wireless Radio Transmission

The Bluetooth wireless PC Card uses a reliable radio frequency to transmit data wirelessly. The onboard radio uses the following settings:

- Radio transmit power: 0 dBm (1mW)
- Radio sensitivity: -70 dBm
- Frequency range: 2.402-2.480 GHz

Optimized Antenna

The Bluetooth antenna provides powerful performance in all directions.

Software and Firmware Upgrades

Current software and firmware upgrades are available on the 3Com Web site at:

www.support.3com.com

2

Installing Your Bluetooth Wireless PC Card and Connection Manager

Bluetooth Installation CD

The *Bluetooth Installation CD* contains the following:

- Setup programs and drivers for Windows 98 Second Edition (SE), Windows Millennium Edition (Windows Me) and Windows 2000
- Bluetooth Connection Manager
- XTNDConnect PC mobile synchronization and management software
- 3Com Mobile Connection Manager
- README.TXT file with updated information about your Bluetooth Wireless PC Card
- This *Bluetooth Wireless PC Card User Guide*
- Adobe Acrobat Reader

Installing the PC Card and Virtual COM Ports

If you are accessing this manual as part of your Bluetooth PC Card installation, skip to step 3 below.

- 1 With the computer on and Windows 98 SE, Me, or 2000 running, insert the *Bluetooth Installation CD* into the CD-ROM drive. The auto-start feature starts the installation. If auto-start is disabled on your computer, click *Start>Run* and type `d:\setup.exe` (where d: is your CD-ROM drive).**
- 2 Select *Install Bluetooth Hardware*.**
- 3 Insert the PC Card into the PC Card slot (see the first illustration below). Push it into the slot until you feel it seat securely. The connector containing the antenna works like a ball-point pen—press it to extend it, press it again to hide it. When the connector is extended, the blue plastic antenna is lying down. To use the antenna, raise it to a vertical position (see the second illustration below).**

After inserting the PC Card, if auto-start is enabled and nothing happens within five seconds, restart your computer and log in to Windows. The installation process will begin when the computer restarts.

- 4 Respond to the prompts as they appear.**

If you are prompted for the drivers, enter the following path, where d: is the location of the CD-ROM drive where the *Bluetooth Installation CD* is inserted:

Windows 2000: `d:\drivers.W2K`

Windows 98 SE and Windows Me: `d:\drivers.W98`

During the installation process, you may receive prompts for the Windows 2000, Windows 98 SE, or Windows Me installation CD. Insert the CD and indicate the correct path.

- 5 Restart the computer whenever you are prompted.**

Your computer will go through a brief installation process during which it will display several windows indicating what is currently installing. *This takes a few minutes.*

2 Installing Your Bluetooth Wireless PC Card and Connection Manager

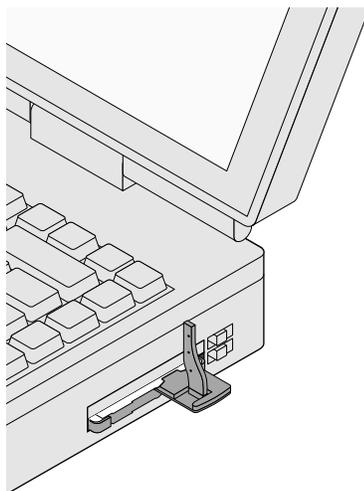
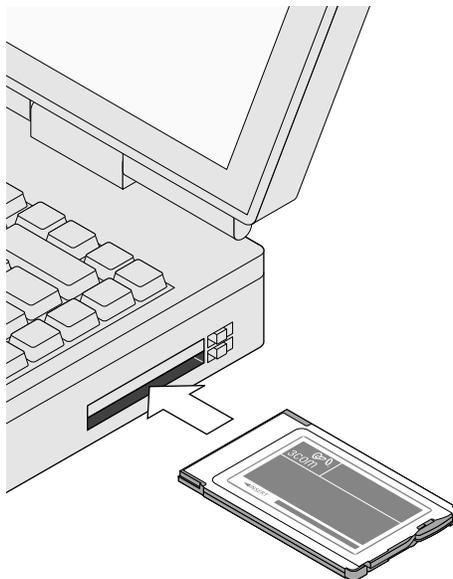
- 6 From the *Bluetooth Installation CD*, select *Step 2: Install Bluetooth Software* and follow the prompts. This installs *Bluetooth Connection Manager*, which is necessary for you to use your *Bluetooth wireless PC Card* to communicate with other *Bluetooth* devices.**

During software installation, the business card creation windows appears, giving you the opportunity to create your business card now or wait until later. We suggest that you create your business card now.

- 7 Restart your computer whenever you are prompted.**

- 8 To install other software programs located on the *Bluetooth Installation CD*, such as *3Com Mobile Connection Manager* or *XTNDConnect PC mobilization and management software*, select *Install Additional Software* and follow the prompts.**

The connector containing the antenna may be on the opposite side of the card than is displayed below.



Confirming Device Installation

- 1 With your Bluetooth PC Card inserted in the computer, double-click the *My Computer* icon.
- 2 Double-click the *Control Panel* icon.
- 3 Double-click the *System* icon. The System Properties window appears, detailing your system setup.
- 4 If you are using Windows 2000, click the *Hardware* tab.
- 5 Click the *Device Manager* button. A list of devices appears, arranged by type.
- 6 Double-click *Multi-port serial adapters*. One entry appears: 3Com Bluetooth PC Card.
- 7 If you are using Windows 98 SE or Windows Me, double-click *Modems*. If you are using Windows 2000, double-click *Ports*. Four entries appear: 3Com Bluetooth DUN Client, 3Com Bluetooth Fax Client, 3Com Bluetooth Serial Client, and 3Com Bluetooth Serial Host.
- 8 Double-click the entries to display a description of their current statuses. The device status should indicate "This device is working properly."
- 9 Click *Cancel* to return to System Properties.
- 10 Click *Cancel* to exit System Properties.

Uninstalling Your Bluetooth PC Card and Virtual COM Ports

- 1 With your Bluetooth PC Card inserted in the computer, double-click the *My Computer* icon.
- 2 Double-click the *Control Panel* icon.
- 3 Double-click the *System* icon. The System Properties window appears, detailing your system setup.
- 4 If you are using Windows 2000, click the *Hardware* tab.
- 5 Click *Device Manager*. A list of devices appears, arranged by type.
- 6 Double-click *Multi-port serial adapters*. One entry appears: 3Com Bluetooth PC Card.
- 7 Select *3Com Bluetooth PC Card*.
- 8 From the Action menu, select *Uninstall...* (Windows 2000) or *Remove* (Windows 98 SE or Windows Me).
- 9 Click *OK* to the prompt.
- 10 Close the Device Manager window to return to System Properties.
- 11 Click *OK* to exit System Properties.

2 Installing Your Bluetooth Wireless PC Card and Connection Manager

Uninstalling Bluetooth Connection Manager

Normally, you would not uninstall Bluetooth Connection Manager; however, in case a problem arises, you may want to uninstall and reinstall it.

In Windows 98 SE, Windows Me, and Windows 2000, you can uninstall Connection Manager any time following the installation. The uninstall removes desktop icons, registry entry files, and files used by the PC Card. If any files exist in the Inbox, neither the files nor the Inbox is removed when Connection Manager is uninstalled.

- 1 Click *Start>Settings>Control Panel*.**
- 2 Click *Add/Remove Programs*.**
- 3 Select *Bluetooth Connection Manager*.**
- 4 Click *Change/Remove*.**
- 5 Click *Remove*.**
- 6 When the uninstall is complete, remove the Bluetooth Wireless PC Card and restart your computer.**

Using Bluetooth Connection Manager

Refer to Bluetooth Connection Manager's Help for detailed information about how to use Connection Manager and troubleshoot your Bluetooth wireless product.

A

Technical Support

3Com provides easy access to technical support information through a variety of services. This appendix describes these services.

Information contained in this appendix is correct at time of publication. For the most recent information, 3Com recommends that you access the 3Com Corporation World Wide Web site.

Online Technical Services

3Com offers worldwide product support 24 hours a day, 7 days a week, through the following online systems:

- World Wide Web site
- 3Com Knowledgebase Web Services
- 3Com FTP site

World Wide Web Site

To access the latest networking information on the 3Com Corporation World Wide Web site enter this URL into your Internet browser:

`http://www.3com.com/`

This service provides access to online support information such as technical documentation and software library, as well as support options that range from technical education to maintenance and professional services.

3Com Knowledgebase Web Services

This interactive tool contains technical product information compiled by 3Com expert technical engineers around the globe. Located on the World Wide Web at **`http://knowledgebase.3com.com`**, this service gives all 3Com customers and partners complementary, round-the-clock access to technical information on most 3Com products.

3Com FTP Site

Download drivers, patches, and software across the Internet from the 3Com public FTP site. This service is available 24 hours a day, 7 days a week.

To connect to the 3Com FTP site, enter the following information into your FTP client:

- Hostname: **`ftp.3com.com`**
- Username: **`anonymous`**
- Password: **`<your Internet e-mail address>`**



NOTE: You do not need a user name and password with Web browser software such as Netscape Navigator and Internet Explorer.

A Technical Support

Support from Your Network Supplier

If you require additional assistance, contact your network supplier. Many suppliers are authorized 3Com service partners who are qualified to provide a variety of services, including network planning, installation, hardware maintenance, application training, and support services.

When you contact your network supplier for assistance, have the following information ready:

- Product model name, part number, and serial number
- A list of system hardware and software, including revision levels
- Diagnostic error messages
- Details about recent configuration changes, if applicable

If you are unable to contact your network supplier, see the following section on how to contact 3Com.

Support from 3Com

If you are unable to obtain assistance from the 3Com online technical resources or from your network supplier, 3Com offers technical telephone support services.

Telephone support, with coverage for basic troubleshooting only, will be provided for the lifetime of the product, on a commercially reasonable efforts basis. Telephone support from 3Com is available from 3Com only if Customer purchased this product directly from 3Com, or if Customer's reseller is unable to provide telephone support. 3Com reserves the right to modify or cancel this offering at any time, without advance notice. This offering is not available where prohibited or restricted by law.

When you contact 3Com for assistance, have the following information ready:

- Product model name, part number, and serial number
- A list of system hardware and software, including revision levels
- Diagnostic error messages
- Details about recent configuration changes, if applicable

Here is a list of worldwide technical telephone support numbers. These numbers are correct at the time of publication. Refer to the 3Com Web site for updated information.

Country	Telephone Number
Asia, Pacific Rim	
Australia	1 800 678 515
Hong Kong	800 933 486
India	+61 2 9937 5085 or 000800 6501111
Indonesia	001 800 61 009
Japan	03 5783 1270
Malaysia	1800 801 777
New Zealand	0800 446 398
Pakistan	+61 2 9937 5083
Philippines	1235 61 266 2602
P.R. of China	10800 61 00137 or 021 6350 1590 or 00800 0638 3266
Singapore	800 6161 463
S. Korea	82 2 3455 6455
From anywhere in S. Korea:	00798 611 2230
From Seoul:	00798 611 2230
Taiwan, R.O.C.	0080 611 261
Thailand	001 800 611 2000

Country	Telephone Number
<p>Europe, Middle East and Africa From anywhere in these regions, call:</p>	<p>+44 (0)1442 435529 phone +44 (0)1442 436722 fax</p>
<p>Europe and South Africa From the following countries, you may use the toll-free numbers:</p> <p>Austria Belgium Denmark Finland France Germany Hungary Ireland Israel Italy Luxembourg Netherlands Norway Poland Portugal South Africa Spain Sweden Switzerland U.K.</p>	<p>0800 297468 0800 71429 800 17309 0800 113153 0800 917959 0800 1821502 06800 12813 1800 553117 1800 9453794 800 8 79489 0800 3625 0800 0227788 800 11376 00800 3111206 0800 831416 0800 995014 900 983125 020 795482 0800 55 3072 0800 966197</p>
<p>Latin America Brazil Mexico Puerto Rico Central and South America</p>	<p>0800 13 3266 01 800 849CARE 800 666 5065 AT&T +800 998 2112</p>
<p>North America</p>	<p>1 800 NET 3Com (1 800 638 3266) Enterprise Customers: 1 800 876-3266</p>

A Technical Support

Returning Products for Repair

Before you send a product directly to 3Com for repair, you must first obtain an authorization number. Products sent to 3Com without authorization numbers will be returned to the sender unopened, at the sender's expense.

To obtain an authorization number, call or fax:

Country	Telephone Number	Fax Number
Asia, Pacific Rim	+65 543 6500	+65 543 6348
Europe, South Africa, and Middle East	+31 30 6029900	+31 30 6029999
Central and South America	525 201 0075	
Argentina	0810 222 3266	
Bolivia	511 241 1691	
Brazil	0800 133266 or 55 11 5643 2700	
Caribbean	525 201 0004	
Chile	562 240 6200	
Colombia	525 201 0004	
Ecuador	525 201 0004	
Mexico	525 201 0004	
Paraguay	525 201 0004	
Peru	511 241 1691	
Uruguay	525 201 0004	
Venezuela	525 201 0004	
From the following countries, you may call the toll-free numbers; select option 2 and then option 2:		
Austria	0800 297468	
Belgium	0800 71429	
Denmark	800 17309	
Finland	0800 113153	
France	0800 917959	
Germany	0800 1821502	
Hungary	00800 12813	
Ireland	1800553117	
Israel	1800 9453794	
Italy	1678 79489	
Netherlands	0800 0227788	
Norway	800 11376	
Poland	00800 3111206	
Portugal	0800 831416	
South Africa	0800 995014	
Spain	900 983125	
Sweden	020 795482	
Switzerland	0800 55 3072	
U.K.	0800 966197	
U.S.A. and Canada	1 800 NET 3Com (1 800 638 3266) Enterprise Customers: 1 800 876 3266	1 408 326 7120 (not toll-free)

Regulatory Information



NOTE: This product contains encryption. It is unlawful to export out of the U.S. without obtaining a U.S. Export License.



CAUTION: FCC Radio-Frequency Exposure Notice

This device generates and radiates radio-frequency energy. In order to comply with FCC radio-frequency radiation exposure guidelines for an uncontrolled environment, this equipment has to be installed and operated while maintaining a minimum body to antenna distance of 2.5 cm.

This product does not contain any user serviceable components. Any unauthorized product changes or modifications will invalidate 3Com's warranty and all applicable regulatory certifications and approvals.

FCC PART 15 NOTICE (APPLICABLE TO USE WITHIN THE USA)

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.



WARNING: This equipment has been tested and found to comply with the limits for a Class B digital device as applicable, 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 or more 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.

The user may find the following booklet prepared by the Federal Communications Commission helpful: *The Interference Handbook*

This booklet is available from the U.S. Government Printing Office, Washington, D.C. 20402. Stock No. 004-000-00345-4.

Regulatory Information

MANUFACTURER'S DECLARATION OF CONFORMITY

3Com Corporation
3930 W. Parkway Blvd.
PO Box 704010
West Valley City, UT 84119
(800) 527-8677

Declares that the Product:

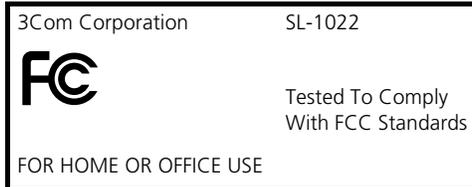
Date: 23 June 2000

Brand Name: 3Com Corporation

Model Number: SL-1022

Equipment Type: Bluetooth Wireless PC Card

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.



INDUSTRY CANADA NOTICE (APPLICABLE FOR USE WITHIN CANADA)

This device complies with Canadian RSS-210.

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.

The installer of this radio equipment must ensure that the antenna is located or pointed such that it does not emit RF field in excess of Health Canada limits for the general population; consult Safety Code 6, obtainable from Health Canada's website www.hc-sc.gc.ca/rpb.

AVIS DE CONFORMITÉ À LA RÉGLEMENTATION D'INDUSTRIE CANADA

Cet appareil est conforme à la norme CNR-210 du Canada.

Pour empêcher que cet appareil cause du brouillage au service faisant l'objet d'une licence, cet appareil doit être utilisé à l'intérieur seulement et devrait être placé loin des fenêtres afin de fournir un écran de blindage maximal.

L'installateur du présent matériel radio doit s'assurer que l'antenne est située ou pointée de manière à ce que cette dernière n'émette pas de champs radioélectriques supérieurs aux limites spécifiées par Santé Canada pour le grand public; consulter le Code de sécurité 6, disponible sur le site Web de Santé Canada, à l'adresse suivante: www.hc-sc.gc.ca/rpb.

SAFETY

This device has been tested and certified according to the following safety standards and is intended for use only in Information Technology Equipment which has been tested and certified to these or other equivalent standards:

- *UL Standard 1950 (3rd Edition)/ CSA C22.2 No. 950*
- *IEC 60950*
- *EN 60950*

EUROPEAN COMMUNITY CE NOTICE

Marking by the symbol  indicates compliance of this equipment to the R&TTE Directive 1999/5/EC. Such marking is indicative that this equipment meets or exceeds the following technical standards:

- ETS 300 328 — Electromagnetic compatibility and Radio spectrum Matters (ERM); Wideband Transmission systems; data transmission equipment operating in the 2,4GHz ISM band and using spread spectrum modulation techniques
- ETS 300 826 — Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for 3,4 GHz wideband transmission systems and High Performance Radio Local Area Network (HIPERLAN) equipment
- ES 59005 — Considerations for the evaluation of human exposure to electromagnetic fields (EMFs) from mobile telecommunication equipment (MTE) in the frequency range 30 MHz - 6 GHz
- EN 55022 — Limits and Methods of Measurement of Radio Interference Characteristics of Information Technology Equipment. (CISPR 22 Class B).
- EN 60950 — Safety of information technology equipment, including electrical business equipment

This device may be used throughout the European Community.

User Guide version 2.0.1

Published April 2001