



DATA SHEET

3Com® Wireless Bluetooth™ PC Card, USB Adapter, and Printer Adapter

Key Benefits

Quick, cable-free Bluetooth connections among multiple devices

Simplicity

Bluetooth™ Connection Manager provides automatic discovery and point-and-click management of devices, resources, and services.

Reliability

The PC Card's XJACK® antenna delivers clear, interference-free reception,* while the USB adapter's compact form factor gives Bluetooth connectivity to notebook and desktop PCs with a USB port. The high power, integrated antenna in the printer adapter gives you connectivity to a printer at distances up to 100 meters.

Bluetooth is an open, global standard for radio links that provides affordable wireless connections between PCs, handhelds, mobile phones, printers, and many other devices, along with access to network resources. The Bluetooth specification defines a low-power radio link optimized for secure short-range connections, and lays out standard steps for connecting various types of devices. Bluetooth radios—which can be incorporated into most any electronic device—offer a universal wireless communication link that enables reliable interoperation between devices from different manufacturers.

Bluetooth radios operate in the 2.4 GHz spectrum. Each unit includes a radio, a baseband link controller, and software for link and data-flow management. The Bluetooth specification defines two radio choices:

Security

128-bit encryption support and link manager layer authentication means Bluetooth devices are identified by their unique address and PIN, so users can exchange information securely.

Flexibility

Our printer adapter allows users to enable wireless printing at any printer equipped with a parallel port.

a low-power level with up to a 10-meter range primarily intended for client devices, and a high-power level with a 100-meter range for public access devices. Bluetooth devices can connect simultaneously with up to seven devices. Maximum data transfer rate is up to 1 Mbps. These radios also use a signaling technology called frequency hopping spread spectrum (FHSS) to minimize interference and enhance security.

As part of the Bluetooth solution from 3Com®, we offer the 3Com Wireless Bluetooth PC Card, USB adapter, and printer adapter. They make it easy to connect your notebook or desktop to other Bluetooth-enabled devices. Our Bluetooth solutions provide a liberating combination of pervasive connectivity and personal mobility.

*If interference occurs, its severity depends on number of users, physical conditions, and other electronic devices in the area.

By the year 2005,
more than 670
million devices will
be equipped with
Bluetooth technology
Cahners In-Stat

Easy-to-Use Software

Bluetooth Connection Manager makes wireless connections point-and-click simple. It automatically discovers and displays other Bluetooth devices within range, and provides easy-to-follow wizards for connecting to other devices and utilizing the services they offer. Simply follow convenient screens and prompts to:

- Locate and identify accessible Bluetooth devices
- Initiate connections to accessible devices
- Exchange files
- Assign trust levels to frequently accessed remote devices, maximizing collaboration while maintaining the security of your information
- Set security levels for the local devices
- Set passwords
- Manually terminate connections
- Enable or disable local devices

Reliable XJACK Antenna

The 3Com Wireless Bluetooth PC Card features our award-winning XJACK technology. Position the unique XJACK antenna up and away from the notebook, to minimize interference caused by the notebook and greatly improve Bluetooth transmission and reception. Plus, the antenna retracts back into the card for safe transport.

Built-In Security

With 3Com Wireless Bluetooth PC Cards, USB adapters, and printer adapters, going wireless doesn't mean you have to sacrifice security. To safeguard your Bluetooth devices and data, we offer 128-bit encryption support

and link manager layer authentication. As a result, Bluetooth devices are identified at the physical layer by their unique addresses and PINs. Plus, users can set up usernames and passwords. Now your users will be able to exchange information more securely and confidently.

Compatible Connections

Our Bluetooth PC Cards and USB adapters also simplify the process of connecting to networks. If you're working within range of a Bluetooth LAN access point and want to connect to the network, your device automatically finds the access point so that you can link to the LAN and its resources. Or you can jump on the Internet or LAN by dialing up, using your Bluetooth mobile phone.

Simple Synchronicity

With a 3Com Wireless Bluetooth PC Card or USB adapter, synchronizing the calendar and contact lists on your notebook or desktop and Bluetooth handheld or Bluetooth mobile phone is a snap. There are no connecting cables or line-of-sight requirements to complicate the update.

Walk-Up Printing

When you choose our Bluetooth printer adapter, you get the convenience of wireless printer sharing, Bluetooth connections for existing and new printers, and an extraordinarily fast and easy setup. Just connect our Bluetooth printer adapter to the parallel port on your printer, and follow the simple installation instructions. Then print from your Bluetooth-enabled PC or PDA.

The Bluetooth
SIG Ensuring
Cross-Vendor
Interoperability

The Bluetooth specification was developed by a special interest group (SIG) that's supported by nine promoter companies—3Com, Ericsson, IBM, Intel, Agere, Microsoft, Motorola, Nokia, and Toshiba. Today, more than 2,000 adopter companies embrace the

standard and are rapidly developing Bluetooth products. By 2005, more than 670 million devices will be equipped with Bluetooth wireless technology, providing a basis for wireless connectivity and information exchange (Cahners In-Stat Group, 2001).

Bluetooth/Wireless LAN Co-Existence

The Issues

Can Bluetooth and 802.11b co-exist? Yes. However both technologies operate in the 2.4 GHz spectrum, so interference can occur. Although the potential for interference is very low, there is a possibility that the two technologies may interfere with one another when they're simultaneously transmitting in close proximity. Interference typically appears as an interruption of the 802.11b signal with performance degradation, but no physical damage to either system. Moving devices further apart usually solves the problem.

Resolving the Issues

As a member of the Bluetooth SIG, WECA, and the IEEE, 3Com is working with other industry leaders to develop technology that will reduce and eventually even eliminate interference between Bluetooth and Wireless LAN.

There's no reason to hesitate deploying either technology. 3Com is committed to the future of both the Bluetooth and 802.11b standards and is actively researching additional techniques to ensure coexistence.

Product Features

Simplicity

| | |
|---------------------------------|--|
| Bluetooth Connection Manager | Provides automatic discovery and point-and-click management of devices, resources, and services. |
| Drag-and-drop file sharing | Makes information sharing simple—enhancing collaboration and productivity. |
| Wireless device synchronization | Updates contact databases and calendars on Bluetooth devices quickly and conveniently. |
| Simple printer setup | Equips printers with Bluetooth connectivity in just minutes. (printing kit only) |

Reliability

| | |
|---|--|
| XJACK antenna (PC Card only) | Delivers clear, interference-free reception—under optimal conditions—in a durable, retractable design. |
| Unique form factor (USB adapter and printing kit) | Provides Bluetooth connectivity to notebooks and desktops with a USB port. |

Security

| | |
|----------------------------|---|
| 128-bit encryption support | Lets users exchange information in privacy. |
| Physical authentication | Identifies individual Bluetooth devices by their unique addresses and PINs. |
| User-level authentication | Keeps information secure by enabling users to create usernames and passwords. |

Compatibility

| | |
|--|--|
| Wireless dial-up Internet and LAN connectivity | Connects to the Internet or LAN through Bluetooth cellular phones or through Bluetooth LAN public access devices. |
| Software and firmware upgradeable | Updates your 3Com Wireless Bluetooth client products with downloadable flash applications. |
| Bluetooth 1.1-compliant data stack | Supports interoperation with all current and pending Bluetooth 1.1-compliant devices and applications. |
| Windows OS support | Supports Windows 98 SE, 2000, XP, and Me operating systems. |
| Wireless printing (printing kit only) | Enables walk-up printing from any printer with a parallel port. (Printing kit comes with printer adapter and with USB adapter for desktop or notebook PC.) |

Specifications

Standard Compliance

- Dial-up networking profile compliant
- Standards-based software architecture
- Bluetooth 1.1 compliant
- Service Discovery Protocol compliant
- Serial profile compliant
- Object Push profile compliant

Platform Requirements

PC Card

- Notebook PC with available Type II PC Card slot
- One of the following Windows operating systems:
 - Windows 98 SE
 - Windows 2000
 - Windows Me
 - Windows XP
 - Pocket PC 2000 and Pocket PC 2002

Printing Kit

- Printer with a parallel port
- USB Adapter requirements as listed below

USB Adapter

- Notebook or desktop PC with available USB port
- One of the following Windows operating systems:
 - Windows 98 SE
 - Windows 2000
 - Windows Me

RF Specifications

| Name | Characteristic | Value |
|-------------|---------------------------------------|---------|
| Antenna | Impedance | 50 Ω |
| | Peak Gain | 0 dBi |
| | Maximum SWR | 2:1 |
| Transmitter | Output Impedance | 50 Ω |
| | Nominal Output Power | 0 dBm |
| | Maximum SWR | 2:1 |
| Receiver | Impedance | 50 Ω |
| | Minimum Input Sensitivity (BER 0.1 %) | -70 dBm |

– Windows XP

System Requirements

Pentium processor or equivalent. 20 MB of hard drive space.

Ordering Information

| | |
|---|------------|
| 3Com Wireless Bluetooth PC Card | 3CRWB6096B |
| 3Com Wireless Bluetooth USB Adapter | 3CREB96B |
| 3Com Wireless Bluetooth Printing Kit | 3CRBB0196 |
| <i>Comes with printer adapter and USB adapter</i> | |



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To learn more about 3Com solutions, visit www.3com.com. 3Com Corporation is publicly traded on Nasdaq under the symbol COMS.

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