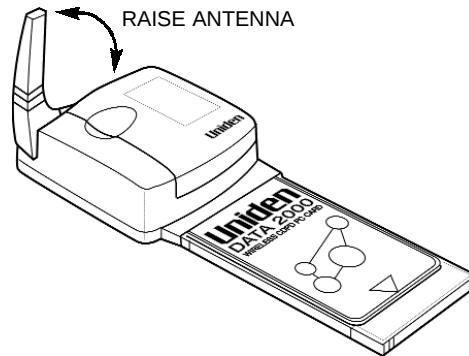


1 Uniden Data 2000 Introduction



Caution - Before operating this device, be sure to place the antenna in the vertical position. This offers the best performance of your modem, and, at the same time, reduces the risk of possible exposure to electromagnetic radiation emanating from the antenna.

The antenna must be maintained at least 4 inches (or 10 cm) from users and nearby persons to comply with FCC radiofrequency exposure limits (and to reduce the risk of RF radiation) when the DATA 2000 is in operation."

1-1 What is the Uniden Data 2000?

The Uniden Data 2000 is a wireless CDPD PC Card which enables most vendors' laptops, handheld computers, and Personal Digital Assistants with Type II PC Card slots to communicate with host-based applications such as web servers, intranet servers, databases, dispatch systems, and other host computer systems. The Uniden Data 2000 uses the Internet suite of protocols running over the CDPD (Cellular Digital Packet Data) system. The product is fully Windows compatible, supporting Windows 95, Windows NT, and Windows CE, and provides a Graphical User Interface (GUI) which offers the user simplified access to operational status and statistics, as well as the ability to configure, control, and monitor the performance of the device. The Uniden Data 2000's compact size makes it an easily portable communications tool that can be stored conveniently in a briefcase or purse when not in use.

1-2 What is CDPD?

CDPD or Cellular Digital Packet Data is a wireless, public access, packet data standard designed to operate over existing analog cellular phone systems. Since it is designed to use existing cellular phone systems, CDPD provides a large coverage area, low service pricing, and fast transaction execution. CDPD's primary benefit is quick, inexpensive, and efficient transmission of data packets over the existing cellular network. Additional benefits include built-in encryption for security (where applicable); a billing structure which charges for message size rather than on-line time (depending on individual service provider's service plans); forward error correction methods that reduce the effects of noise and interference on the airlink; and availability.

1.3 What is the PCMCIA Standard for PC Cards?

Over the past several years, mobile computers have experienced explosive growth. While prices have fallen sharply, features are becoming more advanced and reliability has been greatly improved. One of the most notable features of today's mobile computers is the PC Card slot. Over the last four years, the personal computer industry has rapidly adopted the PC Card slot feature, and today nearly 75 percent of laptops include a PC Card slot. This has been the driving force in the innovation and development of PC Card technology.

In 1989, an international standards body and trade association was founded, called the PCMCIA (Personal Computer Memory Card International Association.). This organization was founded in order to establish standards for Integrated Circuit cards and to promote interchangeability among mobile computers where ruggedness, low power, and small size are critical.

Even though PCMCIA is a rather young technology, it has been quickly adopted by every major personal computer manufacturer in the world. Since its inception, PCMCIA has published a PC Card Standard which contains all of the physical, electrical and software specifications for PC Card technology. This standard is in a constant state of improvement by the PCMCIA technical committee.

1.4 Product Highlights

- Compatible with most vendors' laptops, handheld computers and Personal Digital Assistants (PDAs) with PCMCIA Type II PC Card slots.
- Windows compatible (Windows 95, Windows NT, and Windows CE.)
- Graphical User Interface (GUI) provides simplified access to operational status and statistics, and allows the user to configure, control, and monitor the performance of the device.
- AT command interface allows the user to query status and statistics, change operational modes, and configure and control the device.
- External antenna connector allows a high gain antenna to be substituted for maximum performance.
- Full Duplex operation with CDPD System Specification Version 1.1.
- Data transfer via SLIP or PPP to a connected host, using the PCMCIA interface.
- Embedded TCP/UDP/IP stack from which an embedded application can achieve data transfer capability to the CDPD network.
- Embedded network connectivity application, for testing end-to-end connectivity.
- Maximum of 10 unicast Network Equipment Identifiers (NEIs) which can be stored and activated one at a time.
- Onboard battery for operation independent of host.
- External power option for desktop use.

▲ **Uniden Data 2000 Wireless CDPD PC Card**



1.5 Package Contents

- **Uniden Data 2000 Wireless CDPD PC Card:** The physical module containing all of the electronic and other hardware elements. (Includes the battery compartment, antenna and PCMCIA interface connector.) The PC Board is protected by a clam shell structure made from a 2-piece plastic sub-frame, molded together with a stamped stainless steel cover.
- **Installation Diskette:** **need info
- **Support Utilities Diskette:** **need info
- **Uniden Data 2000 Operation and Programming Guide**

1.6 Optional Accessories

- NiCd battery pack
- NiCd battery charger
- Antenna adapter (To allow use of high gain antenna.)

Warning: The antenna must be maintained at least 4 inches (10 cm) from the users and nearby persons to comply with FCC radio frequency exposure limits when DATA2000 is in operation.®