IBM Wireless Modem for Mobitex

Options by IBM; Communications



Highlights

The IBM Wireless Modem for Mobitex is a compact, high-speed PCMCIA radio modem transceiver designed for the mobile workforce. It provides wireless wide-area connectivity for portable computers. Utilizing the public Mobitex wireless data networks operated by RAM Mobile Data in the U.S., the user has access to seamless, nationwide* roaming. By providing reliable two-way communications for mobile workers, the IBM Wireless Modem for Mobitex opens new opportunities for wireless e-mail, fax, dispatch, and field force management as well as mobile messaging and corporate client/server applications.

Anytime, anyplace connectivity

- Nationwide* wireless communication
- Two-way messaging; direct response to requester; seamless roaming

Solution-oriented

- RAD-I/O enables any application to communicate wirelessly with a simple file-based protocol
- RAD-AT allows programs to use a standard AT interface for wireless communication
- DTS ZAP-IT allows users to send faxes, internet e-mail, pages, and other wireless messaging options

Multimode Support

- MASC protocol at 8 Kbps
- AT Command Set support for all data communications programs
- Utility to change the protocol as new features are added to RAM's networks

Features

- Type III PCMCIA adapter
- Low power design for extended operation
- Suspend/resume support to wakeup laptop to receive incoming messages
- Integrated battery minimizes system battery use
- Graphic support panel displays modem and radio coverage status

Network support

Before the Wireless Modem for Mobitex can be used, it must be activated and billing for air time must be arranged through the network provider. The Mobitex network in the US is operated by RAM Mobile Data, a company owned jointly by Bell South and RAM Broadcasting. Mobitex base station and switching equipment is already deployed in most U.S. cities and protocol conversion and gateway equipment that connects the radio switching equipment to the customers' in-house computer equipment is readily available. A high-availability land line network ties the infrastructure together. RAM Mobile Data's networks provide coverage to over 92 percent of the U.S. urban business population. Seamless roaming is a part of RAM's standard service, so subscriber address numbers are associated with users, not locations. The network will automatically find the user anywhere within the coverage area. The same modem that functions in New York will operate as soon as the user gets off a plane in California. All this is included at no extra cost.

Solutions for mobile professionals

- The IBM Wireless Modem for Mobitex provides access to wireless data communications, e-mail, and fax - all in a single easily installed package.
- Mobile professionals are less burdened by paperwork because they can access their electronic files from virtually anywhere even while in transit.
- Mobile workers will experience a dramatic increase in productivity with access to data, office based applications, fax, and e-mail all through the same portable computer.
- The IBM Wireless Modem for Mobitex enables new applications for the rapidly increasing mobile workforce.
- Customer satisfaction is improved because the records ”back at the office” can be accessed from wherever you are.
- Allows for the development of sales order input and confirmation applications as well as for field service and dispatch.
- Software shipped with the modem provide users with many functions right out of the box.
- Customers can select generally available portable computers and enable them to support wireless applications.

IBM quality guaranteed

All Options by IBM products are tested to IBM’s high-quality specifications. You can count on high performance and reliable service.

Modem for Mobitex

- **Part number**
  - 29H3880
- **Data transfer rate**
  - 8 Kbps
- **System slot**
  - PCMCIA Type III
- **System requirements**
  - Open PCMCIA Type III slots
  - Card and Socket Services
  - MS DOS 5.02 or higher, OS/2 Version 2.11 or higher

- **Physical specifications**
  - Digital Modem/RF Deck
    - 10.5 mm H x 54 mm W x 85.6 mm D
    - 57g
  - Battery assist and antenna
    - 127 mm H x 48 mm W x 33 mm D
    - 68g
- **Operating environment**
  - Temperature: -25° to 60°C
  - Relative humidity: 5% to 95%
  - Storage temperature range: -40° to 70°C
- **Electrical power**
  - 5.0 V from system unit (across PCMCIA)
  - Standby mode: Average power 20 mA
  - Transmit and receive mode: Average power 80 mA
  - Off mode: Average power 8 mA (battery trickle charge)
- **Radio characteristics**
  - Frequencies: 896 - 902 MHz and 935 - 941 MHz
  - Mode: Half duplex
  - Transmit power: 2 W transmit power controlled in 5 steps (0, -3, -5.2, -9, -15 db)
  - Receiver sensitivity: -113 dBm
  - Antenna: Microwave antenna
  - Antenna connector: 270° rotation
  - Channel separation: 12.5KHz
  - Max number of channels: 400
  - Channel selection: Automatic roaming
- **Warranty**
  - 1 year carry-in

Installation information

- **System**

  IBM Wireless Modem for Mobitex is compatible with all IBM and non-IBM machines with a PCMCIA Type III slot if they have an acceptable noise floor and a PC card utility that recognizes the modem.

- **Software/Operating systems**

  Microsoft Windows Version 3.11
  IBM DOS Version 5.02 or higher
  IBM OS/2 Version 2.11 or higher

For more information...

For more information or to order Options by IBM products, please contact your IBM marketing representative or the reseller nearest you. In Canada contact IBM Direct at 1 800 465-7999. Support and assistance are provided by the IBM Support Services at 1 800 237-5511, 24 hours/seven days a week (excluding certain holidays) at no additional charge during warranty*.

© *International Business Machines Corporation 1995*

IBM Networking Hardware Division
Department J09
P.O. Box 12195
Research Triangle Park, NC 27709

All Rights Reserved

References in this publication to IBM products or services do not imply that IBM intends to make them available outside the United States.

IBM, ThinkPad, OS/2, are trademarks of the IBM Corporation in the United States or other countries or both.
Microsoft is a registered trademark of Microsoft Corporation.
Mobitex is a registered trademark of Telia AB.
Windows is a trademark of Microsoft Corporation.

All other registered trademarks or trademarks, product and/or company names are of their respective companies.

** For information regarding the terms and conditions of IBM's limited warranty, and 30-day, money-back guarantee please call 1 800 772-2227. Copies of IBM's statement of limited warranty are available on request.*

IBM reserves the right to alter specifications and other product information without prior notice.

IBM Wireless Modem for Mobitex is made in Sweden.