Big performance in small packages

IBM International PC Card Modem with GSM Capability

- **K56Flex protocol download capability**

- **Data/fax application**

- **Analog PSTN, ISDN, and digital GSM capability**

- **MNP 2-4, MNP 10 and ITU-T V.42 error correction**

- **MNP 5 and ITU-T V.42bis data compression**

- **PCMCIA-to-RJ-11 cable and country-unique TeleAdapters for point-of-sale country**

- **Preconfigured modem for point-of-sale country**

- **Digital cellular capability for selected models of cellular phones**

- **IBM Internet connection package**

- **V.34 (33.6 Kbps) data and V.17 (14.4 Kbps) fax standard support**

International PC Card Modem with GSM

The IBM International PC Card Modem with GSM is ideal for mobile users who want GSM capability with K56Flex protocol,[1] plus data/fax capability. This modem combines ITU-T standard analog data/fax modem functions and digital GSM (PCS 1900) cellular capability in one PCMCIA card. The GSM capability is available through the purchase of an upgrade pack for any of the supported GSM cellular phones.[2]

Product Overview

Think anywhere

You can send e-mail or faxes, or connect to networks and databases while traveling with your ThinkPad® computer or other notebook computer. The International PC Card Modem has homologation approval for more than 70 countries and easy-to-use country-selectable software that allows mobile users to configure their systems to connect to the PSTN signal in many countries without additional hardware.

Be flexible

The International PC Card Modem offers convenience and flexibility by allowing you to add GSM and/or ISDN capability by purchasing two separate upgrade packs.[2]

Go wireless

GSM (GSM 900, PCS 1900, DCS 1800) cellular capability provides you the convenience and flexibility to travel internationally and send data or fax from country to country using the same modem.

V.90 upgrade

After IBM qualifies and confirms the upgrade for each modem model, you can get upgrades for the V.90 56K ITU-T[3] modem standard by downloading the appropriate files from the Options by IBM web site at *www.ibm.com/pc/us/accessories/ modems/56K.html.*

Move fast

Thanks to 56-Kbps protocol[1] technology, you can achieve data transmission speeds up to 33.6 Kbps as well as fast download speeds.

Positioning

The 56K International GSM PC Card Modem is intended for the mobile traveler who requires a high-speed analog data/fax modem and may require GSM (digital cellular data/fax capability) all on one card.

Benefits

The 56K International GSM PC Card Modem is easy to use. Just point and click on the country where you want to receive the public switched telephone network (PSTN) signal. This PC Card provides analog and digital cellular phone capability all on one card.

IBM International PC Card Modem with GSM Capability Specifications

Part number	02K4280
Cellular communication	Select Nokia, Panasonic, Alcatel, AEG, Matra, Nortel and NEC models
Error control	ITU-T V.42, MNP 2-4, MNP 10
Data compression	ITU-T V.42bis, MNP Class 5
Maximum throughput	230.4 Kbps, MNP 5
Protocol compatibility	Hayes Extended AT Command Set
Maximum data speed capability	
PSTN	K56Flex (up to 56 Kbps download); ITU-T V.34 Annex, V.32bis, V.32, V.23, V.22bis, V.22, V.21; Bell 212A, Bell 103
GSM (GSM 900, PCS 1900, DCS 1800)	GSM Upgrade Pack required[2]
ISDN	ISDN Upgrade Pack required[2]
Maximum fax speed capability	ITU-T V.17, V.29, V.27ter, V.21; Group 3 fax Class 1
Additional features	Firmware enhanceable; RJ-11 cable and country-unique TeleAdapter (where applicable for point-of-sale country); Software CD: Data/Fax Application Software, IBM Internet Connection with Netscape Navigator 3.0
Operating environment	Temperature: 0° to 45°C (32° to 113°F) operating Relative humidity: Up to 90% noncondensing
Agency approvals	FCC Part 15 Class B and Part 68; IEC 950; CE Mark, UL, CUL (CSA/NTRL/C)
Homologation approvals[4]	Austria, Canada, Denmark, Finland, Germany, Ireland, Italy, Netherlands, New Zealand, Norway, Sweden, Switzerland, U.K., U.S.A.
Limited warranty	5 years
Country of origin	U.K.
Installation information	
Non-IBM systems	PCMCIA 2.1, Type II or III slot
IBM systems	For the most up-to-date compatibility information, visit the Accessories & Upgrades Web site at *www.pc.ibm.com/us/accessories*
Software/operating systems	Windows® 3.11, Windows 95, Windows NT® 4.0
Hardware requirements	
System bay or slot	PCMCIA 2.1, Type II or III slot
Connectors/cables	PCMCIA-to-RJ-11 cable; country-unique connector (where applicable)

Key Customer Benefits

- Compatible with many popular data and fax communication software applications
- Includes a software country selector
- Uses a standard Hayes AT-compatible command set

Supplementary Information

The following sales tools are available for the IBM International PC Card Modem with GSM Capability:

- Specification sheet:
  IBM International PC Card Modem with GSM capability, G221-6130-01

- Information on the IBM International PC Card with GSM Capability is available at:
  www.pc.ibm.com/us/accessories.

[1] K56Flex modems are designed to receive data at speeds up to 56 Kbps from a K56Flex-compatible service provider and transmit data at speeds up to 33.6 Kbps. Public networks currently limit maximum download speeds to about 53 Kbps. Actual speeds depend on many factors and are often less than the maximum possible.

[2] GSM and ISDN upgrade packs must be acquired separately by the customer. To order these upgrade packs, call Psion in the U.S. at 978 369-0655 or in the U.K. at 44 1908-261686.

[3] The V.90 56K ITU-T standard is currently under development by multiple companies. Once completed, IBM will make a one-time software upgrade to the standard available to IBM customers if IBM believes the upgrade is necessary and/or useful.

[4] Check our Web site at *www.pc.ibm.com/accessories/modems/countries.html* for a current list of approved homologation countries.