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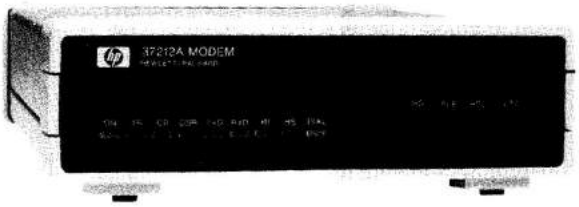
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COMPUTER PERIPHERALS

Dial-Up Modems

Models 37212A, 37213A/4A/5A/6A

- Auto-dial and auto-answer
- Automatic data-rate recognition and configuration
- Full duplex 1200 bps and 300 bps on dial-up lines
- Compatible with Bell 212A and CCITT V.22
- Central site and stand-alone versions
- Local analog and remote digital loopback



HP 37212A

Dial-Up Modem Family

The need for computers to communicate over long distances has increased rapidly over the last few years. The increased reliance on data communications has made it essential for modems to be able to operate completely unattended.

To facilitate this requirement, HP now provides a family of dial-up modems all of which are designed for full duplex operation over the Public Switched Telephone Network. The modems all conform to Bell-212A and CCITT V.22 standards for communication at 1200 bps or 300 bps.

Automated Features

In order to benefit from completely unattended operation, all HP modems have auto-dial, auto-answer, and automatic data-rate recognition and configuration.

Which Modem Should You Use

The HP 37212A is a stand-alone modem with integral power supply. Modem control lines are not required, hence this modem is ideal as a universal modem for use with any computer, terminal, or any other device which uses an RS-232C/V.24 interface.

The HP 37213A/4A/5A/6A Systems Modem is designed specifically for use with HP 1000 A/L-Series and M/E/F-Series computers. The Systems Modem is based on a rack which will hold up to seven modem or other interface cards and is ideal for larger systems and for systems where the number of I/O slots in the computer is limited.

HP 37212A Stand Alone Modem

The HP 37212A is an "intelligent" stand alone modem incorporating a microprocessor to provide modem control and auto-dial facilities for HP interactive display terminals, calculators and computers which do not support switched line modems via RS232C/V.24. Either synchronous or asynchronous communication can be conducted. Commands are passed from a terminal or computer through the RS232C/V.24 interface (using secondary TxD as an asynchronous command channel in the case of synchronous operation). The HP 37212A can also operate on leased lines.

In addition to the commands available through the interface, the HP 37212A can also be operated in 'Dumb' mode, from the front panel. Non-volatile storage is provided for modem configuration and for 23 74-character strings which can be used for telephone numbers and log-on sequences. The strings can be linked together to provide completely automatic connection and log-on. A telephone is not required, but a second telephone connector is provided on the rear panel to allow one to be connected in parallel with the modem. The modem contains an integral power supply for ac operation, and also can operate from a dc supply where ac power is unavailable, e.g., telecoms and medical applications.

HP 37213A/4A/5A/6A Systems Modem

The Systems Modem is designed for use with all HP 1000 Computers and communicates with the computer through an 8-channel multiplexer (HP 12040B in A/L-Series or HP 12792B in M/E/F-Series) and a single multiway cable.

HP 37214A Modem Interface Card Cage

The Systems Modem is based on the HP 37214A Card Cage. This has space for up to seven modem or other interface cards in any combination. The eighth slot of the Card Cage is reserved for use by the integral controller and dialer which communicates with the user program by simulating an interactive display terminal. The controller and dialer provide the control signals, the pulse and DTMF dialing control, and loopback control for up to seven modem cards. Local analog loopback or remote digital loopback may be selected under program control to allow a user program to pass data and to check the integrity of the looped modem link. Also a local diagnostic terminal port enables monitoring of all the modem interface lines for diagnostic purposes.

HP 37213A Modem Card

The HP 37213A is a single card modem. As with the HP 37215A/6A, it plugs into the HP 37214A Card Cage. It communicates with Bell 212A compatible modems at 1200 or 300 bps and with any CCITT V.22 (Alternatives A and B) compatible modem at 1200 bps. Asynchronous or synchronous communication is supported. The HP 37213A is also compatible with the Vadic 3450 Series Triple Modem. The Modem can perform both pulse and DTMF (tone) dialing under user program control. Two interfaces are provided, one for the 8-channel Multiplexer and one for an RS232C port for applications that either do not use a Multiplexer or require synchronous communication. Local analog or remote digital loopback may be performed under user program control.

HP 37215A Modem Interface Card

For applications where a PTT supplied modem must be used or where a modem is already available, an HP 37215A Modem Interface Card may be used in place of an HP 37213A Modem Card. The HP 37215A provides buffered RS232C and V.24/V.28 compatible lines for controlling all common switched line, full-duplex modems. Loopback of most external modems may be performed under user program control. The Modem Interface Card also provides auto-configuration of port speed with auto-answer modems. Auto-dialing is not possible when using external modems.

HP 37216A Terminal Interface Card

The HP 37216A allows direct connection of local interactive display terminals to unused Multiplexer ports. With the Terminal Interface Card, one local terminal can be connected to one port of the 8-channel Multiplexer via a standard 25-pin D-type connector.

Ordering Information

HP 37212A Stand Alone Modem
HP 37213A Modem Card
HP 37214A Modem Interface Card Cage
HP 37215A Modem Interface Card
HP 37216A Terminal Interface Card

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