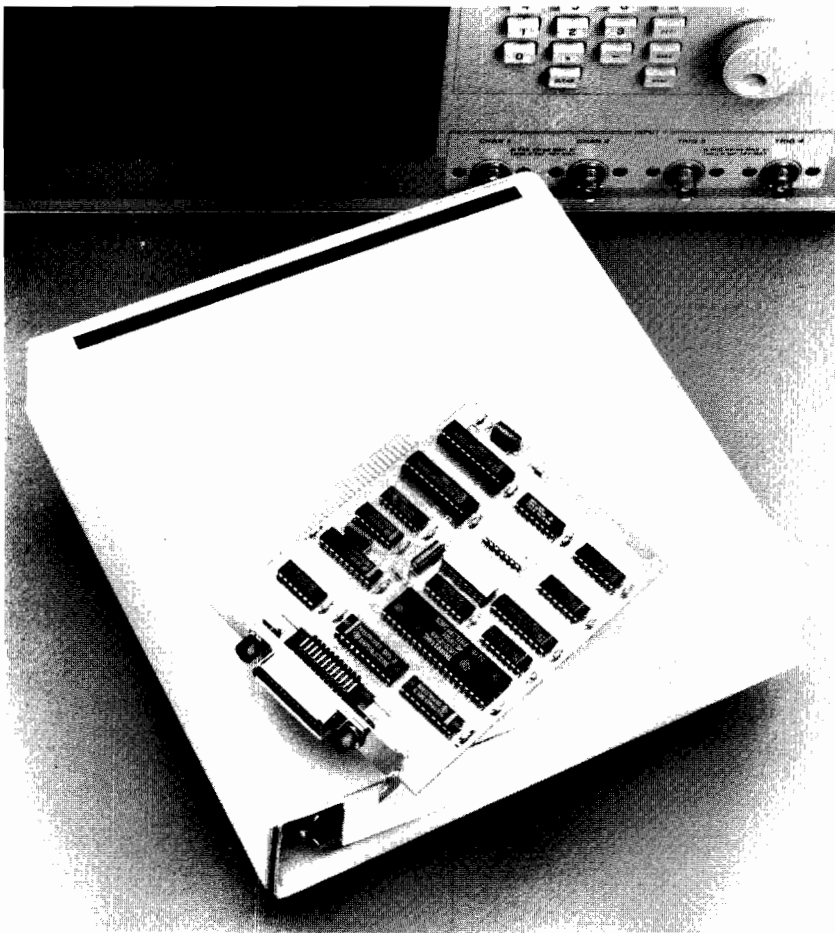


HP 82335A HP-IB Interface and Command Library

Technical Data*

**for HP Vectra Series,
IBM PC, PC XT, PC AT
and IBM compatibles.**



The Hewlett Packard HP-IB Interface and Command Library for MS-DOS® computers provides instrument control capability for the HP Vectra Series as well as the IBM PC, PC XT, PC AT and all true IBM PC compatibles computers. The HP-IB Command Library includes support for all of the most popular programming languages and an HP-IB peripheral driver which provides support for HP-IB printers and plotters.

The HP-IB Command Library lets you include commands in your BASIC, Pascal or C programs to control HP-IB instruments, and provides the capability for high-speed string and binary data transfers using DMA.

Feature	Benefit
End-of-the line interrupt support	Reduces the size of the required code and increases execution speed for branch on interrupt ability
Unformatted binary data transfers	Transfer large blocks of data from instruments to the PC without first converting the raw binary data to ASCII format. Complies with the IEEE-488.2 specification.
Peripheral driver	Redirect output from serial and parallel ports to HP-IB port.
Automated installation	Easy installation procedure. Simply type "install".

* Data subject to change without notice.

Command Listings

Ten commands allow you to enter and output ASCII strings, real numbers and arrays of real numbers. They are:

IOENTER - Reads a single real number from a device.

IOENTERA - Reads an array of real numbers.

IOENTERAB - Is used to enter unformatted data compatible with the IEEE-488.2 binary data format.

IOENTERB - Used to enter data in any format your device can use.

IOENTERS - Reads a character string from a device.

IOOUTPUT - Outputs a real number to a specified device.

IOOUTPUTA - Outputs an array of real numbers to a device.

IOOUTPUTAB - Used to output unformatted data compatible with the IEEE-488.2 binary data format.

IOOUTPUTB - Used to output data in any format you desire.

IOOUTPUTS - Outputs an ASCII string to a device.

Other commands provide access to individual control lines and bus commands. They are:

IOABORT - Aborts all interface activity.

IOCLEAR - Returns a device to a known state.

IOCONTROL - sets certain status conditions of the interface.

IODMA - Used to setup DMA transfers.

IOEOI - Enables/disables the End-or-Identify (EOI) mode for transferring data.

IOEOL - Used to define the End-Of-Line (EOL) string for output.

IOFASTOUT - Enables or disables high speed timing when outputting data.

IOGETTERM - Determines the reason for a read termination.

IOLLOCKOUT - Used to send a Local Lockout (LLO) to disable front panel operation.

IOLOCAL - Enables device front panel operation.

IOMATCH - Used to define the character which is used to terminate the **IOENTERS** and **IOENTERB** commands.

IOPEN - Will cause an SRQ to generate an interrupt in BASIC.

IOPOLL - Performs a parallel poll.

IOPOLLC - Used to prepare an instrument for a parallel poll command.

IOPOLLU - Used to unconfigure an instrument for a parallel poll.

IOREMOTE - Used to place a device into its remote mode.

IORESET - Sets the interface to its power-up state.

IOSEND - Sends user-specified HP-IB commands.

IOSPOLL - Performs a serial poll of a device.

IOSTATUS - Determines the status of the bus.

IOTIMEOUT - Sets a timeout value.

IOTRIGGER - Triggers a device.

Printers and Plotters

The HP 82335A Command Library includes the HP-IB Peripheral driver. This driver adds HP-IB capability directly to the DOS operating system. You can redirect output from both COM and LPT ports to an HP-IB printer or plotter.

Systems Requirements

The HP-IB Command Library must have at least 256 Kbytes of system memory available and be running DOS 3.1 or higher.

Supported Languages

Vectra BASIC	3.11,3.22
GW BASIC	3.11,3.22
BASICA	3.11,3.22
Microsoft® QuickBASIC	3.0,4.0,4.5
Microsoft Compiled BASIC	6.0
Microsoft Pascal	3.32,4.0
Borland Turbo Pascal	4.0,5.0,5.5
Borland Turbo C	2.0
Microsoft C	4.0,5.0,5.1
Microsoft Quick C	1.01,2.0

Ordering Information*

HP 82335A - HP-IB Interface and Command Library for the Vectra Series, IBM PC,PC XT, PC AT and true compatibles. Supports HP-IB instruments, printers and plotters. Includes HP-IB interface card, HP-IB Command Library on 5 1/4 inch and 3 1/2 inch media.

HP 82335A Option 001 - HP-IB Command Library. Includes all of the above except for the interface card.

HP-IB Cables

HP 10833A	1 Meter HP-IB Cable
HP 10833B	2 Meter HP-IB Cable
HP 10833C	4 Meter HP-IB Cable
HP 10833D	5 Meter HP-IB Cable

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- * HP-IB disk and tape support and HP PC Instrument Support have been removed and are not supported.