
HP 83224A IBASIC Developers Tool Kit for RF Communication Test Sets

Product Overview

- Efficiently develop your IBASIC programs for the HP 8920A, 8920B, and 8921A test sets
- Easily create your own IBASIC code, procedures and libraries
- Modify HP 11807 software to customize code for your own application
- Convert your HP 8920A IBASIC programs to the HP 8920B PCMCIA format

Simplify your IBASIC development

The HP 83224A is an easy-to-use software tool that runs in HP BASIC for Windows and allows you to create IBASIC programs for the HP 8920 family of test sets. For simple applications, you create program files in HP BASIC for Windows, then use the HP 83224A software to download the files to the test set for final debugging.

For more complex programs that use IBASIC procedures and libraries, you fill out tables of data in the HP 83224A and the software creates and downloads the files to the test set.

Compatible with the HP 8920 and HP 8921 test sets

The HP 83224A supports IBASIC development for the HP 8920A, 8920B, 8920D, 8921A, plus the various cellular adapters such as HP 83201 and HP 83204A TDMA cellular adapters and HP 83203 and HP 83205A CDMA cellular adapters. This flexibility is especially important for developers who need to convert their HP 8920A IBASIC programs to the HP 8920B PCMCIA format.

Simplify your IBASIC development

Use your PC as an IBASIC development environment

One of the best techniques to develop IBASIC programs for your test set is to first develop the program in a PC and download the code to the test set for final debugging. This is most efficient when the programming language in the PC is the same as the IBASIC language used in the test set. For this reason, we recommend using HP BASIC for Windows to develop your program files, and we require you to use HP BASIC for Windows to run the HP 83224A development software. To simplify ordering, the HP 83224A Option 001 is a kit which includes the development software plus HP BASIC for Windows and the HP 82335B HP-IB interface card.

Modify your HP 11807 software

For many developers, the quickest solution to an IBASIC programming problem is to modify one of HP's existing HP 11807 software packages. The HP 83224A software can easily upload the HP 11807 code, procedure, and library files from the test set to the PC. The developer then modifies the files in the PC and downloads them back into the test set for final debugging. Because the HP 11807 software contains some IBASIC specific commands that are not compatible with HP BASIC, the HP 11807 programs can be edited on the PC but they must be downloaded back into the test set to be run and debugged.

Convert your HP 8920A programs to the HP 8920B format

Many users who developed custom IBASIC software or procedures for the HP 8920A are now using the HP 8920B and need to convert their old programs to run in the new HP 8920B environment. For converting procedures and libraries, the HP 83224A software contains a special 'Transfer' program that is automatically loaded into the test set IBASIC controller. This transfer program determines the model number of the test set and will automatically store procedure and library files in the correct format. Code files transferred from the HP 8920A to the HP 8920B will generally require some small changes to account for speed improvements, the PCMCIA format, and subtle changes in the test set operation. These changes are not automatic; however, the HP 83224A software simplifies the upload and download process and the developer can be debugging code on the HP 8920B within a matter of minutes.

Choose the option configuration you need

The HP 83224A can be ordered as a bundled developer's kit or as software and manual only. The kit contains the following items:

HP 83224A - Option 001

- Custom IBASIC development software
- HP BASIC for Windows (HP E2060A)
- HP-IB interface card (HP 82335B)
- Two meter HP-IB cable (HP 10833B)
- Programmer's guide

For developers who already own a PC with HP BASIC for Windows and an HP-IB card, the software and manual can be purchased separately as:

HP 83224A - Option 002

- Custom IBASIC development software
- Programmer's guide

Ordering Information

Minimum PC configuration for HP BASIC for Windows:

- 386 CPU or better
- DOS 5.0 and Windows 3.1 or later
- 4 MBytes of disk space
- 4 MBytes of RAM (8 MB recommended)
- 3 1/2 inch floppy drive

Selecting an HP-IB interface card

The HP-IB interface card supplied with the HP 83224A Option 001 is the HP 82335B. HP BASIC for Windows also supports other HP-IB cards such as HP 82340A/B and NI AT-GPIB.

For additional information about HP-IB cards and requirements for HP BASIC for Windows, refer to HP documentation part number 5962-7100.

Memory Cards

To store your new programs, procedures and libraries, you will need blank RAM memory cards for your test set. The following RAM cards are available from Hewlett-Packard.

Memory Cards for HP 8920A, 8920D, and 8921A

- 85704A** 256 kbytes SRAM card with battery
- 85705A** 512 kbytes SRAM card with battery

PCMCIA memory card for HP 8920B

- 83231A** 1 Mbytes SRAM card with battery

Option Configurations

HP 83224A - IBASIC Developers Tool Kit

- Opt. 001** Bundled kit including software, manual, HP BASIC for Windows, HP-IB interface card, and a cable
- Opt. 002** Software and manual only

NOTE: You must order either Option 001 or 002 but not both.

For more information call 1-800-452-4844 or 1-303-452-4844 or via the Web through Access HP at <http://www.hp.com>

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