Agilent 83224A

IBASIC Developers Tool Kit for RF Communication Test Sets

Product Overview

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

Simplify your IBASIC development

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

Compatible with the 8920 and 8921 test sets

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

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 BASIC for Windows to develop your program files, and we require you to use BASIC for Windows to run the 83224A development software. To simplify ordering, the 83224A Option 001 is a kit which includes the development software plus BASIC for Windows and the 82335B GPIB interface card.

Modify your 11807 software

For many developers, the quickest solution to an IBASIC programming problem is to modify one of Agilent's existing 11807 software packages. The 83224A software can easily upload the 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 11807 software contains some IBASIC specific commands that are not compatible with BASIC, the 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 8920A programs to the 8920B format

Many users who developed custom IBASIC software or procedures for the 8920A are now using the 8920B and need to convert their old programs to run in the new 8920B environment. For converting procedures and libraries, the 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 8920A to the 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 83224A software simplifies the upload and download process and the developer can be debugging code on the 8920B within a matter of minutes.

Choose the option configuration you need

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

83224A Option 001

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

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

83224A Option 002

- Custom IBASIC development software
- Programmer's guide

For more product information call
1-800-452-4844 or visit our web site at:
www.agilent.com/find/8920support/

Ordering Information

Minimum PC configuration for 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)
- 3½ inch floppy drive

Selecting a GPIB interface card

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

For additional information about GPIB cards and requirements for BASIC for Windows, refer to 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 Agilent.

- **Memory Cards for 8920A**
  - **85704A** 256 kbytes SRAM card with battery
  - **85705A** 512 kbytes SRAM card with battery
- **PCMCIA memory card for 8920B**
  - **83231A** 1 Mbyte SRAM card with battery

Option Configurations

83224A IBASIC Developers Tool Kit

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

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

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