Products: All controllers with WinNT, Win95 / 98 and Win3.x and GPIB boards, PSM, PSP

GPIB-Bus Device Finder
GPIBFind

This application note introduces the program GPIB-Bus Device Finder GPIB FIND. The GPIB-Bus Device Finder GPIB FIND helps you identify the devices connected to a GPIB (IEC or IEEE) bus. It shows the addresses of these devices and their response to the identity query (*idn?).

Additionally GPIB FIND helps you to locate GPIB problems with GPIB card installation, incorrect address setting or broken cables.

GPIB FIND includes an additional program to send (write) a message to a device or to receive (read) a message from the device.

ROHDE & SCHWARZ

Contents

1   Overview

This application note introduces the program GPIB-Bus Device Finder GpibFind which helps to identify all devices connected to a GPIB (IEC or IEEE) bus. It shows the addresses of these devices and their response to the identity query (*idn?).

Additionally GPIB FIND helps you to locate GPIB problems such as:

- incorrect GPIB card installation

- incorrect address setting

- broken cables

GpibFind includes an additional program to:

- send (write) a message to a device

- receive (read) a message from the device

The program comes complete with a comprehensive help system. Additionally a user manual is included in PDF format as **GPIBFind.pdf**.

2   Software Features

GPIB FIND provides functions for GPIB address finding as follows:

- list the installed GPIB boards (up to 4 boards)

- select the GPIB board to test

- display GPIB status bytes

- display errors if test fails.

3   Hardware and Software Requirements

Hardware Requirements

The program will run on any IBM AT compatible computer with

- CPU: Pentium 133MHz or better
- RAM: > 64 Mbyte
- Monitor: SVGA color monitor minimum 800x600, recommended 1024x768
- GPIB: GPIB (IEEE) -bus card Rohde & Schwarz: IEEE 488.2 Bus Interface PS-B4, 1006.6207.04or National Instruments AT-GPIB / TNT or National Instruments PMCIA

Software Requirements

- Windows 95/98/NT/2000/XP
- GPIB (IEC) -bus driver for Windows from National Instruments (appropriate to operating system)

4   Installing the Software

GPIBFIND is supplied as a packed file.

Downloading:

- for Windows 95/98 and for Windows NT download **IBFind32.exe**

Run the downloaded EXE file.

The following 3 files are expanded to the chosen directory on your hard disk:

Win95/98/NT	*Win 3.1*
`IBFind32.001`	`IBFind16.001`
`IBFind32.002`	`IBFind16.002`
`setup.exe`	

Installation:

To install GPIB FIND run **setup.exe** from the hard disk.

The setup program prompts you to select an installation directory. Once the setup program has run the GPIBFind directory is created, containing the following files:

Win95/98/NT	*Win 3.1*
uninst.exe	uninst.exe
uninst.lrm	uninst.lrm
IBFind32.exe	IBFind16.exe
IBFind32.uir	IBFind16.uir
IBFind32.HLP	IBFind32.HLP
visa32.dll	visa.dll

Creating Installation Disks

If you want to create installation disks you will need two 3.5" disks.

Copy:

IBFind**.001 and setup.exe to Disk 1

IBFind**.002 to Disk 2

To install GPIB FIND from the disks, insert Disk 1 in the disk drive and start setup.exe.

5   Starting the Software

Start the program with:

Start / Programs / GPIBFind / GPIBFind or double click on GPIBFind in the installed directory.

The main menu appears.

Start here:

6   Ordering information

The Program runs best on the Rohde & Schwarz Industrial Controllers:

Industrial Controller
PSM12	1016.5004.20
PSM17	1016.5004.70

Portable Industrial Controller
PSP2	1099.6002.20
PSP7	1099.6002.70

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