



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.



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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, 1006.6207.04 or 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

IBFind32.001
IBFind32.002
setup.exe

Win 3.1

IBFind16.001
IBFind16.002

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

uninst.exe
uninst.lrm
IBFind32.exe
IBFind32.uir
IBFind32.HLP
visa32.dll

Win 3.1

uninst.exe
uninst.lrm
IBFind16.exe
IBFind16.uir
IBFind32.HLP
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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