

General Semiconductor Catalog

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GENERAL SEMICONDUCTOR CATALOG 'Readme.txt' FILE

INTRODUCTION

Thank you for using the General Semiconductor CD-ROM.

The General Semiconductor Catalog software engines utilize the best features of two powerful software technologies - Database Technology and Electronic Document Facsimile Display Technology.

By merging the strengths of both database and electronic document

facsimile display technology, we believe that the General Semiconductor Catalog provides an exceptionally useful component selection tool for designer engineers, technicians, and purchasing agents.

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IMPORTANT INFORMATION FROM GENERAL SEMICONDUCTOR

General Semiconductor reserves the right to make changes to any product in this catalog to improve reliability, functional characteristics or design without notice. General Semiconductor does not assume any liability arising out of the application or use of any product described in this catalog.

General Semiconductor advises its customers to obtain the latest version of device information before placing orders to verify that the required information is current. Visit our Web site at 'www.gensemi.com'.

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TECHNICAL DETAILS

Database technologies are useful in searching and sorting through large amounts of formatted data but require that document data be pre-processed and put in a pre-defined format. Database technologies do not process the information in graphic images for data searches and generally do not display graphics images as well as other graphic oriented programs.

Electronic document facsimile display technology can be used to display an exact replica of a printed document on a PC monitor screen. This technology uses sophisticated data compression algorithms to store the equivalent information from a complex printed page into a relatively small electronic file. With existing computer hardware, this technology excels at displaying relatively small segments of an equivalent printed page in a full screen mode. The document viewer that accompanies this CD (i.e. Adobe Acrobat Reader) does an excellent job of printing full-page hard copy

representations of these pages. However, graphics limitations of PC hardware and the search limitations associated with free form text limit the practical usefulness of this technology in selecting a component.

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COMPUTER COMPATIBILITY ISSUES

As with all software today, there may be some computers that have difficulty running this software. This can be due to the type of hardware used in your computer or can be the result of unforeseen interactions with other software.

The General Semiconductor Device Selection Wizard uses one of Microsoft's premier database applications languages. Separately, the Device Wizard and Adobe Acrobat Reader can be made to run on virtually all Windows 3.1x, Windows 95, and Windows NT4.0 computers. Sometimes adjustments need to be made to the operating systems, the system memory settings, the video adapter drivers and other computer system settings. The user may not want to make adjustments to their system because of compatibility issues with other software running on the user's system.

Minimum memory requirements are for 8 megabytes of RAM memory. The catalog will operate better if the system has at least 12 megabytes of memory.

During the installation process up to 15 megabytes of hard disk space may be temporarily needed. Depending on the options selected by the user during the install, the catalog can occupy from 7 to 15 megabytes of hard disk space when the installation is complete. The catalog files are installed in the GenCat directory off the root of the hard drive. This directory can be deleted if you no longer wish to use the catalog.

Due to the large number of possible combinations of hardware and software with potential compatibility issues, the General Semiconductor Catalog CD-ROM has 4 different modes of operation. These different modes utilize different underlying software tools to assure some

compatibility with most systems currently in use.

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DISPLAY COLOR/VIDEO ADAPTER COMPATIBILITY ISSUES

Significant efforts have been made to make the contents of this catalog available in a user-friendly manner to all end users. Despite these efforts, some hardware/software combinations may result in display problems.

Certain combinations of computers, video display adapter hardware and software settings may cause unusual color combinations to appear on the screen in displaying some of the catalog images. These unusual color combinations have no impact on the search capability of this catalog program. In addition, these color issues do not effect any of the numerical data included on the catalog datasheets.

These color issues can often be corrected by changing the display adapter properties. Switching from 256 color (8-bit) mode to High Color (16-bit) or True Color (24-bit) may correct any unusual color effects. Windows 95 users can switch display modes by clicking on the 'Start' button and then selecting the 'Settings' option. Next select 'Control Panel'. In 'Control Panel' select the 'Display' icon. In the Display panel select the 'Settings' tab in the upper right corner and adjust the 'color palette setting shown on the screen.

If these software adjustments do not remedy the color issues, consider upgrading your display adapter hardware. It may be possible to remedy these unusual color effects by upgrading the display adapter card BIOS from your display adapter board manufacturer.

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4 MODES OF OPERATION

The General Semiconductor CD Catalog has four different modes of operation. Due to the diversity of computer systems currently in use, it is difficult to develop complex, image-intensive software that

runs on all computers all the time. To better serve catalog users, we have included 4 modes of operation:

1. Device Selection Wizard Linked to Adobe Reader (recommended)
2. Device Selection Wizard by Itself without Adobe Reader
3. Adobe Reader by Itself without the Device Selection Wizard
4. Spreadsheet (MS Excel and Lotus 1-2-3 compatible)

In each of these four modes, the user will have the ability to select any of General Semiconductor's devices. In the modes in which Adobe Reader will function, the user can view and print any of the General Semiconductor datasheets.

MODE I

To initiate Mode I operation, run the install program found on the CD-ROM.

Windows 95 Users

Perform the following steps to install the General Semiconductor Catalog program on a computer running Microsoft Windows 95 operating system:

1. Insert the CD-ROM into the CD-ROM drive.
2. Select the Windows 95 Start button.
3. Select Run.
4. Enter the CD-ROM drive letter followed by
'\:\Install\Setup.exe'
(e.g. 'D:\Install\Setup.exe').
5. Follow the instructions on the screen.
6. To use the General Semiconductor Catalog program, select Start, then Programs. Find the General Semiconductor Program Group and double-click on the Catalog icon.

Window NT Users

Follow the same instructions listed above for Windows 95 users.

Windows 3.1x Users

Perform the following steps to install the General Semiconductor Catalog program on computers running any of the Microsoft Windows 3.1x operating systems:

1. Insert the CD-ROM into the CD-ROM drive.
2. From the Program Manager's top line menu, select the 'File' option.
3. Next select the 'Run' option.
4. In the Command box, enter the CD ROM drive letter followed by '\Install\Setup.exe' (e.g. D:\Install\Setup.exe).
5. Press the Enter Key to begin the install procedure.
6. Follow the instructions on the screen.
7. To use the General Semiconductor Catalog program, double click on the Catalog icon in the General Semiconductor Group.

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MODE II

If the user does not want to install Adobe Reader 3.0 or can not make Adobe Reader 3.0 operate on their machine, the Device Selection Wizard will gracefully not utilize the Reader datasheet display. This will allow the user to continue to make selections of devices with the Device Selection Wizard but not view or print the complete datasheet. With the Feature Summary button, the user will be able to view the 4-7 most important, 'highlight features' for each device.

MODE III

If the user does not want to install the Device Selection Wizard application, but already has Adobe Reader installed on their machine or decided to install Adobe Reader 3.0 from the General Semiconductor Catalog CD-ROM, then the datasheets, selection guides, and general

information can still be viewed and printed. The user would start the Adobe Reader program and then open the file CATALOG.PDF located in the \GENCATCD\PDFS\ folder on the CD-ROM. This Adobe PDF file is self-explanatory and contains links to all of the selection guides, datasheets and general information.

MODE IV

This is a Microsoft Excel spreadsheet that can be used to view 5 to 7 key features of each device on the General Semiconductor catalog. The Excel spreadsheet file can also be viewed byh Lotus 1-2-3. This file is located on the CD-ROM in the directory \GENCATCD\WRKSHEET.

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INSTALLATION PROCEDURE FOR THE GENERAL SEMICONDUCTOR CATALOG

To fully utilize the General Semiconductor catalog program, small parts of the program must be installed onto the users hard disk drive. The installation program will create a folder for these parts of the General Semiconductor Catalog program on your computer. Before proceeding, Windows users must determine the drive letter of their CD-ROM drive. For example, on many computers the CD-ROM drive is the computer's 'D:' drive.

Windows 95 Users

Perform the following steps to install the General Semiconductor Catalog program on a computer running Microsoft Windows 95 operating system:

1. Insert the CD-ROM into the CD-ROM drive
2. Select the Windows 95 Start button
3. Select Run
4. Enter the CD-ROM drive letter followed by
':\Install\Setup.exe'
(e.g. 'D:\Install\Setup.exe')
5. Follow the instructions on the screen.

6. To use the General Semiconductor Catalog program, select Start, then Programs. Find the General Semiconductor Program Group and double-click on the Catalog icon.

Window NT Users

Follow the same instructions listed above for Windows 95 users.

Windows 3.1x Users

Perform the following steps to install the General Semiconductor Catalog program on computers running any of the Microsoft Windows 3.1x operating systems:

1. Insert the CD-ROM into the CD-ROM drive.
2. From the Program Manager's top line menu, select the 'File' option.
3. Next select the 'Run' option.
4. In the Command box, enter the CD ROM drive letter followed by '\Install\Setup.exe' (e.g. D:\Install\Setup.exe).
5. Press the Enter Key to begin the install procedure.
6. Follow the instructions on the screen.
7. To use the General Semiconductor Catalog program, double click on the Catalog icon in the General Semiconductor Group.

ADOBE READER 3.0 INSTALLATION

The normal catalog installation procedure provides an option to automatically install Adobe Reader while installing the other parts of the catalog program. If you need to separately install Adobe Reader 3.0, select one of the following procedures based on your computer's operating system.

If you are using the Win 95 operating system, select the Windows 95 'Start' button and then select 'Run'. Enter the CD-ROM drive letter followed by ':\\Install\\Adobe30Win95\\ar32e301.exe'.

If you are using one of the Win 3.1x operating systems, select 'File' from the top line menu and then select 'Run'. In the Command box, enter the CD ROM drive letter followed by ':\\Install\\Adobe30\\Win31\\ar16e301.exe'

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VIEWING CATALOG DATASHEETS WITHOUT THE DEVICE WIZARD

Insert the General Semiconductor Catalog CD-ROM into the CD-ROM drawer. Run the Adobe 3.0 Reader application program. From the top line menu of Adobe Reader, select 'File' and then select 'Open'. Locate the folder '\\Gencatcd\\pdfs\\' and click on the 'Catalog.pdf' file.

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WINDOWS 3.1X USERS AND WIN32S

Installation and System Rebooting

The installation of the General Semiconductor Catalog on Windows 3.1x operating systems will require a "re-boot" of the system. To assure that the entire installation process is completed properly, a special program is temporarily added to the Windows 3.1x "Startup" Group so that when the installation program causes a reboot, the installation program can regain control of the system and complete the installation process. Before the last step in the installation, this program is removed from the "Startup" group and the system is restored to its normal set of programs in the "startup" group as were on the system prior to the install. If the installation process is abruptly terminated, under

some situations this extra program may be left in the "Startup" group. If this situation occurs, the residual "GenCat" program in the Startup group can be removed by opening the Startup group in the Windows Program manager, clicking on the "GenCat" icon, and then selecting File and Delete from the top line menu. This will restore the system to the normal startup mode that it had prior to the aborted attempt to install the General Semiconductor Catalog.

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WIN32S Utility Programs

Win32s is a Microsoft utility that supplements the various Windows 3.1x operating systems to enable many programs written for 32 bit platforms (Win 95 and Win NT) to operate on Win3.1x. Microsoft has released several versions of this utility and has recommended that all Win3.1x users upgrade to the latest release. The General Semiconductor Device Wizard program utilizes Win32s and requires a recent version of Win32s to function properly. The install program on the General Semiconductor catalog allows you to update your Win32s files to the latest Microsoft release of Win32s or to end the install process. If you have an older version of Win32s and you decide to update your Win32s version, the Catalog installer program will save your old version of these files. You can restore the old version of Win32s later if needed. Microsoft's 'Knowledge Base' discusses this issue in detail and can be accessed through the Microsoft Web site at 'www.microsoft.com'.

Installing Win32s

Win32s is installed automatically by the General Semiconductor Catalog CD if you currently do not have Win32s or if you have an old copy of Win32s. Microsoft has recommended upgrading to the current copy of Win32s for those using older versions of this utility. Microsoft has provided the following directions on this issue:

Win32s is available from many sources. Microsoft Personal

Operating System Support Engineers support the installation of Win32s when it is obtained from the following source:

The following file is available for download from the Microsoft Software Library: Pw1118.exe '

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Removing Win32s

The Microsoft Knowledge Base 'Microsoft ID #: Q120486 'How to remove Win32S' provides the following information on how to remove Win32s from your machine:

To remove Win32s:

1. Remove the following line from the [386Enh] section in the SYSTEM.INI file:
device=<WINDOWS>\<SYSTEM>\win32s\w32s.386
where <WINDOWS> and <SYSTEM> are where the Windows and System directories are, respectively.

2. Modify the following line from the [BOOT] section in the SYSTEM.INI file:
drivers=mmsystem.dll winmm16.dll

to the following (remove winmm16.dll):
drivers=mmsystem.dll

3. Delete the following files from the <WINDOWS>\<SYSTEM> subdirectory or from the SYSTEM directory in network installations:

WINMM16.DLL W32SYS.DLL WIN32S16.DLL WIN32S.INI
WINHLP32.EXE WINDOWS.HLP WINHLP32.HLP WINHLP32.CNT

Note: It may not be possible to delete W32SYS.DLL while Windows is running. This occurs if you ran some Win32 application. It is recommended that you remove Win32s

while in MS-DOS, not from an MS-DOS box.

4. Delete all the files in the <WINDOWS>\<SYSTEM>\WIN32S subdirectory or the <SYSTEM>\WIN32S subdirectory in network installations. Then delete subdirectory itself.

5. Restart Windows.

NOTE: <WINDOWS> refers to the windows installation directory. On a networked Windows installation, the system directory may be located on a remote share.

If you are only removing Win32s from your machine, then you do not need to remove the shared files (in <SYSTEM> and <SYSTEM>\WIN32S). Before removing these files from the network share, make sure that All users that use Win32s have removed the references to Win32s from The SYSTEM.INI file.'

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Reinstalling the Prior Version of Win32s

Some programs created shortly after the release of the Windows 95 operating system used an early version of the Win32s utility. If you need a Win32s version upgrade, there will be a lengthy message and an option to abandon the install and not perform the Win32s upgrade. Not all systems will need the upgrade, and not all systems will have a Win32s system to be upgraded. The following issues only pertain to the systems that need to be upgraded.

If you elect to continue with the upgrade, all files from the prior version will be saved in the c:\windows\system\oldwin32 directory.

Microsoft has recommended that users upgrade to a more recent version such as the win32s version included with this General Semiconductor Catalog program. There is a possibility that some of these early programs will not function in the same manner with the revised Win32s as with the older version. In those instances, the user may want to revert back to their original Win32s programs or not install the catalog.

This installation of the General Semiconductor Catalog requires Win32s version number 1.30.166.0 or later. The version number can

be found in the Win32s.ini file. This file is located in the C:\Windows\system directory if your system uses the standard default Windows install directory naming convention. If your system directory names are modified from the Microsoft default names, substitute for \Windows the directory name where your Windows system is located.

If a version upgrade of your Win32s program was performed during the General Semiconductor Catalog installation procedure, all prior version Win32s files were automatically saved in the "Oldwin32" directory located under the Windows\System directory (or equivalent location for your system).

To reinstall your prior version of Win32s, perform the following steps.

1. Exit Windows, change directories to get to your Windows directory. This is usually "C:\Windows" get to a DOS prompt.
2. Backup your current system.ini file by copying this file to another name in the current directory. Do this from the C:\Windows directory by executing the DOS command " copy system.ini old_sys.ini". Now restore your prior version of system.ini from the "Oldwin32" directory with the following: "Copy c:\windows\system\oldwin3s\system.ini c:\windows". Overwrite the existing file since it was backed up to old_sys.ini.
3. Now reinstall your old copies of the following Win32s files by copying them into your "C:\Windows\system" directory:

```
WINMM16.DLL  W32SYS.DLL  WIN32S16.DLL  WIN32S.INI
WINHLP32.EXE  WINDOWS.HLP  WINHLP32.HLP  WINHLP32.CNT
```

Overwrite the existing files. (Substitute the appropriate drive and directory name if C:\Windows is not appropriate for your system.)

4. Now copy the entire contents of the "c:\windows\system\oldwin32" directory into your "c:\Windows\System\win32s" directory. Overwrite the existing files. Your Win32s utility system should now be restored to the way it was prior to the installation of the General Semiconductor catalog.
5. Reboot your computer after this procedure. You can re-install the upgraded Win32s files by re-running the General Semiconductor install.

Win32s References from Microsoft

The following list of articles in the Microsoft Knowledge Base provide additional information about Win32s. Win32s is a set of programs that enable 16-bit Windows platforms such as Windows 3.x and Windows for Workgroups to run 32-bit programs.

Microsoft ID #: Q83520 TITLE : General Overview of Win32S

Microsoft ID #: Q106715 TITLE : Troubleshooting win32S
Installation Problems

Microsoft ID #: Q117153 TITLE : PRB: Display Problems with
win32S and S3 Drivers

Microsoft ID #: Q120486 TITLE : How to remove Win32S

Microsoft ID #: Q121091 TITLE : How to Determine which
Version of Win32s Is
Installed

Microsoft ID #: Q124137 TITLE : Virtual Memory and Win32S

Microsoft ID #: Q120901 TITLE : Installing Win32S in Windows
and Windows for Workgroups

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REFERENCES AND CREDITS

This catalog was developed by WICO Information Technologies for General Semiconductor.

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