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* Intel(R) INF Installation Utility
* Installation Readme
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* NOTE: This document refers to systems containing the
* following Intel chipset(s):
* Intel(R) 810 Chipset
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* Intel(R) 430TX PCIset
* Intel(R) 440BX AGPset
* Intel(R) 440DX AGPset
* Intel(R) 440EX AGPset
* Intel(R) 440GX AGPset
* Intel(R) 440LX AGPset
* Intel(R) 440ZX AGPset
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* 1. OVERVIEW
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The Intel(R) INF Installation Utility installs to the target system the Windows* INF files that outline to the operating system how the chipset components shall be configured. This is needed for the proper functioning of the following features:

- Core PCI and ISAPNP services
- AGP support
- IDE/ATA33/ATA66 storage support
- USB support
- Identification of Intel chipset components in device manager

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* 2. CONTENTS OF THE DISTRIBUTION PACKAGE
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The Intel(R) INF Installation Utility package contains the following items:

File(s)

INFINST_ENU.ZIP
README.TXT
RELNOTES.TXT

The version of the software included in the distribution package is specified in the file RELNOTES.TXT.

After installation on a Windows* 95 or Windows 98 system, one or more of the following INF files are copied to the <Windows>\INF directory:

File(s)

810.INF
810B.INF
ICHx.INF
ICHxIDE.INF
ICHxSMB.INF
ICHxUSB.INF
IFWH.INF
IHOST.INF
PIIXIDE.INF
PIIXUSB.INF
PIIX4.INF

*** NOTE: Only the files that reference the currently detected devices are copied to the system.

One or more of the following digital signature files are installed to the <Windows>\CATROOT directory on a Windows 98 system ONLY:

File(s)

810.CAT
ICHx.CAT
ICHxIDE.CAT
ICHxSMB.CAT
ICHxUSB.CAT
IFWH.CAT

*** NOTE: Only the files that reference the currently detected devices are copied to the system.

* 3. SYSTEM REQUIREMENTS

1. The software included with this distribution package is designed to operate with the following chipset configurations:

Intel(R) 810 Chipset

Intel(R) 430TX PCIset

Intel(R) 440BX AGPset

Intel(R) 440DX AGPset

Intel(R) 440EX AGPset

Intel(R) 440GX AGPset

Intel(R) 440LX AGPset

Intel(R) 440ZX AGPset

2. One of the following operating systems must be installed on the system:

Windows 95	4.00.950	(Original Release)
Windows 95	4.00.950a	(OSR1)
Windows 95	4.00.950b	(OSR2 without USB Supplement)
Windows 95	4.00.950b	(OSR2.1 with USB Supplement)
Windows 95	4.00.950c	(OSR2.5 with or without USB Supplement)
Windows 98	4.10.1998	(Original Release)
Windows 98 Second Edition	4.10.2222	(Original Release)

3. It is recommended that the kit software be installed on systems with at least 32 MB of system memory.
4. It is recommended that there is sufficient hard disk space in the <TEMP> directory (typically C:\WINDOWS\TEMP) on the system on which this software is installed.

Please check with your system provider to determine the operating system and Intel chipset used in your system.

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* 4. INSTALLING THE SOFTWARE  
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This software can be installed in two modes: Interactive or Silent. The Interactive Mode requires user input during installation; the Silent Mode requires NO user input.

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* 4A. INSTALLING THE SOFTWARE IN INTERACTIVE MODE  
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1. Check the System Requirements. The operating system must be fully installed and running on the system before running this software.
2. Close any running applications. Otherwise, you may experience difficulties.
3. Unzip the InstallShield* installation program files into a temporary directory.

4. Run the InstallShield installation program, SETUP.EXE.
5. You will be prompted to agree to the license agreement. If you do not agree, the Installer will exit before extracting any files.
6. Follow the on-screen instructions and use the default settings to complete the setup, once the operating system has rebooted.
7. This completes the installation of the Intel(R) INF Installation Utility.

 * 4B. INSTALLING THE SOFTWARE IN SILENT MODE

1. Check the System Requirements. The operating system must be fully installed and running on the system before running this software.
2. Close any running applications. Otherwise, you may experience difficulties.
3. Unzip the InstallShield* installation program files into a temporary directory.
4. Run the InstallShield installation program:
 SETUP.EXE -b -s (for silent install with auto-reboot)
 - OR -
 SETUP.EXE -s (for silent install without auto-reboot)
5. The utility will perform the necessary updates and record the installation status in the following system registry key:
 HKEY_LOCAL_MACHINE\Software\Intel\INFInst
6. If the utility was invoked with the "SETUP -b -s" mode, the system will automatically reboot if the update was successful.

NOTE: The system MUST be rebooted for all device updates to take effect.

7. To determine whether the install was successful, verify the 'install' value.

Value	Type	Data	Description
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install	string	"success" "fail"	Installation was successful. Installation was not successful. No .inf files were copied to the system.
reboot	string	"Yes" "No"	A reboot is required to complete the installation. No reboot is required to complete

the installation.

version	string	<varies>	Current version number of the Intel(R) INF Installation Utility
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* 5. VERIFYING INSTALLATION OF THE SOFTWARE

NOTE: This procedure is common to Windows 98, Windows 98
Second Edition and Windows 95 systems.

Run Device Manager to verify the correct installation and
usage of the INF files.

1. Click on Start
2. Select Settings
3. Select Control Panel
4. Double-click on System icon
5. Click on Device Manager tab
6. Click on View Devices by Connection button.
7. Click on Plug and Play BIOS -or- ACPI BIOS
8. Click on PCI Bus
9. Check the descriptions for the following entries:

*** NOTE: If you see PCI standard ISA bridge you will need
restart your system and rerun the software.

For Intel(R) 810 chipset-based platforms only:

Intel(r) 82801AA LPC Interface Controller
Intel(r) 82801AA Ultra ATA Controller
Intel(r) 82801AA USB Universal Host Controller
Intel(r) 82801AA SMBus Controller
Intel(r) 82801AA PCI Bridge

*** NOTE: Depending on the system type, the 'AA' in the
above five lines may be replaced by 'AB'

For Intel(R) 810 chipset-based platforms only:

Intel(r) 82810 System and Graphics Controller
-or-
Intel(r) 82810 DC-100 System and Graphics Controller

For platforms containing the Intel(R) 82371AB Controller
devices:

Intel(r) 82371AB PCI to ISA bridge (EIO mode)
Intel(r) 82371AB PCI to ISA bridge (ISA mode)
Intel(r) 82371AB Power Management Controller
Intel(r) 82371AB/EB/MB PCI Bus Master IDE Controller
Intel(r) 82371AB/EB/MB PCI to USB Universal Host Controller

For platforms containing the Intel(R) 82371EB, 82371MB
Controller Devices:

Intel(r) 82371EB/MB PCI to ISA bridge (EIO mode)
Intel(r) 82371EB/MB PCI to ISA bridge (ISA mode)
Intel(r) 82371EB/MB Power Management Controller
Intel(r) 82371AB/EB/MB PCI Bus Master IDE Controller
Intel(r) 82371AB/EB/MB PCI to USB Universal Host Controller

For platforms containing the Intel(R) 82371SB Controller devices:

- Intel(r) 82371SB PCI to ISA bridge
- Intel(r) 82371SB PCI Bus Master IDE Controller
- Intel(r) 82371SB PCI to USB Universal Host Controller

For platforms containing the Intel(R) 430TX PCIset devices:

- Intel(r) 82443TX Processor to PCI bridge

For platforms containing the Intel(R) 440BX AGPset, Intel(R) 440DX AGPset, Intel(R) 440ZX AGPset devices:

- Intel(r) 82443BX/ZX/DX Processor to PCI bridge
- Intel(r) 82443BX/ZX/DX Processor to AGP controller

For platforms containing the Intel(R) 440GX AGPset devices:

- Intel(r) 82443GX Processor to PCI bridge
- Intel(r) 82443GX Processor to AGP controller

For platforms containing the Intel(R) 440LX AGPset devices:

- Intel(r) 82443LX Processor to PCI bridge
- Intel(r) 82443LX Processor to AGP controller

10. On certain systems, the following device may also be updated:

For Intel(R) 810 Chipset-based platforms only, verify the following information:

- a. Click on View devices by Connection button
- b. Click on Plug & Play BIOS
- c. Verify that the following entry is present:
 - Intel(r) 82802 Firmware Hub Device
 - or-
 - Intel(r) Security Driver

* 6. IDENTIFYING THE SOFTWARE VERSION NUMBER

The version of the software included in the distribution package is specified in the file RELNOTES.TXT.

* 7. TROUBLESHOOTING

It is assumed that the system requirements from Section 3 above have been satisfied.

Issue: System locks up during Device Manager Remove or during restart.

Solution: System lockup can occur during Restart as a result of several possible system issues. In the event of system lockup, restart the machine and view Device Manager. If devices are listed

properly and system experiences no further problems, then .INF file restore process was successful. If devices are not configured correctly try rerunning the procedures outlined in Section 4.

If this does not fix problems or further problems are experienced, reinstall the operating system.

Issue: After running the setup program and rebooting the machine, Windows reports that it cannot find one of the following files:
ESDI_506.pdr

Solution: Click Browse in the dialog box where this problem occurs, locate the
<Windows>\System\IOSubsys
directory and click OK. The system should be able to locate this file in this directory and continue re-enumerating for the new devices.

Issue: After running the setup program and rebooting the machine, Windows reports that it cannot find one of the following files:

UHCD.SYS
USBD.SYS
USBHUB.SYS

Solution: Click Browse in the dialog box where this problem occurs, locate the
<Windows>\System32\drivers
directory and click OK. The system should be able to locate this file in this directory and continue re-enumerating for the new devices.

Issue: After running the setup program and rebooting the machine, Windows reports that it cannot find one of the following files:
isapnp.vxd

Solution: Click Browse or pull down the listbox in the dialog box where this problem occurs, locate the
<Windows>\System
directory and click OK. The system should be able to locate this file in this directory and continue re-enumerating for the new devices.

Issue: After performing the silent install, the HKLM\Software\Intel\InfInst key was not created or the data of the value "install" is not "successful".

Solution: This is caused by one of the following scenarios:
- the current system does not contain

- a supported operating system, or
- the current system does not contain a supported chipset

Verify the System Requirements in Section 3.

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