

Intruduction

BEETLE systems with E1 motherboard may be delivered without a pre installed operating system and therefore do not include all needed drivers for WN hardware. For these customers we provide the drivers on our web sites. This document gives you some hints concerning the installation of E1 onboard video drivers. It gives you some basic technical information about driver installation and also about new features and differences to previous BEETLE motherboards:

E1 motherboard hardware + BIOS updates and settings + Driver installation & hardware setup + additional hints about related devices

This document is made for people with a technical background. Thus, we do not need to tell you how to install a Windows driver and select INF files ("install from a list"), overwrite existing, "recommended" Windows drivers, or how to install Red Hat rpm packages, etc... For basic information & education concerning operating systems and PC technology itself, please contact your favorite consultant.

Since we used these releases from DOWNLOAD.ZIP for internal qualification of E1 motherboard, we recommend download and installation of them, even if newer ones are distributed from original hardware manufacturers.

E1 (845GV) chipset package installation

**Intel released INFinst package 6.2.1.1001 on their web site:
It does not include updates for 845GV and 815E chipset!**

The latest update for 845GV has date 11/14/2003. Therefore you do not need to update your pre installed Windows XP BEETLE. If you do use your own Windows XP installation, you should use this driver package instead of Windows XP built-in ones!

It is recommended to **update actual Intel i845GV chipset driver before any other software installation.** After successful update procedure, you will find lots of devices marked with resource conflicts, presented by device manager. Don't panic! Run update of all marked devices (automatic search for best driver) and reboot. After restart, all "!" should be removed from screen. Left "?" will be removed by driver installation of COM34, onboard LAN, ...

Intel® Chipset Software Installation Utility 6.2.1.1001

Chipset package 6.2.1.1001 release information from Intel

This is an extract of release info from Intel's web site. It's based on INFinst release 6.2.0.1005. There is no certain update for 6.2.1.1001 available.

July 26, 2004

Microsoft Windows* 2000 Professional

Microsoft Windows* XP Home Edition, Professional

Microsoft Windows Server* 2003

Intel® Chipset Software Installation Utility Support

The Intel® Chipset Software Installation Utility contains support for the following Intel Chipsets:

- Intel® 815 Chipset , **Intel® 815E Chipset** , Intel® 815EM Chipset , Intel® 815EP Chipset , Intel® 815P Chipset , Intel® 815G Chipset , Intel® 815EG Chipset
- Intel® 845 Chipset , Intel® 845E Chipset , Intel® 845G Chipset , Intel® 845GE Chipset , Intel® 845GL Chipset , **Intel® 845GV Chipset** , Intel® 845MZ Chipset , Intel® 845PE Chipset

Supported Operating Systems

The Intel® Chipset Software Installation Utility is validated on the following Microsoft operating systems.

- Microsoft Windows* 2000
- Microsoft Windows* XP
- Microsoft Windows Server* 2003

New Features

Features Added in Production Candidate 6.2.0.1005	
ID	Description
1	Added E7520.inf signed cat files for Intel(R) E7220/E7221 INF files.

Features Added in Production Candidate 6.2.0.1003	
ID	Description
1	Added signed cat files for Intel(R) E7220/E7221 INF files. E7520.inf file is not signed

Features Added in Beta 6.2.0.1002	
ID	Description
1	Updated Formal Name Strings to: Intel(R) E7220/E7221 Memory Controller Hub - 2588 Intel(R) E7220/E7221 PCI Express Root Port - 2589

Features Added in Alpha 6.2.0.1001	
ID	Description
1	Initial Support for Copper River and PXH-V Chipsets

Issues Resolved

Issues Resolved in Production Candidate 6.2.0.1003		
Reference	Description	Affected OS's
None		

Issues Resolved in Beta 6.2.0.1002		
Reference	Description	Affected OS's
None	INF installer instructs Microsoft Windows operating systems to load USB 2.0 drivers.	

Issues Resolved in Alpha 6.2.0.1001		
Reference	Description	Affected OS's
None	Initial Release	

Software Sightings and/or Known Issues

ID	Information
1	<p>Issue: At the end of executing the Chipset Software Installation Utility the USB keyboard and mouse may stop functioning. This problem only occurs when using Windows XP with SP1 on a system configured with a USB keyboard and/or mouse. This condition is temporary until a system reset.</p> <p>Solution 1: A recommended fix has been provided by Microsoft in Knowledge Base article (822603). For additional information, please refer to this article located at: http://support.microsoft.com/default.aspx?scid=kb;[LN];822603</p> <p>Please use the following installation sequence:</p> <ol style="list-style-type: none"> 1. Windows XP installed with SP1 2. QFE (822603) 3. Latest Chipset Software Installation Utility <p>Solution 2: The command line flag "-Skip <Device ID>" can be used with the Chipset Installation Utility program to cause the USB2 driver not to be installed. The Device ID's for ICH4/ICH5 are 24CD/24DD. This will cause the USB2 controller to have a yellow exclamation point in Device Manager (Usually located under Other Devices and identified as "Universal Serial Bus (USB) Controller"). To install the USB2 driver right-click this entry, select update driver, and allow the system to install automatically. When completed, nothing more should be required.</p>
2	<p>On an Intel® 830MP platform under Windows* Me Operating system's device manager, a green question mark is seen on the USB controller device. This is a new feature from Microsoft. This indicates that an exact (device-specific) driver is not available, and that a compatible driver has been installed. This new feature was implemented so that you can use the device, even if an exact driver is not available.</p>
3	<p>When setup.exe is executed in the silent mode from the CD, the default path for dumping the log files is the CD (read-only media). This causes the install shield to exit out without updating any devices. Workaround for this issue is to use a command-line flag option: setup -s -f2 <path name on c:> to specify a specific path for the log files.</p>
4	<p>The Intel® 82801BA PCI Bridge and Intel® 82801BAM PCI Bridge components will not be updated in Windows* 2000 configurations where the IOAPIC is enabled. These changes were made in order to avoid a software hang condition seen in some systems with similar configurations.</p>
5	<p>On Windows 2000 Operating system if the Intel® 82801 BA/BAM AC '97 Audio Controller device is enabled, the system may fail to enter the ACPI S3 system power state. On certain systems, the issue has been attributed to some behavior experienced with the AC '97 Audio Device driver included with Windows 2000 operating system. To address this issue install an updated device driver for the Intel® 82801 BA/BAM AC '97 Audio Controller.</p>
6	<p>This software will install the ICHxSMB.INF file on systems running Windows 98SE, even though the OS natively supports the SMBus device. This is done to allow the easy update of any future SMBus driver.</p>
7	<p>During the Windows setup stage; the USB keyboard and mouse may not be accessible. This is because the legacy USB driver may be inactive when Windows enters the GUI mode. There is a small window of time when it may not be possible for the system to accept user input. Since the Chipset Software Installation Utility may cause prompts during the Windows setup stage, it should be ensured that the system BIOS support for legacy USB keyboard and mouse is enabled.</p>
8	<p>Older revisions of the Intel® LANdesk Software Package may cause a Device Manager warning when installed on a system after the Chipset Software Installation Utility has been executed on the system.</p>
9	<p>The check for signature Block mode settings is not performed for the Windows* Me operating system environment.</p>