



HP Business  
Desktops

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IT Support  
Help Tools

# d510/d530 Software Image Comparison Overview

## 2003 HP Compaq Business Desktop Products

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## Abstract

The purpose of this white paper is to present both an overview of the preinstalled software with operating system support and a brief description of major software components and features. This white paper covers the HP Compaq Business Desktop d530 models along with a software comparison to Compaq Evo D510 models.

This document is intended for HP personnel and customers who need information about the software provided on the HP Compaq Business Desktop d530 preinstall images.

## Definition of Terms

**Application Installer** – This is an application provided by HP can be used to install software that is pre-loaded (not preinstalled) on the hard drive.

**Preinstalled applications** – Preinstalled applications are installed during the initial software unbundling, and are ready to use immediately.

**Preloaded applications** – Some applications from HP are loaded on the hard drive in an uninstalled state; you must install the application manually before you can use it. Application Installer provides a simple interface to the uninstalled applications. Note that some pre-loaded applications have their own install program. For example, Norton AntiVirus and HP ProtectTools are installed by selecting their shortcut icons from the START->PROGRAM menu.

**Product family** – A product family is defined as a set of form-factor types within a *numerically-defined series*. For example, the HP Compaq Business Desktop d530 Series consists of the d530 convertible minitower, d530 small form factor, and d530 ultra-slim desktop.

**Quick fixes** – Sometimes called QFE's, are important software updates provided by Microsoft. These are usually included in operating system images provided by HP.

**Restore Plus!** – This is the hard drive recovery media provided by HP on CD-ROM and used to allow a user to re-image the system back to its factory state.

**Standalone service packs** – Service packs are a large collection of QFE's grouped together that provides a significant update, or service pack, to an existing Microsoft operating system.

## Highlights

Benefits of the new HP Compaq Business Desktop d530 preinstall image include:

- Support for all HP Compaq Business Desktop d530 models
- Microsoft WHQL certified

## d530

### Pre-installed Operating Systems

Pre-installed operating systems include:

- Microsoft Windows 2000 Professional with Service Pack 3
- Microsoft Windows XP Professional with Service Pack 1
- Microsoft Windows XP Home with Service Pack 1


## **d530 Supported Operating Systems**

The following operating systems are supported:

- Windows XP Home/Pro (Gold)
- Windows 2000 SP1
- Windows 2000 SP2
- Windows NT 4 SP6a

Supported definition:

- Full HP testing
- All HP software value add applications and drivers available (OS Dependant)
- All drivers available (HP Web site/CD) within 30 days


 New technologies may not be supported on older operating systems.

Limited support is provided for the following operating systems:

- Windows 98SE
- OS/2 Warp 4.0

Limited support definition:

- All drivers available for major subsystems, if not provided by OS, within 30 days (NIC, audio, video, cold dock MultiBay devices)
- ROMPaq updates as needed
- Functional test on representative configurations
- Does not include delivery and support of HP/Compaq branded applications or utilities and 3rd party user applications (i.e., DVD player)
- No support for USB devices other than basic keyboard and mouse (no Easy Access Keyboard hot button support)

 New technologies may not be supported on older operating systems.

OS/2 is not supported on legacy-free HP Compaq Business Desktop d530 ultra-slim desktop models.

## **3<sup>rd</sup> Party Certified Operating Systems**

3rd Party certified operating systems include:

- Novell
- Mandrake Linux
- Turbolinux
- Red Hat Linux
- SuSE Linux

3rd Party Vendor Certification: Linux

- Hardware submitted to vendor for testing and certification
- All drivers are OS dependent, not supplied by HP
- Certification posted to Linux vendor site

## General Pre-installed Image Contents

3rd Party Vendor Certification: Novell

- Hardware submitted HP Research Park for testing and certification
- Novel Certified and posted to their Web

HP Compaq Business Desktops come standard with a factory-installed software image. The image consists of a number of separate software components including the operating system and its associated components, drivers for the specific hardware devices included with the system (such as graphics, network interface cards, modems, etc.) and a small number of additional applications.

Quick fixes (QFEs) are also included with the image for any Microsoft operating system issues that HP identified as problems that might affect its customers. These QFEs will show up under the Add/Remove Programs applet in the Control Panel. Since most of these fixes are critical in nature, they will appear grayed out by design so they cannot be removed.

Standalone service packs may also be preloaded on some systems depending on the version of the integrated operating system and the timing and nature of the HP Compaq Business Desktop product introduction. Other software applications that are preloaded include optional business software. Examples of these types of applications include: Norton Anti-Virus, Altiris Deployment Solution Agents, Insight Management Agents, and HP Diagnostics for Windows. In addition, an HP internally-supported application called Application Installer provides a user interface to allow installation of these optional preloaded programs. (See page 2 for definition of preloaded applications.)

Following is a more detailed list of general software provided:

- **Microsoft Windows Operating System Software:**
  - ❑ Windows XP Professional or Windows XP Home Edition or Windows 2000
  - ❑ Step By Step Interactive for Windows XP Home and Pro (For locales supported by Microsoft)
  - ❑ Direct X
  - ❑ Dot Net Framework for Windows XP
  - ❑ Microsoft-provided QFE's
  - ❑ Quad Byte Supplement (for Simplified Chinese language only)
  - ❑ Windows XP Professional Multi User Interface Pack (for Eastern European and Thai regions)
  - ❑ Standalone Service Packs
  - ❑ USB 2.0 Supplement for Windows 2000
- **Hardware/OEM specific drivers and files:**
  - ❑ Graphics
  - ❑ Network Interface Card
  - ❑ Audio
  - ❑ Modem
  - ❑ Wireless LAN
  - ❑ HP Monitor INF
  - ❑ Chipset INF
  - ❑ HP SLP Driver files for Windows XP
  - ❑ HP Online Crash Analysis File
  - ❑ HP Security Guest account fix

## Microsoft Windows 2000

- **HP Specific Applications**
  - ❑ Help and Support Center for Windows XP
  - ❑ Application Installer (for preloaded components)
  - ❑ Insight Management Agents
  - ❑ Online EULA for Windows XP
  - ❑ Safety and Comfort Guide
  - ❑ Technical Support Phonebook
- **Optional applications that are typically preinstalled**
  - ❑ Altiris Deployment Solution Agents (preloaded)
  - ❑ Adobe Acrobat Reader
  - ❑ Microsoft Word
  - ❑ Microsoft Works
  - ❑ Microsoft Office XP
  - ❑ Norton AntiVirus

Microsoft Windows 2000 Professional with Service Pack 3 is the preinstalled operating system for select HP Compaq Business Desktops d530 models. HP also supports customers who install Windows 2000 on their own. The following table compares the delivered operating systems components and drivers for the Compaq Evo D510 to the HP Compaq Business Desktop d530.

Many of the drivers and components denoted with "\*" are available on the HP driver download Web site. Instructions for where to obtain and how to install these drivers are provided in the "Software Delivery" section of this white paper.

**Table 1. Windows 2000 Software Component Version Comparison**

Software	D510	d530
<b>Drivers</b>		
INTEL 845G GRAPHICS DRIVER *	6.13.01.3095 B	-
nVidia Graphics Driver *	31.00 G	43.03 B
Intel Intel 865 Graphics Driver *	-	6.13.01.3485 A
ADI Integrated Digital Audio driver *	5.12.1.3501 J	5.12.01.3570 B
3com 3C905C Drivers *	5.40 A	-
Intel(R) PRO/100/1000 Drivers *	6.1.30 A	6.4.16.1 A
Broadcom 10/100/1000 Drivers *	2.67 A	6.34 A
HP WLAN 802.11b WL220 *	-	1.1.5.0 A
Lucent 56K v.90 Win Modem Driver *	5.98 B	8.22 E
Compaq 3 mode floppy driver *	1.00 D	1.00 B
PSeries Drivers for HP PCMCIA Reader Via PCI Card *	-	5.07.04 A (SFF/CMT only)
<b>Input Device Software</b>		
Easy Access Keyboard support software*	8.0.0.571 C	8.0.0.678C E
HP Wireless Keyboard and Wireless Mouse Applet *	-	1.14 B
HP Wireless Mouse Applet *	-	1.09 B

**Table 1. Windows 2000 Software Component Version Comparison** (continued)

Software Component	D510	d530
<b>Preinstalled Applications</b>		
InterVideo WinDVD Software *	3.2.41.136 F	4.0.11.268 K
Roxio Easy CD Creator (upgrade package) *	5.3.4.21 SP12 B2D	5.3.4.21 SP19a B2F
HP ProtectTools Embedded Security *	-	1.50.61.3 A
Adobe Acrobat Reader	-	5.10 A
Safety and Comfort Guide - Desktop	-	1.00 B
Application Installer	1.20 A	2.00 B
<b>Preloaded Applications</b>		
Norton AntiVirus	2002 E	2003 A
Remote Diags Enabling Agent *	2.14 H	3.02 N
Diagnostics for Windows *	3.15 J	4.06A W
Altiris eXpress agent (available at: <a href="http://h18000.www1.hp.com/im/swdeploy/prodinfo.html#deployment_solution">http://h18000.www1.hp.com/im/swdeploy/prodinfo.html#deployment_solution</a> ) *	5.50 A2	5.50 A4
Insight Management Agent *	5.00 D	5.00 J
<b>OS Support/QFE's</b>		
Intel Chipset Support for Windows 2000 *	4.00.1009 A (Intel 845)	5.00 A (Intel 865)
Win2K USB Standby QFE *	1.00 A	-
USB 2.0 for Windows 2K *	2.00 A	2.10 B
Win2K ICH4IDE Fix *	1.00 B	-
Win2K ICH5IDE Fix *	-	1.00 A
NTFS Security Update *	-	1.02 B
Win2K fix adds 802.11 support *	-	1.00 A
Windows 2000 SATA Fix Q812415 *	-	1.00 A
Q810090 Win2K USB 2.0 updated driver stack *	-	1.00 A
Win2K Atapi.sys Update Q817472 *	-	1.00 A
ADAPTEC SCSI CONTROLLER W2K *	4.10 B	-
Microsoft DirectX	8.1 J (DX 8.1)	1.00 A (DX 9.0)
Set Video Refresh rate	-	1.1.0.20 F
Chinese Quad Byte Support *	1.00 A	2.00 A
<b>BIOS</b>		
ROM for Intel 845 (686O2) *	2.14 A	
ROM for Intel 865 (CMT/SFF) (786B2) *	-	1.10 A
ROM for Intel 865 (ultra-slim desktop) (786B1) *	-	1.12 A

## Microsoft Windows XP

Microsoft Windows XP Professional is preinstalled on select HP Compaq Business Desktops d530 models. HP also supports customers who install Windows XP on their own.

**Table 2. Windows XP Software Component Version Comparison**

Software Component	D510	d530
<b>Drivers</b>		
INTEL 845G GRAPHICS DRIVER *	6.13.01.3095 B	-
Intel Intel 865 Graphics Driver *	-	6.13.01.3485 A
nVidia Graphics Drivers *	31.00 F	-
nVidia Graphics Drivers *	-	43.03 B
ADI Integrated Digital Audio *	5.12.1.3501 J	5.12.01.3570 B
3COM 3C905C Drivers for Microsoft Windows XP *	5.40 A	-
Intel(R) PRO/100/1000 Drivers for Windows XP *	6.1.30 A	6.4.16.1 A
Broadcom 10/100/1000 Drivers for Microsoft Windows XP *	2.67 A	6.34 A
HP WLAN 802.11b WL220 *	-	1.1.5.0 A
Lucent 56K v.90 Win Modem Driver *	-	8.22 E
PSeries Drivers for HP PCMCIA Reader *	-	5.07.04 A (CMT/SFF only)
<b>Input Device Software</b>		
Easy Access Keyboard support software *	8.0.0.571 C	8.0.0.678C E
O2 Micro Basic Smartcard Keyboard Drivers *	-	1.3.5.3 D
HP Wireless Keyboard and Wireless Mouse Applet *	-	1.14 B
HP Wireless Mouse Applet *	-	1.09 B
<b>Preinstalled Applications</b>		
Application Installer	2.00 A	2.00 B
Compaq branded Help and Support Center	2.21 E	-
HP branded Help Support Center	-	2.0.9.3 C
InterVideo WinDVD Software *	3.2.41.136 F	4.0.11.268 K
Adobe Acrobat Reader	-	5.10 A
Safety and Comfort Guide - Desktop	-	1.00 B
HP ProtectTools Embedded Security *	-	1.50.61.3 A (XP Pro Only)
Roxio Easy CD Creator (upgrade package) *	5.3.4.21 SP12 B2D	5.3.4.21 SP19a B2F
OEM START PAGE for Windows-XP *	2.00 A	-
<b>Preloaded Applications</b>		
Norton AntiVirus 2002	2002 E	N/A
Norton AntiVirus 2003	N/A	2003 A
Remote Diags Enabling Agent *	2.14 H	3.02 N
Diagnostics for Windows *	3.15 J	4.06A W
Altiris eXpress agent (available at: <a href="http://h18000.www1.hp.com/im/swdeploy/prod/info.html#deployment_solution">http://h18000.www1.hp.com/im/swdeploy/prod/info.html#deployment_solution</a> ) *	5.50 A2	5.50 A4
Insight Management Agent *	5.00 D	5.00 J

**Table 2. Windows XP Software Component Version Comparison** *(continued)*

Software Component	D510	d530
<b>OS Support/QFE's</b>		
Intel Chipset Support for Windows XP *	4.00.1009 A (Intel 845)	5.00 A (Intel 865)
Monitor INF and ICM Files	-	1.10 A
Microsoft DirectX 9.0	-	1.00 A
USB 2.0 for Windows XP *	4.08 B	-
USB 2.0 Upgrade for Windows XP (Q810090)	-	1.00 A
WinXP OOBE DLL Fix Q308678	1.00 D	- (integrated into SP1)
WinXP Recovery Console Fix	1.00 A	- (integrated into SP1)
WinXP Hibernation Fix (q312372)	1.00 A	- (integrated into SP1)
WinXP Remote Assistance SLP Fix Q311889	1.00 E	- (integrated into SP1)
WinXP UPNP Buffer Update Q315000	1.00 C	- (integrated into SP1)
WinXP Home User Account QFE Q314412	1.00 B (XP Home only)	- (integrated into SP1)
Enable 48 Bit LBA QFE Q306583	1.00 A	- (integrated into SP1)
WinXP Unmountable Boot Volume Q315403	1.00 B	- (integrated into SP1)
WinXP Home and Pro ICH4IDE Fix	1.00 A	-
WinXP ICH5 Intelide.sys Fix *	-	1.00 A
.Net for WinXP *	-	1.00 A
NTFS Security Update *	-	1.02 2
Windows XP Unchecked Buffer in Windows	-	1.00 A
Windows XP SATA Fix Q812415 *	-	1.00 B
Microsoft Windows DMA Downshift Fix *	-	1.00 A
Set Video Refresh rate	-	1.1.0.20 F
Chinese Quad Byte Support *	1.00 A	2.00 A
<b>BIOS</b>		
ROM Firmware for Intel 854 G (686O2) *	2.14 A	-
ROM for Intel 865 (CMT/SFF) (786B2) *	-	1.10 A
ROM for Intel 865 (ultra-slim desktop) (786B1) *	-	1.12 A



## Microsoft Windows NT Workstation 4.0

Support is provided for Microsoft Windows NT Workstation 4.0 with Service Pack 6 on HP Compaq Business Desktop d530 models for customers who require basic hardware-enabling support under this operating system.

### Hardware Functionality and Software Enhancements

Software drivers and utilities for Windows NT 4.0 include audio, video, and network drivers



**IMPORTANT:** Some features are not supported by Windows NT. With Windows NT, support for device swapping and USB are not built into the OS. Proper shutdown of Windows NT prior to docking, undocking, or switching MultiBay devices is required.

Table 3 provides a list of tested Windows NT software drivers and utilities, which are available on the HP software support Web site.

**Table 3. Windows NT Software Components for HP Compaq Business Desktop d530**

Software Component	Driver Version
Nvidia Graphics driver	42.49
WinNT Intel Extreme Graphics Driver	4.02.1381.3551
ADI SoundMax Audio Driver for Windows NT 4.0	4.02.00.0069
Broadcom NetExtreme 10/100/1000 Drivers	6.6.11 B
Intel Pro 10/100/1000 NIC Drivers	6.4.16.1 A
Insight Management Agent for Clients	5.00 K
Diagnostics for Windows	4.07 A
ROM Firmware for Intel 865 (CMT/SFF) (786B2)	1.10 A
ROM Firmware for Intel 865 (ultra-slim desktop) (786B1)	1.12 A

## Microsoft Windows 98

Limited Support is provided for Microsoft Windows 98 Second Edition for customers who require basic hardware-enabling support under this operating system.

### Hardware Functionality and Software Enhancements

Software drivers and utilities for Windows 98 include audio, video, and network drivers.



**IMPORTANT:** You must shut down Windows 98 prior to docking, undocking, or switching MultiBay devices.

Table 4 provides a list of tested Windows 98 software drivers and utilities.

**Table 4. Windows 98 Software Components for HP Compaq Business Desktop d530**

Software Component	Driver Version
Win98 Intel Extreme Graphics Driver	4.13.01.3551
Nvidia Graphics driver	42.49
ADI SoundMax Audio Driver for Windows 98SE/2000/ME/XP	5.12.01.3570
Broadcom NetExtreme 10/100/1000 Drivers	6.6.11 B
Intel Pro 10/100/1000 NIC Drivers	6.4.16.1 A
HP WLAN 802.11b WL220 Configuration Utility	1.04.1
HP WLAN 802.11b WL220 Wireless Controller Driver	1.1.5.0
Insight Management Agent for Clients	5.00 K
Intel Chipset Support for Windows 98/ME/2000/XP	5.00.1012 A
Business Desktops BIOS Utility for Replicated Setup	1.00 A
Diagnostics for Windows	4.07 A
Remote Diagnostics Enabling Agent	3.02 A
HP business desktop d330 and d530 System BIOS (786B2 BIOS)	1.10 A
HP business desktop d530 ultra-slim desktop System BIOS (786B1 BIOS)	1.12 A

## OS/2

Limited Support is provided for OS/2 for customers who require basic hardware-enabling support under this operating system.

### Hardware Functionality and Software Enhancements

Software drivers and utilities for OS/2 include audio, video, and network drivers.



**IMPORTANT:** OS/2 is not supported on legacy-free HP Compaq Business Desktops d530 ultra-slim desktop models.

**Table 5. OS/2 Software Components for HP Compaq Business Desktop d530**

Software Component	Driver Version
Scitech OS/2 Graphics Driver (Available as a CD purchased option. Not available for HP Compaq d530 ultra-slim desktop models)	2.1.5
ADI SoundMax Integrated Digital Audio Driver for IBM OS/2	3.1.7
Nvidia OS/2 Graphics Driver	1.3
Broadcom NetExtreme 10/100/1000 Drivers	6.6.11 B
Intel Pro 10/100/1000 NIC Drivers	6.4.16.1 A
HP business desktop d330 and d530 System BIOS (786B2 BIOS)	1.10 A
HP business desktop d530 ultra-slim desktop System BIOS (786B1 BIOS)	1.12 A

## Software Delivery

### HP Support Software CD

The Support Software CD (SSCD) includes updated drivers and utilities for HP commercial notebook, desktop, and workstation computers. Key drivers and utilities for HP computers are included on the SSCD. The user interface is in English, French, Italian, German, Spanish, and Japanese. The SSCD is updated regularly and is available either through an annual subscription or as a one-time purchase. Subscriptions can be purchased through customer support or from an authorized dealer.

### HP Worldwide Web Site and Download Facility

Individual drivers and utilities can be downloaded, in the form of SoftPaqs, from the HP Download Facility or from the Web site at <http://h18000.www1.hp.com/support/files/> or <ftp://ftp.compaq.com/pub/softpaq/> (if you already know the SoftPaq number you need). SoftPaqs provide a distribution method for driver and ROM updates and product software enhancements. For regional Web sites or additional support, visit <http://www.hp.com/support>. Multiple files and bootable diskettes can be distributed conveniently and electronically through diskettes or the Web.

### Restore Plus!

The Restore Plus! CD Kit is shipped with each HP Compaq Business Desktop d530 model. This CD provides a complete, easy-to-use restore solution for preinstalled operating systems. The preinstalled operating system and HP software enhancements are provided in the kit. This complete restore solution allows customers to reinstall or refresh the operating system and preinstalled software. The kit consists of two components. The OS CD contains the preinstalled operating system. The Restore Plus! CD provides drivers, utilities, and applications that are preinstalled on the computer.

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