



# Installing Microsoft Windows 7 on HP Compaq and EliteBook Notebook PCs

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## Executive summary

This white paper provides instructions on how to successfully install Microsoft® Windows® 7 Professional on HP EliteBook and HP Compaq Notebook PC models. The following guidelines provide installation procedures independent of the currently installed operating system. This white paper is intended for HP personnel and clients.

## System requirements and prerequisites

Information regarding minimum hardware requirements for the installation of Windows 7 Professional is available at <http://www.microsoft.com>.

### Supported current models

- HP EliteBook 2530p Notebook PC
- HP EliteBook 2730p Notebook PC
- HP EliteBook 6930p Notebook PC
- HP EliteBook 8530p Notebook PC
- HP EliteBook 8530w Mobile Workstation PC
- HP EliteBook 8730w Mobile Workstation PC
- HP Compaq 6530b Notebook PC
- HP Compaq 6730b Notebook PC
  
- HP Compaq 6535b Notebook PC
- HP Compaq 6735b Notebook PC

### Supported legacy models

- HP Compaq 2510p Notebook PC
- HP Compaq 2710p Notebook PC
- HP Compaq 6910p Notebook PC
- HP Compaq 8510p Notebook PC
- HP Compaq 8510w Mobile Workstation
- HP Compaq 8710p Notebook PC
- HP Compaq 8710w Mobile Workstation
- HP Compaq 6510b Notebook PC
- HP Compaq 6515b Notebook PC
- HP Compaq 6710b Notebook PC
- HP Compaq 6715b Notebook PC

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#### **WARNING**

Before proceeding with the installation of Windows 7 Professional, you should back up all personal data, such as files and images. If it is not backed up, your personal data will be lost.

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You need the following items to help you install Windows:

- A supported HP business notebook PC model
- High-speed Internet access

- Windows OS recovery media provided by HP
    - Media from an alternate source may require a product ID (PID)<sup>1</sup>
  - HP Driver Recovery DVD for your model or HP SoftPaq Download Manager
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#### Important

Make sure you have the latest compatible versions of drivers and enhancements shown in tables 1 and 2. In addition, you must have a Microsoft operating system license for each system on which you install Windows 7 Professional.

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#### Note

You can also download HP drivers and utilities – including the most current BIOS for supported notebook PC models – from the [HP website](#).

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## Installing the OS, drivers, and enhancements

This section provides guidelines for users performing a clean installation of Windows 7 Professional on a supported HP business notebook PC.

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#### Important

Follow the installation instructions in the order provided. Failure to complete these steps in the proper order can result in an unsuccessful or unstable installation. This section provides guidelines for users who perform a clean installation of Microsoft Windows.

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1. Update to the latest BIOS version.
2. Change the boot order in F10 Setup so that the optical drive is the first boot device.
3. Boot with the Windows OS recovery disc provided by HP; follow the on-screen instructions for installation.
  - OS recovery media from HP do not require a product ID or key for installation on a supported current HP business notebook PC. Legacy models will require a valid product ID.
  - Retain the **HP\_TOOLS** partition to provide support for HP QuickLook 2, the F10 Setup graphical user interface, and HP diagnostics on current models. For more information, refer to the white paper, “HP Business Notebook Computer EFI Guidelines.”
4. If necessary, install the appropriate communications driver from the HP website, or, if available, the Driver Recovery DVD and configure your Internet connection.
5. Install critical and other Microsoft patches from [www.microsoft.com/windowsupdate](http://www.microsoft.com/windowsupdate). Reboot the system after the patches have been installed.
6. Install the drivers and enhancements listed using HP SoftPaq Download Manager (available from [www.hp.com/go/sdm](http://www.hp.com/go/sdm)); alternatively, you can download individual SoftPaqs from the HP website. For more information, refer to [Appendix A: Using HP SoftPaq Download Manager](#).

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<sup>1</sup> Typically provided on the product's Certificate of Authenticity

## Drivers and enhancements

**Table 1.** Minimum recommended SoftPaqs for current models (2530p, 2730p,6930p, 8530p, 8530w, 8730w, etc.).

Item	Windows 7 Professional x86		Windows 7 Professional 64		Required
	Version	SoftPaq	Version	SoftPaq	
ADI Sound MAX ADI Audio Driver	6.10.2.7255	45115	6.10.2.7255	45115	Yes
ATI Video Driver (6930p/8530p)	8.6321.1	44935	8.6321.1	44935	Yes
ATI Video Driver (6535b/6735b)	8.632.1.1	45125	8.632.1.1	45125	Yes
AMD Video Driver (8730w/8530w)	8.632.1.3	45697	8.632.1.3	45697	Yes
BIOS Configuration for HP ProtectTools	4.0.4.2	43857	4.0.4.2	43857	No
Broadcom Wireless LAN Driver	5.30.21.0	44923	5.30.21.0	44923	Yes
Chicony Camera Driver	5.8.39017.0	44340	5.8.39017.0	44340	Yes
Embedded Security for HP ProtectTools	5.60	43889	5.60	43889	No
Essential System Updates	1.00	45864	1.00	45864	Yes
LSI High Definition Audio (HAD) Modem Installer and Driver	2.1.94.0	45228	2.1.94.0	45228	Yes
HP 3D DriveGuard	4.0.3.1	44320	4.0.3.1	44320	Yes
HP ProtectTools Security Manager Suite	4.10.10.3	44868	4.10.10.3	44868	Yes
HP Quick Launch Buttons	6.50.4.2	44777	6.50.4.2	44777	Yes
HP QuickLook 2 Software	2.00	42393	2.00	42393	No
HP System Diagnostics (EFI)	2.1.0.0	44701	2.1.0.0	44701	No
HP Webcam	1.0.065.0612	44106	1.0.065.0612	44106	No
HP Wireless Assistant	3.50.9.1	44700	3.50.9.1	44700	Yes
Intel AMT Driver	4.2.0.1017	45131	4.2.0.1017	45131	Yes
Intel Matrix Storage Manager	8.9.2.1002	45106	8.9.2.1002	45106	Yes
Intel PRO/Wireless Drivers	13.0	45671	13.0	45671	Yes
Intel Video Driver and Control Panel (2730p only)	8.15.10.1855	45570	8.15.10.1855	45572	Yes
Intel Video Driver and Control Panel	8.15.10.1855	45571	8.15.10.1855	45573	Yes
LightScribe System Software	1.18.6.1	44843	1.18.6.1	44843	No

NVIDIA Graphics Driver	186.24	44660	186.24	44660	Yes
Privacy Manager for HP ProtectTools	1.0.1.599	44789	1.0.1.599	44789	No
Ricoh Media Card Reader Driver	2.10.00.04	45112	2.10.00.04	45112	Yes
SCR33x USB Smart Card Reader Driver	4.45.0.0	45342	4.45.0.0	45342	Yes
Software Support for HP Integrated Module with Bluetooth Wireless	7.0	44774	7.0	44774	Yes
Synaptics Touchpad Driver	13.2.6.2	44921	13.2.6.2	44921	Yes
System Default Settings	1.0.0.7	45219	1.0.0.7	45219	Yes
Wacom Digitizer Driver (2730P only)	5.0.5.5	44664	5.0.5.5	44664	Yes

**Table 2.** Minimum recommended SoftPaks for legacy models (2510p, 2710p,6910p, 8510p, 8510w, 8710w, etc.).

Item	Windows 7 Professional x86		Windows 7 Professional 64		Required
	Version	SoftPak	Version	SoftPak	
ADI AD1984HD Audio Driver	6.10.2.5240	45920	6.10.2.5240	45920	Yes
ATI Video Driver (8510p)	8.632.1.1	44935	8.632.1.1	44935	Yes
ATI Video Driver (8510w)	8.632.1.3	45697	8.632.1.3	45697	Yes
ATI Video Driver (6515b/6715b)	8.593.100.5	46004	8.593.100.5	46004	Yes
Broadcom Wireless LAN Driver	5.60.18.8	45524	5.60.18.8	45524	Yes
Conexant Modem Driver	1.00	46035	1.00	46035	Yes
Embedded Security for HP ProtectTools	5.60	44703	5.60	44703	No
Essential System Updates	1.0	45864	1.0	45864	Yes
HP 3D DriveGuard	4.0.3.1	44320	4.0.3.1	44320	Yes
HP ProtectTools Security Manager Suite	4.10.10.3	44868	4.10.10.3	44868	Yes
HP Quick Launch Buttons	6.50.7.1	45889	6.50.7.1	45889	Yes
HP Wireless Assistant	3.50.10.1	45222	3.50.10.1	45222	Yes
Intel AMT Driver	2.6.10.1043	44015	2.6.10.1043	44015	Yes
Intel Matrix Storage Manager	8.9.2.1002	45106	8.9.2.1002	45106	Yes
Intel PRO/Wireless Drivers	13.0	45671	13.0	45671	Yes
Intel Video Driver and Control Panel	8.15.10.1867	45738	8.15.10.1867	45740	Yes
Intel Video Driver and Control Panel (2710p only)	8.15.10.1867	45739	8.15.10.1867	45741	Yes
Privacy Manager for HP ProtectTools	1.0.1.599	44789	1.0.1.599	44789	No
NVIDIA Graphics Driver	186.24	44660	186.24	44660	Yes
Ricoh Media Card Reader Driver	2.10.00.04	45112	2.10.00.04	45112	Yes
Software Support for HP Integrated Module with Bluetooth Wireless	7.0	44774	7.0	44774	Yes
Sonix Camera Driver (2710p only)	5.8.19003.0	43750	5.8.19003.0	43750	Yes
Synaptics Touchpad Driver	13.2.6.2	44921	13.2.6.2	44921	Yes
System Default Settings	1.0.0.8	45457	1.0.0.8	45457	Yes

## Appendix A: Using HP SoftPaq Download Manager

To use HP SoftPaq Download Manager, perform the following steps after manually installing Windows:

1. Boot the Windows OS.
2. Open Microsoft Internet Explorer.
3. Download and install HP Softpaq Download Manager from [www.hp.com/go/sdm](http://www.hp.com/go/sdm).
4. When prompted, select **Show software for all supported models**.
5. Select appropriate SoftPaqs from the **Driver** and **Operating System** categories.
  - If duplicate titles appear, select the version with the latest release date that supports the particular notebook PC model.
6. Select any desired software from the remaining SoftPaq categories.
7. After installation is complete, reboot the system.

## Appendix B: Known Anomalies

**Anomaly:** Windows Vista cannot be upgraded to Windows 7 with HP ProtectTools installed

**Description:** Windows 7 upgrade installation from Windows Vista will stop if HP ProtectTools is installed.

**Systems Affected:** All models.

**Operating Systems Affected:** Windows Vista

**Resolution:** Prior to installing Windows 7, use the “Check for Compatibility” utility presented after launching setup from the Windows 7 OS DVD. This utility will advise of any applications which must be removed from Windows Vista prior to upgrade. Alternatively, a clean install of Windows 7 will not encounter this issue. An updated version of HP ProtectTools can be installed once installation of Windows 7 is completed.

## Appendix C: Windows XP Mode and Windows Virtual PC

Windows XP Mode is a new feature supported in Windows 7 Professional and Windows 7 Ultimate. Windows XP Mode allows a virtual machine running Windows XP Professional to be accessed from within Windows 7. Users can install legacy applications in the Windows XP Mode environment for greater compatibility and convenience. These applications can be launched directly from Windows 7.

Microsoft Windows XP Mode requires a processor capable of hardware virtualization with the feature enabled. HP recommends that virtualization technology remained disabled unless specialized applications are being used in order to reduce potential security risks.

Enabling Virtualization Technology in BIOS Setup and XP Mode Installation:

1. Restart the computer, then press F10 to enter BIOS Setup while the “Press the Esc key for Startup Menu” message is displayed in the lower left corner of the screen.
2. Enable the Virtualization Technology setting listed in the Device Configuration section of the System Configuration tab.
  - a. If this option is not available, your CPU does not support virtualization technology
3. Exit and save changes.

Installing Windows Virtual PC and Windows XP Mode Installation:

1. Go to the Microsoft website at <http://www.microsoft.com/windows/virtual-pc/>.
2. Click on "Get Windows XP Mode and Windows Virtual PC now".
3. Follow the on-screen instructions to download and install Windows XP Mode.
4. After installation is complete, reboot the system.
5. Click on All Programs>Windows Virtual PC>Windows XP Mode.
6. Follow the on-screen instructions to configure Windows XP Mode.
7. Within the Windows XP Mode environment, install desired applications.
  - a. Applications installed in the Windows 7 environment will not be accessible in the Windows XP Mode environment
  - b. As with any OS installation, antivirus software and regular OS updates are highly recommended

For additional information on Windows XP Mode, go to the Microsoft website at <http://www.microsoft.com/windows/virtual-pc/>.

## Appendix D: Q & A

**Q . How do I know if my CPU supports virtualization technology?**

**A .** Many processors from Intel and AMD support virtualization technology, including:

AMD Turion X2  
AMD Turion II  
AMD Athlon X2  
Intel® Core™ 2 Extreme Processor QX9300  
Intel® Core™2 Extreme Processor X9100  
Intel® Core™2 Duo Processor T9900  
Intel® Core™2 Duo Processor T9800  
Intel® Core™2 Duo Processor T9600  
Intel® Core™2 Duo Processor T9550  
Intel® Core™2 Duo Processor T9400  
Intel® Core™2 Duo Processor P9500  
Intel® Core™2 Duo Processor P8800  
Intel® Core™2 Duo Processor P8700  
Intel® Core™2 Duo Processor P8600  
Intel® Core™2 Duo Processor P8400  
Intel® Core™ 2 Duo LV Processor SL9300  
Intel® Core™ 2 Duo LV Processor SL9400  
Intel® Core™ 2 Duo LV Processor SL9600  
Intel® Core™ 2 Duo ULV Processor SU9300  
Intel® Core™ 2 Duo ULV Processor SU9400

If your processor does not appear on this list, a utility to test for hardware virtualization technology support is available from Microsoft at <http://www.microsoft.com/windows/virtual-pc/>.

**Q . Why should I install anti-virus software in XP Mode?**

**A .** XP Mode is a virtualized PC environment within Windows 7 and is susceptible to viruses and other threats. This environment should also be maintained with updates and patches.

**Q . Why is virtualization technology disabled by default?**

**A .** Virtualization technology is disabled in F10 Setup to reduce potential security threats. This should only be enabled when used with applications which require hardware virtualization.

## For more information

To learn more about HP business notebooks, contact your local HP sales representative or visit [www.hp.com/go/notebooks](http://www.hp.com/go/notebooks).

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