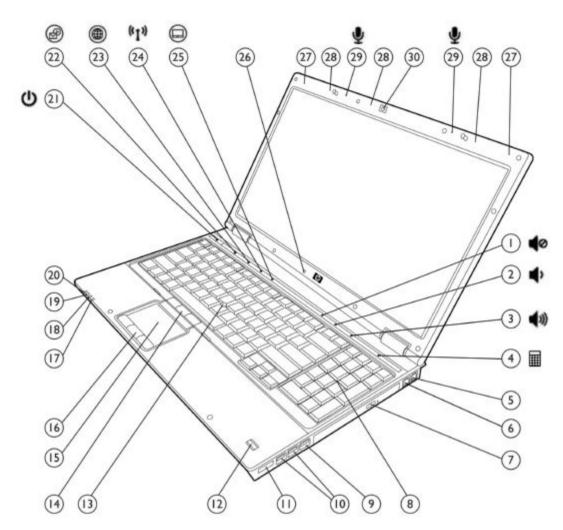
## Overview

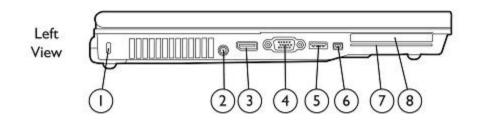


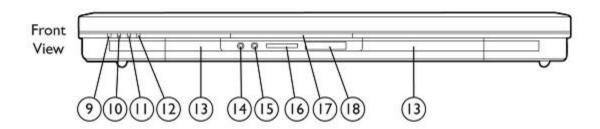
- 1. Volume mute button with LED indicator
- 2. Volume down button with LED indicator
- 3. Volume up button with LED indicator
- 4. Calculator button with LED indicator
- 5. RJ-11/modem port
- 6. RJ-45/Ethernet port
- 7. Upgrade Bay (optical drive or second hard drive)
- 8. Full numeric keypad
- 9. USB 2.0 port
- 10. (2) USB 3.0 ports
- 11. eSATA port
- 12. HP Fingerprint Sensor
- 13. Pointstick
- 14. Pointstick buttons (3)
- 15. Touchpad with scroll zone

- 16. Touchpad buttons (3)
- 17. Drive activity / HP 3D DriveGuard LED indicator
- 18. Battery charging LED indicator
- 19. Power/standby LED indicator
- 20. Wireless on/off LED indicator
- 21. Power button with LED indicator
- 22. HP QuickLook 3 button with LED indicator
- 23. HP QuickWeb button with LED indicator
- 24. Wireless on/off button with LED indicator
- 25. Touchpad on/off button with LED indicator
- 26. Ambient Light Sensor
- 27. WWAN antennas
- 28. Three WLAN antennas
- 29. Dual-microphone array
- 30. 2 MP Webcam with LED



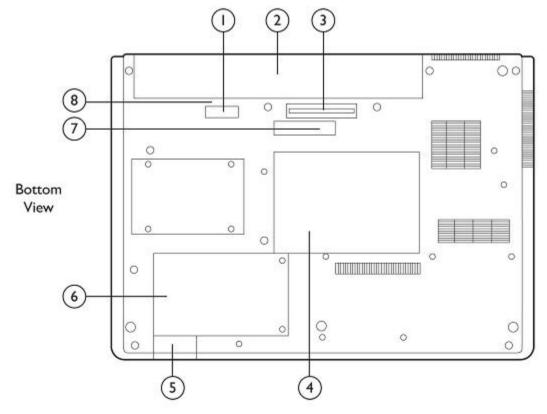
## Overview



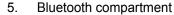


- 1. Kensington Lock slot
- 2. Power connector
- 3. DisplayPort
- 4. VGA/external monitor connector
- 5. USB 2.0 port
- 6. 1394a port
- 7. Integrated Smart Card Reader
- 8. ExpressCard/54 slot
- 9. Wireless on/off LED indicator

- 10. Power/standby LED indicator
- 11. Battery charging LED indicator
- 12. Dive activity / HP 3D DriveGuard LED indicator
- 13. Integrated stereo speakers
- 14. Stereo headphone/line out
- 15. Stereo microphone in
- 16. Media Card Reader
- 17. Business Card Reader slot
- 18. Display release latch



Battery release latch





### Overview

- 2. Battery bay
- 3. Docking connector
- 4. Memory module and WWAN/WLAN module compartment
- 6. Hard drive bay
- 7. Secondary battery connector
- 8. SIM slot for WWAN (select models) inside battery bay under the battery

## At A Glance

- Genuine Windows 7 versions, Genuine Windows Vista versions, Genuine Windows XP Professional available through downgrade rights from Windows 7 Professional, or FreeDOS
- Widescreen 17.0-inch diagonal LED-backlit WXGA+, WSXGA+ WVA, or WUXGA WVA display with optional HP DreamColor: Ambient Light Sensor, optional HP Privacy Filter
- Intel® Core™ i7 or Core i5 processor with Intel Turbo Boost Technology
- ATI FirePro M7820 graphics with 1 GB dedicated GDDR5 memory, NVIDIA Quadro FX 3800M or FX2800 graphics with 1 GB dedicated GDDR3 memory
- Industrial, business rugged construction features a full magnesium alloy chassis, magnesium/aluminum display
  enclosure, metal alloy hinges, gun metal finish; designed to meet the military standard Mil-Std-810G for vibration, dust,
  humidity, altitude, and high and low temperature operation\*
- DisplayPort for external monitors, eSATA port for external storage, two USB 3.0 ports for faster transfer speeds to USB 3.0 peripherals and compatibility with USB 2.0 peripherals, two USB 2.0 ports
- Choice of 7200 rpm user-removable hard drive up to 500 GB with HP 3D DriveGuard protection, or 256 GB Solid State Drive
- Flexible wireless connectivity options:
  - O Integrated HP un2420 EV-DO/HSPA Mobile Broadband Module provides worldwide Gobi mobile Internet technology with GPS
  - O Integrated Intel Centrino® Ultimate-N / Advanced-N 6000 Series 802.11 a/b/g/n wireless LAN module
  - O Bluetooth® v2.1
- Choice of standard 8-cell primary battery or HP Long Life battery, plus optional external batteries HP Ultra-Capacity Battery, HP Extended Life Battery
- Touch-sensitive controls for HP QuickLook 3 (instant access to email, calendar, contacts and tasks), HP QuickWeb, wireless on/off, touchpad on/off, mute, volume down, volume up, and calculator
- · Optional backlit keyboard
- Optional 2 MP Webcam with Business Card Reader Software
- Dual pointing devices (touchpad with scroll zone and gesture support; pointstick)
- Upgrade Bay for easy optical drive upgrade or optional second hard drive for RAID 1 Mirroring or RAID 0 Striping
- ExpressCard/54 slot, Media Card Reader
- Fully ISV certified for workstation reliability and graphics-intense applications
- HP Performance Advisor for optimal configuration, compatibility and performance
- HP Power Assistant to conserve power, increase battery run-time, monitor power needs, report workforce power consumption
- Enhanced security features including integrated Smart Card Reader, HP ProtectTools, Computrace LoJack Pro ready, HP SpareKey, HP Disk Sanitizer, TPM 1.2;\*\* HP Fingerprint Sensor, and optional HP Privacy Filter
- New central management software for HP ProtectTools to manage the secutiry of multiple notebooks from a single point
- HP SkyRoom full version for professional quality visual collaboration built on HP Video and Image processing engines for hi-fi audio, hi-def video, and hi-performance 3D application sharing



<sup>\*</sup> Testing was not intended to demonstrate fitness for DOD contracts requirements or for military use. Test results are not a guarantee of future performance under these test conditions.

<sup>\*\*</sup> TPM module disabled where not permitted by law (for example, Russia and China).

## Standard Features

### **Processors**

## **Intel Quad-Core Processors**

Intel Core i7-920XM Processor (2.00 GHz, 8 MB L3 cache)\*

Up to 3.20 GHz with Intel Turbo Boost Technology

Intel Core i7-820QM Processor (1.73 GHz, 8 MB L3 cache)\*

Up to 3.06 GHz with Intel Turbo Boost Technology

Intel Core i7-720QM Processor (1.60 GHz, 6 MB L3 cache)\*

Up to 2.8 GHz with Intel Turbo Boost Technology

### Intel Dual-Core Processors

Intel Core i7-620M Processor (2.66 GHz, 4 MB L3 cache)\*

Up to 3.33 GHz with Intel Turbo Boost Technology

Intel Core i5-540M Processor (2.53 GHz, 3 MB L3 cache)\* Up to 3.06 GHz with Intel Turbo Boost Technology

Intel Core i5-520M Processor (2.4 GHz, 3 MB L3 cache)\*

Up to 2.93 GHz with Intel Turbo Boost Technology

\* Intel's numbering is not a measurement of higher performance.

**NOTE:** Processor speed denotes maximum performance mode; processors will run at lower speeds in battery optimization mode.

## **Operating System**

### **Preinstalled**

Genuine Windows 7 Professional Edition 32\*

Genuine Windows 7 Professional Edition 64\*

Genuine Windows XP Professional available through downgrade rights

from Windows 7 Professional\*†

Genuine Windows 7 Home Premium Edition 64\*

Genuine Windows Vista Business 32\*\* Genuine Windows Vista Home Basic 32\*\*

**FreeDOS** 

**Supported** 

Genuine Windows Vista Enterprise 32\*\*
Genuine Windows Vista Enterprise 64\*\*
Genuine Windows Vista Business 64\*\*
Genuine Windows XP Professional 64

### Certified

SuSE Linux Enterprise Desktop 11

† Windows XP Professional is preinstalled on this system and includes end user rights and media for Windows 7 Professional. You may only use one version at a time. You must back up all data (files, photos, etc.) before uninstalling and installing operating systems to avoid loss of your data.

## Chipset

Mobile Intel QM57 Express Chipset



<sup>\*</sup> System may require upgraded and/or separately purchased hardware and/or a DVD drive to install the Windows 7 software and take full advantage of Windows 7 functionality. See: http://www.microsoft.com/windows/windows-7/ for details.

<sup>\*\*</sup> Certain Windows Vista product features require advanced or additional hardware. See: http://www.microsoft.com/windowsvista/getready/hardwarereqs.mspx and http://www.microsoft.com/windowsvista/getready/capable.mspx for details. Windows Vista Upgrade Advisor can help you determine which features of Windows Vista will run on your computer. To download the tool, visit: http://www.windowsvista.com/upgradeadvisor.

## Standard Features

Intel Core i5 with technology capable

Intel Core i5 with vPro and Core i7 with vPro technology is a selectable feature that is available on vPro/Core i7 with vPro units configured with an Intel Centrino® Ultimate-N/Advanced-N 6000 series WLAN module and a preinstalled Windows operating system. It provides advances in remote manageability, security, energy efficient performance, and wireless connectivity. Intel Active Management Technology (AMT) offers built-in manageability and proactive security for networked notebook PCs, even when they are powered off\* or when the operating system is inoperable. It can help identify threats before they reach the network, isolate infected systems, and update PCs regardless of their power

HP EliteBook 8740w Mobile Workstatio

\*Requires a Windows operating system, network hardware and software, connection with a power source, and a direct (non-VPN) corporate network connection which is either cable or wireless LAN.

NOTE: Some functionality of Intel Core i5 with vPro/Core i7 with vPro technology, such as Intel Active Management technology and Intel Virtualization technology, requires additional 3rd party software in order to run. Availability of future "virtual appliances" applications for Intel Core i5 with vPro/Core i7 with vPro technology is dependent on 3rd party software providers. Compatibility with future "virtual appliances" is yet to be determined.

## **Graphics**

ATI FirePro M7820 graphics with 1 GB dedicated GDDR5 video memory Microsoft DirectX 11 (Shader Model 4.1) and OpenGL 3.2 capable

NVIDIA Quadro FX 3800M graphics with 1 GB dedicated GDDR3 video memory NVIDIA Quadro FX 2800M graphics with 1 GB dedicated GDDR3 video memory Microsoft DirectX 10.1 (Shader Model 4.1) and OpenGL 3.1 capable

### **Display**

#### Internal

17.0-inch diagonal LED-backlit WXGA+ anti-glare

(1440 x 900 resolution)

17.0-inch diagonal LED-backlit WSXGA+ wide-viewing angle anti-glare (1680 x 1050 resolution)

17.0-inch diagonal LED-backlit WUXGA wide-viewing angle anti-glare (1920x1200 resolution)

(optional HP DreamColor\* available May 2010)

Ambient Light Sensor Integrated lid switch Optional HP Privacy Filter

HP EliteBook 8740w Mobile Workstations with DreamColor technology are not available with HP Mobile Broadband.

## **External**

Up to 32-bit per pixel color depth

DisplayPort supports resolutions up to 2560 x 1600, 30-bit color depth at 60 Hz, and full HD (1920 x 1080) monitors, 24-bit color depth at 120 Hz

VGA port supports resolutions up to 2048 x 1536 at 75 Hz, and lower resolutions at up to 100 Hz

DVI-D (single link) video signal available through DVI port in optional HP Docking Station (sold separately)

supports resolutions up to 1600 x 1200 at both full and reduced

blanking, and 1920 x 1200 at reduced blanking

NOTE: Resolutions are dependent upon monitor capability, and resolution and color depth settings.



### Standard Features

Memory **Standard** DDR3 PC3-10600 SDRAM (1333 MHz)\*

Two or four SODIMM slots supporting dual-channel memory

2048 MB and 4096 MB SODIMMs

**NOTE:** Four memory slots only on models with quad-core processor.

Maximum Upgradeable to 16384 MB with Intel quad-core processor configuration

with four memory slots - (4) 4096 MB SODIMMs.

Maximum memory is 8192 MB with Intel dual-core processor configuration with two memory slots – (2) 4096 SODIMMs.

**Dual-channel** Maximized dual-channel performance requires SODIMMs of the same

size and speed in both memory channels.

\* With some processors, memory bus runs at a maximum of 1066 MHz.

NOTE: Due to the non-industry standard nature of some third-party memory modules, we recommend HP branded memory to ensure compatibility. If you mix memory speeds, the system will perform at the lower memory speed. Full availability of 4 GB or more of memory requires a Windows 64-bit operating system or Linux. With Windows 32-bit operating systems, the amount of usable memory is dependent upon your configuration, so that above 3 GB all memory may not be available due to system resource requirements.

### **Communications**

Integrated Intel Gigabit Ethernet (10/100/1000 NIC)\* 56K V.92 modem\*\*

- \* The term "10/100/1000" or "Gigabit" Ethernet indicates compliance with IEEE standard 802.3ab for Gigabit Ethernet, and does not connote actual operating speed of 1 Gb/s. For high-speed transmission, connection to a Gigabit Ethernet server and network infrastructure is required.
- \*\* Designed for downloads from 56K modem compliant sources. Maximum achievable download transmission rates currently do not reach 56 KB/s, and will vary with line conditions. Modem availability is subject to country regulatory approval.

### **Wireless Devices**

Support for a broad range of secure, integrated wireless LAN and wireless WAN options featuring support for the latest industry standards. Mobile Broadband (WWAN) requires a Windows operating system and is available in select countries as a standard, factory configurable feature or as an option to be added later. Integrated Bluetooth is also available (factory configurable only) and can be combined with any of the supported wireless LAN and wireless WAN options.

HP un2420 EV-**DO/HSPA Mobile Broadband Module\***  Integrated mobile broadband module with Gobi global mobile Internet technology that provides connectivity to both CDMA (EVDO) and UMTS (HSPA) networks. It also provides GPS functionality for various mapping applications and security applications such as Computrace LoJack Pro

Premium for HP ProtectTools.

**NOTE:** Separately purchased mobile network operator service is

required.

Two 850/900/1575/1800/1900/2100 MHz antennas integrated in the top of the display panel support current and future WWAN technologies.

All 802.11 integrated wireless LAN options Wi-Fi Certified\*\*

Cisco Compatible Extensions support

Wired Equivalent Privacy (WEP) support up to 128-bit keys

Wi-Fi Protected Access (WPA) and WPA2 support

802.1x authentication support, including EAP-TLS, EAP-TTLS, PEAP-

GTC, PEAP-MSCHAPv2, and LEAP

Advanced Encryption Standard (AES) support Three antennas integrated in the display enclosure

N 6300 (3x3)

Intel Centrino Ultimate-Integrated support for 802.11a, b, g, and n

3 transmit, 3 receive antennas Up to 450 mbps data rate



## Standard Features

**Intel Centrino** Integrated support for 802.11a, b, g, and n\*\*

Advanced-N 6200 (2x2) 2 transmit, 2 receive antennas

Up to 300 mbps data rate

Up to 300 mbps data rate

**Broadcom 4322AGN** 

Integrated support for 802.11a, b, g, and n

802.11a/b/g/n Wi-Fi Adapter

with Bluetooth

HP Integrated Module Bluetooth Specification v2.1 compliant Works with a wide range of Bluetooth devices

Wireless Technology

\* HP EliteBook 8740w Mobile Workstations with DreamColor technology are not available with HP Mobile Broadband.

\*\* In countries where 802.11n is not allowed, this capability is not enabled (802.11a/b/q only).

## Keyboard

The HP spill-resistant keyboard is designed using a thin layer of Mylar film under the keyboard and a drain system that funnels fluid through a hole in the bottom of the notebook. This minimizes the risk of damage to sensitive components underneath. The 101/102-key compatible keyboard features an industry standard, full-pitch key layout with desktop keyboard features, such as the isolated inverted-T cursor control keys, editing keys, both left and right control and alt keys, and 12 function keys, U.S. and International key layouts are available. Includes a full numeric keypad. hotkeys for instant access to power conservation, brightness, and other features. It has 19.05 x 19.05 mm key pitch (center-to-center spacing) and 3.0 mm stroke.

HP DuraKeys is a clear coating applied over the notebook keyboard that helps protect the finish and the printed characters on the keys. HP DuraFinish helps protect the finish on the keyboard deck, graphics, and icons from normal wear and tear.

Optional backlit keyboard available May 2010.

## Touch-sensitive controls

Touch-sensitive controls provide easy access to the following features: HP QuickLook 3, HP QuickWeb, wireless on/off, touchpad on/off, volume mute, volume down, volume up, and calculator button.

Dual Pointing devices Touchpad with scroll zone and gesture support, three pick buttons Pointstick with three additional pointstick buttons

## **Expansion card slots**

ExpressCard/54 slot Supports ExpressCard/54

Integrated Smart Card Compatible with ISO 7816 compliant Smart Cards

Reader PC/SC interface support

Supports SD (Secure Digital), MMC (MultiMedia Card), Memory Stick, Media Card Reader

Memory Stick Pro, Memory Stick Duo\*, xD-Picture card

\* Memory Stick Duo Adapters are required and sold separately. Inserting a Memory Stick Duo Card directly into your notebook could damage the memory card and/or notebook.



## Standard Features

**Internal Storage Hard Drives** 250/320/500 GB 7200 rpm SMART SATA II

NOTE: These hard drives are customer removable and will withstand multiple insertion/removal

cycles. Up to 15 GB is reserved for the system recovery software.

**HP 3D DriveGuard** 

The hard drive is mounted directly to the notebook frame, reducing the transmission of shock to the hard drive. Uses three-axis digital motion (Windows only)

detection with intelligent sensitivity to help protect the hard drive during normal use from shock and vibration. The digital accelerometer

temporarily halts all data transfer and parks the hard drive when abrupt

motion is detected.

256 GB Solid State Drive **Solid State Drives** 

**Upgrade Bay** 

Fixed 12.7 mm SATA

optical drive

Blu-ray R/RE DVD+/-RW SuperMulti DL Drive

Blu-ray ROM DVD+/-RW SuperMulti DL LightScribe Drive

DVD+/-RW SuperMulti DL LightScribe Drive

**DVD-ROM Drive** 

Second hard drive\* 500 GB 7200 rpm SMART SATA II Hard Drive \* For RAID configurations, both hard drive capacities must be equal.

**Interfaces** 

ExpressCard/54 slot

**Smart Card Reader** 

One One

One

**External monitor** 

Two - (1) DisplayPort, (1) VGA

**Media Card Reader** 

1394a One

Stereo microphone in One

Stereo headphone/line One

**Power connector** One RJ-11/modem One **RJ-45/Ethernet** One **USB 2.0** Two

**USB 3.0** Two (for USB 2.0 and USB 3.0 peripherals)

**eSATA** One One **Docking connector** Secondary battery One

connector



## Standard Features

### Audio/Visual

High definition audio Integrated stereo speakers Integrated dual-microphone array

Touch-sensitive controls for volume up, volume down, and mute

Stereo headphone/line out Stereo microphone/line in

Optional 2 MP webcam with Business Card Reader software

- Supports videoconferencing and still image capture
- Large image sensor for excellent color matching and good low light sensitivity
- Up to 30 frames/sec
- AutoMacro focus lens
- Video capture at VGA, 1.3 Mpixel, and 2 Mpixel resolutions
- 16-bit true color (camera sensors output YCrCb format among others)

HP SkyRoom full version for professional quality visual collaboration built on HP Video and Image processing engines for hi-fi audio, hi-def video, and hi-performance 3D application sharing

### **Software**

Preinstalled software with Windows operating system

HP Recovery Manager (available with Windows 7 or Vista only) HP Support Assistant (available with Windows 7 or Vista only)

HP ProtectTools Security Manager

HP QuickLaunch Buttons Software

HP QuickLook 3 HP QuickWeb HP Power Assistant HP Connection Manager HP Wireless Assistant

HP SkyRoom

Microsoft Office Professional 2007 60-day Convertible Trial

McAfee Total Protection\*
PDF Complete SE

Roxio Creator Business 10 (select models)

InterVideo WinDVD (select models)

Synaptics Touchpad Driver HP Webcam Software

WinZip 12

Additional software HP SoftPaq Download Manager available from the web HP Client Manager Software

**HP Client Management Solutions** 

\* 60 day trial period for McAfee Total Protection for Small Business software. Internet access required to receive updates. First update included. Subscription required for updates thereafter.



## Standard Features

**Planned Workstation ISV Certifications** 

**MCAD** (Mechanical CAD/Architectural Engineering and Construction)

AutoDesk AutoCAD AutoDesk Inventor AutoDesk Revit AutoDesk AliasStudio AutoDesk Map 3D AutoDesk Civil 3D Bentley InRoads XM

CEI

CoCreate OneSpace

**Bentley Microstation Bentley Navigator** 

Dassault Systemes CATIA V5

**ICEM Surf** Intelligent Light

MSC Software MSC.Patran MSC Software SimXpert PTC Pro/ENGINEER Wildfire

SensAble

Siemans PLMS NX

Siemans PLMS NX I-deas Siemans PLMS Solid Edge

Siemans PLMS TeamCenter Visualization

Solidworks

DCC (Digital Content Creation)

Adobe After effects Adobe Encore Adobe Photoshop

Adobe Premiere

AutoDesk 3DS MAX/Combustion

AutoDesk Mava Avid Xpress Pro Avid Media Composer

SoftImage XSI **ESRI ArcGIS** 

(Geographic Information

Systems)

**GIS** 

Oil and Gas Landmark R5000

> Paradigm EPOS, GoCAD Schlumberger / GeoFrame Schlumberger Petrel SeismicMicro Technology

**HP Performance Advisor** 

HP Performance Advisor enables optimal configuration of HP Mobile Workstations delivering stability and best performance. It is available as a download from http://www.hp.com to guide your system setup allowing a "custom" configuration that best matches the workstation to user requirements.

HP Recovery Manager Models shipped with Windows 7 or Windows Vista include HP Recovery Manager. HP Recovery Manager enables fast recovery of the factory preinstalled image if the system becomes corrupted or if important system files are accidentally deleted. Up to 15 GB of the hard drive is reserved for the system recovery software.



## Standard Features

### Security

#### Standard Features HP ProtectTools Security Manager

**HP Fingerprint Sensor** 

Integrated Smart Card Reader **Enhanced Pre-Boot Security** 

**HP SpareKey** One-Step Logon Setup Password DriveLock Password

TPM 1.2 Embedded Security Chip\*

TPM Enhanced DriveLock\*

**HP Disk Sanitizer** Kensington Lock slot

Support for Computrace\*\* LoJack Pro for HP ProtectTools

## **Optional Features**

**HP Privacy Filter** 

Narrows viewing area so that screen data is visible only to persons directly in front of the

monitor.

Computrace\*\* LoJack **Pro Premium for HP Tracking** 

Subscription based security solution providing the ability to track, initiate physical recovery, ProtectTools with GPS conduct asset management, and perform remote data delete by utilizing GPS technology. GPS functionality requires HP un2420 EV-DO/HSPA Mobile Broadband

Module.

## **HP ProtectTools Central Management**

HP ProtectTools Security Manager is the security platform for business notebooks and desktops. Security Manager with The HP ProtectTools Security Manager is an extensible client security console that delivers enhanced security capabilities through add-on software modules. The following modules are available on the hard drive (also downloadable from the web) and can be configured in Software Setup:

- Credential Manager for HP ProtectTools
- Device Access Manager for HP ProtectTools
- Drive Encryption for HP ProtectTools
- File Sanitizer for HP ProtectTools
- Privacy Manager for HP ProtectTools (Chat & Sign)
- Embedded Security for HP ProtectTools
- Computrace LoJack Pro for HP ProtectTools

HP ProtectTools is now centrally manageable with the capability to manage notebooks from a single point. On the HP EliteBook 8740w. Security is management ready out of the box, in partnership with Digital Persona. New features address requirements that customers expect from a centrally managed security solution such as user provisioning, credential reset, and credential revocation.

HP ProtectTools provides two separate management solutions, targeted at the enterprise and the SMB:

 Digital Persona Pro AD: Designed for the enterprise customer. A fee-based solution that integrates with Active Directory and gives IT Managers the ability to provision users, create login policies based on passwords, biometrics or smartcards. Management features also include remote credential recovery in case the user forgets the password, loses the smartcard or cannot use the fingerprint reader for any reason. In addition, advanced auditing capabilities are also built in. Digital Persona Pro AD is available now.



<sup>\*</sup> TPM module disabled where use is restricted by law; for example, Russia and China.

<sup>\*\*</sup> The Computrace agent is shipped turned off, and must be activated by customers when they purchase a subscription with terms ranging from one to five years. For more information on HP security solutions refer to: http://www.hp.com/go/security.

## Standard Features

 Digital Persona Pro Workgroup: Designed for the small business customer. Provides features similar to the Active Directory version, but for workgroups. Workgroup activation is built into HP ProtectTools, and activation of up to 5 seats is completely free.

## **Power Supply**

External 200-watt Slim Smart AC adapter

External 230-watt Slim Smart AC adapter (available only with Intel Core XM Processor, NVIDIA Quadro FX 3800M graphics, and HP DreamColor display option)

Power cord included is 6-foot (1.8 meter).

Total length including external AC adapter is 12 feet (3.66 meter).

**HP Fast Charge\*** 

\*HP Fast Charge recharges your battery up to 90% within 90 minutes when the system is off. HP Fast Charge does not apply to the HP Ultra-Capacity Battery.

**Battery** 

**Primary battery** HP 8-cell 73 WHr Li-Ion Primary Battery

HP Long Life 8-cell 68 WHr Li-Ion Primary Battery

Optional secondary

battery

HP Extended Life Battery (8-cell 52 WHr)

HP Ultra-Capacity Battery (12-cell 95 WHr)

**Battery Life** 

HP 8-cell 73 WHr Primary HP Long Life 8-cell 68 WHr

**Primary** 

Primary battery only

Up to 3 hours and 30 minutes

Up to 3 hours and 15 minutes

Primary battery and optional HP Extended

Life Battery

Up to 8 hours

Up to 6 hours

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Primary battery and optional HP Ultra-Capacity Battery

**NOTE:** Battery life will vary depending on the product model, configuration, loaded applications, features, use, wireless functionality and power management settings. The maximum capacity of the battery will naturally decrease with time and usage. See MobileMark07 battery benchmark www.bapco.com/products/mobilemark2007 for additional details.

### **System Standby Time**

Up to 2 weeks

### **Power Conservation**

Supports enhanced Intel SpeedStep technology (allows Battery Optimized Mode, Maximum

Performance Mode, or Automatic mode)

NVIDIA PowerMizer 7.0 technology ATI PowerXpress technology

Hibernation

Standby

ACPI compliance



<sup>\*\*</sup> This configuration not tested for battery life.

## Standard Features

### **Docking and Stands**

**HP Docking Station** 

HP Advanced Docking Station HP USB 2.0 Docking Station

HP Essential USB 2.0 Port Replicator HP Dual Hinge Notebook Stand HP Display and Notebook Stand HP Adjustable Display Stand HP Adjustable Dual Display Stand

### **Service and Support**

HP Services offers limited 3-year, 1-year and 90-day warranty options depending on country; 1-year limited warranty on primary battery. On-site service and warranty upgrades are also available. HP Care Pack Services extend service contracts beyond the standard warranties. To choose the right level of service for your HP product, use the HP Care Pack Services Lookup Tool at: http://www.hp.com/go/lookuptool. Additional HP Care Pack Services information by product is available at: http://www.hp.com/hps/carepack.

**NOTE:** Certain restrictions and exclusions apply. Consult the HP Customer Support Center for details.

http://h20000.www2.hp.com/bizsupport/TechSupport/ProductRoot.jsp.



Options		
Memory	HP 2 GB (DDR3 1333 MHz) SODIMM	AT912AA
	HP 4 GB (DDR3 1333 MHz) SODIMM	AT913AA
Storage	HP Upgrade Bay SATA DVD+/-RW SuperMulti DL LightScribe Drive	AK869AA
	HP 250GB Pocket Media Drive	FE477AA
	HP External USB Drive CD/DVD R/RW	FS943AA
	HP Upgrade Bay SATA 500 GB 7200 rpm Hard Drive	AU097AA
	HP Primary SATA 500 GB 7200 rpm Hard Drive	AU098AA
Expansion Solutions	HP Docking Station	VB043AA
•	HP Advanced Docking Station	NZ222AA
	HP USB 2.0 Docking Station	FQ834AA
	HP Compaq USB 2.0 Docking Station	AY052AA
	HP Essential USB 2.0 Port Replicator	AQ731AA
	HP Dual Hinge Notebook Stand	AW661AA
	HP Display and Notebook Stand	AW662AA
	HP Adjustable Display Stand	AW663AA
	HP Adjustable Dual Display Stand	AW664AA
Communications	HP un2420 EVDO/HSPA Mobile Broadband Module	WD301AA
Power	HP 180W Smart AC Adapter	AK875AA
	HP 8500/8700 Series 8-Cell Primary Battery	KU533AA
	HP Extended Life Battery	AJ359AA
	HP Ultra-Capacity Battery	AT486AA
	HP 230W Smart Adapter	AT895AA
Carrying Cases	HP Deluxe Nylon Backpack	RR317AA
	HP Deluxe Roller Case	GD405AA
	HP Basic Backpack	AM863AA
	HP 17.3 Quick Case with Integrated Fan	AY467AA
	HP 17.3 Slip Case with Integrated Fan	AY464AA
	HP Basic Messenger	AP355AA
	HP Basic Carrying Case	AJ078AA
Security	HP/Kensington MicroSaver Security Lock	PC766A
	HP 17.0-inch Display Privacy Filter	GA890AV
	HP ExpressCard Smart Card Reader	AJ451AA
	HP Compaq Notebook Cable Lock	AY475AA



## **Options**

Input/Output Devices	HP PS/2 Keyboard & Mouse Bundle	RC464AA
	HP USB Keyboard & Mouse Bundle	RC465AA
	HP USB Optical Travel Mouse	RH304AA
	HP Wireless Mouse	AR085AA
	HP BT Headset	AR084AA
	HP Mobile Audio Speakers	FS944AA
	HP Mobile Productivity Bundle	AQ729AA
	HP Mobile Bluetooth Presenter Mouse	GK872AA
	HP Notebook Companion Projector	AX325AA
	HP DreamColor Calibration Solution	BL529AA
	HP Premium Autofocus Webcam	KQ245AA
	HP Premium Digital Headset	KJ270AA
	HP Desktop Mouse	DA700AV



## Memory

DDR3 PC3-10600 SDRAM (1333 MHz)\*

Two or four SODIMM slots supporting dual-channel memory

SODIMM sizes supported: 2048 MB and 4096 MB

NOTE: Four memory slots only on models with quad-core processor.

### **Standard Memory**

- 2048 MB (2048 MB x 1)
- 4096 MB (4096 MB x 1)
- 4096 MB (2048 MB x 2)
- 8192 MB (4096 MB x 2)
- 8192 MB (2048 MB x 4)\*\*
- 12288 MB (4096 MB x 2 + 2048 MB x 2)\*\*
- 16384 MB (4096 MB x 4)\*\*

Optional Memory Upgrades Support for up to 16384 MB\*\* of memory with the installation of optional DDR3 SDRAM memory kits. All memory slots are user-accessible. Please refer to the Hardware and Software Guide for installation procedures. Maximized dual-channel performance requires SODIMMs of the same size and speed in both memory channels.

	Char	Channel A		Channel B	
Up to	Slot 1	Slot 2	Slot 3	Slot 4	
2048 MB	2048 MB		Empty		
4096 MB	4096 MB		Empty		
4096 MB	2048 MB		2048 MB		
8192 MB	4096 MB		4096 MB		
8192 MB**	2048 MB	2048 MB	2048 MB	2048 MB	
12288 MB**	4096 MB	2048 MB	4096 MB	2048 MB	
16384 MB**	4096 MB	4096 MB	4096 MB	4096 MB	

<sup>\*</sup> With some processors, memory bus runs at a maximum of 1066 MHz.

NOTE: This chart does not represent all possible memory configurations. Due to the nonindustry standard nature of some third-party memory modules, we strongly recommend using only HP- branded memory modules to ensure compatibility. If you mix memory speeds, the system will perform at the lower memory speed. Full availability of 4 GB or more of memory requires a Windows 64-bit operating system or Linux. With Windows 32-bit operating systems, the amount of usable memory is dependent upon your configuration, so that above 3 GB all memory may not be available due to system resource requirements.

## **Memory Upgrades**

HP 2 GB (DDR3 1333 MHz) SODIMM HP 4 GB (DDR3 1333 MHz) SODIMM AT912AA AT913AA



<sup>\*\*</sup> Requires quad-core processor configuration with four memory slots.

Storage

## **Upgrade Bay Drive Support**

## **Internal Storage Device**

y Supported Drive Bay	
Dedicated hard drive	e bay
Dedicated hard drive	e bay
Dedicated hard drive	e bay
Dedicated hard drive	bay
	Dedicated hard drive  Dedicated hard drive  Dedicated hard drive



## Technical Specifications

**System Unit Dimensions** (HxWxD) 1.4 in (at front) x 15.6 in x 11.2 in

36.5 mm (at front) x 397.5 mm x 285.5 mm

Weight Starting at 7.8 lb (3.57 kg)

NOTE: Height varies depending upon where on the notebook the measurement is made. Weight varies by configuration and components. Weight includes hard drive, optical drive, and wireless.

**Stand-Alone Power** Requirements (AC

**Nominal Operating** Voltage

18.5 V

Power)

Average Operating

35.5 W

Power

Max Operating Power < 90 W

> or < 120 W or < 150 W

**Temperature** Operating 32° to 95° F (0° to 35° C) (not writing optical)

41° to 95° F (5° to 35° C) (writing optical)

Non-operating -4° to 140° F (-20° to 60° C) 10% to 90%, non-condensing Operating

5% to 95%, 101.6° F (38.7° C) maximum wet Non-operating

bulb temperature

125 G, 2 ms, half-sine **Shock** Operating

> Non-operating 200 G, 2 ms, half-sine

**Random Vibration** Operating 0.75 grms

> Non-operating 1.50 grms

**Altitude** Operating -50 to 10,000 ft (-15.24 to 3,048 m) (unpressurized) Non-operating -50 to 40,000 ft (-15.24 to 12,192 m)

**Industry Standard** Certifications

**Relative Humidity** 

UL Yes **CSA** Yes **FCC Compliance** Yes

**ENERGY STAR®** Select models\*

**EPEAT** Registered TBD in United States\*\*

**ICES** Yes GS Yes Australia / NZ A-Tick Yes

Compliance

CCC Yes Japan VCCI Compliance Yes **KCC** Yes **BSMI** Yes CE Marking Compliance Yes **BNCI or BELUS** Yes CIT Yes **GOST** Yes Saudi Arabian Yes Compliance (ICCP)

**SABS** Yes UKRSERTCOMPUTER Yes



<sup>\*</sup> Configurations of the HP EliteBook 8740w that are ENERGY STAR qualified are identified as

## Technical Specifications

HP EliteBook 8740w ENERGY STAR on HP websites and on www.energystar.gov.

\*\* EPEAT TBD Registered in U.S. EPEAT registration varies by country. See <a href="https://www.epeat.net">www.epeat.net</a> for registration status by country.

NOTE: For accessibility information on HP products, please visit: http://www.hp.com/accessibility.

HP 230W Slim Smart AC Adapter

**Dimensions** 7.87 x 3.94 x 1.57 in (20.0 x 10.0 x 4.0 cm)

 Weight
 2.87 lb (1300 g)

 Input
 100 to 240 VAC

Input Efficiency 87% min at 115 VAC

Input frequency range 47 to 63 Hz

Input AC current 3.5 A at 90 VAC, 1.75 A at 180 VAC

Output Output power 230W

DC output 19.5V

Hold-up time 5 msec at 115 VAC input

Output current limit <18A, Over voltage protection- 29V max

automatic shutdown

Connector
Environmental Design

3 pin/grounded, mates with interchangeable cords
Operating temperature 32° to 104° F (0° to 35° C)

Non-operating (storage)

-4° to 149° F (-20° to 65° C)

temperature

Altitude 0 to 10,000 ft (0 to 3,048 m)

Humidity 20% to 80% Storage Humidity 10% to 90%

EMI and Safety Certifications CE Mark- full compliance with LVD and EMC directives; Worldwide safety standards- IEC950, EN60950, UL1950, Class 1, SELV; Agency

approvals- C-UL-US, NORDICS, DENAN, EN55022 Class B, FCC Class B, CISPR22 Class B, CCIB, NOM-1 NYCE; MTBF- over 200,000

hours at 25°C ambient condition.

HP 200W Slim Smart AC Adapter

**Dimensions** 6.69 x 3.35 x 1.38 in (17.0 x 8.5 x 3.5 cm)

 Weight
 2.03 lb (920 g)

 Input
 100 to 240 VAC

Input Efficiency 87% min at 115 VAC

Input frequency range 47 to 63 Hz

Input AC current 2.9 A at 90 VAC, 1.45 A at 180 VAC

Output Output power 200W DC output 19.5V

Hold-up time 5 msec at 115 VAC input

Output current limit <16A, Over voltage protection- 29V max

automatic shutdown

Connector3 pin/grounded, mates with interchangeable cordsEnvironmental DesignOperating temperature32° to 104° F (0° to 35° C)Non-operating (storage)-4° to 149° F (-20° to 65° C)

Non-operating (storage) temperature

Altitude 0 to 10,000 ft (0 to 3,048 m)

Humidity 20% to 80%



## Technical Specifications

Storage Humidity 10% to 90%

**EMI and Safety Certifications** 

CE Mark- full compliance with LVD and EMC directives; Worldwide safety standards- IEC950, EN60950, UL1950, Class 1, SELV; Agency approvals- C-UL-US, NORDICS, DENAN, EN55022 Class B, FCC Class B, CISPR22 Class B, CCIB, NOM-1 NYCE; MTBF- over 200,000

hours at 25°C ambient condition.

## **Displays**

**17.0-inch WXGA+ anti-** Active Area (W x H) 14.5 x 9.0 in (36.7 x 22.9 cm)

glare

Diagonal Size17.0 in (43.2 cm)Surface TreatmentAnti-glareContrast Ratio400:1 typical

Refresh Rate 60 Hz

**Brightness** 200 nit typical

Pixel Resolution Pitch 0.255 mm

**Format** 1440 x 900 **Configuration** RGB Stripe

**Backlight** LED **PPI** 100

Viewing Angle ±60° Horizontal, ±50° Vertical (minimum) or

±70° Horizontal, ±60° Vertical (typical)

17.0-inch WSXGA+ wide-viewing angle,

anti-glare

**Active Area** (W x H) 14.5 x 9.0 in (36.7 x 22.9 cm)

Diagonal Size 17.0 in (43.2 cm)

Surface Treatment Anti-glare
Contrast Ratio 400:1 (typical)

**Refresh Rate** 60 Hz

Brightness 200 nit typical

 Pixel Resolution
 Pitch
 0.21825 mm

 Format
 1680 x 1050

Configuration RGB Stripe

Backlight LED PPI 117

Viewing Angle ±60° Horizontal, ±50° Vertical (minimum) or

±70° Horizontal, ±60° Vertical (typical)



## Technical Specifications

**17.0-inch WUXGA wide-Active Area** (W x H) 14.5 x 9.0 in (36.7 x 22.9 cm)

viewing angle, anti-

glare

Diagonal Size 17.0 in (43.2 cm)
Surface Treatment Anti-glare
Contrast Ratio 400:1 typical

Refresh Rate 60 Hz

**Brightness** 200 nit typical

Pixel Resolution Pitch 0.191 mm

Format 1920 x 1200 Configuration RGB Stripe

Backlight LED PPI 133

**Viewing Angle** ±65° Horizontal, ±55° Vertical (typical)

### **Internal Storage**

**500 GB 7200 rpm SATA Drive Weight** 0.25 lbs (115g)

**Hard Drive** 

Capacity 500 GB
Height 0.37 in (9)

 Height
 0.37 in (9.5 mm)

 Width
 2.75 in (70 mm)

Interface ATA-8, SATA 2.6, 3.0 Gb/s, NCQ

Transfer Rate Synchronous 150 MB/s (Drive Capability)

(maximum)

Seek TimeSingle Track1.5ms(typical reads, including settling)Average11msMaximum22ms

**Rotational Speed** 7200 rpm **Logical Blocks** 976,773,168

Operating Temperature 32° to 140° F (0° to 60° C) [case temp]

Features ATA Security

**320 GB 7200 rpm SATA Drive Weight** 0.25 lbs (115g)

**Hard Drive** 

 Capacity
 250 GB

 Height
 0.37 in (9.5 mm)

 Width
 2.75 in (70 mm)

Interface ATA-8, SATA 2.6, 3.0 Gb/s, NCQ

Transfer Rate Synchronous 150 MB/s (Drive Capability)

(maximum)

Seek TimeSingle Track1.5ms(typical reads, including<br/>settling)Average11msMaximum22ms

Rotational Speed 7200 rpm

**Logical Blocks** 625,142,448 **Operating Temperature**32° to 140° F (0° to 60° C) [case temp]

**Features** ATA Security



## Technical Specifications

250 GB 7200 rpm SATA Drive Weight

**Hard Drive** 

rive Weight 0.25 lbs (115g)

Capacity 250 GB

 Height
 0.37 in (9.5 mm)

 Width
 2.75 in (70 mm)

Interface ATA-8, SATA 2.6, 3.0 Gb/s, NCQ

Transfer Rate Synchronous 150 MB/s (Drive Capability)

(maximum)

Seek TimeSingle Track1.5ms(typical reads, including settling)Average11msMaximum22ms

Rotational Speed 7200 rpm

Logical Blocks 488,397,168

Operating Temperature32° to 140° F (0° to 60° C) [case temp]

Features ATA Security

256 GB

2.5-Inch SATA Solid State Drive

Weight 80.1 Grams
Capacity 256 GB

 Height
 0.37 in (9.5 mm)

 Width
 2.75 in (70 mm)

Interface SATA

Performance Maximum Sequential Maximum Sequential Write

Read

220 MB/s 200 MB/s

**Logical Blocks** 500,118,192

**Operating Temperature**32° to 158°F (0° to 70°C) [case temp] **Features**ATA Security; ATA-7;SATA 2.6; DIPM

### **Optical Drives**

DVD-ROM Drive Access Times Random < 140 ms CD (typical)

< 160 ms DVD (typical)

Max Data Transfer Rate24X CD-ROM Up to 3,600 KB/s

8X-DVD Up to 10,800 KB/s

Transfer Mode UDMA Mode 5
Interface Gen 1 SATA

Supported Media (read) CD-DA, CD+(E)G, CD-MIDI, CD-TEXT, CD-ROM, CD-ROM XA, MIXED

MODE CD, CD-I, CD-I Bridge (Photo-CD, Video CD), Multisession CD (Photo-CD, CD-EXTRA, Portfolio, CD-R, CD-RW), CD-R, CD-RW, DVD-ROM (DVD-5, DVD-9, DVD-10, DVD-18), DVD-R, DVD-RW,

DVD+R, DVD+RW, DVD-RAM

Supported Media (write) None
Max Media Capacity 8.5GB

(read)

**Transport** Tray Loading



## Technical Specifications

DVD+/-RW SuperMulti Access Times Random < 150ms CD (typical) **DL LightScribe Drive** < 160 ms DVD (typical)

Max Data Transfer Rate24X CD-ROM Up to 3,600 KB/s

> 8X DVD Up to 10,800 KB/s 24X CD-R Up to 3,600 KB/s 16X CD-RW Up to 2,400 KB/s 8X DVD+R Up to 10,800 KB/s 8X DVD+RW Up to 10,800 KB/s 8X DVD-R Up to 10,800 KB/s 6X DVD-RW Up to 8100KB/s 4X - DVD+R Dual Layer Up to 5,400 KB/s 4X - DVD-R Dual Laver

Up to 5,400 KB/s 5X DVD-RAM Up to 6,750 KB/s

**Transfer Mode UDMA Mode 5** Interface Gen 1 SATA

Supported Media (read) CD-DA, CD+(E)G, CD-MIDI, CD-TEXT, CD-ROM, CD-ROM XA, MIXED

MODE CD, CD-I, CD-I Bridge (Photo-CD, Video CD), Multisession CD (Photo-CD, CD-EXTRA, Portfolio, CD-R, CD-RW), CD-R, CD-RW, DVD-ROM (DVD-5, DVD-9, DVD-10, DVD-18), DVD-R, DVD-RW,

DVD+R, DVD+RW, DVD-RAM

Supported Media (write) CD-R, CD-RW, DVD+R, DVD+RW, DVD-R, DVD-RW, DVD-RAM,

LightScribe

8.5 GB

8.5 GB

**Max Media Capacity** 

(read)

**Max Media Capacity** 

(write)

**Transport** Tray Loading

Blu-ray R/RE DVD+/-RW SuperMulti DL **Drive** 

**Access Times** Random <180 ms CD-ROM (typical)

<180 ms DVD-ROM (typical)

<230 ms BD-ROM (typical)

Up to 9,000 KB/s

Max Data Transfer Rate24X CD-ROM Up to 3,600 KB/s

> 8X DVD-ROM Up to 10,800 KB/s 24X CD-R Up to 3,600 KB/s 16X CD-RW Up to 2,400 KB/s 8X DVD+R Up to 10,800 KB/s 6X DVD+RW Up to 8,100 KB/s 8X DVD-R Up to 10,800 KB/s 6X DVD-RW Up to 8,100 KB/s 4X DVD+R Dual Layer Up to 5,400 KB/s 4X DVD-R Dual Layer Up to 5,400 KB/s 5X DVD-RAM Up to 6,750 KB/s 2X BD-ROM Up to 9,000 KB/s 2X BD-R Up to 9,000 KB/s

**Transfer Mode** UDMA Mode 5

Interface Gen 1 SATA



2X BD-RE

## Technical Specifications

Supported Media (read) CD-DA, CD+(E)G, CD-MIDI, CD-TEXT, CD-ROM, CD-ROM XA, MIXED

MODE CD, CD-I, CD-I Bridge (Photo-CD, Video CD), Multisession CD (Photo-CD, CD-EXTRA, Portfolio, CD-R, CD-RW), CD-R, CD-RW, DVD-ROM (DVD-5, DVD-9, DVD-10, DVD-18), DVD-R, DVD-RW,

DVD+R, DVD+RW. DVD-RAM, BD-ROM, BD-R, BD-RE

Supported Media (write) CD-R, CD-RW, DVD+R, DVD+R(9), DVD+RW, DVD-R, DVD-R(9),

DVD-RW, DVD-RAM, BD-R, BD-RE

**Max Media Capacity** 

(read)

Max Media Capacity

50.0 GB

50.0 GB

(write)

**Transport** Tray Loading

Blu-ray ROM DVD+/-RW Access Times

SuperMulti DL LightScribe Drive Random <190 ms CD-ROM (typical)

< 190ms DVD-ROM (typical)

<230 ms BD-ROM (typical)

 8X DVD-ROM
 Up to 10800 KB/s

 16X CD-R
 Up to 1,200KB/s

 10X CD-RW
 Up to 1500 KB/s

 8X DVD+R
 Up to 10800 KB/s

 8X DVD+RW
 Up to 10,800KB/s

 8X DVD-R
 Up to 10800 KB/s

 6X DVD-RW
 Up to 8,100 KB/s

4X - DVD+R Dual Layer

4X - DVD-R Dual Layer Up to 5400 KB/s
5X DVD-RAM Up to 6750 KB/s
4X BD-ROM Up to 18,000KB/s

**Transfer Mode** UDMA Mode 5 **Interface** Gen 1 SATA

Supported Media (read) CD-DA, CD+(E)G, CD-MIDI, CD-TEXT, CD-ROM, CD-ROM XA, MIXED

MODE CD, CD-I, CD-I Bridge (Photo-CD, Video CD), Multisession CD (Photo-CD, CD-EXTRA, Portfolio, CD-R, CD-RW), CD-R, CD-RW, DVD-ROM (DVD-5, DVD-9, DVD-10, DVD-18), DVD-R, DVD-RW,

DVD+R, DVD+RW. DVD-RAM, BD-ROM, BD-R, BD-RE

Supported Media (write) CD-R, CD-RW, DVD+R, DVD+R(9), DVD+RW, DVD-R, DVD-R(9),

DVD-RW, DVD-RAM, LightScribe

Max Media Capacity

(read)

50.0 GB

**Max Media Capacity** 

(write)

8.5GB

**Transport** Tray Loading

### Security



## Technical Specifications

**HP Fingerprint Sensor Mobile Voltage** 

Operation

3.0V-3.6V Single Supply

Operating Temperature32° - 158°F (0° - 70°C)

Current Consumption @ 3.3V

Less than 70 mA peak imaging and scrolling Less than 25 mA hardware finger detection

Advanced Power Management

**High-Rate Image** 

**ESD Resistance** 

Capture

Up to 240 image frames /sec

IEC 61000-4-2 Level 4 (±15KV)

**Detection Matrix** 192 x 16 Pixels

9.7 mm x 0.81 mm

500 ppi High-Resolution Images

### **Audio**

Hardware Implementation IDT 92HD75B High Definition CODEC

**Touch-Sensitive** 

**Volume Controls** 

Volume up, volume down, and mute

Full Duplex Yes
Microphone In Stereo
Headphone/Line Out Stereo

Integrated Microphone Yes, dual-microphone array when equipped with optional webcam

Audio Output Quality Frequency Response 20 Hz - 20 kHz

Signal to Noise Ratio >85 dB Total Harmonic 0.01%

**Distortion** 

Noise Floor -110 dB Play/Record Sampling 8 kHz - 48kHz

Rate(s)

DAC 16, 20 or 24-bit ADC 16 or 20-bit

**Integrated Stereo** 

Speakers

Power Rating 2 Watts Impedance 4 Ohms

### **Communications**



## Technical Specifications

**Integrated Intel Gigabit Ethernet Features** 

**Network Connection** (10/100/1000 NIC)

100 Mbit/s operation (100BASE-TX; IEEE 802.3u; IEEE 802.3 clauses

10 Mbit/s operation (10BASE-T; IEEE 802.3i; IEEE 802.3 clauses 13-

21-30)

1000 Mbit/s operation (1000BASE-T; IEEE 802.3z and 802.3ab; IEEE

802.3 clauses 34-42)

Auto-Negotiation (Automatic Speed Selection)

Full Duplex Operation at all Speeds. Half Duplex operation at 10 and

100 Mbit/s

IEEE 802.1p QoS (Quality of Service) Support

IEEE 802.3x Flow Control (IEEE 802.3 clauses 31-32; configurable)

**Power Management** ACPI compliant -- multiple power modes

Situation-sensitive features reduce power consumption

Performance Features TCP/IP/UDP Checksum Offload (configurable)

Wake-on-LAN from standby and hibernation (Magic Packet and Manageability

Microsoft Wake-Up Frame); Wake-on-LAN from off (Magic Packet only)

PXE 2.1 Remote Boot

Statistics Gathering (SNMP MIB II, Ethernet-like MIB, Ethernet MIB

(802.3x, clause 30))

Comprehensive diagnostic and configuration software suite

Intel Advanced Management Technology 6.0 (iAMT)

Interface PCI Express x1 based, SMBUS dedicated connection with Intel® 5

Series Chipset

**NIC Device Driver** 

Name

Intel 82577 Gigabit Network Connection

## V.92 56K Data/Fax Modem

**Form Factor** 

MDC 1.5 Daughtercard

**Power Management** 

Support

APM Revision 1.2, ACPI

Approvals/ Certifications UL, CSA, NEMKO, CCIB, Industry Canada, FCC Part 68, CTR21, FCC Part 15 Class B, Canadian ICES-003 Class B, C.I.S.P.R.22, Australian

ACA, CE Mark, Other Countries

Data Mode Capabilities V.92 data

V.8bis

V.80

V44, V.42bis, MNP5 (Compression) V.42 (LAPM, MNP2-4) (Error Correction)

Optional symbol rates:

2800. 3429

Asymmetric Symbol rates

Synchronous primary channel data signaling rates:

3600. 31200

Automatic rate re-negotiation

V.34 V.32bis V.32

V.23

V.22bis

V.22

V.21 Bell 212A

Bell 103J



## Technical Specifications

Fax Mode Capabilities TIA/EIA-578-B (Class 1)

T.30, T.4 (Group 3)

V.17 V.29 V.27ter

V.21 Channel 2

**Command Set** V.250 (Partial)

TIA-602

Identification: +GMI, +GMM, +GMR Port control: +IPR, +ICF, +IFC, +ILRR

Modulation: +MS, +MR, +MA

Error control: +ES, +ER, +EB, +ESR, +ETBM

Data compression: +DS, +DR

V.251

HP un2420 **EV-DO/HSPA Mobile Broadband Module** 

**Bands** 

Technology/Operating GSM/GPRS/EDGE: 850MHz(Cell), 900MHz(EGSM), 1800MHz(DCS),

1900MHz (PCS)

UMTS/WCDMA with receive diversity: 2100MHz (UTRA FDD Band I), 1900MHz (UTRA FDD Band II), 900Mhz (UTRA FDD Band VIII),

850MHz (UTRA FDD Band V)

1xEVDO/1xRTT with receive diversity: 850MHz (Band Class0-Cell),

1900MHz (Band Class1-PCS)

**Wireless Protocol** 

**Standards** 

GSM/GPRS/EDGE: Class B, Multi-slot operation, coding schemes CS1

- CS4 and MSC1 - MSC9.

UMTS/WCDMA: Release 99 and Release 6

CDMA: 1xEVDO Release 0 and Release A, IS-95A, IS-95B, IS-2000

Wireless Parametric

**Standards** 

Meets or exceeds TIA/EIA IS-98-D

**Maximum Data Rates** UMTS (HSPA) - 7.2 Mbps (Download), 2.0 Mbps (Upload)

CDMA (EVDO Release A) - 3.1 Mbps (Download), 1.8 Mbps (Upload)

**GPS** Standalone GPS enabled

**GPS Bands** L1 - 1575.42 MHz

**Maximum Output** 

GSM/GPRS/EDGE: 32dBm (+/-1) **Power** 

WCDMA: 24dBm (+/-1) CDMA: 24dBm (+/-1)

**Maximum Power** 

Consumption

2500mA (peak); 1000mA (average)

**Power Consumption,** 

Sleep Mode

5 mA

**Power Management** 

USB selective suspend

Integrated notebook wireless button

**Antenna Type** 

Dual high efficiency 5 band antennae with spatial diversity, mounted in

the display enclosure

**Form Factor** PCI-Express MiniCard, USB 2.0 interface

Weight 11.5 g

**Dimensions** (Length x

2.01 x 1.18 x 0.18 in (51 x 30 x 5 mm)

Width x Thickness)

Voltage, Operating 3.3v +/- 10%

-22° to 140° F (-30° to 60° C) (full RF performance) Temperature, Operating (from -22° to 167° F (-30° to 75° C) (reduced RF performance)

TIA/EIA/IS-98-D)



## Technical Specifications

Temperature, Nonoperating, 96 hours (from MIL-STD 202

-40° to 185° F (-40° to 85° C)

Method 108) **Humidity, Non-**

85% relative humidity for 48 hours @ 185° F (85° C) (non-condensing)

operating

Configuration Utilities HP Connection Manager

**LED Activity** LED Off - Radio Off:

Solid LED On - Radio On

Intel Centrino Ultimate-Wireless LAN N 6300

**Standards** 

IEEE 802.11a IEEE 802.11b IEEE 802.11a IEEE 802.11n\*

\* In countries where 802.11n is not allowed, this capability is not

enabled.

Interoperability Wi-Fi certified (802.11bgn only)

Cisco Compatible Extensions Program compliant (802.11bgn only) with

Microsoft Windows Vista and XP (details at: http://www.hp.com/go/notebooks/WLAN)

**Frequency Band** 

**Antenna Structure** 

3 transmit; 3 receive (3x3)

2.4 GHz and 5GHz

**Data Rates** 

802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps

802.11b: 1, 2, 5.5, 11 Mbps

802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps

802.11n: many possible data rates, ranging from 6 Mbps to 450 Mbps, depending on the combination of Bandwidth, Modulation Coding Scheme, and Guard Interval used, as defined in IEEE 802.11n

specification

Modulation Direct Sequence Spread Spectrum

DBPSK, DQPSK, CCK, OFDM, BPSK, QPSK, 16-QAM, 64-QAM

Security<sup>1</sup> Authentication: WPA and WPA2, 802.1x (EAP TLS, TTLS, PEAP,

LEAP, EAP-FAST)

Authentication Protocols: PAP, CHAP, TLS, GTC, MS-CHAP, MS-

CHAPv2

Encryption: 64 and 128-bit WEP, AES-CCMP, CKIP, TKIP

Support for Cisco Security Features (proven compatibility with Cisco

Aironet infrastructure products through the Cisco Compatible

Extensions Program Version 4) with Microsoft Windows Vista and XP

only.

**Sub-channels** Multinational support with frequency bands and channels compliant to

local regulations.

Media Access Protocol CSMA/CA (Collision Avoidance) with ACK

**Network Architecture** Ad-hoc (Peer to Peer)

Models Infrastructure (Access Point Required)

IEEE 802.11 compliant roaming between Access Points Roaming

Output Power (for CCK 17 dBm max

and OFDM)2



## Technical Specifications

**Power Consumption** Transmit: 2.4 Watts (max, with three spatial streams)

Receive: 1.4 Watts (max with three spatial streams)

Idle mode<sup>3</sup>: 35 mW (average) Radio off: 20 mW (max)

Power Management ACPI compliant power management

802.11 compliant power saving mode

Receiver Sensitivity<sup>4</sup> 54 Mbps: -76 dBm, 6 Mbps: -92 dBm

Antenna Connections 3 U.FL type connectors, 50 ohm nominal impedance

Form Factor PCI-Express Half-MiniCard

**Weight** 0.0075 lb (3.4 g)

**Dimensions** 0.12 x 1.06 x 1.18 in (3.1 x 26.8 x 30.0 mm)

Operating Voltage 3.3V +/- 9%

**Temperature** Operating 32° to 176° F (0° to 80° C)

Non-operating -40° to 176° F (-40° to 80° C)

**Humidity** Operating 10% to 90% (non-condensing) Non-operating 5% to 90% (non-condensing)

**Altitude** Operating 0 to 10,000 ft (3,048 m)

Non-operating 0 to 50,000 ft (15,240 m)

LED Activity LED Off - Radio OFF; Solid LED On - Radio ON

1. Check latest software/driver release for updates on supported security features.

- 2. Maximum output power may vary by country according to local regulations.
- 3. In Power Save Polling mode and on battery power.
- 4. Receiver sensitivity is measured at a packet error rate of 8% for 802.11b (CCK modulation) and a packet error rate of 10% for 802.11a/g (OFDM modulation).
- WLAN supplier's client utility is required for Cisco Compatible Extensions support with Microsoft Windows XP. WLAN may also be compatible with certain third-party software supplicants. WLAN supplier IHV extensions required for Cisco Compatible Extensions support for Microsoft Windows Vista.

## Intel Centrino Advanced-N 6200

 Wireless LAN
 IEEE 802.11a

 Standards
 IEEE 802.11b

 IEEE 802.11g
 IEEE 802.11n\*

\* In countries where 802.11n is not allowed, this capability is not

enabled.

Interoperability Wi-Fi certified

**Antenna Structure** 

Cisco Compatible Extensions Program compliant with Microsoft

Windows Vista and XP (details at:

http://www.hp.com/go/notebooks/WLAN)

Frequency Band 2.4 GHz and 5GHz

**Data Rates** 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps

802.11b: 1, 2, 5.5, 11 Mbps

2 transmit; 2 receive (2x2)

802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps

802.11n: 66 possible data rates, ranging from 6 Mbps to 300 Mbps, depending on the combination of Bandwidth, Modulation Coding Scheme, and Guard Interval used, as defined in IEEE 802.11n

specification

Modulation Direct Sequence Spread Spectrum

DBPSK, DQPSK, CCK, OFDM, BPSK, QPSK, 16-QAM, 64-QAM

**Security**<sup>1</sup> Authentication: WPA and WPA2, 802.1x (EAP\_TLS, TTLS, PEAP,

LEAP, EAP-FAST)



## Technical Specifications

Authentication Protocols: PAP, CHAP, TLS, GTC, MS-CHAP, MS-

CHAPv2

Encryption: 64 and 128-bit WEP, AES-CCMP, CKIP, TKIP

Support for Cisco Security Features (proven compatibility with Cisco

Aironet infrastructure products through the Cisco Compatible

Extensions Program Version 4) with Microsoft Windows Vista and XP

only.

**Sub-channels** Multinational support with frequency bands and channels compliant to

local regulations.

Media Access Protocol CSMA/CA (Collision Avoidance) with ACK

Network Architecture Ad-hoc (Peer to Peer)

Models Infrastructure (Access Point Required)

**Roaming** IEEE 802.11 compliant roaming between 2.4GHz band Access Points

Output Power (for CCK 17 dBm max

and OFDM)2

**Power Consumption** Transmit: 2.3 Watts (max, with two spatial streams)

Receive: 1 Watt (max with two spatial streams)

Idle mode<sup>3</sup>: 35 mW (average) Radio off: 20 mW (max)

**Power Management** ACPI compliant power management

802.11 compliant power saving mode

Receiver Sensitivity<sup>4</sup> 54 Mbps: -76 dBm, 6 Mbps: -92 dBm

Antenna Connections 2 U.FL type connectors, 50 ohm nominal impedance

Form Factor PCI-Express Half-MiniCard

**Weight** 0.0075 lb (3.4 g)

**Dimensions** 0.12 x 1.06 x 1.18 in (3.1 x 26.8 x 30.0 mm)

Operating Voltage 3.3V +/- 9%

**Temperature** Operating 32° to 176° F (0° to 80° C)

Non-operating -40° to 176° F (-40° to 80° C)

**Humidity** Operating 10% to 90% (non-condensing)

Non-operating 5% to 90% (non-condensing)

Altitude Operating 0 to 10,000 ft (3,048 m)

Non-operating 0 to 50,000 ft (15,240 m)

LED Activity LED Off - Radio OFF; Solid LED On - Radio ON

- 1. Check latest software/driver release for updates on supported security features.
- 2. Maximum output power may vary by country according to local regulations.
- 3. In Power Save Polling mode and on battery power.
- 4. Receiver sensitivity is measured at a packet error rate of 8% for 802.11b (CCK modulation) and a packet error rate of 10% for 802.11a/g (OFDM modulation).
- WLAN supplier's client utility is required for Cisco Compatible Extensions support with Microsoft Windows XP. WLAN may also be compatible with certain third-party software supplicants. WLAN supplier IHV extensions required for Cisco Compatible Extensions support for Microsoft Windows Vista.

Broadcom 4322AGN 802.11a/b/g/n WiFi Adapter

Wireless LAN IEEE 802.11a Standards IEEE 802.11b

IEEE 802.11g IEEE 802.11n\*



## Technical Specifications

Interoperability Wi-Fi certified (802.11abg only)

Cisco Compatible Extensions Program compliant (802.11abg only) with

Microsoft Windows Vista and XP (details at: http://www.hp.com/go/notebooks/WI\_AN)

http://www.hp.com/go/notebooks/WLAN)

Frequency Band 2.4 GHz and 5 GHz

**Data Rates** 802.11b: 1, 2, 5.5, 11 Mbps

802.11a/g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps

802.11n: 6, 6.5, 9, 12, 13, 13.5, 18, 19.5, 24, 26, 27, 36, 39, 40.5, 48, 52, 54, 58.5, 65, 78, 81, 104, 108, 117, 121.5, 130, 135, 162, 216, 243,

270, 300 Mbps

Frequency Support 20 MHz: 2.4 GHz and 5 GHz bands

40 MHz: 2.4 GHz and 5 GHz bands

**Modulation** Direct Sequence Spread Spectrum

DBPSK, DQPSK, CCK, OFDM, BPSK, QPSK, 16-QAM, 64-QAM

Security<sup>1</sup> Supports 64- and 128-bit WEP, WPA, WPA2, hardware-accelerated AES, 802.1x authentication types EAP-TLS, EAP-TTLS, PEAP-GTC,

PEAP-MSCHAPv2, LEAP, EAP-FAST.

Support for Cisco Security Features (proven compatibility with Cisco

Aironet infrastructure products through the Cisco Compatible

Extensions Program Version 4) with Microsoft Windows Vista and XP

only.

Sub-channels Multinational support with frequency bands and channels compliant to

local regulations.

Media Access Protocol CSMA/CA (Collision Avoidance) with ACK

**Network Architecture** Ad-hoc (Peer to Peer)

Models

Infrastructure (Access Point Required)

**Roaming** IEEE 802.11 compliant roaming between access points

Output Power (for

CCK)2

17 dBm, nominal

Output Power (for

OFDM; power varies by

data rate)2

15 dBm, nominal

**Power Consumption** Idle associated: 250 mW

Idle unassociated: 150 mW

Transmit/Receive 20 MHz channel: 2.0 W (max) Transmit/Receive 40 MHz channel: 2.0 W (max)

Power Management ACPI compliant power management

802.11 compliant power saving mode

Receiver Sensitivity<sup>3</sup> 270 Mbps: -61dBm, , 54 Mbps: -72 dBm, 11 Mbps: -85 dBm , 1 Mbps: -

92 dBm

Antenna Connections High efficiency dual band antenna with spatial diversity, mounted in the

display enclosure

Form Factor PCI-Express Half-MiniCard

**Weight** 0.013 lb (6 g)

**Dimensions** 0.19 x 1.06 x 1.18 in (4.75 x 26.8 x 30 mm)

Operating Voltage 3.3v +/- 10%

**Temperature** Operating 14° to 149° F (-10° to 65° C)

Non-operating  $-40^{\circ}$  to  $176^{\circ}$  F (-40° to  $80^{\circ}$  C)

**Humidity** Operating 10% to 90% (non-condensing)

Non-operating 5% to 95% (non-condensing)

Altitude Operating 0 to 10,000 ft (3,048 m)

Non-operating 0 to 50,000 ft (15,240 m)



## Technical Specifications

LED Activity LED Off - Radio OFF; Solid LED On - Radio ON

- 1. Check latest software/driver release for updates on supported security features.
- 2. Maximum output power may vary by country according to local regulations.
- 3. Receiver sensitivity is measured at a packet error rate of 8% for 802.11b (CCK modulation) and a packet error rate of 10% for 802.11a/g (OFDM modulation).
- 4. WLAN supplier's client utility is required for Cisco Compatible Extensions support with Microsoft Windows XP. WLAN may also be compatible with certain third-party software supplicants. WLAN supplier IHV extensions required for Cisco Compatible Extensions support for Microsoft Windows Vista.

HP Integrated Module with Bluetooth 2.1 Wireless Technology

HP Integrated Module Bluetooth Specification 2.1 Compliant

**Dimensions** 1.18 x 0.26 x 0.13 in (30 x 6.5 x 3.25 mm)

Frequency Band 2402 to 2480 MHz

Number of Available

Channels

79 (1 MHz) available channels

**Data Rates and** 3 Mbps data rate; throughput up to 2.17 Mbps

Throughput Synchronous Connection Oriented links up to 3, 64 kbps, voice

channels

Asynchronous Connection Less links 2178.1 kbps/177.1 kbps

asymmetric or 1306.9 kbps symmetric

**Transmit Power** -6 dBm to 4 dBm (Bluetooth Class II)

**Receiver Sensitivity** Better than -80 dBM at 0.1 % raw bit error rate

**Power Consumption** Peak (Tx) 264 mW

Peak (Rx) 231 mW Sleep <1 mW

Antenna Internally integrated within module

Range Up 33 ft (10 m)
Electrical Interface USB 2.0 compliant

Microsoft Windows Plug and Play compliant

**Bluetooth Software** 

**Supported** 

Broadcom Bluetooth for Windows

Microsoft Windows Bluetooth Software

**Link Topology**Point to Point, Multipoint Pico Nets up to 7 slaves **Security**Full support of Bluetooth Security Provisions

\*\*Provided House ACRI and HORR But Control of the Provided House ACRI and HORR But Control of the Provided House ACRI and HORR But Control of the Provided House ACRI and HORR But Control of the Provided House ACRI and HORR But Control of the Provided House ACRI and Hou

**Power Management** Microsoft Windows ACPI, and USB Bus Support

Self configurable to optimize power conservation in all operating modes,

including Standby, Hold, Park, and Sniff

**Certifications** All necessary regulatory approvals for supported countries, including:

FCC (47 CFR) Part 15C, Section 15.247 & 15.249

ETS 300 328, ETS 300 826 Low Voltage Directive IEC950

UL, CSA, and CE Mark

**Temperature** Operating -4° to 158° F (-20° to 70° C)

Non-operating -40° to 176° F (-40° to 80° C)

**Humidity** Operating 10% to 90%

Non-operating 5% to 95%

Altitude Operating 15,000 ft (4,572 m)

Non-operating 40,000 ft (12,192 m)

Bluetooth Profiles Serial Port Profile (SPP)<sup>1</sup>



## Technical Specifications

Supported Service Discovery Application Profile (SDAP)

Dial-Up Networking (DUN)<sup>1,2</sup>

Generic Object Exchange Profile (GOEP)<sup>1,2</sup>

Object Push Profile (OPP)<sup>1,2</sup> File Transfer Profile (FTP) Synchronization Profile (SYNC)

Hard Copy Cable Replacement (HCRP)<sup>1,2</sup> Personal Area Networking Profile (PAN)<sup>1,2</sup> Human Interface Device Profile (HID)<sup>1,2,3</sup>

FAX Profile (FAX)

Basic Imaging Profile (BIP)<sup>2</sup> Headset Profile (HSP) Hands Free Profile (HFP)

Advanced Audio Distribution Profile (A2DP)

- 1. indicates the profile is supported by Microsoft Windows XP SP2
- 2. indicates the profile is part of Windows Vista

### **Environmental Data**

## Eco-Label Certifications

This product has received or is in the process of being certified to the following approvals and may be labeled with one or more of these marks:

- US Energy Star
- IT ECO declaration
- EPEAT Gold where HP registers commercial desktop products. See http://www.epeat.net for registration status in your country.

Energy Consumption	115 VAC	230 VAC	100 VAC
Normal Operation	28.16 W	29.19 W	28.19 W
Sleep (Energy Star low power mode)	1.08 W	1.15 W	1.09 W
Off	0.80 W	0.84 W	0.80 W
Heat Dissipation*	115 VAC	230 VAC	100 VAC
Normal Operation	96 BTU/hr	100 BTU/hr	96 BTU/hr
Sleep	4 BTU/hr	4 BTU/hr	4 BTU/hr
Off	3 BTU/hr	3 BTU/hr	3 BTU/hr

<sup>\*</sup> Heat dissipation is calculated based on the measured watts, assuming the service level is attained for one hour.

Declared Noise Emissions (in accordance with ISO 7779 and ISO 9296)

System Fan Off	Sound Power	Sound Pressure
	(LWAd, bels)	(LpAm, decibels)
Idle	3.5	32.2
Fixed Disk (random writes)	3.5	32.3

System fan is usually off except when charging the battery

Batteries This battery(s) in this product comply with EU Directive 2006/66/EC

Batteries used in the product do not contain:



## Technical Specifications

### Mercury greater the 5ppm by weight

Cadmium greater than 10ppm by weight

The battery type and chemistry used in the product is: CR2032 (coin cell). Li-ion

6-cell high capacity Lithium-Ion battery (optional 8 cell available)

This product is in compliance with the Restrictions of Hazardous Substances (RoHS) directive - 2002/95/EC.

This HP product is designed to comply with the Waste Electrical and Electronic Equipment (WEEE) Directive - 2002/96/EC.

This product is in compliance with California Proposition 65 (State of California; Safe Drinking Water and Toxic Enforcement Act of 1986).

This product is in compliance with the IEEE 1680 (EPEAT) standard at the Gold level, see: www.epeat.net

Plastics parts weighing over 25 grams used in the product are marked per ISO 11469 and ISO1043.

This product contains 0% post consumer recycled plastic (by wt.)

This product is greater than 95% recycle-able when properly disposed of at end of life.

### Packaging Materials

- External:
  - O Corrugated carton 745 g
  - O Cardboard & misc 120 g
- Internal:
  - Polyethylene low density foam 15 g
  - O EPE-Expanded Polyethylene 75 g
- The Corrugated carton packaging material is made from 70~80% recycled content.
- The Cardboard & misc packaging material is made from 70~80% recycled content.
- The Polyethylene low density foam packaging material is made from 0% recycled content.
- The EPE-Expanded Polyethylene packaging material is made from 0% recycled content.

HP follows these guidelines to decrease the environmental impact of product packaging:

- Eliminate the use of heavy metals such as lead, chromium, mercury and cadmium in packaging materials.
- Eliminate the use of ozone-depleting substances (ODS) in packaging materials.
- Design packaging materials for ease of disassembly.
- Maximize the use of post-consumer recycled content materials in packaging materials.
- Use readily recyclable packaging materials such as paper and corrugated materials.
- Reduce size and weight of packages to improve transportation fuel efficiency.
- Plastic packaging materials are marked according to ISO 11469

## Additional information



## Technical Specifications

## **Material Usage**

and DIN 6120 standards.

This product does not contain any of the following substances in excess of regulatory limits (for reference of these limits please refer to the HP General Specification of the Environment:

(http://www.hp.com/hpinfo/globalcitizenship/environment/supplychain/gen\_specifications.html):

- Asbestos
- Certain Azo Colorants
- Certain Brominated Flame Retardants may not be used as flame retardants in plastics
- Cadmium
- Chlorinated Hydrocarbons
- Chlorinated Paraffins
- Formaldehyde
- Halogenated Diphenyl Methanes
- · Lead carbonates and sulfates
- Lead and Lead compounds
- Mercuric Oxide Batteries
- Nickel finishes must not be used on the external surface designed to be frequently handled or carried by the user.
- Ozone Depleting Substances
- Polybrominated Biphenyls (PBBs)
- Polybrominated Biphenyl Ethers (PBBEs)
- Polybrominated Biphenyl Oxides (PBBOs)
- Polychlorinated Biphenyl (PCB)
- Polychlorinated Terphenyls (PCT)
- Polyvinyl Chloride (PVC) except for wires and cables, and certain retail packaging has been voluntarily removed from most applications.
- Radioactive Substances
- Tributyl Tin (TBT), Triphenyl Tin (TPT), Tributyl Tin Oxide (TBTO)

## End-of-life Management and Recycling

Hewlett-Packard offers end-of-life HP product return and recycling programs in many geographic areas. To recycle your product, please go to: http://www.hp.com/go/reuse-recycle or contact your nearest HP sales office. Products returned to HP will be recycled, recovered or disposed of in a responsible manner.

The EU WEEE directive (2002/95/EC) requires manufacturers to provide treatment information for each product type for use by treatment facilities. This information (product disassembly instructions) is posted on the Hewlett Packard web site at: http://www.hp.com/go/recyclers. These instructions may be used by recyclers and other WEEE treatmen facilities as well as HP OEM customers who integrate and re-sell HP equipment.

Hewlett-Packard Corporate Environmental Information For more information about HP's commitment to the environment: Global Citizenship Report

http://www.hp.com/hpinfo/globalcitizenship/gcreport/index.html

**Environment website** 

http://www.hp.com/environment

Eco-label certifications

http://www.hp.com/hpinfo/globalcitizenship/environment/productdesign/ecolabels.html

ISO 14001 certificates:

http://www.hp.com/hpinfo/globalcitizenship/environment/operations/envmanagement.html



## HP EliteBook 8740w Mobile Workstatio

## QuickSpecs

## Technical Specifications

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