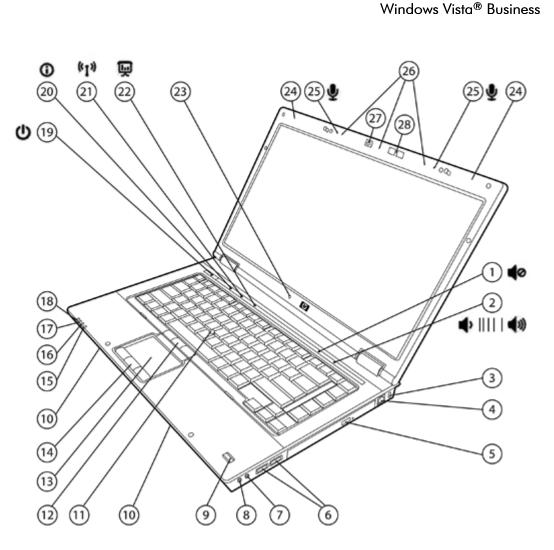
HP recommends

QuickSpecs

Overview



- 1. Volume mute button with LED indicator
- 2. Volume scroll zone with up/down LED indicators
- 3. Kensington Lock slot
- 4. RJ-11/modem port
- 5. Upgrade Bay (optical drive or second hard drive)
- 6. 2 USB 2.0 ports
- 7. Stereo microphone in
- 8. Stereo headphone/line out
- 9. HP Fingerprint Sensor
- 10. Integrated stereo speakers
- 11. Pointstick
- 12. Pointstick buttons, three
- 13. Touchpad with scroll zone

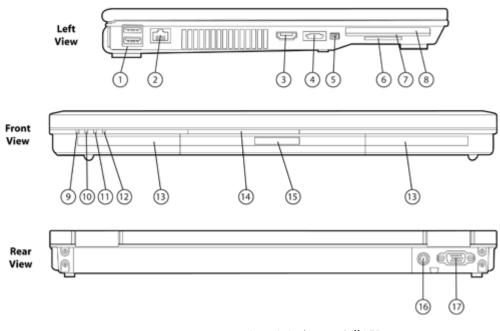
- 15. Hard drive / optical drive activity / HP 3D DriveGuard LED
- 16. Battery charging LED
- 17. Power/standby LED
- 18. Wireless on/off LED
- 19. Power button with LED
- 20. HP Info / HP QuickLook button with LED indicator
- 21. Wireless on/off button with LED indicator
- 22. HP Presentation button with LED indicator
- 23. Ambient Light Sensor
- 24. Two WWAN antennas (with WWAN option)
- 25. Dual-microphone array
- 26. Three WLAN antennas (with WLAN option)
- 27. Optional 2 MP Webcam with LED



Overview

14. Touchpad buttons, three

28. HP NightLight and on/off button

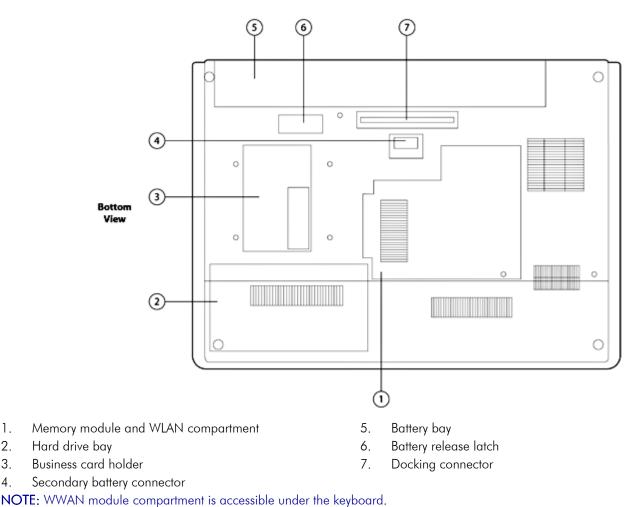


- 1. (2) USB 2.0 ports
- 2. RJ-45/Ethernet port
- 3. HDMI port
- 4. eSATA port
- 5. 1394a port
- 6. Media Card Reader
- 7. Integrated Smart Card Reader
- 8. ExpressCard/54 slot

- 9. Wireless on/off LED
- 10. Power/standby LED
- 11. Battery charging LED
- 12. Hard drive / optical drive activity / HP 3D DriveGuard LED
- 13. Integrated stereo speakers
- 14. Business Card slot
- 15. Display release latch
- 16. Power connector
- 17. VGA/external monitor connector



Overview



At A Glance

1.

2.

3.

4.

- Genuine Windows Vista Business 32, Genuine Windows Vista Business 64, Genuine Windows Vista Ultimate 32, Genuine Windows Vista Business with downgrade to Windows XP Professional custom installed, or FreeDOS
- NVIDIA Quadro FX 770M graphics with up to 512 MB dedicated memory, or ATI Mobility FireGL V5700 graphics with up to 256 MB dedicated memory
- DirectX 10 support and Dual Link DVI (available through optional docking) provides faster rendering capabilities and support • for ultra-high resolution monitors
- Intel® Centrino® 2 with vPro[™] technology capable, with Intel Core[™]2 Extreme or Intel Core[™]2 Duo processors
- Designed to travel, with weight starting at 6.3 lb/2.86 kg and 1.1-inch/28.2 mm thin at front •
- Business Rugged designed to meet the military standard Mil-Std-810F for shock, vibration, sand and dust, humidity, altitude, • and high temperature operation*
- HP Performance Tuning Framework for optimal configuration, compatibility and performance .
- Flexible wireless connectivity options: ۰
 - O Integrated 802.11 a/b/g/draft-n wireless LAN module
 - O Bluetooth®
- HDMI high definition video/audio port
- eSATA connector for external optical drive, hard drive, or RAID array
- Upgrade Bay for easy optical drive upgrade or optional second hard drive for RAID 1 Mirroring or RAID 0 Striping



Overview

- Optional Blu-Ray DVD+/-RW SuperMulti DL Drive
- Widescreen 15.4-inch diagonal display with wide-viewing angle (select models), Ambient Light Sensor and HP Privacy Filter support
- Integrated Media Card Reader
- Enhanced security features including integrated Smart Card Reader, HP ProtectTools, HP SpareKey, HP Fingerprint Sensor, TPM 1.2 Embedded Security Chip**
- Optional 2 MP Webcam with Business Card Reader Software
- HP QuickLook 2 for instant access to email, calendar, and contact information
- Enhanced reliability with HP DuraCase, HP DuraKeys and HP DuraFinish
- Up to 8 GB of 800 MHz DDR2 SDRAM supported, dual channel memory support
- Up to 320 GB 7200 rpm or 250 GB 5400 rpm SMART SATA II user-removable hard drive with HP 3D DriveGuard protection
- Integrated Intel Gigabit Network Connection (10/100/1000 NIC)
- Enhanced dual pointing devices (touchpad with scroll zone and pointstick)

* 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.

** TPM module disabled where not permitted by law (for example, Russia and China).



Processors	Intel Core 2 Extreme Processor X9100 (3.06 GHz, 6 MB L2 cache, 1066 MHz FSB)* Intel Core 2 Duo Processor T9800 (2.93 GHz, 6 MB L2 cache, 1066 MHz FSB)* Intel Core 2 Duo Processor T9600 (2.80 GHz, 6 MB L2 cache, 1066 MHz FSB)* Intel Core 2 Duo Processor T9550 (2.66 GHz, 6 MB L2 cache, 1066 MHz FSB)* Intel Core 2 Duo Processor T9400 (2.53 GHz, 6 MB L2 cache, 1066 MHz FSB)* Intel Core 2 Duo Processor T9400 (2.40 GHz, 3 MB L2 cache, 1066 MHz FSB)*		
		ocessor P8400 (2.26 GHz, 3 MB L2 cache, 1066 MHz FSB)*	
	* 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 Vista Business 32* Genuine Windows Vista Business 64* Genuine Windows Vista Ultimate 32* Genuine Windows Vista Business with downgrade to Windows XP Professional custom installed* [†] FreeDOS	
	Supported	Genuine Windows XP Professional 32 Genuine Windows XP Professional 64	
	Certified	SuSE Linux Enterprise Desktop 10	
	* 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.		
	[†] Windows Vista Business disk also included for future upgrade if desired. To qualify for this downgrade an end user must be a business (including governmental or educational institutions) and is expected to order at least 25 customer systems with the same custom image.		
Chipset	Mobile Intel PM45 Express Chipset ICH9M-Enhanced		



Intel Centrino 2 with vPro technology capable	 Intel Centrino 2 with vPro technology is a selectable feature that is available on units configured with an Intel WiFi Link 5300. 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 operating system, isolate infected systems, and update PCs regardless of their power state. *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 Centrino 2 and 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 Centrino 2 and vPro technology is dependant on 3rd party software providers. Compatibility with future "virtual appliances" and Microsoft Windows Vista operating system is yet to be determined.			
Business Rugged	 Meets the military standard Mil-Std-810F* for: Shock: Method 516.5 Proc. I 			
	 Vibration: Method 514.5, Proc I High Temperature: Method 501.4, Proc I & II (140°F/60°C operational) Sand and Dust: Method 510.4, Proc. I (Blowing Dust) Humidity: Method 507.4 (95% relative humidity) Altitude: Method 500.4 Low Pressure, Proc. I & II (15,000 feet operational) 			
	* 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.			
Graphics	Models with NVIDIA graphics: NVIDIA Quadro FX 770M with 512 MB of dedicated video memory Microsoft DirectX 10 (Shader 4.0) and OpenGL 2.1 capable			
	Models with ATI graphics: ATI Mobility FireGL V5700 with 256 MB of dedicated video memory Microsoft DirectX 10.1 (Shader 4.1) and OpenGL 2.1 capable			



Standard Feature	S	
Display	Internal	15.4-inch diagonal WSXGA+ anti-glare (1680 x 1050 resolution) 15.4-inch diagonal WUXGA anti-glare (1920 x 1200 resolution) Ambient light sensor Integrated lid switch HP Privacy Filter support
	External	Up to 32-bit per pixel colour depth VGA port supports resolutions up to 2048 x 1536 at 75 Hz, and lower resolutions at up to 100 Hz HDMI 1.3 port supports direct connection to high-definition displays with up to 1920 x 1080 resolution and 7-channel audio with one convenient cable (not included). DVI port in optional HP Docking Station (sold separately) supports resolutions up to 1920 x 1200 for single-link DVI monitors and up to 2560 x 1600 for dual-link DVI monitors. NOTE: Resolutions are dependent upon monitor capability, and resolution and colour depth settings.
Memory	Standard	800 MHz DDR2 SDRAM; two slots supporting dual channel memory 1024 MB, 2048 MB, 4096 MB, or 8192 MB
	Maximum	Upgradeable to 8192 MB with 4096 MB SODIMMs in slots 1 and 2
	Dual-channel	Maximized dual-channel performance requires SODIMMs of the same size and speed in both memory slots.
	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. Availability of 4 GB or more of memory requires Windows Vista Business 64-bit or Linux. With Windows 32-bit operating systems, memory above 3 GB may not all be available due to system resource requirements.	
Communications	Integrated Intel Gigabit Network Connection (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.	



Support for a broad range of secure, integrated wireless LAN options featuring support for the latest industry standards. Wireless LAN is factory configurable or available 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 options.		
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	
Intel WiFi Link 5300	Integrated support for 802.11a, b, g, and n draft 2.0* Up to 450 mbps data rate	
HP Integrated Module with Bluetooth Wireless Technology	Bluetooth Specification v2.0 compliant Works with a wide range of Bluetooth devices	
specifications differ from t	02.11n draft 2.0 are draft specifications and are not final. If the final the draft specifications, it may affect the ability of the notebook to communicate N devices. In countries where n draft 2.0 is not allowed, this capability is not	
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. US and International key layouts are available. Other features include an integrated numeric keypad, hotkeys for instant access to power conservation, brightness, and other features, 19-mm x 19-mm key pitch (center-to-center spacing), 2.5-mm stroke, and comfort-dished keycaps.		
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.		
Touch-sensitive controls provide easy access to the following features: HP Info Center, HP QuickLook, wireless on/off, HP Presentation button, external volume up, volume down, and mute		
Enhanced dual pointing d Touchpad with scroll zone and		
-	industry standards. Wirele Integrated Bluetooth is als supported wireless LAN o All 802.11 integrated wireless LAN options Intel WiFi Link 5300 HP Integrated Module with Bluetooth Wireless Technology * The specifications for 80 specifications differ from t with other 802.11n WLAN enabled. The 101/102-key compa keyboard features, such a control and alt keys, and features include an integr brightness, and other feat and comfort-dished keyca HP DuraKeys is a clear co printed characters on the and icons from normal wa Touch-sensitive controls p wireless on/off, HP Preser	



Standard Features					
Expansion card slots	ExpressCard/54 slot	Supports ExpressCard/5	4 and ExpressCard/34		
	Integrated Smart Card Reader	Compatible with ISO 78 PC/SC interface support	16 compliant Smart Cards		
	Media Card Reader		pital), MMC (MultiMedia Card), Memory Stick, ory Stick Duo*, xD-Picture card		
Storage	Internal Storage Device) rpm SMART SATA II Hard Drive) rpm SMART SATA II Hard Drive		
	NOTE: Hard drives are customer removable and will withstand multiple insertion/removal cycles. Up to 10 GB is reserved for the system recovery software.				
	HP 3D DriveGuard	The hard drive is mounter transmission of shock av motion detection with in during normal use from	ed directly to the notebook frame, reducing the way from the hard drive. Uses three-axis digital telligent sensitivity to help protect the hard drive shock and vibration. The digital accelerometer a transfer and parks the hard drive when abrupt		
	Upgrade Bay	Fixed 12.7 mm SATA optical drive	Blu-ray R/RE DVD+/RW SuperMulti DL Drive DVD+/-RW SuperMulti DL LightScribe Drive DVD-ROM Drive		
		or			
		Second hard drive*	250 GB 5400 rpm SMART SATA II Hard Drive 250/320 GB 7200 rpm SMART SATA II Hard Drive		
		* For RAID configuration	ns, both hard drive capacities must be equal.		
Interfaces	ExpressCard/54 slot	One			
	Smart Card Reader	One			
	Media Card Reader	One			
	External Monitor	One – VGA			
	1394a	One – 4-pin connector			
	Stereo microphone in	One			
	Stereo headphone/line out	One			
	Power connector	One			
	RJ-11/modem	One			
	RJ-45/Ethernet	One			
	HDMI	One – 1.3 compatible			
	eSATA	One			
	USB 2.0	Four			
	Docking connector	One			
	Secondary battery connector	One			
	LED status indicators	Fifteen			



Audio/Visual	High Definition Audio support w/24-bit DAC Integrated stereo speakers Integrated dual-microphone array Touch-sensitive controls for volume up, volume down, and mute Stereo headphone/line out Stereo microphone in			
	Optional 2 MP Webcam v	Optional 2 MP Webcam with Business Card Reader Software		
	 Supports videoconferencing and still image capture Large image sensor for excellent colour 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 colour (camera sensors output YCrCb format among others) 			
Software	Preinstalled software with Windows Vista or Windows XP	HP Recovery Manager (Vista only) HP Help and Support Center HP QuickLook 2 HP Universal Print Driver HP ProtectTools Security Manager: BIOS Configuration for HP ProtectTools Credential Manager for HP ProtectTools Device Access Manager for HP ProtectTools Drive Encryption for HP ProtectTools Embedded Security for HP ProtectTools File Sanitizer for HP ProtectTools File Sanitizer for HP ProtectTools HP Quick Launch Buttons HP Wireless Assistant Microsoft Office Ready with 60-day Office Professional 2007 Trial Edition (select models) PDF Complete Special Edition Intervideo WinDVD - DVD Player Roxio Creator Business (for optional DVD+/-RW and DVD/CD-RW drives) McAfee Total Protection* Synaptics Touchpad Driver Microsoft Windows Live Messenger (select models) HP Webcam Software		
	Additional software available from the web	HP SoftPaq Download Manager HP Client Manager Software HP Client Management Solutions Java Card Security for HP ProtectTools		
	* 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.			



Workstation ISV Certifications	MCAD (Mechanical CAD/Architectural Engineering and Construction)	AutoDesk AutoCAD AutoDesk Inventor AutoDesk Revit AutoDesk AliasStudio AutoDesk AliasStudio AutoDesk Map 3D AutoDesk Civil 3D Bentley InRoads XM Bentley InRoads XM Bentley Navigator CEI CoCreate OneSpace 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 Premiere Adobe After effects Adobe Encore Adobe Photoshop AutoDesk 3DS MAX/Combustion AutoDesk Maya Avid Xpress Pro Avid Media Composer SoftImage XSI
	GIS (Geographic Information Systems)	ESRI ArcGIS
	Oil and Gas	Landmark R5000 Paradigm EPOS, GoCAD Schlumberger / GeoFrame Schlumberger Petrel SeismicMicro Technology
HP Performance Tuning Framework	delivering stability and bes	amework (PTF) enables optimal configuration of HP Mobile Workstations t performance. HP PTF will guide your system setup allowing a "custom" tches the workstation to user requirements.



Standard Features		·	
HP Recovery Manager (Vista only)	factory preinstalled imag	ge if the system becomes co	PRecovery Manager enables fast recovery of the rrupted or if important system files are accidentally or the system recovery software.
SMBIOS Version 2.4	System Management Bluinformation.	OS, previously known as DM	AI BIOS, is used to store system management
HP ProtectTools Security Manager	ProtectTools Security Ma capabilities through add BIOS Configurati Credential Mana Device Access Ma Drive Encryption File Sanitizer for H Set-up Wizard for Privacy Manager Embedded Secur	anager is an extensible client d-on software modules. Mod on for HP ProtectTools ger for HP ProtectTools anager for HP ProtectTools for HP ProtectTools HP ProtectTools	tform for business notebooks and desktops. The HP t security console that delivers enhanced security Jules currently available are: Sign)
Security	Standard Features	HP ProtectTools Security Enhanced Pre-Boot Security HP SpareKey One-Step Logon HP Fingerprint Sensor Integrated Smart Card R Configuration Control H Memory Change Alert Ownership Tag Setup Password Power-On Password TPM 1.2 Embedded Sec TPM Enhanced DriveLoc HP Disk Sanitizer HP 3D DriveGuard Kensington Lock Slot Support for Computrace separately)	urity Reader tardware curity Chip*
	Optional Features	HP Privacy Filter	Narrows viewing area so that screen data is visible only to persons directly in front of the monitor
			w; for example, Russia and China. to: http://www.hp.com/go/security.



Standard Features		
Power Supply	External 120 watt* Smart AC adapter, 6-foot (1.8-meter) power cord included. 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 12-cell Ultra-Capacity batteries.	
Battery	Primary battery	8-cell (73 WHr) Lithium-Ion battery
	Optional HP Extended Life Battery	8-cell (52 WHr) high capacity Lithium-Ion battery
	Optional HP Ultra- Capacity Battery	12-cell (95 WHr) high capacity Lithium-Ion battery
Battery Life	Primary battery	Up to 4 hours and 45 minutes
	Primary battery and optional HP Extended Lif Battery	Up to 8 hours and 30 minutes e
	Primary battery and optional HP Ultra- Capacity Battery	Up to 10 hours and 45 minutes
	Professional. Battery life loaded on the product, p	life measurements were taken on models running Microsoft Windows XP will vary depending on the product configuration, product model, applications ower management settings of the product, and the product features used by the reries, the maximum capacity of this battery will decrease with time and usage.
System Standby Time	Up to 2 weeks	
Power Conservation	ATI PowerPlay technolog Hibernation	rechnology (models with NVIDIA graphics) y (models with ATI graphics)
	Standby ACPI compliance	



Link DVI-D, USB 2.0 ports, integrated security mechanism*, integrated MultiBay II and slots. These docking solutions are compatible across multiple Business Notebook plat lower total cost of ownership. * HP/Kensington Cable Lock required (purchased separately) ** HP Advanced Docking Station only	
Service and Support HP Services offers limited 3-year warranty; 1-year limited warranty on primary battery. upgrades are also available. HP Care Pack Services extend service contracts beyond t warranties. To choose the right level of service for your HP product, use the HP Care P Lookup Tool at: http://www.hp.com/go/lookuptool. Additional HP Care Pack Services product is available at: http://www.hp.com/hps/carepack.	the standard Pack Services
NOTE: Certain restrictions and exclusions apply. Consult the HP Customer Support C http://h20000.www2.hp.com/bizsupport/TechSupport/ProductRoot.jsp	Centre for details.
Select Model(s) HP's Global Product Offer includes Global Series Preconfigured (GS-P) and Configure products. GPO delivers globally consistent products, services, and solutions with End- transition management. These products reduce IT complexity, lower management cost productivity, and simplify product transitions.	of-Life (EOL)



8530w FY594AW#ABA (English) FY594AW#ABC (Fr CAN)	Processor	Intel Core 2 Duo Processor T9400 (2.53 GHz, 6 MB L2 cache, 1066 MHz FSB)
	Intel Centrino 2 with vPro technology	Enabled
NOTE: Components may vary based on local	Operating System	Genuine Windows Vista Business 32 with Office Ready
regulatory requirements	System Memory	2048 MB 800 MHz DDR2 (1 DIMM)
0 / 1	Hard Drive	250 GB 7200 rpm SMART SATA II
	Upgrade Bay	DVD+/-RW SuperMulti DL LightScribe Drive
	Display	15.4-inch diagonal WSXGA+ anti-glare
	Graphics	NVIDIA Quadro FX 770M with 512 MB
	Webcam	2 MP Webcam
	Audio	ADI High Definition CODEC Stereo headphone/line out and microphone in Integrated microphone
	Communications	Integrated Intel Gigabit Network Connection (10/100/1000 NIC) 56K V.92 modem
	Integrated Wireless	Intel WiFi Link 5300 (802.11 a/b/g/n draft 2.0)
	Integrated Security	Drive Encryption for HP ProtectTools HP Fingerprint Sensor TPM 1.2*
	Pointing Device	Dual pointing devices (Touchpad and Pointstick)
	Battery	8-cell (73 WHr) Li-Ion
	Power	External 120W adapter
	Warranty	3/3/3
	* TPM module disabled wh	nere use is restricted by law; for example, Russia and China.



HP EliteBook 8530w Mobile Workstation

Processor	Intel Core 2 Duo Processor P8600 (2.40 GHz, 3 MB L2 cache, 1066 MHz FSB)
Operating System	Genuine Windows Vista Business with downgrade to Windows XP Professional custom installed with Office Ready
System Memory	2048 MB 800 MHz DDR2 (1 DIMM)
Hard Drive	160 GB 7200 rpm SMART SATA II
Upgrade Bay	DVD+/-RW SuperMulti DL LightScribe Drive
Display	15.4-inch diagonal WSXGA+ anti-glare
Graphics	NVIDIA Quadro FX 770M with 512 MB
Webcam	none
Audio	ADI High Definition CODEC Stereo headphone/line out and microphone in Integrated microphone
Communications	Integrated Intel Gigabit Network Connection (10/100/1000 NIC) 56K V.92 modem
Integrated Wireless	Intel WiFi Link 5300 (802.11 a/b/g/n draft 2.0) HP Integrated Module with Bluetooth Wireless Technology
Integrated Security	Drive Encryption for HP ProtectTools HP Fingerprint Sensor TPM 1.2*
Pointing Device	Dual pointing devices (Touchpad and Pointstick)
Battery	8-cell (73 WHr) Li-Ion
Power	External 120W adapter
Warranty	3/3/3
* TPM module disabled w	here use is restricted by law; for example, Russia and China.
	Operating System System Memory Hard Drive Upgrade Bay Display Graphics Webcam Audio Communications Integrated Wireless Integrated Security Pointing Device Battery Power Warranty



8530w KS050UA#ABA (English)	Processor	Intel Core 2 Duo Processor P8600 (2.40 GHz, 3 MB L2 cache, 1066 MHz FSB)
KS050UA#ABC (Fr CAN) Regional	Operating System	Genuine Windows Vista Business with downgrade to Windows XP Professional custom installed with Office Ready
	System Memory	2048 MB 800 MHz DDR2 (1 DIMM)
	Hard Drive	160 GB 7200 rpm SMART SATA II
	Upgrade Bay	DVD+/-RW SuperMulti DL LightScribe Drive
	Display	15.4-inch diagonal WSXGA+ anti-glare
	Graphics	NVIDIA Quadro FX 770M with 512 MB
	Webcam	none
	Audio	ADI High Definition CODEC Stereo headphone/line out and microphone in Integrated microphone
	Communications	Integrated Intel Gigabit Network Connection (10/100/1000 NIC) 56K V.92 modem
	Integrated Wireless	Intel WiFi Link 5300 (802.11 a/b/g/n draft 2.0) HP Integrated Module with Bluetooth Wireless Technology
	Integrated Security	Drive Encryption for HP ProtectTools HP Fingerprint Sensor TPM 1.2*
	Pointing Device	Dual pointing devices (Touchpad and Pointstick)
	Battery	8-cell (73 WHr) Li-Ion
	Power	External 120W adapter
	Warranty	3/3/3
	* TPM module disabled w	here use is restricted by law; for example, Russia and China.



8530w KS051UA#ABA (English)	Processor	Intel Core 2 Duo Processor T9400 (2.53 GHz, 6 MB L2 cache, 1066 MHz FSB)
KS051UA#ABC (Fr CAN) Regional	Operating System	Genuine Windows Vista Business with downgrade to Windows XP Professional custom installed with Office Ready
	System Memory	2048 MB 800 MHz DDR2 (1 DIMM)
	Hard Drive	250 GB 7200 rpm SMART SATA II
	Upgrade Bay	Blu-ray R/RE DVD+/RW SuperMulti DL Drive
	Display	15.4-inch diagonal WUXGA anti-glare
	Graphics	NVIDIA Quadro FX 770M with 512 MB
	Webcam	2 MP Webcam
	Audio	ADI High Definition CODEC Stereo headphone/line out and microphone in Integrated microphone
	Communications	Integrated Intel Gigabit Network Connection (10/100/1000 NIC) 56K V.92 modem
	Integrated Wireless	Intel WiFi Link 5300 (802.11 a/b/g/n draft 2.0) HP Integrated Module with Bluetooth Wireless Technology
	Integrated Security	Drive Encryption for HP ProtectTools HP Fingerprint Sensor TPM 1.2*
	Pointing Device	Dual pointing devices (Touchpad and Pointstick)
	Battery	8-cell (73 WHr) Li-Ion
	Power	External 120W adapter
	Warranty	3/3/3
	* TPM module disabled w	here use is restricted by law; for example, Russia and China.



8530w KS052UA#ABA (English)	Processor	Intel Core 2 Duo Processor T9400 (2.53 GHz, 6 MB L2 cache, 1066 MHz FSB)
KS052UA#ABC (Fr CAN) Regional	Operating System	Genuine Windows Vista Business with downgrade to Windows XP Professional custom installed with Office Ready
	System Memory	2048 MB 800 MHz DDR2 (1 DIMM)
	Hard Drive	160 GB 7200 rpm SMART SATA II
	Upgrade Bay	DVD+/-RW SuperMulti DL LightScribe Drive
	Display	15.4-inch diagonal WUXGA anti-glare
	Graphics	NVIDIA Quadro FX 770M with 512 MB
	Webcam	2 MP Webcam
	Audio	ADI High Definition CODEC Stereo headphone/line out and microphone in Integrated microphone
	Communications	Integrated Intel Gigabit Network Connection (10/100/1000 NIC) 56K V.92 modem
	Integrated Wireless	Intel WiFi Link 5300 (802.11 a/b/g/n draft 2.0) HP Integrated Module with Bluetooth Wireless Technology
	Integrated Security	Drive Encryption for HP ProtectTools HP Fingerprint Sensor TPM 1.2*
	Pointing Device	Dual pointing devices (Touchpad and Pointstick)
	Battery	8-cell (73 WHr) Li-Ion
	Power	External 120W adapter
	Warranty	3/3/3
	* TPM module disabled w	here use is restricted by law; for example, Russia and China.



8530w KS053UT#ABA (English)	Processor	Intel Core 2 Duo Processor T9400 (2.53 GHz, 6 MB L2 cache, 1066 MHz FSB)
KS053UT#ABC (Fr CAN) Smart Buy	Operating System	Genuine Windows Vista Business with downgrade to Windows XP Professional custom installed with Office Ready
	System Memory	2048 MB 800 MHz DDR2 (1 DIMM)
	Hard Drive	250 GB 7200 rpm SMART SATA II
	Upgrade Bay	Blu-ray R/RE DVD+/RW SuperMulti DL Drive
	Display	15.4-inch diagonal WUXGA anti-glare
	Graphics	NVIDIA Quadro FX 770M with 512 MB
	Webcam	2 MP Webcam
	Audio	ADI High Definition CODEC Stereo headphone/line out and microphone in Integrated microphone
	Communications	Integrated Intel Gigabit Network Connection (10/100/1000 NIC) 56K V.92 modem
	Integrated Wireless	Intel WiFi Link 5300 (802.11 a/b/g/n draft 2.0) HP Integrated Module with Bluetooth Wireless Technology
	Integrated Security	Drive Encryption for HP ProtectTools HP Fingerprint Sensor TPM 1.2*
	Pointing Device	Dual pointing devices (Touchpad and Pointstick)
	Battery	8-cell (73 WHr) Li-Ion
	Power	External 120W adapter
	Warranty	3/3/3
	* TPM module disabled w	here use is restricted by law; for example, Russia and China.



HP EliteBook 8530w Mobile Workstation

	8530w KS054UT#ABA (English)	Processor	Intel Core 2 Duo Processor P8400 (2.26 GHz, 3 MB L2 cache, 1066 MHz FSB)
	KS054UT#ABC (Fr CAN) Smart Buy	Operating System	Genuine Windows Vista Business with downgrade to Windows XP Professional custom installed with Office Ready
		System Memory	2048 MB 800 MHz DDR2 (1 DIMM)
		Hard Drive	160 GB 5400 rpm SMART SATA II
		Upgrade Bay	DVD-ROM Drive
		Display	15.4-inch diagonal WSXGA+ anti-glare
		Graphics	ATI Mobility FireGL V5700 with 256 MB
		Webcam	none
		Audio	ADI High Definition CODEC Stereo headphone/line out and microphone in Integrated microphone
		Communications	Integrated Intel Gigabit Network Connection (10/100/1000 NIC) 56K V.92 modem
		Integrated Wireless	Intel WiFi Link 5300 (802.11 a/b/g/n draft 2.0) HP Integrated Module with Bluetooth Wireless Technology
		Integrated Security	Drive Encryption for HP ProtectTools HP Fingerprint Sensor TPM 1.2*
		Pointing Device	Dual pointing devices (Touchpad and Pointstick)
		Battery	8-cell (73 WHr) Li-Ion
		Power	External 120W adapter
		Warranty	3/3/3
		* TPM module disabled wh	nere use is restricted by law; for example, Russia and China.



8530w KS055UT#ABA (English)	Processor	Intel Core 2 Duo Processor P8600 (2.40 GHz, 3 MB L2 cache, 1066 MHz FSB)
KS055UT#ABC (Fr CAN) Smart Buy	Operating System	Genuine Windows Vista Business with downgrade to Windows XP Professional custom installed with Office Ready
	System Memory	2048 MB 800 MHz DDR2 (1 DIMM)
	Hard Drive	250 GB 5400 rpm SMART SATA II
	Upgrade Bay	DVD+/-RW SuperMulti DL LightScribe Drive
	Display	15.4-inch diagonal WSXGA+ anti-glare
	Graphics	ATI Mobility FireGL V5700 with 256 MB
	Webcam	2 MP Webcam
	Audio	ADI High Definition CODEC Stereo headphone/line out and microphone in Integrated microphone
	Communications	Integrated Intel Gigabit Network Connection (10/100/1000 NIC) 56K V.92 modem
	Integrated Wireless	Intel WiFi Link 5300 (802.11 a/b/g/n draft 2.0) HP Integrated Module with Bluetooth Wireless Technology
	Integrated Security	Drive Encryption for HP ProtectTools HP Fingerprint Sensor TPM 1.2*
	Pointing Device	Dual pointing devices (Touchpad and Pointstick)
	Battery	8-cell (73 WHr) Li-Ion
	Power	External 120W adapter
	Warranty	3/3/3
	* TPM module disabled w	here use is restricted by law; for example, Russia and China.



Standard Features

KSO KSO	8530w KS056UA#ABA (English)	Processor	Intel Core 2 Extreme Processor X9100 (3.06 GHz, 6 MB L2 cache, 1066 MHz FSB)
	KS056UA#ABC (Fr CAN) Regional	Operating System	Genuine Windows Vista Business with downgrade to Windows XP Professional custom installed with Office Ready
		System Memory	4096 MB 800 MHz DDR2 (2 DIMM)
		Hard Drive	320 GB 7200 rpm SMART SATA II
		Upgrade Bay	DVD+/-RW SuperMulti DL LightScribe Drive
		Display	15.4-inch diagonal WUXGA anti-glare
		Graphics	NVIDIA Quadro FX 770M with 512 MB
		Webcam	none
		Audio	ADI High Definition CODEC Stereo headphone/line out and microphone in Integrated microphone
		Communications	Integrated Intel Gigabit Network Connection (10/100/1000 NIC) 56K V.92 modem
		Integrated Wireless	Intel WiFi Link 5300 (802.11 a/b/g/n draft 2.0) HP Integrated Module with Bluetooth Wireless Technology
		Integrated Security	Drive Encryption for HP ProtectTools HP Fingerprint Sensor TPM 1.2*
		Pointing Device	Dual pointing devices (Touchpad and Pointstick)
		Battery	8-cell (73 WHr) Li-Ion
		Power	External 120W adapter
		Warranty	3/3/3

* TPM module disabled where use is restricted by law; for example, Russia and China.



Options

Memory	HP 1 GB (DDR2 800 MHz) SODIMM	KT292AA
	HP 2 GB (DDR2 800 MHz) SODIMM	KT293AA
	HP 4 GB (DDR2 800 MHz) SODIMM	KT294AA
Storage	HP Notebooks USB Diskette Drive	DC361B
-	HP 250GB Pocket Media Drive	FE477AA
	HP Primary SATA 120 GB 7200 rpm Hard Drive	AH920AA
	HP Primary SATA 250 GB 5400 rpm Hard Drive	AK072AA
	HP Upgrade Bay SATA 250 GB 5400 rpm Hard Drive	AK868AA
	HP Upgrade Bay SATA DVD+/-RW SuperMulti DL LightScribe Drive	AK869AA
MultiBay II Storage (9.5-mm)	HP MultiBay II DVD-ROM Drive	PA849A
NOTE: Requires HP Advanced Docking Static or HP External MultiBay I		PA851A
Expansion Solutions	HP Docking Station	EN488AA#ABA
	HP Advanced Docking Station	EN489AA#ABA
	HP 2008 150W Docking Station	KQ751AA#ABA
	HP 2008 180W Advanced Docking Station	KQ752AA#ABA
	HP External MultiBay II	PA509A#ABA
	HP Dual-Monitor Stand	AK084AA
	HP Standard Monitor Stand	PA507A
	HP Adjustable Notebook Stand	PA508A
	HP Mobile Port Replicator	AK155AA
Communications	Intel WiFi Link 5300	KM591AA#ABA



Options		
Power	HP 1-Bay Battery Charging Station	RW635AA#ABA
	HP 5-Bay Battery Charging Station	RW636AA#ABA
	HP Battery Adapter Kit	KV830AA
	HP 150W Smart AC Adapter	AL192AA#ABA
	HP 180W Smart AC Adapter	AK875AA#ABA
	HP 90W Smart Auto Adapter	ED493AA
	HP 90W Smart Combo Adapter	AJ652AA#ABA
	HP Primary 8-cell Battery pack	KU533AA
	HP Extended Life Battery	AJ359AA
	HP 12-cell Ultra-Capacity Battery	EJ092AA
Carrying Cases	HP Basic Carrying Case	AJ078AA
	HP Value Nylon Case	RR314AA
	HP Universal Nylon Case	RR315AA
	HP Executive Leather Case	RR316AA
	HP Deluxe Nylon Backpack	RR317AA
	HP Deluxe Roller Case	GD405AA
Security	HP ExpressCard Smart Card Reader with Java Card	AJ451AA
	HP ProtectTools Java Card – 10 units	EL348AA
	HP/Kensington MicroSaver Security Lock	PC766A
	HP Privacy Filter	AJ358AA
Input/Output Devices	HP PS/2 Keyboard & Mouse Bundle*	RC464AA#ABA
· ·	HP USB Keyboard & Mouse Bundle	RC465AA#ABA
	HP USB/PS2 Optical 2-Button Scroll Mouse	DC369A
	HP USB Optical Travel Mouse	RH304AA
	* Requires HP Docking Station, HP Advanced Docking Station, HP 20 Advanced Docking Station. Availability may vary by region.	08 Docking Station or HP 2008



Memory

800-MHz DDR2 SDRAM Two DIMM slots supporting dual channel memory DIMM sizes supported: 1024 MB, 2048 MB, and 4096 MB

- 1024 MB (1024 MB x 1)
- 2048 MB (2048 MB x 1 or 1024 MB x 2)
- 4096 MB (4096 MB x 1 or 2048 MB x 2)
- 8192 MB (4096 MB x 2)

Optional Memory Upgrades

Support for up to 8192 MB of memory with the installation of optional DDR2 SDRAM memory kits. Both 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 slots.

Up to	Slot 1	Slot 2
1024 MB	1024 MB	Empty
2048 MB	1024 MB	1024 MB
3072 MB	2048 MB	1024 MB
4096 MB	2048 MB	2048 MB
8192 MB	4096 MB	4096 MB

NOTE: This chart does not represent all possible memory configurations. Due to the non-industry standard nature of some thirdparty 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. Availability of 4 GB or more of memory requires Windows Vista Business 64-bit or Linux. With Windows 32-bit operating systems, memory above 3 GB may not all be available due to system resource requirements.

Memory Upgrades	HP 1 GB (DDR2 800 MHz) SODIMM	KT292AA
	HP 2 GB (DDR2 800 MHz) SODIMM	KT293AA
	HP 4 GB (DDR2 800 MHz) SODIMM	KT294AA



Storage

Upgrade Bay Drive Support

	Quantity Supported	Drive Bay
Blu-ray R/RE DVD+/RW SuperMulti DL Drive	One	Upgrade Bay
DVD+/-RW SuperMulti DL LightScribe Drive	One	Upgrade Bay
DVD-ROM Drive	One	Upgrade Bay
250 GB 5400 rpm SMART SATA II Hard Drive	One	Upgrade Bay
320 GB 7200 rpm SMART SATA II Hard Drive	One	Upgrade Bay
250 GB 7200 rpm SMART SATA II Hard Drive	One	Upgrade Bay

Internal Storage Device

	Quantity Supported	Drive Bay
Hard Drives		
250 GB 5400 rpm SMART SATA II Hard Drive	One	Dedicated hard drive bay
160 GB 5400 rpm SMART SATA II Hard Drive	One	Dedicated hard drive bay
120 GB 5400 rpm SMART SATA II Hard Drive	One	Dedicated hard drive bay
320 GB 7200 rpm SMART SATA II Hard Drive	One	Dedicated hard drive bay
250 GB 7200 rpm SMART SATA II Hard Drive	One	Dedicated hard drive bay
160 GB 7200 rpm SMART SATA II Hard Drive	One	Dedicated hard drive bay



Technical Specifications

System Unit	Dimensions (HxWxD)	1.1 in (at front) x 14.0 in x 28.2 mm (at front) x 355 n			
	Weight	Starting from 6.3 lb (2.86 kg)			
	NOTE: Height varies depending upon where on the notebook the measurement is made. Starting weight includes 8-cell battery, hard drive, 1 GB memory, 802.11 wireless communications module, Bluetooth, and optical drive. Weight varies by configuration and components.				
	Stand-Alone Power Requirements	Normal Operating Voltage	18.5 V		
		Average Operating Power	26.0 W		
		Max Operating Power	< 120 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)		
	Relative Humidity	Operating	10% to 90%, non-condensing		
	,	Non-operating	5% to 95%, 101.6° F (38.7° C) maximum wet bulb temperature		
	Shock	Operating	125 G, 2 ms, half-sine		
		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	UL	Yes		
	Certifications	CSA	Yes		
		FCC Compliance	Yes		
		ENERGY STAR®	Yes		
		EPEAT	Silver		
		ICES	Yes		
		GS	Yes		
		Australia / NZ A-Tick Compliance	Yes		
		CCC	Yes		
		Japan VCCI Compliance	Yes		
		MIC	Yes		
		BSMI	Yes		
		CE Marking Compliance	Yes		
		BNCI or BELUS	Yes		
		CIT	Yes		
		GOST	Yes		
		Saudi Arabian Compliance (ICCP)	Yes		
		SABS	Yes		



Technical Specifications

UKRSERTCOMPUTER

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

Yes

HP 120W Smart AC Adapter	Weight	1.52 lb (0.69 kg) (adapte 0.29 lb (0.13 kg) (power	1	
·	Dimensions	6.65 x 2.56 x 1.50 in (16.9 x 6.5 x 3.8 cm)		
	Input	Operating Input Voltage	100 to 240 VAC	
		Operating Input Current	PFC Version: 2.20 A at 90 VAC 1.10 A at 180 VAC	
			Non-PFC Version: 2.5 A at 110 VAC 1.25 A at 180 VAC	
		Operating Frequency Range	47 to 63 Hz AC	
		Efficiency	83% minimum at 115 VAC	
	Output	Output power	120 W	
		DC Output Voltage	18.5 V	
	Environmental Design	Operating Temperature	32° to 104° F (0° to 35° C)	
		Non-operating (storage) Temperature	-4° to 149° F (-20° to 65° C)	
		Altitude	0 to 10,000 ft (0 to 3,048 m)	
		Humidity	20% to 80%	
		Storage Humidity	10% to 90%	
	EMI and Safety Certifications	Worldwide safety standard Agency approvals: C-UL-U Class B, CISPR22 Class B Permit, PSB, eK, BSMI, BN UKRSERTCOMPUTER	with LVD and EMC directives ds: IEC60950, EN60950, UL60950, Class2, SELV US, NORDICS, DENAN, EN55022 Class B, FCC , CCC, NOM-1 NYCE, S-Mark, Australian Electric NCI, KONCAR, GS, GOST, SASO, SABS, as apply to PFC version only.	



Technical Specification	ons		
Optional HP Ultra- Capacity Battery	Dimensions (H x W x L) Weight Cells/Type	1.3 x 6.0 x 10.6 in (3.33 1.77 lb (0.803 kg) 12-cell Lithium-Ion	x 15.25 x 26.88 cm)
	Energy	Watt-hour Capacity	95 WHr
	Temperature	Operating (Charging)	32° to 113° F (0° to 45° C)
		Operating (Discharging)	14° to 140° F (–10° to 60° C)
		Non-operating	-4° to 140° F (-20° to 60° C)
	Battery Re-Charge Time	Smart Adapter	3 to 4 hours
		System ON	4 to 5 hours (depending on system power consumption)
	Fuel Gauge	When pressed, LEDs light	indicating level of charge remaining on battery
Optional HP Extended Life	e Dimensions (H x W x L)	1.0 x 3.9 x 8.7 in (2.5 x 1	0.0 x 22.0 cm)
Battery	Weight	1.00 lb (0.455 kg)	
	Cells/Type	8-cell Lithium-Ion	
	Energy	Watt-hour Capacity	52 WHr
	Temperature	Operating (Charging)	32° to 113° F (0° to 45° C)
		Operating (Discharging)	14° to 140° F (–10° to 60° C)
		Non-operating	–4° to 140° F (–20° to 60° C)
	Battery Re-Charge Time	System in OFF mode or Standby	3 hours
		System ON	3 to 5 hours (depending on system power consumption)
		HP Fast Charge Technology	Charges the battery up to 90% within 90 minutes when system is OFF
	Fuel Gauge	When pressed, LEDs light	indicating level of charge remaining on battery
8-Cell (73 WHr) Lithium-	Dimensions (H \times W \times L)	0.8 x 1.9 x 10.6 in (2.0 x	4.8 x 27.0 cm)
lon battery	Weight	0.980 lb (0.445 kg)	
	Cells/Type	8-cell Lithium-Ion	
	Energy	Watt-hour Capacity	73 WHr
	Temperature	Operating (Charging)	32° to 113° F (0° to 45° C)
		Operating (Discharging)	14° to 140° F (–10° to 60° C)
		Non-operating	-4° to 140° F (-20° to 60° C)
	Battery Re-Charge Time	System in OFF mode or Standby	2.5 hours
		System ON	3 to 5 hours (depending on system power consumption)
		HP Fast Charge Technology	Charges the battery up to 90% within 1.5 hours when system is OFF



Technical Specifications

Displays

15.4-inch WUXGA, anti- glare	Dimensions ($W \times H$)	13.0 x 8.1 in (33.1 x	20.7 cm)		
	Diagonal Size	15.4 in (39.1 cm)	15.4 in (39.1 cm)		
	Surface Treatment	Anti-glare			
	Contrast Ratio	300:1 (typical)			
	Refresh Rate	60 Hz			
	Brightness	200 nit (typical)			
	Pixel Resolution	Pitch	0.173 mm		
		Format	1920 x 1200		
		Configuration	RGB stripe		
	Backlight	CCFL			
	PPI	147			
	Viewing Angle	±60° Horizontal, ± 5 ±70° Horizontal, ±6	50° Vertical (minimum) or 0° Vertical (typical)		
15.4-inch WSXGA+ anti-	Dimensions (W x H)	13.0 x 8.1 in (33.1 x	20.7 cm)		
glare	Diagonal Size	15.4 in (39.1 cm)			
	Surface Treatment	Anti-glare			
	Contrast Ratio	300:1 (typical)			
	Refresh Rate	60 Hz			
	Brightness	200 nit (typical)			
	Pixel Resolution	Pitch	0.197 mm		
		Format	1680 x 1050		
		Configuration	RGB stripe		
	_ ·· ·	CCFL			
	Backlight				
	Backlight PPI	129			

Internal Storage



Technical Specifications

1				
320 GB 7200 rpm SATA	Drive Weight	0.25 lbs (115 g)		
Hard Drive	Capacity	320 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 (maximum)	100 MB/s (Drive Capability)	
	Seek Time	Single Track	1.5 ms	
	(typical reads, including	Average	ll ms	
	settling)	Maximum	22 ms	
	Rotational Speed	7200 rpm		
	Logical Blocks	625,142,448		
	Operating Temperature	32° to 140° F (0° to 60° C	C) [case temp]	
	Features	ATA Security		
250 GB 7200 rpm SATA	Drive Weight	0.25 lbs (115 g)		
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 (maximum)	100 MB/s (Drive Capability)	
	Seek Time	Single Track	1.5 ms	
	(typical reads, including	Average	ll ms	
	settling)	Maximum	22 ms	
	Rotational Speed	7200 rpm		
	Logical Blocks	488397168		
	Operating Temperature	32° to 140° F (0° to 60° C	C) [case temp]	
	Features	ATA Security		



Technical Specifications

1 I					
160 GB 7200 rpm SATA Hard Drive	Drive Weight	0.25 lb (115 g)			
	Capacity	160 GB			
	Height	0.37 in (9.5 mm)			
	Width	2.75 in (70 mm)			
	Interface	ATA-8, SATA 2.6, 3.0 Gb	ATA-8, SATA 2.6, 3.0 Gb/s, NCQ		
	Transfer Rate	Synchronous (maximum)	100 MB/s (Drive Capability)		
	Seek Time	Single Track	1.5 ms		
	(typical reads, including	Average	ll ms		
	settling)	Maximum	22 ms		
	Rotational Speed	7200 rpm			
	Logical Blocks	312,581,808			
	Operating Temperature	32° to 140° F (0° to 60° C	32° to 140° F (0° to 60° C) [case temp]		
	Features	ATA Security			
250 GB 5400 rpm SATA	Drive Weight	0.22 lb (101 g)			
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 (maximum)	100 MB/s (Drive Capability)		
	Seek Time	Single Track	3 ms		
	(typical reads, including	Average	13 ms		
	settling)	Maximum	24 ms		
	Rotational Speed	5400 rpm			
	Logical Blocks	488,397,168			
	Operating Temperature	32° to 140° F (0° to 60° C	C) [case temp]		
	Features	ATA Security			



Technical Specification	ons			
160 GB 5400 rpm SATA Hard Drive	Drive Weight	0.22 lb (101 g)		
	Capacity	160 GB		
	Height	0.37 in (9.5 mm)		
	Width	2.75 in (70 mm)		
	Interface	ATA-8, SATA 2.6, 3.0 Gb	n/s, NCQ	
	Transfer Rate	Synchronous (maximum)	100 MB/s (Drive Capability)	
	Seek Time	Single Track	3 ms	
	(typical reads, including	Average	13 ms	
	settling)	Maximum	24 ms	
	Rotational Speed	5400 rpm		
	Logical Blocks	312,581,808		
	Operating Temperature	32° to 140° F (0 $^\circ$ to 60° C	C) [case temp]	
	Features	ATA Security		
120 GB 5400 rpm SATA	Drive Weight	0.22 lb (101 g)		
Hard Drive	Capacity	120 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		100 MB/s (Drive Capability)	
	Seek Time	Single Track	3 ms	
	(typical reads, including	Average	13 ms	
	settling)	Maximum	24 ms	
	Rotational Speed	5400 rpm		
	Logical Blocks	234,441,648		
	Operating Temperature	32° to 140° F (0° to 60° C) [case temp]		
	Features	ATA Security		
80 GB 2.5-inch SATA	Weight	0.19 lbs (86 g)		
Solid State Drive	Capacity	80 GB		
	Height	0.37 in (9.5 mm)		
	Width	2.75 in (70 mm)		
	Interface	ATA-7 / SATA 2.6		
	Performance	Maximum Sequential Read	Maximum Sequential Write	
		250 MB/s	70 MB/s	
	Logical Blocks	156,301,488		
	Operating Temperature	32° to 158°F (0° to 70°C)	[case temp]	
	Features	ATA Security		



Technical Specifications

Optical Drives

DVD-ROM Drive	Access Times	Random	<116 ms CD (typical)		
			<125 ms DVD (typical)		
	Max Data Transfer Rate	24X 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 (read)	4.7 GB			
	Transport	Tray Loading			
DVD+/-RW SuperMulti DL LightScribe Drive	Access Times	Random	<175 ms CD (typical) <230 ms DVD (typical)		
	Max Data Transfer Rate	24X 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		
		4X DVD+RW	Up to 5,400 KB/s		
		8X DVD-R	Up to 10,800 KB/s		
		4X DVD-RW	Up to 5,400 KB/s		
		2.4X DVD+R(9)	Up to 2,700 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 LightScribe	+R, DVD+RW, DVD-R, DVD-RW, DVD-RAM,		
	Max Media Capacity (read)	8.5 GB			
	Max Media Capacity (write)	8.5 GB			



Technical Specifications

	Transport	Tray Loading	
Blu-ray R/RE DVD+/-RW SuperMulti DL Drive	Access Times	Random	<140 ms CD-ROM (typical) <160 ms DVD-ROM (typical)
			<300 ms BD-ROM (typical)
	Max Data Transfer Rate	24X CD-ROM	Up to 3,600 KB/s
		8X DVD-ROM	Up to 10,800 KB/s
		8X CD-R	Up to 1,200 KB/s
		8X CD-RW	Up to 1,200 KB/s
		8X DVD+R	Up to 10,800 KB/s
		4X DVD + RW	Up to 5,400 KB/s
		8X DVD-R	Up to 10,800 KB/s
		4X DVD-RW	Up to 5,400 KB/s
		2.4X DVD+R(9)	Up to 2,700 KB/s
		5X DVD-RAM	Up to 6,750 KB/s
		1X BD-ROM	Up to 4,500 KB/s
		1X BD-R	Up to 4,500 KB/s
		1X BD-RE	Up to 4,500 KB/s
	Transfer Mode	UDMA Mode 5	
	Interface	Gen 1 SATA	
	Supported Media (read)	MODE CD, CD-I, CE (Photo-CD, CD-EXTR ROM (DVD-5, DVD-5	CD-MIDI, CD-TEXT, CD-ROM, CD-ROM XA, MIXED D-I Bridge (Photo-CD, Video CD), Multisession CD A, Portfolio, CD-R, CD-RW), CD-R, CD-RW, DVD- P, DVD-10, DVD-18), DVD-R, DVD-RW, DVD+R, 1, 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)	50.0 GB	
	Max Media Capacity (write)	50.0 GB	
	Transport	Tray Loading	

Security



Technical Specifications

HP Fingerprint Sensor	Mobile Voltage Operation	3.0V–3.6V Single Supply
	Operating Temperature	32° – 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 Capture	Up to 240 image frames /sec
	ESD Resistance	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	ADI1984A High Definition CODEC
	Volume Controls	Volume up, volume down, and mute
	Full Duplex	Yes
	Sound Blaster Pro compatible	Yes
	Microphone In	Stereo
	Headphone/Line Out	Stereo
	Integrated Microphone	Yes
Audio Output Quality	Frequency Response	20 Hz – 20 kHz
	Signal to Noise Ratio	>85 dB
	Total Harmonic Distortion	0.01%
	Noise Floor	-110 dB
	Play/Record Sampling Rate(s)	8 kHZ – 48kHz
	DAC	16, 20 or 24-bit
	ADC	16, 20 or 24-bit
ntegrated Stereo	Power Rating	2 Watts
Speakers	Impedance	4 Ohms



Technical	Specifications
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Integrated Intel Gigabit Network Connection (10/100/1000 NIC)	Ethernet Features	10 Mbit/s operation (10BASE-T; IEEE 802.3i; IEEE 802.3 clauses 13-14) 100 Mbit/s operation (100BASE-TX; IEEE 802.3u; IEEE 802.3 clauses 21- 30)
82567LM		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)
	Manageability	Wake-on-LAN from standby and hibernation (Magic Packet and Microsoft
	Manageability	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 (iAMT)
	Interface	PCI Express x1
		Intel 82567 Gigabit Network Connection
V.92 56K Data/Fax Modem	Form Factor	MDC 1.5 Daughtercard
Modelli	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.32 V.23
		V.22bis
		V.22
		V.21



Technical Specifica	itions		
		Bell 212A Bell 103J	
	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	
Intel WiFi Link 5300	Wireless LAN Standards	IEEE 802.11a IEEE 802.11b IEEE 802.11g IEEE 802.11n (draft 2.0)*	
		* The specifications for 802.11n draft 2.0 are draft specifications and are not final. If the final specifications differ from the draft specifications, it may affect the ability of the notebook to communicate with other 802.11n WLAN devices. In countries where n draft 2.0 is not allowed, this capability is not enabled.	
	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/WLAN) Tested with wireless access points from several major manufacturers (details at: http://www.hp.com/go/notebooks/WLAN/draft-n)	
	Frequency Band	2.4 GHz and 5 GHz	
	Antenna Structure	3 transmit; 3 receive (3x3)	
	Data Rates	802.11b: 1, 2, 5.5, 11 Mbps 802.11a/g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps 802.11n (draft): 66 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 (draft) specification	
	Modulation	Direct Sequence Spread Spectrum DBPSK, DQPSK, CCK, OFDM, BPSK, QPSK, 16-QAM, 64-QAM	
	Security ¹	Supports 64- and 128-bit WEP, WPA, WPA2, hardware-accelerated AES (support for key sizes of 128, 192, and 256 bits), 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.	



Technical Specifications

Sub-channels	Multinational support with frequency bands and channels compliant to local regulations.		
Media Access Protocol	CSMA/CA (Collision Avoidance) with ACK		
Network Architecture Models	Ad-hoc (Peer to Peer)		
	Infrastructure (Access Point Required) IEEE 802.11 compliant roaming between access points		
Roaming Output Power (for CCK) ²	•	aming between access points	
Output Power (for OFDM, power varies by data rate) ²			
Power Consumption		age, with three spatial streams) ge with three receive chains) age)	
Power Management	ACPI compliant power management 802.11 compliant power saving mode		
Receiver Sensitivity ⁴	300 Mbps: -68 dBm, 54	Mbps: -74 dBm, 6 Mbps: -90 dBm	
Antenna Connections	3 U.FL type connectors, 5	0 ohm nominal impedance	
Range	802.11 a – Typical (@6 Mbps)	600 feet – Outdoor Open Area 150 feet – Indoor, Office environment	
	802.11 b – Typical (@1 Mbps)	1200 feet – Outdoor Open Area 300 feet – Indoor, Office environment	
	802.11 g – Typical (@1 Mbps)	1200 feet – Outdoor Open Area 300 feet – Indoor, Office environment	
Form Factor	PCI-Express MiniCard		
Weight	0.013 lb (6 g)		
Dimensions	0.19 x 1.2 x 2.0 in (4.75 x 29.85 x 50.8 mm)		
Operating Voltage	3.3V +/- 9%, 1.5V +/- 5	%	
Temperature	Operating Non-operating	32° to 176° F (0° to 80° C) –40° to 176° F (–40° to 80° C)	
Humidity	Operating Non-operating	10% to 90% (non-condensing) 5% to 90% (non-condensing)	
Altitude	Operating Non-operating	0 to 10,000 ft (3,048 m) 0 to 50,000 ft (15,240 m)	
Configuration Utility ⁵	Microsoft Windows XP Choice of Configuratio	on Utility:	
		XP Wireless Network Connection Manager crosoft Windows XP (required for Cisco Compatible	
	Microsoft Windows Vista		
		Vista Wireless Network Connection Manager. for Windows Vista available to support Cisco ons.	
LED Activity	LED Off – Radio OFF; So	lid LED On – Radio ON	



Technical Specifications

- 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).
- 5. 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	Bluetooth Specification	2.0 Compliant		
with Bluetooth Wireless	Dimensions	1.02 x 0.55 x 0.22 in (26 x 14 x 5.7 mm)		
Technology	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		
	OS Support	Microsoft Windows XP Professional and Home		
		Microsoft Windows 2000		
	Bluetooth Software	Broadcom Bluetooth for Windows		
	Supported	Microsoft Windows XP Bluetooth Software		
	Link Topology	Point to Point, Multipoint Pico Nets up to 7 slaves		
	Security	Full support of Bluetooth Security Provisions		
	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		



Technical Specifications

enican	5115			
	Temperature	Operating	-4° to 158° F (–20° to 7	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	(with Bluetooth for Windo	ws 4.0 software)	
	Supported	Serial Port Profile (SPP)*		
		Dial-Up Networking (DU)	٨)*	
		Generic Object Exchange	e Profile (GOEP)	
		Object Push Profile (OPP)	*	
		File Transfer Profile (FTP)		
		Synchronization Profile (S	YNC)	
		Hard Copy Cable Replac	ement (HCRP)*	
		Personal Area Networking	g Profile (PAN)*	
		Human Interface Device F	Profile (HID)*	
		FAX Profile (FAX)		
		Basic Imaging Profile (BIP)	
		Headset Profile (HSP)		
		Hands Free Profile (HFP)		
		Advanced Audio Distribut		
	* indicates the protile is al	so supported by Microsoft \	Windows XP SP2	
	Eco-Label Certifications	This product has received	or is in the process of bei	ng certified to the
		following approvals and r	•	0
		 US Energy Star 		
		 Taiwan Green Mar 	k	
		 China Energy Cons 	•	
		 IT ECO declaration EPEAT – Silver 	I	
		 Korea ECO label 		
	System Configuration	The configuration used fo	r the Energy Consumption	and Declared Noise
		Emissions data for the Co "Typically Configured Not	nvertible Mini tower Deskt	
	Energy Consumption	115 VAC	230 VAC	100 VAC
	Normal Operation	15.22 W	17.02 W	15.12 W
	Sleep (Energy Star low	1.278 W	1.335 W	1.271 W
	power mode)			
	Off	0.647 W	0.636 W	0.724 W
	Heat Dissipation*	115 VAC	230 VAC	100 VAC
	· · · · · · · · · · · · · · · · · · ·			
	Normal Operation	52 BTU/hr	58 BTU/hr	52 BTU/hr



Eco Data

HP EliteBook 8530w Mobile Workstation

Technical Specifications			
Sleep Off	4 BTU/hr 2 BTU/hr * Heat dissipation is calculate service level is attained for on		4 BTU/hr 3 BTU/hr ared watts, assuming the
	This product is in compliance on LAN) disabled.	with US executive orde	er 13221, WOL (wake
Declared Noise Emissions (in accordance with ISO 7779 and ISO 9296)			
System Fan Off	Sound Power		ound Pressure
Idle	(LWAd, bels) 3.1	(L	pAm, decibels) 23
Fixed Disk (random writes)	3.1		24
	cept when charging the battery		
Batteries	This product complies with ISC	O standards:	
	 EU Directive 91/ 157/ EU Directive 93/ 86/ E EU Directive 98/ 101/ 	EC	
	Batteries used in the product do not contain:		
	 Mercury greater the 5p Cadmium greater than Lead greater than 4000 	10ppm by weight	
	The battery type and chemistry CR2032 (coin cell), Lithium This product is in compliance (RoHS) directive – 2002/95/E	with the Restrictions o	
Additional information:	This HP product is designed to Electronic Equipment (WEEE)	o comply with the Was	
	This product is in compliance California; Safe Drinking Wat		,
	This product is in compliance Silver level, see: www.epeat.n		PEAT) standard at the
	Keyboard complies with ISO s ISO/IEC 15412	standard: ISO 9995, E	EN 29241-4, and
	Input devices of this product of	comply with ISO 9241	, part 9.
	Plastics parts weighing over 2 ISO 11469 and ISO1043.	5 grams used in the p	roduct are marked per
	This product contains 0% recy	cled materials (by wt.)	



Material Usage

HP EliteBook 8530w Mobile Workstation

Technical Specifications

This product is greater than 95.0% recycle-able when properly disposed of at end of life.

Packaging Materials

 External: Polyethylene low density Corrugated carton Internal: Corrugated The EPE foam packaging material content. The corrugated paper packaging recycled content. 	
HP follows these guidelines to decrease t packaging:	he environmental impact of product
 Eliminate the use of heavy metals s and cadmium in packaging material Eliminate the use of ozone-depletin materials. Design packaging materials for ea Maximize the use of post-consume packaging materials. Use readily recyclable packaging r corrugated materials. Reduce size and weight of package efficiency. Plastic packaging materials are no DIN 6120 standards. This product does not contain any of the regulatory limits (for reference of these lin Specification of the Environment (http://www.hp.com/hpinfo/supplychain/gen specifications.html): 	ials. ng substances (ODS) in packaging use of disassembly. er recycled content materials in materials such as paper and es to improve transportation fuel arked according to ISO 11469 and following substances in excess of mits please refer to the HP General
 Asbestos Certain Azo Colorants Certain Brominated Flame Retardor retardants in plastics Cadmium Chlorinated Hydrocarbons Chlorinated Paraffins Formaldehyde Halogenated Diphenyl Methanes Lead carbonates and sulfates 	ants – may not be used as flame

- 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.



Technical Specifications

End of life Management	 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 treatment 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

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