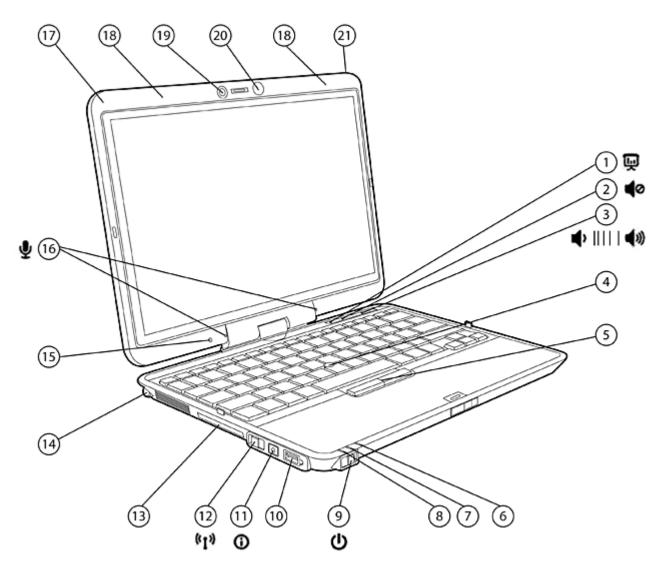
Overview





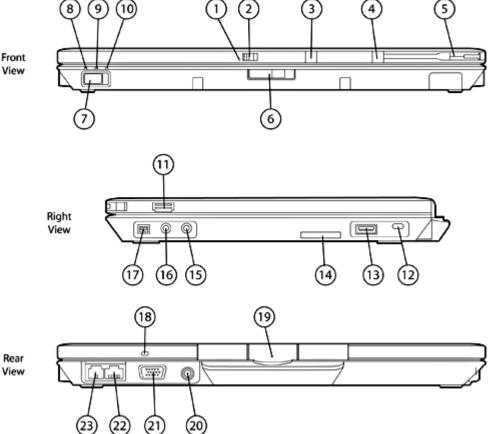
- 1. HP Presentation button with LED indicator
- 2. Volume mute button with LED indicator
- 3. Volume scroll zone with up/down LED indicators
- 4. Pointstick
- 5. Pointstick buttons
- 6. Hard drive / optical drive activity / HP 3D DriveGuard LED 16.
- 7. Battery charging LED
- 8. Power/standby LED
- 9. Power on/off
- 10. USB 2.0 port (powered)

- 11. HP Info / HP QuickLook button
- 12. Wireless on/off with LED
- 13. ExpressCard/54 slot or Smart Card Reader
- 14. Pen slot
- 15. Ambient light sensor
 - 6. Dual-microphone array
- 17. Internal WWAN antenna
- 18. Two internal WLAN antennas
- 19. Integrated camera (select models)
- 20. HP Night Light
- 21. External WWAN antenna



Overview

Front



- Camera LED (select models) 1.
- 2. Camera mode switch (select models)
- 3. HP Night Light button
- 4. External WWAN antenna button
- 5. External WWAN antenna
- 6. Display release latch
- 7. Power on/off
- 8. Power/standby LED
- 9. Battery charging LED
- 10. Hard drive activity / HP 3D DriveGuard LED
- 11. HP Fingerprint Sensor
- 12. Kensington Lock slot

- USB 2.0 port 13.
- 14. Secure Digital (SD) slot
- 15. Stereo microphone in
- 16. Stereo headphone/line out
- 17. 1394a port
- 18. Windows security button (ctl-alt-del)
- 19. Convertible Hinge
- 20. Power connector
- 21. VGA/external monitor connector
- 22. RJ-45/Ethernet port
- 23. RJ-11/modem port



Overview

At A Glance

- Genuine Windows Vista Business*, Genuine Windows XP Tablet PC Edition, or FreeDOS
- Convertible tablet design starting at 3.7 lb/1.68 kg and 1.11 inch thin
- 12.1-inch diagonal Illumi-LiteWXGA ultra wide-viewing angle display with Digitizer, Ambient Light Sensor, and optional Outdoor View
- Flexible wireless connectivity options:
 - O Integrated HP ev2210 1xEVDO-A or HP hs2300 HSDPA Broadband Wireless module
 - O Integrated 802.11 a/b/g/draft-n or a/b/g wireless LAN module
 - O Bluetooth®
- Optional integrated camera
- HP Night Light
- Intel® Centrino® with vPro[™] technology capable, with Intel Core[™]2 Duo ULV processors
- Connectors for HP 2700 Ultra-Slim Expansion Base and HP 2700 Ultra-Slim Battery
- Enhanced security features including HP Fingerprint Sensor, TPM 1.2, optional Smart Card Reader, and Drive Encryption for HP ProtectTools
- HP QuickLook on Windows Vista models for instant access to email, calendar, and contact information
- ExpressCard/54 slot
- Full magnesium alloy enclosure, chemically-strengthened glass over display, HP DuraKeys and HP DuraFinish
- Up to 120-GB 5400 rpm, user-removable hard drive protected by HP 3D DriveGuard or 64-GB Solid State Drive
- Up to 4 GB of 667-MHz DDR2 SDRAM (runs at 533-MHz), dual channel memory support
- Touch-sensitive controls
- Integrated Intel Gigabit Network Connection (10/100/1000 NIC)
- Secure Digital (SD) slot

* At initial boot, either 32- or 64-bit can be selected. This is a one time selection and the other version will be deleted.



Processors	Intel Core 2 Duo ULV Processor U7600 (1.20 GHz, 2 MB L2 cache, 533 MHz FSB) Intel Core 2 Duo ULV Processor U7700 (1.33 GHz, 2 MB L2 cache, 533 MHz FSB)		
Operating System	Preinstalled	Genuine Windows Vista Business [†] * Genuine Windows XP Tablet PC Edition FreeDOS	
	Supported	Genuine Windows Vista Enterprise*	
	Certified	SuSE Linux Enterprise Desktop 10	
	 [†] At initial boot, either 32- or 64-bit can be selected. This is a one time selection and the other version will be deleted. * 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. 		
Chipset	Mobile Intel GM965	5	
Intel Centrino with vPro technology capable	Intel Centrino with vPro technology is a selectable feature that is available on units configured with an Intel Wireless WiFi Link 4965AGN or 4965AG. 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 Pro 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 Pro 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.		
Graphics	Mobile Intel GMA X3100, up to 384 MB of shared system memory Microsoft DirectX9 capable		
Integrated Camera (select models)	t 2 Megapixel (1600 x 1200 max resolution) Manual adjust Macro lens Full 30 frames/sec video at 800x600 or VGA (640x480) resolution NOTE: Frame rates are dependent on lighting and are slowerif lighting is not ideal.		



HP Compaq 2710p Notebook PC

Standard Featur	es	
Display	Internal	12.1-inch diagonal Illumi-Lite WXGA UWVA anti-glare with Digitizer (1280 × 800 resolution) Ambient light sensor Optional Outdoor View*
	External	Up to 32-bit per pixel color depth VGA port supports resolutions up to 2048 x 1536 at 75 Hz, and lower resolutions at up to 100 Hz NOTE: Resolutions are dependent upon monitor capability, and resolution and color depth settings.
		ptional Outdoor View is a 12.1-inch diagonal WXGA UWVA anti-glare display with vides enhanced viewable improvements:
	 Up to 2355 25% less sp 91% less d 	ase in front of screen display brightness with no loss of battery life % increase in contrast, resulting in better viewability, at wide viewing angles pecular reflections in bright light iffuse reflections in bright light contrast in bright sunlight
	NOTE: This data may vary from pa	is based on typical measurements by the display manufacturer. Actual measurements inel to panel.
Memory	Standard	1024-MB, 2048-MB, or 4096-MB 667-MHz* DDR2 SDRAM: two SODIMM

Memory	Standard	1024-MB, 2048-MB, or 4096-MB 667-MHz* DDR2 SDRAM; two SODIMM slots supporting dual channel memory			
	Maximum	Upgradeable to 4096-MB with 2048-MB SODIMM in slots 1 and 2			
	Dual-channel	Maximized dual-channel performance requires SODIMMs of the same size and speed in both memory slots.			
	* Operates at a maxir	* Operates at a maximum of 533-MHz with 667-MHz memory.			
	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. Above 3-GB, all memory may not be available due to system resource requirements.				
Communications	Integrated Intel Gigab 56K V.92 modem**	it Network Connection (10/100/1000 NIC)*			
		000" 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, bit Ethernet server and network infrastructure is required.			
		loads from 56K modem compliant sources. Maximum achievable download rently do not reach 56 KB/s, and will vary with line conditions. Modem availability egulatory approval.			



Standard Features

Wireless Devices

Support for a broad range of secure, integrated wireless LAN and wireless WAN options featuring support for the latest industry standards. Wireless LAN is factory configurable or available as an option to be added later. Broadband Wireless (WWAN) requires Windows Vista Business or Windows XP Professional 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 ev2210 1xEVDO-A Broadband Wireless Module	Integrated WWAN module connects to the Sprint Mobile Broadband or Verizon Wireless BroadbandAccess and NationalAccess networks (U.S. only) Supports CDMA 1xEVDO-A, 1xRTT connections at 800 and 1900 MHz. NOTE: Separately purchased Sprint Mobile Broadband or Verizon Wireless service is required. For details, go to http://www.hp.com/go/broadbandwireless. Upgradeable design and two 850/900/1800/1900/2100-MHz antennas (one inside the top of the display panel and one extendable) support current and future WWAN technologies.
HP hs2300 HSDPA Broadband Wireless Module	Integrated WWAN module that provides connection to GSM, GPRS, EDGE, UMTS, and HSDPA mobile networks in many countries. Currently supported networks are the AT&T Broadbandconnect network in the U.S., Vodafone networks in select countries, and roaming on AT&T and Vodafone partner networks in more than 100 countries. NOTE: Separately purchased mobile network operator service is required. Upgradeable design and two 850/900/1800/1900/2100-MHz antennas (one inside the top of the display panel and one extendable) support current and future WWAN technologies.
All 802.11a/b/g integrated wireless LAN options	 Wi-Fi certified Cisco Compatible Extensions support (Version 4.0) with Microsoft Windows XP 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 WiFi certified for WPA2, WMM Three antennas integrated in the display enclosure
Intel Wireless WiFi Link 4965AGN	Integrated support for 802.11a, b, g, and draft-n Up to 300-mbps data rate
Intel Wireless WiFi Link 4965AG	Integrated support for 802.11 a, b and g Up to 54-mbps data rate
Broadcom 4311AG 802.11a/b/g WiFi Adapter	Integrated support for 802.11 a, b and g Up to 54-mbps data rate
HP Integrated Module with Bluetooth Wireless Technology	Bluetooth Specification v2.0 compliant Works with a wide range of Bluetooth devices



Keyboard	 The 101/102-key compatible keyboard features an industry standard, full-pitch key layout with desk 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), 2.0-mm stroke and comfort-dished keycaps. HP DuraKeys is a clear coating applied over the notebook keyboard that helps protect the finish and printed characters on the keys. HP DuraFinish helps protect the finish on the keyboard deck, graphics, and icons from normal wear 		
	HP DuraFinish helps protect the finish on the keyboard deck, graphics, and icons from normal wear and tear.		
Touch-sensitive controls	Touch-sensitive controls provide easy access to the following features: HP Presentation button, Volume mute button, and Volume scroll zone		
Pointing device	Pointstick, two pick buttons Digital Eraser Pen with tether and clip		
Expansion card slots	ExpressCard/54 slot or	Supports ExpressCard/54 and ExpressCard/34	
		rt Compatible with ISO 7816 compliant Smart Cards PC/SC interface support	
	Secure Digital slot	Supports SD (Secure Digital), MMC (MultiMedia Card)	
Storage	Internal Storage Device	120-GB 5400 rpm 1.8" PATA Hard Drive 80/100/120-GB 4200 rpm 1.8" PATA Hard Drive 64-GB Solid State 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.		
		The hard drive is mounted to the notebook frame, reducing the transmission of shock away from the hard drive. Uses three-axis digital motion 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.	
	External Optical Drives	Via optional HP 2700 Ultra-Slim Expansion Base: 7mm DVD+/-RW SuperMulti Drive	
		Via optional HP External MultiBay II (9.5-mm): MultiBay II DVD-ROM Drive MultiBay II DVD/CD-RW Combo Drive MultiBay II DVD+/-RW SuperMulti DL Drive	
	Second Hard Drive	Via optional HP External MultiBay II (9.5-mm): MultiBay II 80-GB 5400 rpm Hard Drive	



Standard Features

HP Compaq 2710p Notebook PC

Interfaces			
	ExpressCard/54 slot	Supports ExpressCard/54 and ExpressCard/34	
	Smart Card Reader	Optional (replaces ExpressCard/54 slot)	
	External monitor	One – VGA	
	1394a	One	
	Stereo microphone in	One	
	Stereo headphone/line out	One	
	Power connector	One	
	RJ-11/modem	One	
	RJ-45/Ethernet	One	
	USB 2.0	Two (including one powered USB 2.0 port to support HP External MultiBay II	
	Docking connector	For HP 2700 Ultra-Slim Expansion Base	
	Secondary battery connector	For HP 2700 Ultra-Slim Battery	
	LED status indicators	Thirteen	
	Integrated dual-microphone array Touch-sensitive controls for volume up, volume down, and mute Stereo headphone/line out Stereo microphone in		
	Stereo headphone/line out		
Software	Stereo headphone/line out Stereo microphone in		
Software	Stereo headphone/line out	PDF Complete	
Software	Stereo headphone/line out Stereo microphone in Preinstalled software with		
Software	Stereo headphone/line out Stereo microphone in Preinstalled software with Windows Vista or	PDF Complete HP Backup and Recovery Manager HP Help and Support Center HP QuickLook (Windows Vista only)	
Software	Stereo headphone/line out Stereo microphone in Preinstalled software with Windows Vista or	PDF Complete HP Backup and Recovery Manager HP Help and Support Center HP QuickLook (Windows Vista only) HP OpenView Radia Management Agent	
Software	Stereo headphone/line out Stereo microphone in Preinstalled software with Windows Vista or	PDF Complete HP Backup and Recovery Manager HP Help and Support Center HP QuickLook (Windows Vista only) HP OpenView Radia Management Agent HP Universal Print Driver	
Software	Stereo headphone/line out Stereo microphone in Preinstalled software with Windows Vista or	PDF Complete HP Backup and Recovery Manager HP Help and Support Center HP QuickLook (Windows Vista only) HP OpenView Radia Management Agent HP Universal Print Driver HP ProtectTools Security Manager:	
Software	Stereo headphone/line out Stereo microphone in Preinstalled software with Windows Vista or	PDF Complete HP Backup and Recovery Manager HP Help and Support Center HP QuickLook (Windows Vista only) HP OpenView Radia Management Agent HP Universal Print Driver	
Software	Stereo headphone/line out Stereo microphone in Preinstalled software with Windows Vista or	PDF Complete HP Backup and Recovery Manager HP Help and Support Center HP QuickLook (Windows Vista only) HP OpenView Radia Management Agent HP Universal Print Driver HP ProtectTools Security Manager: BIOS Configuration for HP ProtectTools Credential Manager for HP ProtectTools Device Access Manager for HP ProtectTools	
Software	Stereo headphone/line out Stereo microphone in Preinstalled software with Windows Vista or	PDF Complete HP Backup and Recovery Manager HP Help and Support Center HP QuickLook (Windows Vista only) HP OpenView Radia Management Agent 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	
Software	Stereo headphone/line out Stereo microphone in Preinstalled software with Windows Vista or	PDF Complete HP Backup and Recovery Manager HP Help and Support Center HP QuickLook (Windows Vista only) HP OpenView Radia Management Agent 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	
Software	Stereo headphone/line out Stereo microphone in Preinstalled software with Windows Vista or	PDF Complete HP Backup and Recovery Manager HP Help and Support Center HP QuickLook (Windows Vista only) HP OpenView Radia Management Agent 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	
Software	Stereo headphone/line out Stereo microphone in Preinstalled software with Windows Vista or	PDF Complete HP Backup and Recovery Manager HP Help and Support Center HP QuickLook (Windows Vista only) HP OpenView Radia Management Agent 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 HP Quick Launch Buttons HP Wireless Assistant Microsoft Office Ready with 60-day Office Professional 2007 Trial Edition	
Software	Stereo headphone/line out Stereo microphone in Preinstalled software with Windows Vista or	PDF Complete HP Backup and Recovery Manager HP Help and Support Center HP QuickLook (Windows Vista only) HP OpenView Radia Management Agent 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 HP Quick Launch Buttons HP Wireless Assistant Microsoft Office Ready with 60-day Office Professional 2007 Trial Edition (select models)	
Software	Stereo headphone/line out Stereo microphone in Preinstalled software with Windows Vista or	PDF Complete HP Backup and Recovery Manager HP Help and Support Center HP QuickLook (Windows Vista only) HP OpenView Radia Management Agent 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 Drive Encryption for HP ProtectTools Embedded Security for HP ProtectTools HP Quick Launch Buttons HP Wireless Assistant Microsoft Office Ready with 60-day Office Professional 2007 Trial Edition (select models) Roxio Creator 9 (for optional DVD+/-RW and DVD/CDRW drives)	
Software	Stereo headphone/line out Stereo microphone in Preinstalled software with Windows Vista or	PDF Complete HP Backup and Recovery Manager HP Help and Support Center HP QuickLook (Windows Vista only) HP OpenView Radia Management Agent 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 HP Quick Launch Buttons HP Wireless Assistant Microsoft Office Ready with 60-day Office Professional 2007 Trial Edition (select models) Roxio Creator 9 (for optional DVD+/-RW and DVD/CDRW drives) Symantec Norton Internet Security with complimentary 60-day live update	
Software	Stereo headphone/line out Stereo microphone in Preinstalled software with Windows Vista or	PDF Complete HP Backup and Recovery Manager HP Help and Support Center HP QuickLook (Windows Vista only) HP OpenView Radia Management Agent 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 Drive Encryption for HP ProtectTools Embedded Security for HP ProtectTools HP Quick Launch Buttons HP Wireless Assistant Microsoft Office Ready with 60-day Office Professional 2007 Trial Edition (select models) Roxio Creator 9 (for optional DVD+/-RW and DVD/CDRW drives)	



Standard Features			
HP Backup and Recovery Manager	provide data and syster becomes corrupted or i Manager can perform s Up to 10 GB of the har	n file protection for HP busines if important information is accio scheduled or manual backups o rd drive is reserved for the syste	anager. HP Backup and Recovery Manager can s PCs to enable fast recovery if the system dentally deleted. HP Backup and Recovery of the entire drive or individual files and folders. m recovery software. HP Backup and Recovery VDs (requires optional CD-RW or DVD+/-RW
SMBIOS Version 2.4	System Management Bl information.	IOS, previously known as DMI I	BIOS, is used to store system management
HP ProtectTools Security Manager	 ProtectTools Security M capabilities through ad BIOS Configurat Credential Mance Device Access M Drive Encryption Embedded Security 		orm for business notebooks and desktops. The HP ecurity console that delivers enhanced security es currently available are:
Security	Standard Features	HP ProtectTools Security M HP Fingerprint Sensor Configuration Control Har Memory Change Alert Ownership Tag Setup Password Power-On Password TPM 1.2 Embedded Secur TPM Enhanced DriveLock HP Disk Sanitizer HP 3D DriveGuard Kensington Lock Slot Windows Security Button (Support for Computrace / separately)	rdware ity Chip
	Optional Features	Smart Card Reader (replaces ExpressCard/54 slot)	Compatible with ISO 7816 compliant Smart Cards PC/SC interface support
	For more information of	on HP security solutions refer to	http://www.hp.com/go/security.



Standard Features			
Power Supply	External 65-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. Fast Charge does not apply to the optional HP 2700 Ultra-Slim Battery.		
Battery	Primary Battery	6-cell (44 WHr) high capacity Lithium-Ion with fuel gauge LEDs	
Battery Life	Primary Battery	Up to 5 hours and 30 minutes	
	Primary Battery and Optional HP 2700 Ultra- Slim Battery	Up to 11 hours and 45 minutes	
	NOTE: The listed battery life measurements were taken on models running Microsoft Windows XP Professional. Battery life will vary depending on the product configuration, product model, applications loaded on the product, power management settings of the product, and the product features used by the customer. As with all batteries, the maximum capacity of this battery will decrease with time and usage.		
System Standby Time	Up to 1 week		
Power Conservation	Supports enhanced Intel SpeedStep technology with Intel Core 2 Duo ULV processors (allows Battery Optimized Mode, Maximum Performance Mode, or Automatic mode)		
	Intel Display Power Saving technology Hibernation Standby ACPI compliance		
Docking (optional)	HP 2700 Ultra-Slim Expansion Base with 7mm DVD+/-RW SuperMulti Drive		
Service and Support	1-year limited warranty on	3- year, 1-year and 90-day warranty options depending on country; primary battery and digital eraser pen. On-site service and warranty upgrades Care Pack services see http://www.hp.com/go/lookuptool.	
		s and exclusions apply. Consult the HP Customer Support Center for details. com/bizsupport/TechSupport/ProductRoot.jsp.	
Select Model(s)			



0710	5	
2710p RM271UT#ABA	Processor	Intel Core 2 Duo Processor U7500 (1.06 GHz, 533 MHz, 2 MB L2 cache)
Smart Buy	Operating System	Genuine Windows Vista Business Office Ready, Microsoft OneNote
oman boy	System Memory	1024MB 667MHz DDR2 SDRAM (1 DIMM)
	Hard Drive	80-GB 4200 rpm PATA Hard Drive
	Display	12.1 inch diagonal Illumi Lite, WXGA UWVA, anti glare with Digitizer (1280 x 800), Outdoor View
	Graphics	Mobile Intel Graphics Media Accelerator X3100, up to 384 MB of shared
		memory
	Integrated Wireless	Intel PRO/Wireless 4965ABG Network Connection
	D	HP Integrated Module with Bluetooth Wireless Technology
	Battery	6-cell (44 WHr) Lithium-Ion battery
	Warranty	Limited 3 year standard parts and labor warranty
2710p	Processor	Intel Core 2 Duo Processor U7600 (1.20 GHz, 533 MHz, 2 MB L2 cache)
RM279UT#ABA	Operating System	Genuine Windows Vista Business Office Ready, Microsoft OneNote
Smart Buy	System Memory	1024-MB 667MHz DDR2 SDRAM (1 DIMM)
	Hard Drive	80-GB 4200rpm PATA Hard Drive
	Display	12.1 inch diagonal Illumi Lite, WXGA UWVA, anti glare with Digitizer (1280
		× 800)
	Graphics	Mobile Intel Graphics Media Accelerator X3100, up to 384 MB of shared
		memory
	Integrated Wireless	Intel PRO/Wireless 4965ABG Network Connection
		HP Integrated Module with Bluetooth Wireless Technology
	Broadband Wireless	HP ev2200 1xEV-DO Broadband Wireless Module (requires Verizon Wireless
		Service)
	Battery	6-cell (44 WHr) Lithium-Ion battery
	Warranty	Limited 3 year standard parts and labor warranty
2710p	Processor	Intel Core 2 Duo Processor U7600 (1.20 GHz, 533 MHz, 2 MB L2 cache)
RM280UT#ABA	Operating System	Genuine Windows Vista Business Office Ready, Microsoft OneNote
Smart Buy	System Memory	1024MB 667MHz DDR2 SDRAM (1 DIMM)
	, Hard Drive	80-GB 4200rpm PATA Hard Drive
	Display	12.1 inch diagonal Illumi Lite, WXGA UWVA, anti glare with Digitizer (1280
	Graphics	Mobile Intel Graphics Media Accelerator X3100, up to 384 MB of shared memory
	Integrated Wireless	Intel PRO/Wireless 4965ABG Network Connection
		HP Integrated Module with Bluetooth Wireless Technology
	Broadband Wireless	HP hs2300 HSDPA Broadband Wireless Module (requires AT&T Wireless Service)
	Battery	6-cell (44 WHr) Lithium-Ion battery
	, Warranty	Limited 3 year standard parts and labor warranty



Sidilidala i edioles		
2710p RM272UT#ABA Smart Buy	Processor Operating System Centrino Pro System Memory Hard Drive Display Graphics Integrated Wireless Battery Warranty	 Intel Core 2 Duo Processor U7600 (1.20 GHz, 533 MHz, 2 MB L2 cache) Genuine Windows Vista Business Office Ready, Microsoft OneNote Intel Centrino with vPro technology 2048MB 667MHz DDR2 SDRAM (2 DIMM) 100-GB 4200rpm PATA Hard Drive 12.1 inch diagonal Illumi Lite, WXGA UWVA, anti glare with Digitizer (1280 × 800), Camera Mobile Intel Graphics Media Accelerator X3100, up to 384 MB of shared memory Intel PRO/Wireless 4965ABG Network Connection HP Integrated Module with Bluetooth Wireless Technology 6-cell (44 WHr) Lithium-Ion battery Limited 3 year standard parts and labor warranty
2710p RM281UT#ABA Smart Buy	Processor Operating System Centrino Pro	Intel Core 2 Duo Processor U7600 (1.20 GHz, 533 MHz, 2 MB L2 cache) Genuine Windows Vista Business Office Ready, Microsoft OneNote Intel Centrino with vPro technology
	System Memory	2048MB 667MHz DDR2 SDRAM (1 DIMM)
	Hard Drive	80-GB 4200rpm PATA Hard Drive
	Display	12.1 inch diagonal Illumi Lite, WXGA UWVA, anti glare with Digitizer (1280 x 800), Camera and Outdoor View
	Graphics	Mobile Intel Graphics Media Accelerator X3100, up to 384 MB of shared memory
	Integrated Wireless	Intel PRO/Wireless 4965ABG Network Connection HP Integrated Module with Bluetooth Wireless Technology
	Broadband Wireless	HP ev2200 1xEV-DO Broadband Wireless Module (requires Verizon Wireless Service)
	Battery	6-cell (44 WHr) Lithium-Ion battery
	Warranty	Limited 3 year standard parts and labor warranty
2710p RM282UT#ABA Smart Buy	Processor Operating System Centrino Pro System Memory	Intel Core 2 Duo Processor U7600 (1.20 GHz, 533 MHz, 2 MB L2 cache) Genuine Windows Vista Business Office Ready, Microsoft OneNote Intel Centrino with vPro technology 2048MB 667MHz DDR2 SDRAM (2 DIMM)
	Hard Drive Display	80-GB 4200rpm PATA Hard Drive 12.1 inch diagonal Illumi Lite, WXGA UWVA, anti glare with Digitizer (1280 × 800). Camera and Outdoor View
	Graphics	x 800), Camera and Outdoor View Mobile Intel Graphics Media Accelerator X3100, up to 384 MB of shared memory
	Integrated Wireless	Intel PRO/Wireless 4965ABG Network Connection HP Integrated Module with Bluetooth Wireless Technology
	Broadband Wireless	HP hs2300 HSDPA Broadband Wireless Module (requires AT&T Wireless Service)
	Battery	6-cell (44 WHr) Lithium-Ion battery
	Dullery	



2710p Processor Intel Core 2 Duo Processor U7600 (1.20 GHz, 533 MHz, 2 MB L2 or Operating System Genuine Windows Vista Business Centrino Pro Intel Centrino with vPro technology System Memory 1024MB 667MHz DDR2 SDRAM (1 DIMM) Hard Drive 80-GB 4200rpm PATA Hard Drive Display 12.1 inch diagonal Illumi Lite, WXGA UWVA, anti glare with Digitizer × 800) Graphics Mobile Intel Graphics Media Accelerator X3100, up to 384 MB of sh memory Integrated Wireless Intel PRO/Wireless 4965ABG Network Connection HP Integrated Module with Bluetooth Wireless Technology Battery 6-cell (44 WHr) Lithium-Ion battery Warranty Limited S year standard parts and labor warranty Z710p Processor Intel Core 2 Duo Processor U7600 (1.20 GHz, 533 MHz, 2 MB L2 or Operating System Genuine Windows Vista Business Centrino Pro Intel Core 2 Duo Processor U7600 (1.20 GHz, 533 MHz, 2 MB L2 or Operating System Genuine Windows Vista Business Centrino Pro Intel Core 2 Duo Processor U7600 (1.20 GHz, 533 MHz, 2 MB L2 or Operating System Genuine Windows Vista Business Centrino Pro Intel Core 2 Duo Processor U7600 (1.20 GHz, 533 MHz, 2 MB L2 or Operating System Genuine Windows Vista Business Centrino Pro Intel Core 2 Duo Processor U7600 (1.20 GHz, 533 MHz, 2 MB L2 or Operating System Genuine Windows Vista Business Centrino Pro <th>(1280</th>	(1280
Centrino Pro Intel Centrino with vPro technology System Memory 1024MB 667MHz DDR2 SDRAM (1 DIMM) Hard Drive 80-GB 4200rpm PATA Hard Drive Display 12.1 inch diagonal Illumi Lite, WXGA UWVA, anti glare with Digitizer × 800) Graphics Mobile Intel Graphics Media Accelerator X3100, up to 384 MB of sh memory Integrated Wireless Intel PRO/Wireless 4965ABG Network Connection HP Integrated Module with Bluetooth Wireless Technology Battery 6-cell (44 WHr) Lithium-Ion battery Warranty Limited 3 year standard parts and labor warranty 2710p Processor RM283UA#ABA Operating System Gentrino Pro Intel Centrino with vPro technology System Memory 2048MB 667MHz DDR2 SDRAM (1 DIMM) Hard Drive 80-GB 4200rpm PATA Hard Drive Display 12.1 inch diagonal Illumi Lite, WXGA UWVA, anti glare with Digitizer x 800), Camera and Outdoor View Graphics Mobile Intel Graphics Media Accelerator X3100, up to 384 MB of sh memory 101 12.1 inch diagonal Illumi Lite, WXGA UWVA, anti glare with Digitizer x 800), Camera and Outdoor View Graphics Mobile Intel Graphics Media Accelerator X3100, up to 384 MB of sh memory Integrated Wireless Intel PRO/Wireless 4965ABG Network Connection HP Integrate	
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Ennied 6 year sidilating parts and labor warranty	
2710p Processor Intel Core 2 Duo Processor U7600 (1.20 GHz, 533 MHz, 2 MB L2 c	ıche)
RM284UA#ABA Operating System Genuine Windows Vista Business	
Centrino Pro Intel Centrino with vPro technology	
System Memory 2048MB 667MHz DDR2 SDRAM (1 DIMM)	
Hard Drive 80-GB 4200rpm PATA Hard Drive	
Display 12.1 inch diagonal Illumi Lite, WXGA UWVA, anti glare with Digitizer x 800), Camera and Outdoor View	(1280
Graphics Mobile Intel Graphics Media Accelerator X3100, up to 384 MB of sh memory	ared
Integrated Wireless Intel PRO/Wireless 4965ABG Network Connection	
HP Integrated Module with Bluetooth Wireless Technology	
	000
Service)	699
Battery 6-cell (44 WHr) Lithium-Ion battery	533
Warranty Limited 3 year standard parts and labor warranty	533



2710p RM273UA#ABA	Processor Operating System System Memory Hard Drive Display Graphics Integrated Wireless Battery Warranty	 Intel Core 2 Duo Processor U7600 (1.20 GHz, 533 MHz, 2 MB L2 cache) Genuine Windows Vista Business 2048MB 667MHz DDR2 SDRAM (1 DIMM) 80-GB 4200rpm PATA Hard Drive 12.1 inch diagonal Illumi Lite, WXGA UWVA, anti glare with Digitizer (1280 × 800) Mobile Intel Graphics Media Accelerator X3100, up to 384 MB of shared memory Intel PRO/Wireless 4965ABG Network Connection HP Integrated Module with Bluetooth Wireless Technology 6-cell (44 WHr) Lithium-Ion battery Limited 3 year standard parts and labor warranty
	·	
2710 p RM320UT#ABA	Processor	Intel Core 2 Duo Processor U7500 (1.06 GHz, 533 MHz, 2 MB L2 cache)
Smart Buy	Operating System	Genuine Windows XP Tablet Edition
eman boy	System Memory Hard Drive	1024MB 667MHz DDR2 SDRAM (2 DIMM) 80GB 4200rpm PATA Hard Drive
	Display	12.1 inch diagonal Illumi Lite, WXGA UWVA, anti glare with Digitizer (1280
	տորաչ	x 800), Outdoor View
	Graphics	Mobile Intel Graphics Media Accelerator X3100, up to 384 MB of shared
		memory
	Integrated Wireless	Intel PRO/Wireless 4965ABG Network Connection
		HP Integrated Module with Bluetooth Wireless Technology
	Battery	6-cell (44 WHr) Lithium-Ion battery
	Warranty	Limited 3 year standard parts and labor warranty
2710р	Processor	Intel Core 2 Duo Processor U7600 (1.20 GHz, 533 MHz, 2 MB L2 cache)
RM329UT#ABA Smart Buy	Operating System	Genuine Windows Vista Downgrade to Windows XP Tablet w/MS Office (Trial)
	System Memory	1024MB 667MHz DDR2 SDRAM (2 DIMM)
	Hard Drive	80GB 4200rpm PATA Hard Drive
	Display	12.1 inch diagonal Illumi Lite, WXGA UWVA, anti glare with Digitizer (1280 \times 800)
	Graphics	Mobile Intel Graphics Media Accelerator X3100, up to 384 MB of shared memory
	Integrated Wireless	Intel PRO/Wireless 4965ABG Network Connection
		HP Integrated Module with Bluetooth Wireless Technology
	Broadband Wireless	HP ev2200 1xEV-DO Broadband Wireless Module (requires Sprint Wireless Service)
	Battery	6-cell (44 WHr) Lithium-Ion battery
	, Warranty	Limited 3 year standard parts and labor warranty



Sidildala i edibles				
2710p Processor		Intel Core 2 Duo Processor U7600 (1.20 GHz, 533 MHz, 2 MB L2 cache)		
RM330UT#ABA	Operating System	Genuine Windows Vista Downgrade to Windows XP Tablet		
Smart Buy	Centrino Pro	Intel Centrino Pro processor technology		
	System Memory	2048MB 667MHz DDR2 SDRAM (2 DIMM)		
	Hard Drive	80GB 4200rpm PATA Hard Drive		
	Display	12.1 inch diagonal Illumi Lite, WXGA UWVA, anti glare with Digitizer (1280		
		x 800), Camera and Outdoor View		
	Graphics	Mobile Intel Graphics Media Accelerator X3100, up to 384 MB of shared memory		
	Integrated Wireless	Intel PRO/Wireless 4965ABG Network Connection		
		HP Integrated Module with Bluetooth Wireless Technology		
	Broadband Wireless	HP ev2200 1xEV-DO Broadband Wireless Module (requires Sprint Wireless Service)		
	Battery	6-cell (44 WHr) Lithium-Ion battery		
	Warranty	Limited 3 year standard parts and labor warranty		
	D			
2710 p RM331UA#ABA	Processor	Intel Core 2 Duo Processor U7600 (1.20 GHz, 533 MHz, 2 MB L2 cache)		
	Operating System	Genuine Windows Vista Downgrade to Windows XP Tablet		
	Centrino Pro	Intel Centrino Pro processor technology		
	System Memory	2048MB 667MHz DDR2 SDRAM (1 DIMM)		
	Hard Drive	80GB 4200rpm PATA Hard Drive		
	Display	12.1 inch diagonal Illumi Lite, WXGA UWVA, anti glare with Digitizer (1280 x 800), Camera and Outdoor View		
	Graphics	Mobile Intel Graphics Media Accelerator X3100, up to 384 MB of shared memory		
	Integrated Wireless	Intel PRO/Wireless 4965ABG Network Connection		
		HP Integrated Module with Bluetooth Wireless Technology		
	Broadband Wireless	HP ev2200 1xEV-DO Broadband Wireless Module (requires Sprint Wireless Service)		
	Battery	6-cell (44 WHr) Lithium-Ion battery		
	Warranty	Limited 3 year standard parts and labor warranty		
2710p	Processor	Intel Core 2 Duo Processor U7600 (1.20 GHz, 533 MHz, 2 MB L2 cache)		
KR903UT#ABA Smart Buy	Operating System	Genuine Windows Vista Downgrade to Windows XP Tablet w/MS Office (Trial)		
1	System Memory	2048MB 667MHz DDR2 SDRAM (2 DIMM)		
	Hard Drive	80GB 4200rpm PATA Hard Drive		
	Display	12.1 inch diagonal Illumi Lite, WXGA UWVA, anti glare with Digitizer (1280		
	Display	\times 800)		
	Graphics	Mobile Intel Graphics Media Accelerator X3100, up to 384 MB of shared		
	Integrated Wireless	memory Intel PRO/Wireless 4965ABG Network Connection		
	Integrated Wireless			
	Dattan	HP Integrated Module with Bluetooth Wireless Technology		
	Battery	6-cell (44 WHr) Lithium-Ion battery		
	Warranty	Limited 3 year standard parts and labor warranty		



2710p	Processor	Intel Core 2 Duo Processor U7600 (1.20 GHz, 533 MHz, 2 MB L2 cache)
KR904UT#ABA Smart Buy	Operating System	Genuine Windows Vista Downgrade to Windows XP Tablet w/MS Office (Trial)
	System Memory	2048MB 667MHz DDR2 SDRAM (2 DIMM)
	Hard Drive	80GB 4200rpm PATA Hard Drive
	Display	12.1 inch diagonal Illumi Lite, WXGA UWVA, anti glare with Digitizer (1280 x 800), Outdoor View
	Graphics	Mobile Intel Graphics Media Accelerator X3100, up to 384 MB of shared memory
	Integrated Wireless	Intel PRO/Wireless 4965ABG Network Connection
		HP Integrated Module with Bluetooth Wireless Technology
	Battery	6-cell (44 WHr) Lithium-Ion battery
	Warranty	Limited 3 year standard parts and labor warranty
2710p	Processor	Intel Core 2 Duo Processor U7600 (1.20 GHz, 533 MHz, 2 MB L2 cache)
KR917UT#ABA Smart Buy	Operating System	Genuine Windows Vista Downgrade to Windows XP Tablet w/MS Office (Trial)
	System Memory	1024MB 667MHz DDR2 SDRAM (1 DIMM)
	Hard Drive	80GB 4200rpm PATA Hard Drive
	Display	12.1 inch diagonal Illumi Lite, WXGA UWVA, anti glare with Digitizer (1280 \times 800)
	Graphics	Mobile Intel Graphics Media Accelerator X3100, up to 384 MB of shared memory
	Integrated Wireless	Intel PRO/Wireless 4965ABG Network Connection
		HP Integrated Module with Bluetooth Wireless Technology
	Battery	6-cell (44 WHr) Lithium-Ion battery
	Warranty	Limited 3 year standard parts and labor warranty
2710p	Processor	Intel Core 2 Duo Processor U7700 (1.33 GHz, 533 MHz, 2 MB L2 cache)
KR920UT#ABA Smart Buy	Operating System	Genuine Windows Vista Downgrade to Windows XP Tablet w/MS Office (Trial)
	Centrino Pro	Intel Centrino Pro processor technology
	System Memory	2048MB 667MHz DDR2 SDRAM (2 DIMM)
	Hard Drive	64GB Solid State Hard Drive
	Display	12.1 inch diagonal Illumi Lite, WXGA UWVA, anti glare with Digitizer (1280 \times 800)
	Graphics	Mobile Intel Graphics Media Accelerator X3100, up to 384 MB of shared memory
	Integrated Wireless	Intel PRO/Wireless 4965ABGN Network Connection
		HP Integrated Module with Bluetooth Wireless Technology
	Battery	6-cell (44 WHr) Lithium-Ion battery
	Warranty	Limited 3 year standard parts and labor warranty



2710p KU914AW#ABA	Processor	Intel Core 2 Duo Processor U7700 (1.33 GHz, 533 MHz, 2 MB L2 cache)
KU7T4AVV#ADA	Operating System	Genuine Windows Vista Business
	Centrino Pro	Intel Centrino Pro processor technology
	System Memory	2048MB 667MHz DDR2 SDRAM (1 DIMM)
Hard Drive		120GB 4200rpm PATA Hard Drive
	Display	12.1 inch diagonal Illumi Lite, WXGA UWVA, anti glare with Digitizer (1280 $ imes$ 800)
	Graphics	Mobile Intel Graphics Media Accelerator X3100, up to 384 MB of shared memory
	Integrated Wireless	Intel PRO/Wireless 4965ABG Network Connection
	-	HP Integrated Module with Bluetooth Wireless Technology
	Battery	6-cell (44 WHr) Lithium-Ion battery
	Warranty	Limited 3 year standard parts and labor warranty
2710p	Processor	Intel Core 2 Duo Processor U7500 (1.06 GHz, 533 MHz, 2 MB L2 cache)
KR926UA#ABA	Operating System	Genuine Windows Vista Downgrade to Windows XP Tablet w/MS Office (Trial)
	System Memory	1024MB 667MHz DDR2 SDRAM (2 DIMM)
	, Hard Drive	120GB 5400rpm PATA Hard Drive
	Display	12.1 inch diagonal Illumi Lite, WXGA UWVA, anti glare with Digitizer (1280 $ imes$ 800)
	Graphics	Mobile Intel Graphics Media Accelerator X3100, up to 384 MB of shared memory
	Integrated Wireless	Intel PRO/Wireless 4965ABG Network Connection
	Ū	HP Integrated Module with Bluetooth Wireless Technology
	Battery	6-cell (44 WHr) Lithium-Ion battery
	Warranty	Limited 3 year standard parts and labor warranty
2710p	Processor	Intel Core 2 Duo Processor U7700 (1.33 GHz, 533 MHz, 2 MB L2 cache)
KR924UA#ABA	Operating System	Genuine Windows Vista Downgrade to Windows XP Tablet w/MS Office (Trial)
	System Memory	1024MB 667MHz DDR2 SDRAM (2 DIMM)
	, Hard Drive	120GB 5400 rpm PATA Hard Drive
	Display	12.1 inch diagonal Illumi Lite, WXGA UWVA, anti glare with Digitizer (1280 $ imes$ 800), Camera
	Graphics	Mobile Intel Graphics Media Accelerator X3100, up to 384 MB of shared memory
	Integrated Wireless	Intel PRO/Wireless 4965ABG Network Connection
	Battery	6-cell (44 WHr) Lithium-Ion battery
	, Warranty	Limited 3 year standard parts and labor warranty



2710p	Processor	Intel Core 2 Duo Processor U7700 (1.33 GHz, 533 MHz, 2 MB L2 cache)
KR933UT#ABA Smart Buy	Operating System	Genuine Windows Vista Downgrade to Windows XP Tablet w/MS Office (Trial)
	Centrino Pro	Intel Centrino Pro processor technology
	System Memory	2048MB 667MHz DDR2 SDRAM (2 DIMM)
	Hard Drive	120GB 5400rpm PATA Hard Drive
	Display	12.1 inch diagonal Illumi Lite, WXGA UWVA, anti glare with Digitizer (1280 \times 800), Camera
	Graphics	Mobile Intel Graphics Media Accelerator X3100, up to 384 MB of shared memory
	Integrated Wireless	Intel PRO/Wireless 4965ABGN Network Connection
		HP Integrated Module with Bluetooth Wireless Technology
	Battery	6-cell (44 WHr) Lithium-Ion battery
	Warranty	Limited 3 year standard parts and labor warranty
2710p	Processor	Intel Core 2 Duo Processor U7700 (1.33 GHz, 533 MHz, 2 MB L2 cache)
KR934UA#ABA	Operating System	Genuine Windows Vista Downgrade to Windows XP Tablet (note)
	Centrino Pro	Intel Centrino Pro processor technology
	System Memory	2048MB 667MHz DDR2 SDRAM (1 DIMM)
	Hard Drive	120GB 5400rpm PATA Hard Drive
	Display	12.1 inch diagonal Illumi Lite, WXGA UWVA, anti glare with Digitizer (1280 $ imes$ 800)
	Graphics	Mobile Intel Graphics Media Accelerator X3100, up to 384 MB of shared memory
	Integrated Wireless	Intel PRO/Wireless 4965ABGN Network Connection
	-	HP Integrated Module with Bluetooth Wireless Technology
	Battery	6-cell (44 WHr) Lithium-Ion battery
	Warranty	Limited 3 year standard parts and labor warranty
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Options

Memory	HP 512-MB (DDR2 667 MHz) SODIMM	EM993AA
	HP 1-GB (DDR2 667 MHz) SODIMM	EM994AA
	HP 2-GB (DDR2 667 MHz) SODIMM	EM995AA
MultiBay II Storage	HP MultiBay II DVD-ROM Drive	PA849A
(9.5-mm)	HP MultiBay II DVD/CD-RW Combo Drive	PA850A
NOTE: Requires HP	HP MultiBay II DVD+/-RW SuperMulti DL Drive	PA851A
External MultiBay II	HP 80-GB 5400rpm MultiBay II Hard Drive	PH357A
Other Storage	HP Notebooks USB Diskette Drive	DC361B
Communications	Intel Wireless WiFi Link 4965AGN option kit	RT081AA#ABA
	HP ev2210 1xEVDO-A Broadband Wireless Module (Verizon)	GM763AA#ABA
	HP ev2210 1xEVDO-A Broadband Wireless Module (Sprint)	GM764AA#ABA
	HP hs2300 HSDPA Broadband Wireless Module (AT&T)	GG589AA#ABA
Expansion Solutions	HP 2700 Ultra-Slim Expansion Base with 7mm DVD+/-RW SuperMulti Drive	GD229AA#ABA
	HP External MultiBay II	PA509A#ABA
Power	HP 2700 Ultra-Slim Battery	RX932AA
	HP 65W Smart AC Adapter	ED494AA#ABA
	HP 90W Smart Auto Adapter	ED493AA
	HP 65W AC/Auto/Air Combo Smart Adapter	ED993AA#ABA
	HP 6-Cell Li-Ion Primary Battery	AH547AA
Carrying Cases	HP Value Nylon Case	RR314AA
	HP Universal Nylon Case	RR315AA
	HP Executive Leather Case	RR316AA
	HP Deluxe Nylon Backpack	RR317AA
	HP Universal Messenger Bag	GD404AA
	HP Deluxe Roller Case	GD405AA
Security	HP ProtectTools Java Card – 10 units	EL348AA
	HP/Kensington MicroSaver Security Lock	PC766A



Options

Input/Output Devices

HP Tablet PC Tether/Eraser Pen HP USB Keyboard & Mouse Bundle HP USB/PS2 Optical 2-Button Scroll Mouse HP USB Optical Travel Mouse PL800A RC465AA#ABA DC369A RH304AA



Memory

667-MHz* DDR2 SDRAM Two DIMM slots supporting dual channel memory DIMM sizes supported: 512 MB, 1024 MB, 2048 MB

Standard Memory

- 1024 MB (1024 MB x 1 or 512 MB x 2)
- 2048 MB (2048 MB x 1 or 1024 MB x 2)
- 4096 MB (2048 MB x 2)

Optional Memory Upgrades

Support for up to 4096 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
1024 MB	512 MB	512 MB
1536 MB	1024 MB	512 MB
2048 MB	1024 MB	1024 MB
4096 MB	2048 MB	2048 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. Above 3-GB, all memory may not be available due to system resource requirements.

Memory Upgrades	HP 512-MB (DDR2 667 MHz) SODIMM	EM993AA
	HP 1024-MB (DDR2 667 MHz) SODIMM*	EM994AA
	HP 2048-MB (DDR2 667 MHz) SODIMM*	EM995AA
* • •		

* System runs at a maximum of 533-MHz.



Storage

Internal Storage Device

U		
Hard Drives (1.8" SMART PATA)	Quantity Supported	Drive Bay
80-GB 4200 rpm	One	Dedicated hard drive bay
100-GB 4200 rpm	One	Dedicated hard drive bay
120-GB 4200 rpm	One	Dedicated hard drive bay
120-GB 5400 rpm	One	Dedicated hard drive bay
Solid State Drive		
64-GB Solid State Drive	One	Dedicated hard drive bay

Optical Drive Support

External Optical Drives

7mm DVD+/-RW SuperMulti Drive MultiBay II DVD-ROM Drive MultiBay II DVD/CD-RW Combo Drive MultiBay II DVD+/-RW SuperMulti DL Drive

Quantity Supported One One

Optional Expansion Unit HP 2700 Ultra-Slim Expansion Base HP External MultiBay II

HP Compaq 2710p Notebook PC



Technical Specifications

System Unit

Dimensions (HxWxD)	1.11 in (at front) x 11.42 i 28.2 mm (at front) x 290 r	
Weight	Starting from 3.7 lb (1.68	kg)
	rd drive, 512-MB memory, 8	otebook the measurement is made. Starting weight 302.11 wireless communications module. Weight
Stand-Alone Power Requirements	Nominal Operating Voltage	18.5 V
(AC Power)	Average Operating Power	- 12.5 W
	Max Operating Power	< 65 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 [®] 4.0	Yes
	EPEAT	Gold
	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 65W Smart AC Adapter	Dimensions Weight	4.17 x 1.85 x 1.1 in (10.6 x 4.7 x 2.8 cm) 0.62 lb (280 g)		
	Input	100 to 240 VAC		
		Input Efficiency	83% min at 115 VAC	
		Input frequency range	47 to 63 Hz	
		Input AC current	1.7 A at 90 VAC, 0.85 A at 180 VAC	
	Output	Output power 65W	65W	
		DC output	18.5V	
		Hold-up time	5 msec at 115 VAC input	
		Output current limit	<11A, Over voltage protection- 29V max automatic shutdown	
	Connector	3 pin/grounded, mates with interchangeable cords		
	Environmental Design	Operating temperature	32° to 104° F (0° to 40° 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	CE Mark – full compliance with LVD and EMC directives; Worldwide safety standards – IEC60950, EN60950, UL60950, Class1, SELV; Agency approvals – C-UL-US, NORDICS, DENAN, EN55022 Class B, FCC Class CISPR22 Class B, CCC, NOM-1 NYCE; MTBF – over 200,000 hours at 25°C ambient condition.		
Optional HP 2700 Ultra-	Dimensions (H \times W \times L)	0.7 x 7.5 x 10.6 in (1.8 x	19.1 x 26.9 cm)	
Slim Battery	Weight	1.24 lb (0.561 kg)		
	Cells/Type	6-cell Lithium-Ion		
	Energy	Watt-hour Capacity	46Wh	
	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)	
	Fuel Gauge	When pressed LEDs light	indicating level of charge remaining on battery	



Technical Specification	ons			
6-Cell (44WHr) Lithium- Ion battery	Dimensions (H x W x L) Weight Cells/Type	0.6 x 2.7 x 8.3 in (1.4 x 6 0.64 lb (0.291 kg) 6-cell Lithium-Ion	5.8 x 21.1 cm)	
	Energy	Watt-hour Capacity	44Wh	
	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	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	
12.1-inch Illumi-Lite	Active Area ($W \times H$)	10.3 x 6.4 in (26.1 x 16.3	3 cm)	
WXGA UWVA, anti-glare	Diagonal Size	12.1 in (30.7 cm)		
with Digitizer	Surface Treatment	Anti-glare		
	Contrast Ratio	300:1 (typical)		
	Refresh Rate	60 Hz		
	Brightness	200 nit (typical)		
	Pixel Resolution	Pitch	0.204 mm	
		Format	1280 x 800	
		Configuration	RGB Stripe	
	Backlight	LED		
	PPI	125		
	Viewing Angle	±80° Horizontal, ±80° V	'ertical (typical)	
12.1-inch Illumi-Lite	Active Area (W x H)	10.3 x 6.4 in (26.1 x 16.3	3 cm)	
WXGA UWVA. anti-glare	Diagonal Size	12.1 in (30.7 cm)		
with Digitizer and Outdoor View	Surface Treatment	Anti-glare		
	Contrast Ratio	300:1 (typical)		
	Refresh Rate	60 Hz		
	Brightness	200 nit (typical)		
	Pixel Resolution	Pitch	0.204 mm	
		Format	1280 x 800	
		Configuration	RGB Stripe	
	Backlight	LED		
	PPI	125		
	Viewing Angle	$\pm 80^{\circ}$ Horizontal, $\pm 80^{\circ}$ V	'ertical (typical)	





Technical Specifications

Hard Drives

120-GB 5400 rpm	Drive Weight	0.13 lb (59 g)		
1.8" PATA	Capacity	120 GB		
	Height	0.31 in (8 mm)		
	Width	2.12 in (54 mm)		
	Interface	ATA-6		
	Transfer Rate	Synchronous (maximum)	100 MB/s (Drive Capability)	
	Seek Time	Single Track	3 ms	
	(typical reads, including	Average	15 ms	
	settling)	Maximum	26 ms	
	Rotational Speed	5400 rpm		
	Logical Blocks	234,441,648		
	Operating Temperature	41° to 140° F (5° to 60° C) [case temp]		
	Features	ATA Security		
120-GB 4200 rpm	Drive Weight	0.13 lb (59 g)		
1.8" PATA	Capacity	120 GB		
	Height	0.31 in (8 mm)		
	Width	2.12 in (54 mm)		
	Interface	ATA-6		
	Transfer Rate	Synchronous (maximum)	100 MB/s (Drive Capability)	
	Seek Time	Single Track	3 ms	
	(typical reads, including	Average	15 ms	
	settling)	Maximum	26 ms	
	Rotational Speed	4200 rpm		
	Logical Blocks	234,441,648		
	Operating Temperature	41° to 140° F (5° to 60° C) [case temp]		
	Features	ATA Security		



Technical Specifications

100-GB 4200 rpm	Drive Weight	0.13 lb (59 g)	
1.8″ PATA	Capacity	100 GB	
	Height	0.31 in (8 mm)	
	Width	2.12 in (54 mm)	
	Interface	ATA-6	
	Transfer Rate	Synchronous (maximum)	100 MB/s (Drive Capability)
	Seek Time	Single Track	3 ms
	(typical reads, including	Average	15 ms
	settling)	Maximum	26 ms
	Rotational Speed	4200 rpm	
	Logical Blocks	195,371,568	
	Operating Temperature	41° to 140° F (5° to 60° C) [case temp]	
	Features	ATA Security	
80-GB 4200 rpm	Drive Weight	0.13 lb (59 g)	
1.8″ PATA	Capacity	80 GB	
	Height	0.31 in (8 mm)	
	Width	2.12 in (54 mm)	
	Interface	ATA-6	
	Transfer Rate	Synchronous (maximum)	100 MB/s (Drive Capability)
	Seek Time	Single Track	3 ms
	(typical reads, including	Average	15 ms
	settling)	Maximum	26 ms
	Rotational Speed	4200 rpm	
	Logical Blocks	156,301,488	
	Operating Temperature	41° to 140° F (5° to 60° C	C) [case temp]
	Features	ATA Security	

Solid State Drive



Technical Specifications

64-GB 1.8" PATA	Drive Weight	0.13 lb (59 g)
	Capacity	64 GB
	Height	0.31 in (8 mm)
	Width	2.12 in (54 mm)
	Interface	ATA-5
	Transfer Rate	Synchronous (maximum) 66 MB/s (Drive Capability)
	Access Time	0.11 ms
	Logical Blocks	125,045,424
	Operating Temperature	0 $^{\circ}$ to 158 $^{\circ}$ F (0 $^{\circ}$ to 70 $^{\circ}$ C) [case temp]
	Features	ATA Security

7mm Optical Drive – Integrated in HP 2700 Ultra-Slim Expansion Base

DVD+/-RW SuperMulti Drive	Dimensions Weight	
	Access Times	Random
	Max Data Transfer Rate	24X CD-ROM
		8X DVD
		24X CD-R
		10X CD-RW
		4X DVD+R
		2.4X DVD+RW
		4X DVD-R
		2X DVD-RW
		2X DVD-RAM
	Transfer Mode	
	Interface	
	Supported Media (read)	
	Supported Media (write)	
	Max Media Capacity (read)	
	Max Media Capacity (write)	
	Transport	
	•	

Optical Drives – MultiBay II



DVD-ROM Drive	Dimensions Weight	0.37 x 5.51 x 5.04 in (0.9 0.34 lb (155 g)	95 x 14.0 x 12.8 cm)	
	Access Times	Random	<120 ms CD	
			<200 ms DVD	
	Max Data Transfer Rate	24X-CD-ROM	3,600 KB/s	
		8X-DVD	10,800 KB/s	
	Transfer Mode	Multiword DMA Mode 2		
	Interface	EIDE		
	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		
	Supported Media (write)	None		
	Max Media Capacity (read)	8.5 GB		
	Transport	Tray Loading		
DVD/CD-RW Combo	Dimensions	0.37 x 5.51 x 5.04 in (0.9	95 x 14 0 x 12 8 cm)	
Drive	Weight	0.45 lb (205 g)		
	Access Times	Random	<120 ms CD	
			<155 ms DVD	
	Max Data Transfer Rate	24X CD-ROM	3,600 KB/s	
		8X DVD	10,800 KB/s	
		24X CD-R	3,600 KB/s	
		24X CD-RW	3,600 KB/s	
	Transfer Mode	Multiword DMA Mode 2		
	Interface	EIDE		
	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		
	Supported Media (write)			
	Max Media Capacity (read)	8.5 GB		
	Max Media Capacity (write)	700 MB		
	Transport	Tray loading		



Technical Specificati	ons			
DVD+/-RW SuperMulti	Dimensions	0.37 x 5.51 x 5.04 in (0.95 x 14.0 x 12.8 cm)		
DL Drive	Weight	0.45 lb (205 g)		
	Access Times	Random	<150 ms CD	
			<125 ms DVD	
	Max Data Transfer Rate	24X CD-ROM	3,600 KB/s	
		8X DVD	10,800 KB/s	
		24X CD-R	3,600 KB/s	
		10X CD-RW	1,500 KB/s	
		4X DVD+R	5,400 KB/s	
		2.4X DVD+RW	3,240 KB/s	
		4X DVD-R	5,400 KB/s	
		2X DVD-RW	2,700 KB/s	
		2X DVD-RAM	2,700 KB/s	
	Transfer Mode	Multiword DMA Mode 2		
	Interface	EIDE		
	Supported Media (read)	MODE CD, CD-I, CD-I B (Photo-CD, CD-EXTRA, Po	AIDI, CD-TEXT, CD-ROM, CD-ROM XA, MIXED ridge (Photo-CD, Video CD), Multisession CD ortfolio, CD-R, CD-RW), CD-R, CD-RW, DVD- VD-10, DVD-18), DVD-R, DVD-RW, DVD+R,	
	Supported Media (write)	CD-R, CD-RW, DVD+R, DVD+RW, DVD-R, DVD-RW, DVD-RAM		
	Max Media Capacity (read)	8.5 GB		
	Max Media Capacity (write)	8.5 GB		
	Transport	Tray Loading		
80-GB 5400 rpm MultiBay II Hard Drive	MultiBay II Drive Adapter	Dimensions (H x W x D) Weight	0.37 x 5.51 x 5.04 in (0.95 x 14.0 x 12.8 cm) 0.16 lb (72 g)	
	Drive Weight	0.22 lb (101 g)		
	Capacity	80 GB		
	Height	0.37 in (9.5 mm)		
	Width	2.75 in (70 mm)		
	Interface	ATA-6		
	Transfer Rate	Synchronous (maximum)	100 MB/s (Drive Capability)	
	Seek Time	Single Track	3 ms	
	(typical reads, including settling)	Average	13 ms	
	seming	Maximum	24 ms	
	Rotational Speed	5400 rpm		
	Logical Blocks	156,301,488		
	Operating Temperature	41° to 131° F (5° to 55° (C)	
	Features	ATA Security		



Technical Specifications

Security

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	ADI1981HD High Definition CODEC		
Hardware	Implementation Touch-Sensitive Volume Controls	ADI1981HD High Definition CODEC Volume up, volume down, and mute		
Hardware	Touch-Sensitive Volume	-		
Hardware	Touch-Sensitive Volume Controls	Volume up, volume down, and mute		
Hardware	Touch-Sensitive Volume Controls Full Duplex Sound Blaster Pro	Volume up, volume down, and mute Yes		
Hardware	Touch-Sensitive Volume Controls Full Duplex Sound Blaster Pro compatible	Volume up, volume down, and mute Yes Yes		
Hardware	Touch-Sensitive Volume Controls Full Duplex Sound Blaster Pro compatible Microphone In	Volume up, volume down, and mute Yes Yes Stereo		

Communications



Technical Specificat	ions		
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) 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 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	
	NIC Device Driver Name	Intel 82566MM Gigabit Network Connection	
	Drivers Available	Microsoft Windows Vista Microsoft Windows XP	
V.92 56K Data/Fax	Form Factor	MDC 1.5 Daughtercard	
Modem	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.32 V.32bis V.32	
		V.23	
		V.22bis	



	Fax Mode Capabilities Command Set	V.22 V.21 Bell 212A Bell 103J TIA/EIA-578-B (Class 1) T.30, T.4 (Group 3) V.17 V.29 V.27ter V.21 Channel 2 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 ev2210 1xEVDO-A Broadband	Band and Power Class	0 (North American Cellular) – Class III; 1 (North American PCS) – Class II
Wireless Module	Wireless Protocol Standards	CDMA 1x Release A; IS-95A, IS-95B, IS-2000
	Wireless Parametric Standards	Meets or exceeds TIA/EIA IS-98-D
	Interoperability	CDG 22 (TIA/EIA/IS-95-A) CDG 53(TIA/EIA/IS-95-B) C.S0031 (TIA/EIA/IS-2000) CDG 64 (TIA/EIA/IS-2000) C.S0032 (TIA/EIA/IS-866)
	Frequency Band	Dual Band: 800 MHz (Cellular) and 1900 MHz (PCS)
	Data Rates (Packet Mode)	IS-856 rates up to 3.1 Mbps IS-2000 data rates up to 1.8 Mbps
	Maximum Output Power	24dBm (+/-1)
	Power Consumption (maximum)	500mA
	Power Consumption, Sleep Mode	1.7mA – 3.5mA
	Power Management	USB selective suspend CDMA slotted mode sleep and dormant modes
	Antenna Type	High efficiency dual band antennae with spatial diversity, mounted in the display enclosure
	Form Factor	PCI-Express MiniCard
	Weight	0.35 oz (10 g)
	Dimensions (Length x Width x Thickness)	2.01 x 1.18 x 0.18 in (51 x 30 x 4.5 mm)
 •	Voltage, Operating	3.3v +/- 10%



	Temperature, Operating (from TIA/EIA/IS-98-D) Temperature, Non- operating, 96 hours (from MIL-STD 202 Method 108) Humidity, Non-operating Configuration Utilities LED Activity	 -22° to 140° F (-30° to 60° C) (full RF performance) -22° to 167° F (-30° to 75° C) (reduced RF performance) -40° to 185° F (-40° to 85° C) 85% relative humidity for 48 hours @ 185° F (85° C) (non-condensing) Sprint Mobile Broadband Software or Verizon Wireless VZAccess Manager LED Off – Radio Off; Solid LED On – Radio On
HP hs2300 HSDPA Broadband Wireless Module	Frequency Bands and Power Class	850/1900/2100MHz WCDMA Power class 3 (+24dBm) 850MHz GSM/GPRS/EDGE 900MHz GSM/GPRS/EDGE, 1800MHz GSM/GPRS/EDGE 1900MHz GSM/GPRS/EDGE EDGE E2 power GPRS/EDGE Multislot Class 12 GPRS PCS/DCS power class 1 GSM power class 4
	Wireless Protocol Standards	GPRS/EDGE: 3GPP R99 GERAN P1 WCDMA Release 5 (R5) High-Speed Downlink Packet Access (HSDPA) 3.6Mbps GSM Phase 2+
	Wireless Parametric Standards	Complies with 3GPP specifications
	Additional Standards Compliance	FCC parts 15/22/24, CE, Microsoft WHQL, R&TTE directive 1999/5/EC (health, safety, EMC, spectrum), GCF-CC (Module), European Union Directive 2002/95/EC (restrictions of the use of certain Hazardous Substances (RoHS) in electronic equipment), Infrastructure Interoperability Testing (IOT)
	Data Rates (Packet Mode)	Designed maximum data rate: EDGE 118 kbps UL / 236 kbps DL UMTS 384 kbps UL / 384 kbps DL HSDPA 384 kbps UL / 3.6 Mbps DL
	Chipset and Module	Qualcomm MSM6280 chipset; Sierra Wireless MC8775 module
	Maximum Output Power	32 dBm (+/-2) GSM/EDGE GMSK mode
	Power Consumption (maximum)	800mA
	Power Consumption, Sleep Mode	4 – 8mA
	Power Management	USB Selective Suspend sleep and standby mode
	Antenna Type	High efficiency 5- band antennae, mounted in the display enclosure
	Form Factor	PCI-Express MiniCard
~ /~~°	Weight	0.35 oz (10 g)



HP Compaq 2710p Notebook PC

-		
	Dimensions (Length x Width x Thickness)	2.01 x 1.18 x 0.18 in (51 x 30 x 4.5 mm)
	Voltage, Operating	3.3v +/- 10%
	Temperature, Operating	–22° to 140° F (–30° to 60° C) (full RF performance) –22° to 167° F (–30° to 75° C) (reduced RF performance)
	Temperature, Non- operating, 96 hours (from MIL-STD 202 Method 108)	–40° to 185° F (–40° to 85° C)
	Humidity, Non-operating	85% relative humidity for 48 hours @ 185° F (85° C) (non-condensing)
	LED Activity	LED Off – Radio Off; Solid LED On – Radio On
	Configuration Utilities	Varies per country and mobile network operator
Intel Wireless WiFi Link 4965AG	Wireless LAN Standards	IEEE 802.11a IEEE 802.11b IEEE 802.11g
	Interoperability	Wi-Fi certified Cisco Compatible Extensions Program compliant with Microsoft Windows 2000 and XP (details at 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
	Modulation	Direct Sequence Spread Spectrum DBPSK, DQPSK, CCK, OFDM
	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 2000 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 Models	Ad-hoc (Peer to Peer) Infrastructure (Access Point Required)
	Roaming	IEEE 802.11 compliant roaming between access points
	Output Power (for CKK) ²	15 dBm
	Output Power (for OFDM; power varies by data rate) ²	15 dBm
	Power Consumption	Transmit: 1.6 Watts (average) Receive: 1.1 Watts (average) Idle mode ³ : 30 mW (average) Radio off: 20 mW (max)



Technical Specifications

Power Management	ACPI compliant power management 802.11 compliant power saving mode		
Receiver Sensitivity ⁴	54 Mbps: -74 dBm, 6 Mbps: -90 dBm		
Antenna Connections	2 U.FL type connectors, 50 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 (4.7	′5 x 29.85 x 50.8 mm)	
Operating Voltage	3.3V +/- 9%, 1.5V +/-		
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 200 Choice of Configur		
		ws XP Wireless Network Connection Manager Microsoft Windows 2000 or XP (required for Cisco nsions support)	
	Microsoft Windows Viste	c	
	Microsoft Windov	ws Vista Wireless Network Connection Manager	
LED Activity	LED Off – Radio OFF; S	Solid LED On – Radio ON	
2. Maximum output p	ower may vary by country	tes on supported security features. according to local regulations.	
4. Receiver sensitivity	ing mode and on battery p is measured at a packet e f 10% for 802.11a/g (OF	rror rate of 8% for 802.11b (CKK modulation) and a	
5. WLAN supplier's cl	ient utility is required for C	isco Compatible Extensions support with Microsoft Impatible with certain third-party software supplicants	

Intel Wireless WiFi	Link
4965AGN	

Wireless LAN Standards

IEEE 802.11a IEEE 802.11b IEEE 802.11g IEEE 802.11n (draft 1.02)



Technical Specifications	5		
In	·	Microsoft Windows 2000 a http://www.hp.com/go/not Tested with wireless access	ns Program compliant (802.11abg only) with Ind XP (details at
Fr	requency Band	2.4 GHz and 5 GHz	
D		depending on the combina	
Μ		Direct Sequence Spread Sp DBPSK, DQPSK, CCK, OFI	ectrum DM, BPSK, QPSK, 16-QAM, 64-QAM
Se		(support for key sizes of 12	WEP, WPA, WPA2, hardware-accelerated AES 8, 192, and 256 bits), 802.1x authentication EAP-GTC, PEAP-MSCHAPv2, LEAP, EAP-FAST.
			Features (proven compatibility with Cisco Aironet ugh the Cisco Compatible Extensions Program /indows 2000 and XP only.
Su		Multinational support with f regulations.	frequency bands and channels compliant to local
Μ	ledia Access Protocol	CSMA/CA (Collision Avoid	ance) with ACK
		Ad-hoc (Peer to Peer) Infrastructure (Access Point	Required)
Ro	oaming	IEEE 802.11 compliant roa	iming between access points
C	Dutput Power (for CKK) ²		
po	Dutput Power (for OFDM; ower varies by data ite) ²		
Po			
Po	•		
Re	eceiver Sensitivity ⁴	300 Mbps: -68 dBm, 54 N	1bps: -74 dBm, 6 Mbps: -90 dBm
A	ntenna Connections	3 U.FL type connectors, 50 ohm nominal impedance	
Ro	ange	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
Fo	orm Factor	PCI-Express MiniCard	
W	/eight	0.013 lb (6 g)	



Dimensions	0.19 x 1.2 x 2.0 in (4	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 2 Choice of Config		
	 Intel PROSet for 	dows XP Wireless Network Connection Manager or Microsoft Windows 2000 or XP (required for Cisco tensions support)	
	Microsoft Windows V	ista	
	Microsoft Wind	dows Vista Wireless Network Connection Manager	
LED Activity	LED Off – Radio OFF	; Solid LED On – Radio ON	
 Maximum output In Power Save Pol Receiver sensitivity packet error rate of WLAN supplier's of 	power may vary by coun ing mode and on batter is measured at a packe of 10% for 802.11a/g (C lient utility is required for	t error rate of 8% for 802.11b (CKK modulation) and a	

Broadcom 4311AG 802.11a/b/g WiFi Adapter	Wireless LAN Standards	IEEE 802.11a IEEE 802.11b IEEE 802.11g
	Interoperability	Wi-Fi certified Cisco Compatible Extensions Program compliant with Microsoft Windows 2000 and XP (details at 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
	Modulation	Direct Sequence Spread Spectrum DBPSK, DQPSK, CCK, OFDM
	Security ¹	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).
	Sub-channels	Multinational support with frequency bands and channels compliant to local regulations.
 °	Media Access Protocol	CSMA/CA (Collision Avoidance) with ACK



Technical Specifications

Network Architecture	Ad-hoc (Peer to Peer)		
Models	Infrastructure (Access Point Required)		
Roaming	IEEE 802.11 compliant roaming between access points		
Output Power (for CKK) ²	17.5 dBm		
Output Power (for OFDM power varies by data rate) ²	; 15 dBm		
Power Consumption	Transmit: 2.0 W (max) Receive: 1.5 W (max) Idle mode ³ : 390 mW (nominal) Sleep mode: 20 mW (max)		
Power Management	ACPI compliant power management 802.11 compliant power saving mode		
Receiver Sensitivity ⁴	54 Mbps: -72 dBm, 11 M	bps: -88 dBm , 1 Mbps: -97 dBm	
Antenna type	High efficiency dual band antenna with spatial diversity, mounted in the display enclosure		
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	0.026 lb (12 g)		
Dimensions	0.19 x 1.2 x 2.0 in (4.75 x 29.85 x 50.8 mm)		
Operating Voltage	3.3v +/- 10%		
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 95% (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 2000 or XP Choice of Configuration Utility:		
	 Microsoft Windows XP Wireless Network Connection Manager Broadcom Wireless Configuration Utility (required for Cisco Compatible Extensions support) 		
	Microsoft Windows Vista		
	Microsoft Windows	Vista Wireless Network Connection Manager	

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.
- 4. Receiver sensitivity is measured at a packet error rate of 8% for 802.11b (CKK modulation) and a



Technical Specifications

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 2000 or XP. WLAN may also be compatible with certain third-party software supplicants.

HP Integrated Module	Bluetooth Specification	2.0 Compliant		
with Bluetooth Wireless Technology	Dimensions	1.02 x 0.55 x 0.22 in (26 x 14 x 5.7 mm)		
	Frequency Band	2402 to 2480 MHz		
	Number of Available	79 (1 MHz) available cha	nnels	
	Channels			
	Data Rates and	3 Mbps data rate; throug	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	n module	
	Range	Up 33 ft (10 m)		
	Electrical Interface	USB 2.0 compliant		
		Microsoft Windows Plug and Play compliant		
	OS Support	Genuine Windows Vista		
		Genuine Windows XP		
		Genuine Windows 2000		
	Bluetooth Software Supported	Broadcom Bluetooth for V	Vindows	
		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,	dows 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%	



Technical Specifications

Altitude	Operating	15,000 ft (4,572 m)		
	Non-operating	40,000 ft (12,192 m)		
Bluetooth Profiles	(with Bluetooth for W	indows 4.0 software)		
Supported	Serial Port Profile (SP	P)*		
	Dial-Up Networking	Dial-Up Networking (DUN)*		
	Generic Object Exch	ange Profile (GOEP)		
	Object Push Profile (Object Push Profile (OPP)*		
	File Transfer Profile (I	File Transfer Profile (FTP)		
	Synchronization Profi	Synchronization Profile (SYNC)		
	Hard Copy Cable Re	Hard Copy Cable Replacement (HCRP)*		
	Personal Area Networking Profile (PAN)*			
	Human Interface Device Profile (HID)*			
	FAX Profile (FAX)			
	Basic Imaging Profile (BIP)			
	Headset Profile (HSP)			
	Hands Free Profile (HFP)			
	Advanced Audio Distribution Profile (A2DP)			
* indicates the profile is	s also supported by Micros	oft Windows XP SP2		

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:		
		 ENERGY STAR 4.0 US Federal Energy Management Program (FEMP) Taiwan Green Mark China Energy Conservation Program (CECP) ECO declaration Korean Eco Label EPEAT Gold Rating 		
	System Configuration	The configuration used for the Energy Consumption and Declared Noise Emissions data is based on a "Typically Configured Notebook"		
	Energy Consumption	115 VAC	230 VAC	100 VAC
	Normal Operation	8.5 W	8.6 W	8.53 W
	Sleep (Energy Star low power mode)	0.73 W	0.87 W	0.71 W
	Off	0.64 W	0.77 W	0.63 W
	Heat Dissipation*	115 VAC	230 VAC	100 VAC
	Normal Operation	29.002 BTU/hr	29.343 BTU/hr	29.104 BTU/hr
	Sleep	2.49 BTU/hr	2.968 BTU/hr	2.422 BTU/hr



Off

2.183 BTU/hr

2.627 BTU/hr

2.149 BTU/hr

Technical Specifications

* Heat dissipation is calculated based on the measured watts, assuming the service level is attained for one hour.

This product is in compliance with US executive order 13221, WOL (wake on LAN) disabled.

Declared Noise Emissions (in accordance with ISO 7779 and ISO 9296)	Sound Power (LWAd, bels)	Sound Pressure (LpAm, decibels)		
ldle	2.67	19.5		
Operating mode (HDD)	2.97	25		
Batteries	This product complies with ISO standards:			
	 EU Directive 91/157/EEC EU Directive 93/86/EEC EU Directive 98/101/EEC 			
	Batteries used in the product do not contain:			
	 Mercury greater the 5ppm by weigh Cadmium greater than 10ppm by v Lead greater than 4000 ppm by we 	veight		
	The battery type and chemistry used in the CR2032 (coin cell), Lithium 6 cell rechargeable Lithium-Ion battery	product is:		
Additional information:	This product is in compliance with the EU Substances (RoHS) Directive – 2002/95/E			
	This HP product is designed to comply with Electronic Equipment (WEEE) Directive – 2			
	Keyboard complies with ISO standard: ISO ISO/IEC 15412	O 9995, EN 29241-4, and		
	Input devices of this product comply with I	SO 9241, part 9.		
	Plastics parts weighing over 25 grams use ISO 11469 and ISO1043.	d in the product are marked per		
	This product contains 0% recycled materic	ıls (by wt.)		
	This product is greater than 96% recyclable end of life.	le when properly disposed of at		
	Packaging Materials			
	 External: O Corrugated / Paper – 1.0 lb Internal: O EPE Foam – 0.15 lb (70 g) 	(453 g)		

- O LDPE Bag 0.01 lb (5 g)
- The corrugated paper packaging materials contains at least 40%



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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 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)

nent HP offers our customers several other options for handling their aging computers while also minimizing the impact on the environment—including product trade-in and leasing services-in addition to recycling services.

End-of-life Management and Recycling

Material Usage



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Please go to: http://www.hp.com/recycle or contact your nearest HP sales office. Products returned to H recycled, recovered or disposed of in a responsible manner.	P will be
Hewlett-Packard For more information about HP's commitment to the environm	ent:
Corporate Environmental Global Citizenship Report	
Information http://www.hp.com/hpinfo/globalcitizenship/gcreport/index.h	tml
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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