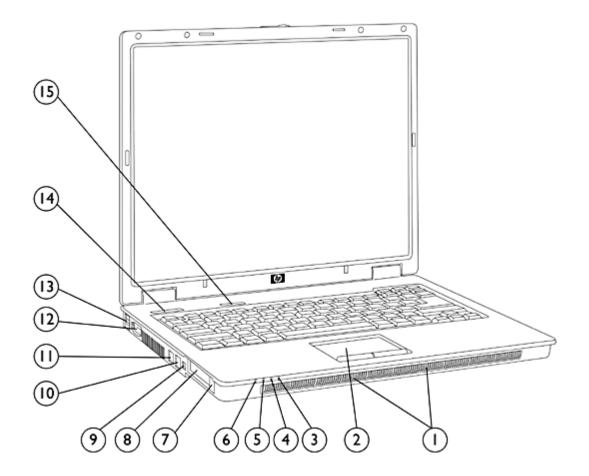
Overview

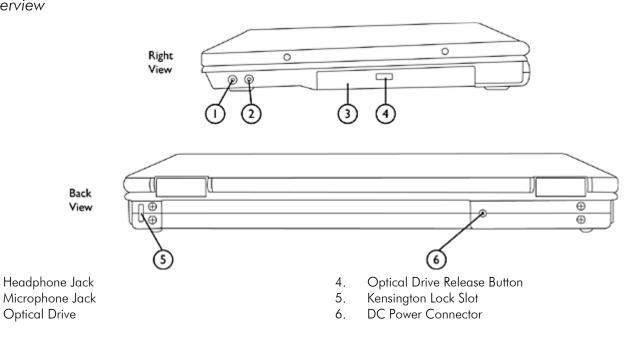


- 1. Stereo Speakers
- 2. Touchpad with Scroll Zone
- 3. Hard Drive Activity LED
- 4. Battery Charging LED
- 5. Power/Standby LED
- 6. Wireless On/Off LED
- 7. PC Card Eject Button
- 8. PC Card Slot

- 9. IEEE 1394 Port
- 10. RJ-45 Port (NIC)
- 11. RJ-11 Port (Modem)
- 12. VGA/External Monitor Connector
- 13. 2 USB 2.0 Ports
- 14. Power Button with LED
- 15. Wireless On/Off Button with LED



Overview



At A Glance

1.

2.

3.

- Microsoft Windows XP Professional, Microsoft Windows XP Home Edition (select countries), or **FreeDOS**
- Intel® Pentium® M processors 730 to 770* or Intel Celeron® M processors 360J to 370* •
- Sleek, industrial design starting at 6.06 lb/2.75 kg and 1.2-inch/30.3-mm thin at front
- Mobile Intel 915GM or 910GML Express Chipset .
- 256-MB DDR SDRAM, upgradeable to 2048-MB maximum •
- Up to 80-GB 5400 rpm user-removable hard drive •
- Intel Graphics Media Accelerator 900 ٠
- Optional Integrated 802.11a/b/g or 802.11b/g wireless LAN modules •
- Support for optional Intel Centrino[™] mobile technology
- Optional integrated Bluetooth®
- NetXtreme 10/100 Ethernet Controller
- Touchpad with scroll zone
- Protected by one-year standard parts and labor warranty certain restrictions and exclusions apply

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

What's Special

- Security features:
 - HP ProtectTools
 - HP Drivelock
 - Kensington lock slot
- Ease of use features ٠
 - HP Mobile Print Driver for on-the-go printing
 - HP Wireless Assistant
 - o HP Info Center
 - HP Fast Charge technology
 - Up to 4 hours of battery life
 - Integrated reliability features:
 - HP Mobile Data Protection System
 - o HP Panel Protection System



Standard Features

Processors		cessor 770* (2.13-GHz, 533-MHz FSB, 2-MB L2 cache) cessor 760* (2.0-GHz, 533-MHz FSB, 2-MB L2 cache)	
		essor 750* (1.86-GHz, 533-MHz FSB, 2-MB L2 cache)	
		essor 740* (1.73-GHz, 533-MHz FSB, 2-MB L2 cache)	
		cessor 730* (1.6-GHz, 533-MHz FSB, 2-MB L2 cache)	
	Intel Celeron M processor 370* (1.5-GHz, 400-MHz FSB, 1-MB L2 cache) Intel Celeron M processor 360J* (1.4-GHz, 400-MHz FSB, 1-MB L2 cache) * Intel's numbering is not a measurement of higher performance. NOTE: Intel Pentium M processors support enhanced Intel SpeedStep [™] technology. Processor speed denotes maximum performance mode; Intel Pentium M processors will run at approximately 800 MHz in battery optimization mode.		
Operating System	Microsoft Windows >	(P Professional SP2	
	Microsoft Windows X FreeDOS	(P Home Edition SP2 (select countries only)	
	NOTE: Microsoft Windows 2000 Professional is not available pre-installed, but drivers for it are downloadable from http://www.hp.com .		
Chipset	Mobile Intel 910GML Express Chipset		
	Mobile Intel 915GM	Express Chipset	
Graphics	Intel Graphics Media Accelerator 900 with up to 128-MB shared system memory		
Display	Internal	15.0-inch TFT XGA (1024 x 768 resolution and 16 M colors) 15.0-inch TFT SXGA+ (1400 x 1050 resolution and 16 M colors)	
	External	Up to 32-bit per pixel color depth Supports 640 x 480, 800 x 600, 1024 x 768, 1280 x 768, 1280 x 1024, or 1600 x 1200 resolutions up to 100-Hz refresh rate, dependent upon monitor capability, and resolution and color depth settings	
Memory	Standard	256-MB, 512-MB, or 1024-MB 333-MHz DDR SDRAM; two SODIMM slots	
	Maximum	Upgradeable to 2048-MB maximum (1024-MB SODIMM in slots 1 and 2)	
	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.		
Communications	NetXtreme 10/100 Ethernet Controller		
	56K modem* with di		
		loads from 56K modem compliant sources. Maximum achievable download prently do not reach 56 KB/s, and will vary with line conditions. Modem availability regulatory approval.	



Standard Features

Wireless Devices

Support for a broad range of secure, integrated wireless LAN options. Integrated Bluetooth is also an option (factory configurable only) and can be combined with any one of the supported wireless LAN options.

	options.		
	All integrated wireless LAN options	Wi-Fi Protected Access (W	WEP) support up to 128-bit keys PA) and WPA2 support port, including EAP-TLS, EAP-TTLS, PEAP-GTC, AP dard (AES) support /MM
	Broadcom 802.11b/g WLAN	Integrated support for 802 Up to 54-mbps data rate	
	Broadcom 802.11a/b/g WLAN	Integrated support for 802 Up to 54-mbps data rate	2.11a, b and g
	Intel PRO/Wireless 2200BG 802.11 b/g WLAN	Intel Centrino mobile tech Integrated support for 802 Up to 54-mbps data rate	
	Intel PRO/Wireless 2915ABG 802.11 a/b/g WLAN	Intel Centrino mobile tech Integrated support for 802 Up to 54-mbps data rate	
	Integrated Bluetooth	Bluetooth Specification v1 Works with a wide range c	
Keyboard	keyboard features, such as control and alt keys, and 1 features include an integra brightness, and other featu	the isolated inverted-T curs 2 function keys. U.S. and In ted numeric keypad, hotkey pres, 19-mm x 19-mm key p	dustry standard, full-pitch key layout with desktop for control keys, editing keys, both left and right international key layouts are available. Other as for instant access to power conservation, itch (center-to-center spacing), 2.5-mm stroke, inproved visibility in low light conditions.
Wireless On/Off Button	Provides one-touch on/off	control of the integrated wi	reless device(s).
Pointing Device	Touchpad with scroll zone,	, two soft-touch buttons	
Expansion Card Slots	One Type I/II/III PC Card	Supports 32-bit CardBus o	and 16-bit PC Cards
Storage	Hard Drives NOTE: These hard drives Optical Drives	40-, 60-, 80-GB 5400 rp are customer removable an Integrated (12.7-mm)	m SMART d will withstand multiple insertion/removal cycles. DVD-ROM DVD/CD-RW Combo DVD+/-RW



Standard Features		
Interfaces	PC Card Slot	One – Type I/II/III
	External Monitor	One – VGA
	IEEE 1394 Port	One
	External Microphone	One
	Headphone/Line out	One
	Power Connector	One
	RJ-11 (Modem)	One
	RJ-45 (NIC)	One
	USB 2.0	Тwo
	Travel Battery Connector	One
	LED Status Indicators	Eleven
Audio	ADI AC '97 CODEC Integrated 16-bit Sound Bl Integrated stereo speakers Stereo headphone/line ou Stereo microphone in	
Software	Preloaded Software for Microsoft Windows XP	Adobe Acrobat Reader HP Local Recovery provided by Altiris* HP One-Touch Button Software HP Mobile Print Driver Synaptics Touchpad Driver HP Help and Support HP ProtectTools Security Manager: BIOS Configuration for HP ProtectTools Credential Manager for HP ProtectTools HP Wireless Assistant Sonic RecordNow! (for optional DVD+/-RW and DVD/CDRW drives)* Symantec Norton Antivirus with complimentary 60-day live update Intervideo WinDVD – DVD Player (for optional DVD+/-RW, DVD/CDRW and DVD drives)*
	Software on CD	Intervideo WinDVD Creator - DVD Authoring (for optional DVD+/-RW drives)
	Additional software available from the Web	HP Client Manager Software HP ProtectTools Security Manager: Smart Card Security for HP ProtectTools
	* C . fr	e hard drive and must be installed by running the Software Setup utility



Standard Features			
Client Management Software	HP Client Manager Software (CMS) provides asset tracking, alerting, diagnostics, and SoftPaq distribution for HP business desktops, notebooks, and workstations. HP CMS is the foundation for HP Client Management Solutions. For more information and to download HP Client Manager Software, please refer to the HP website at http://www.hp.com/go/easydeploy .		
HP Local Recovery Provided by Altiris	accidentally deleted or if t connected users, Local Re snapshots, which are then recovery is now simple an	file protection for HP business PCs to enable fast recovery of information that is he system becomes corrupted. Designed for disconnected or seldom- covery protects your HP computer's data and system state by taking scheduled stored in a protected area on the local hard disk. System backup and disaster d fast for all users, regardless of connectivity. For more information and to the HP website at <u>http://www.hp.com/go/easydeploy</u> .	
HP ProtectTools Security Manager	ProtectTools Security Man	Manager is the security platform for business notebooks and desktops. The HP ager is an extensible client security console that delivers enhanced security on software modules. Modules currently available are:	
	- Smart Card Security for HP ProtectTools - BIOS Configuration for HP ProtectTools - Credential Manager for HP ProtectTools		
Security	Standard Features	Configuration Control Hardware Memory Change Alert Ownership Tag Setup Password Power-On Password Drivelock Enabled for PC Smart Card options Kensington Lock Slot	
	For more information on I	HP security solutions refer to <u>http://www.hp.com/go/security</u> .	
Power Supply	External 65-watt slim 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 technology		
Battery	Primary Battery Optional Travel Battery	6-cell high capacity Lithium-Ion (42Wh) 8-cell high capacity Lithium-Ion (52Wh)	
Battery Life	Primary Battery Primary Battery and optional HP Travel Batter	-	
System Standby Time	on the product, power mo	y depending on the product configuration, product model, applications loaded inagement settings of the product, and the product features used by the eries, the maximum capacity of this battery will decrease with time and usage.	



Power Conservation	Supports enhanced Intel SpeedStep technology with Intel Pentium M processors (allows Battery
	Optimized Mode, Maximum Performance Mode, or Automatic mode)
	Intel Display Power Saving technology
	Hibernation
	Standby
	ACPI compliance
Service and Support	HP Services includes a one-year standard parts and labor warranty, pick-up or carry-in, and toll-free 7 x 24 hardware technical phone support. On-site service and warranty upgrades are also available.
	NOTE: Certain restrictions and exclusions apply. Consult the HP Customer Support Center for details. http://h20000.www2.hp.com/bizsupport/TechSupport/ProductRoot.jsp.

nx6110	Processor	Intel Celeron M processor 360J* (1.4-GHz, 400-MHz FSB, 1-MB L2 cache)
PR124UA#ABA	Operating System	Microsoft Windows XP Home
	System Memory	256-MB 333-MHz DDR SDRAM (256-MB SODIMM in slot 1)
	Hard Drive	40-GB 5400 rpm
	Display	15.0-inch TFT XGA with 1024 x 768 resolution (up to 16.7 M colors internal)
	Graphics	Intel Graphics Media Accelerator 900
	Video Memory	Up to 128 MB of shared system memory
	Audio	ADI AC '97 CODEC, Line out/headphone and microphone jacks
	Optical Drive	24X DVD/CDRW Combo
	Communications	56K Fax/Modem, Integrated NetXtreme Ethernet Controller (10/100 NIC)
	Integrated Wireless	Broadcom 802.11b/g WLAN
	Pointing Device	Touchpad with scroll zone
	Battery	6-cell high capacity Lithium-Ion (42Wh)
	Power	External 65W adapter
	Warranty**	1/1/0



Standard Features

nx6110	Processor	Intel Celeron M processor 360J* (1.4-GHz, 400-MHz FSB, 1-MB L2 cach
PT602AA#ABA	Operating System	Microsoft Windows XP Professional
	System Memory	512-MB 333-MHz DDR SDRAM (256-MB SODIMM in slot 1 and 2)
	Hard Drive	60-GB 5400 rpm
	Display	15.0-inch TFT XGA with 1024 x 768 resolution (up to 16.7 M colors internal)
	Graphics	Intel Graphics Media Accelerator 900
	Video Memory	Up to 128 MB of shared system memory
	Audio	ADI AC '97 CODEC, Line out/headphone and microphone jacks
	Optical Drive	24X DVD/CDRW Combo
	Communications	56K Fax/Modem, Integrated NetXtreme Ethernet Controller (10/100 NIC)
	Integrated Wireless	Broadcom 802.11b/g WLAN
	Pointing Device	Touchpad with scroll zone
	Battery	6-cell high capacity Lithium-Ion (42Wh)
	-	
	Power	External 65W adapter
	Power Warranty**	1/1/0
nx6110		1/1/0
nx6110 PT603AA#ABA	Warranty** Processor	
	Warranty**	1/1/0 Intel Pentium M processor 730* (1.6-GHz, 533-MHz FSB, 2-MB L2 cache Microsoft Windows XP Professional
	Warranty** Processor Operating System	1/1/0 Intel Pentium M processor 730* (1.6-GHz, 533-MHz FSB, 2-MB L2 cache
	Warranty** Processor Operating System System Memory	1/1/0 Intel Pentium M processor 730* (1.6-GHz, 533-MHz FSB, 2-MB L2 cache Microsoft Windows XP Professional 512-MB 333-MHz DDR SDRAM (256-MB SODIMM in slot 1 and slot 2)
	Warranty** Processor Operating System System Memory Hard Drive	1/1/0 Intel Pentium M processor 730* (1.6-GHz, 533-MHz FSB, 2-MB L2 cache Microsoft Windows XP Professional 512-MB 333-MHz DDR SDRAM (256-MB SODIMM in slot 1 and slot 2) 40-GB 5400 rpm 15.0-inch TFT XGA with 1024 x 768 resolution (up to 16.7 M colors
	Warranty** Processor Operating System System Memory Hard Drive Display	1/1/0 Intel Pentium M processor 730* (1.6-GHz, 533-MHz FSB, 2-MB L2 cache Microsoft Windows XP Professional 512-MB 333-MHz DDR SDRAM (256-MB SODIMM in slot 1 and slot 2) 40-GB 5400 rpm 15.0-inch TFT XGA with 1024 x 768 resolution (up to 16.7 M colors internal)
	Warranty** Processor Operating System System Memory Hard Drive Display Graphics	 1/1/0 Intel Pentium M processor 730* (1.6-GHz, 533-MHz FSB, 2-MB L2 cache Microsoft Windows XP Professional 512-MB 333-MHz DDR SDRAM (256-MB SODIMM in slot 1 and slot 2) 40-GB 5400 rpm 15.0-inch TFT XGA with 1024 x 768 resolution (up to 16.7 M colors internal) Intel Graphics Media Accelerator 900
	Warranty** Processor Operating System System Memory Hard Drive Display Graphics Video Memory	 1/1/0 Intel Pentium M processor 730* (1.6-GHz, 533-MHz FSB, 2-MB L2 cache Microsoft Windows XP Professional 512-MB 333-MHz DDR SDRAM (256-MB SODIMM in slot 1 and slot 2) 40-GB 5400 rpm 15.0-inch TFT XGA with 1024 x 768 resolution (up to 16.7 M colors internal) Intel Graphics Media Accelerator 900 Up to 128 MB of shared system memory
	Warranty** Processor Operating System System Memory Hard Drive Display Graphics Video Memory Audio	 1/1/0 Intel Pentium M processor 730* (1.6-GHz, 533-MHz FSB, 2-MB L2 cache Microsoft Windows XP Professional 512-MB 333-MHz DDR SDRAM (256-MB SODIMM in slot 1 and slot 2) 40-GB 5400 rpm 15.0-inch TFT XGA with 1024 x 768 resolution (up to 16.7 M colors internal) Intel Graphics Media Accelerator 900 Up to 128 MB of shared system memory ADI AC '97 CODEC, Line out/headphone and microphone jacks 24X DVD/CDRW Combo 56K Fax/Modem, Integrated NetXtreme Ethernet Controller
	Warranty** Processor Operating System System Memory Hard Drive Display Graphics Video Memory Audio Optical Drive	 1/1/0 Intel Pentium M processor 730* (1.6-GHz, 533-MHz FSB, 2-MB L2 cache Microsoft Windows XP Professional 512-MB 333-MHz DDR SDRAM (256-MB SODIMM in slot 1 and slot 2) 40-GB 5400 rpm 15.0-inch TFT XGA with 1024 x 768 resolution (up to 16.7 M colors internal) Intel Graphics Media Accelerator 900 Up to 128 MB of shared system memory ADI AC '97 CODEC, Line out/headphone and microphone jacks 24X DVD/CDRW Combo 56K Fax/Modem,
	Warranty** Processor Operating System System Memory Hard Drive Display Graphics Video Memory Audio Optical Drive Communications Integrated Wireless	 1/1/0 Intel Pentium M processor 730* (1.6-GHz, 533-MHz FSB, 2-MB L2 cache Microsoft Windows XP Professional 512-MB 333-MHz DDR SDRAM (256-MB SODIMM in slot 1 and slot 2) 40-GB 5400 rpm 15.0-inch TFT XGA with 1024 x 768 resolution (up to 16.7 M colors internal) Intel Graphics Media Accelerator 900 Up to 128 MB of shared system memory ADI AC '97 CODEC, Line out/headphone and microphone jacks 24X DVD/CDRW Combo 56K Fax/Modem, Integrated NetXtreme Ethernet Controller (10/100 NIC)
	Warranty** Processor Operating System System Memory Hard Drive Display Graphics Video Memory Audio Optical Drive Communications Integrated Wireless Pointing Device	 1/1/0 Intel Pentium M processor 730* (1.6-GHz, 533-MHz FSB, 2-MB L2 cache Microsoft Windows XP Professional 512-MB 333-MHz DDR SDRAM (256-MB SODIMM in slot 1 and slot 2) 40-GB 5400 rpm 15.0-inch TFT XGA with 1024 x 768 resolution (up to 16.7 M colors internal) Intel Graphics Media Accelerator 900 Up to 128 MB of shared system memory ADI AC '97 CODEC, Line out/headphone and microphone jacks 24X DVD/CDRW Combo 56K Fax/Modem, Integrated NetXtreme Ethernet Controller (10/100 NIC) Intel PRO/Wireless 2200BG 802.11b/g WLAN Touchpad with scroll zone
	Warranty** Processor Operating System System Memory Hard Drive Display Graphics Video Memory Audio Optical Drive Communications Integrated Wireless	 1/1/0 Intel Pentium M processor 730* (1.6-GHz, 533-MHz FSB, 2-MB L2 cache Microsoft Windows XP Professional 512-MB 333-MHz DDR SDRAM (256-MB SODIMM in slot 1 and slot 2) 40-GB 5400 rpm 15.0-inch TFT XGA with 1024 x 768 resolution (up to 16.7 M colors internal) Intel Graphics Media Accelerator 900 Up to 128 MB of shared system memory ADI AC '97 CODEC, Line out/headphone and microphone jacks 24X DVD/CDRW Combo 56K Fax/Modem, Integrated NetXtreme Ethernet Controller (10/100 NIC) Intel PRO/Wireless 2200BG 802.11b/g WLAN



Standard Features

nx6110	Processor	Intel Pentium M processor 740* (1.73-GHz, 533-MHz FSB, 2-MB L2 cache)
PT604AA#ABA	Operating System	Microsoft Windows XP Professional
	System Memory	512-MB 333-MHz DDR SDRAM (256-MB SODIMM in slot 1 and slot 2)
	Hard Drive	60-GB 5400 rpm
	Display	15.0-inch TFT XGA with 1024 x 768 resolution (up to 16.7 M colors internal)
	Graphics	Intel Graphics Media Accelerator 900
	Video Memory	Up to 128 MB of shared system memory
	Audio	ADI AC '97 CODEC, Line out/headphone and microphone jacks
	Optical Drive	DVD+/-RW
	Communications	56K Fax/Modem,
		Integrated NetXtreme Ethernet Controller (10/100 NIC)
	Integrated Wireless	Intel PRO/Wireless 2200BG 802.11b/g WLAN
	Pointing Device	Touchpad with scroll zone
	Battery	6-cell high capacity Lithium-Ion (42Wh)
	Power	External 65W adapter
	Warranty**	1/1/0

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

** Certain restrictions and exclusions apply.



Options		
Memory	256-MB 333-MHz DDR SDRAM	DC389B
	512-MB 333-MHz DDR SDRAM	DC390B
	1024-MB 333-MHz DDR SDRAM	DC890B
Storage	60-GB 5400 rpm Primary Hard Drive	PA852A
	USB Diskette Drive	DC361B
	HP USB Digital Drive + 128-MB Secure Digital Card	DL702A
	HP 40-GB Mobile USB Hard Drive	DQ549A
Communications	Intel PRO/Wireless 2200BG 802.11b/g WLAN option kit	PF952AA#ABA
Expansion Solutions	HP 4-port USB 2.0 Hub	DG954A
Power	HP 2-bay Battery Charging Station	DT533A#ABA
	HP 10-bay Battery Charging Station	DT534A#ABA
	Battery Adapter kit #1	PK402A
	65W AC Adapter	DC359A#ABA
	90W AC Adapter	DC895B#ABA
	90W Auto Adapter	DC303B
	90W Air/Auto/AC Combo Adapter	DV574A#ABA
	90W Aircraft Cables	DC899A
	Primary 6-cell Battery Pack	PB994A
	HP Travel Battery	PB993A
Carrying Cases	HP Entry Value Case	DL617A
	HP Top Load Nylon	DC915A
	HP Executive Leather case	PA847A
	HP Sport Backpack	DG102A
Security	PC Card Smart Card Reader	DC350B
	HP/Kensington Cable Lock	PC766A
Input/Output Devices	USB/PS2 Keyboard	DC852A#ABA
	USB/PS2 Optical Mouse	DC369A
	HP USB Optical Travel Mouse	F2100A
	Rechargeable Wireless Mouse	DU960A



Memory

Up to 2048 MB of 333-MHz DDR SDRAM Two DIMM slots (user accessible - one under keyboard deck, one via panel on bottom of unit) DIMM sizes supported: 256 MB, 512 MB, or 1024 MB

Standard Memory	 256 MB (256 MB x 1) 512 MB (512 MB x 1 or 256 MB x 2) 1024 MB (1024 MB x 1 or 512 MB x 2)

Optional Memory Upgrades Support for up to 2048 MB of memory is available (with the installation of optional DDR SDRAM memory kits). Both memory slots are user accessible. Please refer to the Hardware and Software Guide for installation procedures.

Up to	Slot 1	Slot 2
768 MB	512 MB	256 MB
1024 MB	1024 MB	Empty
1024 MB	512 MB	512 MB
1280 MB	1024 MB	256 MB
1536 MB	1024 MB	512 MB
2048 MB	1024 MB	1024 MB

NOTE: This chart does not represent all possible memory configurations. Due to the non-industry standard nature of some third-party memory modules, we strongly recommend using only HP branded memory modules to ensure compatibility. If you mix memory speeds, the system will perform at the lower memory speed.

Memory Upgrades	1024-MB 333-MHz DDR SDRAM	DC890B
	512-MB 333-MHz DDR SDRAM	DC390B
	256-MB 333-MHz DDR SDRAM	DC389B



Storage

Removable Media Drive Support

	Quantity Supported	Drive Bay
DVD+/-RW Drive	One	Fixed optical drive bay
DVD/CD-RW Combo Drive	One	Fixed optical drive bay
DVD-ROM Drive	One	Fixed optical drive bay

Hard Drive Support

80-GB 5400 rpm SMART Hard Drive	Quantity Supported One	Drive Bay Dedicated hard drive bay
60-GB 5400 rpm SMART Hard Drive	One	Dedicated hard drive bay
40-GB 5400 rpm SMART Hard Drive	One	Dedicated hard drive bay



Technical Specifications

System Unit	Dimensions (HxWxD) Weight	1.2 (at front) x 12.9 x 10.5 nx6110 with 15.0-inch display	5 in (30.3 (at front) x 328.6 x 267 mm) 6.06 lb (2.75 kg)
	by configuration and com	ending upon where on the ne	otebook the measurement is made. Weight varies cell battery, 30-GB hard drive, 256-MB memory, id components.
	Stand-Alone Power Requirements	Nominal Operating Voltage	18.5 V
		Average Operating Power	20 W
		Max Operating Power	< 65W
	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% relative humidity, 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	Blue Angel	No
	Certifications	UL	Yes
		Energy Star	Yes
		Canadian Safety	Yes
		CSA (Canada)	Yes
		ICES	Yes
		TUV GS	No
		Nordic Safety	No
		Mexican Safety	Yes
		Poland Compliance	Yes
		Australia / NZ Compliance	Yes
		CCC	Yes
		Japan Compliance	Yes
		MIC	Yes
		BSMI	Yes
		CE Marking Compliance	Yes
		Koncar	Yes
		GOST	Yes
		SASO	Yes
		SABS	Yes
		UKRSERTCOMPUTER	Yes



Technical Specifications

65W External AC	Weight	0.62 lb (0.28 kg) (adapter)		
Adapter		0.29 lb (0.13 kg) (power o	cord)	
	Dimensions	4.17 x 1.85 x 1.1 in (10.6	6 x 4.7 x 2.8 cm)	
	Input	Operating Input Voltage	100 to 240 VAC	
		Operating Input Current	1.7A at 90 VAC 0.85A at 180 VAC	
		Operating Frequency Range	47 to 63 Hz AC	
		Efficiency	83% minimum at 115 VAC	
	Output	Output Power	65 W	
		DC Output Current	18.5 V	
	Environmental	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	Worldwide safety standard	with LVD and EMC directives ds: IEC950, EN60950, UL1950, Class2, SELV JS, NORDICS, DENAN, EN55022 Class B, FCC , CCIB, NOM-1 NYCE	
	MTBF	Over 200,000 hours at 25°C ambient condition		
42Wh Primary Lithium-Ion Battery Pack	Weight	0.8 x 2.1 x 8.0 in (2.0 x 0.715 lb (0.325 kg) 6-cell Lithium-Ion	5.3 x 20.3 cm)	
	Cells/Type	Voltage	10.8 V	
	Energy	Amp-hour capacity	4.0Ah	
			42Wh	
	Temperature	Watt-hour capacity Operating (Charging)	32° to 113° F (0° to 45° C)	
	remperatore	Operating (Charging)	32 10 1 13 1 (0 10 43 C)	
		Operating (Discharging)	14° to 140° E (10° to 60° C)	
		Operating (Discharging)	14° to 140° F (-10° to 60° C) 4° to 140° F (-20° to 60° C)	
	Battery Re-Charge Time	Non-operating System in OFF mode or	14° to 140° F (-10° to 60° C) -4° to 140° F (-20° to 60° C) 2.5 hours	
	Battery Re-Charge Time	Non-operating	-4° to 140° F (-20° to 60° C)	



Technical Specificat	ions			
Optional 52Wh Travel	Dimensions (H \times W \times L)	1.0 x 3.9 x 8.7 in (2.5 x 10.0 x 22.0 cm)		
Battery	Weight	1.00 lb (0.455 kg)		
	Cells/Type	8-cell Lithium-Ion		
	Energy	Voltage	14.4 V	
		Amp-hour Capacity	3.6Ah	
		Watt-hour Capacity	52Wh	
	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)	
	Fuel Gauge	When pressed, LEDs light	indicating level of charge remaining on battery	
15.0-Inch Color TFT	Active Area (W x H)	12.0 x 9.0 in (30.4 x 22.8	3 cm)	
XGA Display	Diagonal Size	15.0 in (38.0 cm)		
	Surface Treatment	Anti-glare		
	Number of Colors	Up to 16 M		
	Contrast Ratio	250:1 (typical)		
	Refresh Rate	60 Hz		
	Brightness	150 nit (typical)		
	Pixel Resolution	Pitch	0.297 mm	
		Format	1024 x 768	
		Configuration	RGB Stripe	
	Backlight	CCFL		
	PPI	85		
	Character Display	80 x 25		
	Total Power Consumption	5.7 W		
	Viewing Angle	±45° Horizontal, +15°/-	35° Vertical (typical)	



Technical Specifications

15.0-Inch Color TFT	Active Area (W x H)	H) 12.0 x 9.0 in (30.4 x 22.8 cm)	
SXGA+ Display	Diagonal Size	15.0 in (38.0 cm)	
	Surface Treatment	Anti-glare	
	Number of Colors	Up to 16 M	
	Contrast Ratio	300:1 (typical)	
	Refresh Rate	60 Hz	
	Brightness	180 nit (typical)	
	Pixel Resolution	Pitch	0.217 mm
		Format	1400 x 1050
		Configuration	RGB Stripe
	Backlight	CCFL	
	PPI	116	
	Character Display	80 x 25	
	Total Power Consumption	5.8 W	
	Viewing Angle	$\pm 45^{\circ}$ Horizontal, $+15^{\circ}/-3$	5° Vertical (typical)

Hard Drives

80-GB 5400 rpm	Drive Weight Capacity Height Width Interface Transfer Rate Seek Time (typical reads, including settling) Rotational Speed Logical Blocks Operating Temperature	0.22 lb (99 g) 80 GB 0.37 in (9.5 mm) 2.75 in (70 mm) ATA-6 Synchronous (maximum) Single Track Average Maximum 5400 rpm 156,301,488 41° to 131° F (5° to 55° C	100 MB/s (Drive Capability) 3 ms 13 ms 24 ms
	Features	ATA Security	



60-GB 5400 rpm	Drive Weight	0.22 lb (99 g)		
	Capacity	60 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	Average	13 ms	
	settling)	Maximum	24 ms	
	Rotational Speed	5400 rpm		
	Logical Blocks	117,210,240		
	Operating Temperature	re 41° to 131° F (5° to 55° C)		
	Features	ATA Security		
40-GB 5400 rpm	Drive Weight	0.22 lb (99 g)		
	Capacity	40 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	Average	13 ms	
	settling)	Maximum	24 ms	
	Rotational Speed	5400 rpm		
	Logical Blocks	78,140,160		
	Operating Temperature	41° to 131° F (5° to 55° 0	C)	
	Features	ATA Security		

Technical Specifications

Removable Storage Drives – Fixed Bay



Technical Specifications

	Access Times Max Data Transfer Rate Transfer Mode Interface	Random 24X-CD-ROM 8X-DVD Multiword DMA Mode 2	<100 ms CD <125 ms DVD 3,600 KB/s 10,800 KB/s	
-	Transfer Mode Interface	8X-DVD Multiword DMA Mode 2	3,600 KB/s	
-	Transfer Mode Interface	8X-DVD Multiword DMA Mode 2		
	Interface	Multiword DMA Mode 2	10,800 KB/s	
	Interface			
:		EIDE		
	Supported Media (read)	MODE CD, CD-I, CD-I B (Photo-CD, CD-EXTRA, Po	NDI, 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- /D-10, DVD-18), DVD-R, DVD-RW, DVD+R,	
	Supported Media (write)	None		
	Max Media Capacity (read)	4.7 GB		
	Transport	Tray Loading		
DVD/CD-RW Combo	Access Times	Random	<110 ms CD	
Drive			<130 ms DVD	
1	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)	CD-R, CD-RW		
	Max Media Capacity (read)	4.7 GB		
	Max Media Capacity (write)	700 MB		
	Transport	Tray loading		



-	F		<u> </u>	· r ·	
	AC	hnical	Sne	CITICI	ations
	CCI	nncui	Spc	CIIIC	

DVD+/-RW Drive	Access Times	Random	<175 ms CD <230 ms DVD
	Max Data Transfer Rate	24X CD-ROM	3,600 KB/s
	Max Dala Transler Kale	8X DVD	
			10,800 KB/s
		16X CD-R	2,400 KB/s
		10X CD-RW	1,500 KB/s
		4X DVD+R	5,400 KB/s
		4X DVD+RW	5,400 KB/s
		4X DVD-R	5,400 KB/s
	_	2X DVD-RW	2,700 KB/s
	Transfer Mode	Multiword DMA Mode 2	
	Interface	EIDE	
	Supported Media (read)	MODE CD, CD-I, CD-I E (Photo-CD, CD-EXTRA, P	MIDI, CD-TEXT, CD-ROM, CD-ROM XA, MIXED Bridge (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
	Max Media Capacity (read)	4.7 GB	
	Max Media Capacity (write)	4.7 GB	
	Transport	Tray Loading	
Audio			
Hardware	Implementation	ADI AC '97 CODEC	
	Volume Controls	Up, down, and mute butt	ons
	Full Duplex	Yes	
	Sound Blaster Pro compatible	Yes	

	Jack	
Audio Output Quality	Frequency Response	20 Hz - 20 kHz
	Signal to Noise Ratio	>85 dB
	Total Harmonic Distortion	0.01%
	Noise Floor	-110 dB

Microphone Jack

Headphone/Line Out

Noise Floor Play/Record Sampling 7 kHz - 48 kHz Rate(s) AD/DA Resolution 16 bit



Stereo or mono

Stereo

Technical Specifications

Internal Speakers	Power Rating	2 Watts	
	Impedance	4 Ohms	
Communications			
Integrated NetXtreme	Ethernet Features	10 Mbit/s operation (10BASE-T; IEEE 802.3i; IEEE 802.3 clauses 13-14)	
10/100 Ethernet Controller		100 Mbit/s operation (100BASE-TX; IEEE 802.3u; IEEE 802.3 clauses 21- 30)	
		Auto-Negotiation (Automatic Speed Selection)	
		Full Duplex Operation at all Speeds, Half Duplex operation at 10 and 100 Mbit/s	
		IEEE 802.3x Flow Control (IEEE 802.3 clauses 31-32; configurable)	
	Power Management	ACPI 1.1a compliant multiple power modes Situation-sensitive features reduce power consumption	
	Manageability	Wake-on-LAN from all Power-Managed States (configurable; Magic Packet and Microsoft Wake-Up Frame)	
		PXE 2.0 Remote Boot	
		Statistics Gathering (RMON, Ethernet-like MIB, Ethernet MIB (802.3x, clause 30))	
		Comprehensive diagnostic and configuration software suite	
	NIC Device Driver Name	Broadcom 440X 10/100 Integrated Controller	
	Drivers Available	Windows XP	
		Windows 2000	
		DOS NDIS2 and ODI	
Agere Systems AC'97	Form Factor	MDC Daughtercard	
Modem	Power Management Support	APM Revision 1.2, ACPI	
	Approvals/ Certifications	UL, CSA, NEMKO, CCIB, Industry Canada, FCC Part 68, CTR21, FCC 15 Class B, Canadian ICES-003 Class B, C.I.S.P.R.22, Australian ACA, Mark, Other Countries	



Technical Specificati	ions	
	Data Mode Capabilities	56K modem (a-law, mu-law)
	•	V.8bis
		V.80
		V44, V.42bis, MNP5 (Compression)
		V.42 (LAPM, MNP2-4) (Error Correction)
		V.34 (file date: 10/96)
		Optional symbol rates:
		2800, 3429
		Asymmetric Symbol rates
		Synchronous primary channel data signaling rates:
		3600, 31200 Automatic rate re-negotiation
		V.32bis
		V.32
		V.23
		V.22bis
		V.22 V.21
		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.27 fer V.21 Channel 2
	Command Set	V.250 (Partial)
	Communa Jer	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
Broadcom 802.11b/g	Wireless LAN Standards	IEEE 802.11b
WLAN		IEEE 802.11g
	Interoperability	Wi-Fi certified
	· ·	Cisco Compatible Extensions Program compliant
		(details at <u>www.hp.com/go/notebooks/WLAN</u>)
	Frequency Band	2.4 GHz
	Data Rates	802.11b: 1, 2, 5.5, 11 Mbps 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps
	Modulation	Direct Sequence Spread Spectrum
		DBPSK, DQPSK, CCK, OFDM



Technical Specifications		
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.	
		Features (proven compatibility with Cisco Aironet bugh the Cisco Compatible Extensions Program).
Sub-channels	Multinational support with frequency bands and channels compliant to local regulations. CSMA/CA (Collision Avoidance) with ACK Ad-hoc (Peer to Peer) Infrastructure (Access Point Required)	
Media Access Protocol		
Network Architecture Models		
Roaming	IEEE 802.11 compliant roo	aming between access points.
Output Power (for CKK) ²	17.5 dBm +/- 1.5 dB	
Output Power (for OFDM; power varies by data rate) ²		
Power Consumption		
Power Management		
Receiver Sensitivity ³		
Antenna type		
Range	802.11 b – Typical (@1 Mbps) 802.11 g – Typical	1200 feet – Outdoor Open Area 300 feet – Indoor, Office environment 1200 feet – Outdoor Open Area
	(@1 Mbps)	300 feet – Indoor, Office environment
Form Factor	MiniPCI Type IIIB	
Weight	0.026 lb (12 g)	
Dimensions	0.20 x 1.75 x 2.34 in (4.9 x 44.6 x 59.8 mm)	
Operating Voltage	3.3v	
Temperature	Operating Non-operating	32° to 122° F (0° to 50° C) -14° to 158° F (-10° to 70° C)
Humidity	Operating Non-operating	10% to 90% (non-condensing) 5% to 95% (non-condensing)
Altitude	Operating Non-operating	0 to 15,000 ft (4,572 m) 0 to 40,000 ft (12,192 m)



Technical Specification	ons		
	Configuration Utility ⁴	on Utility ⁴ Choice of Configuration Utility:	
		 Microsoft Windows XP Wireless Network Connection Manager Broadcom Wireless Configuration Utility (required for Cisco Compatible Extensions support) 	
	 Maximum output po Receiver sensitivity is packet error rate of WLAN supplier's clie 	e/driver release for updates on supported security features. wer may vary by country according to local regulations. measured at a packet error rate of 8% for 802.11b (CKK modulation) and a 10% for 802.11a/g (OFDM modulation). nt utility is required for Cisco Compatible Extensions support. WLAN may also certain third-party software supplicants.	
Broadcom 802.11a/b/g WLAN	Wireless LAN Standards	IEEE 802.11a IEEE 802.11b IEEE 802.11g	
	Interoperability	Wi-Fi certified Cisco Compatible Exensions Program compliant (details at <u>www.hp.com/go/notebooks/WLAN</u>)	
	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).	
	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	17.5 dBm +/- 1.5 dB	
	Output Power (for OFDM; power varies by data rate) ²	13.5 dBm +/- 1.5 dB	
	Power Consumption	Transmit: 2.0 W (max) Receive: 1.5 W (max) Idle mode: 248 mW (nominal) Sleep mode: 20 mW (max)	
	Power Management	ACPI compliant power management 802.11 compliant power saving mode	
	Receiver Sensitivity ³	802.11a - 54 Mbps: -70 dBm; 802.11g - 54 Mbps: -72 dBm, 1 Mbps: -94 dBm	
	Antenna type	High efficiency dual band antenna with polarization diversity, mounted in the display enclosure	



Technical Specifications

1				
	Range	802.11 a – Typical	1000 feet – Outdoor Open Area	
		(@6 Mbps)	300 feet – Indoor, Office environment	
		802.11 b – Typical	1200 feet – Outdoor Open Area	
		(@1 Mbps)	300 feet – Indoor, Office environment	
		802.11 g – Typical (@1 Mbps)	1200 feet – Outdoor Open Area 300 feet – Indoor, Office environment	
	Form Factor	MiniPCI Type IIIA		
	Weight	0.035 lb (16 g)		
	Dimensions	0.19 x 2.00 x 2.35 in (4	4.8 x 50.95 x 59.75 mm)	
	Operating Voltage	3.3v		
	Temperature	Operating Non-operating	32° to 122° F (0° to 50° C) -14° to 158° F (-10° to 70° C)	
	Humidity	Operating Non-operating	10% to 90% (non-condensing) 5% to 95% (non-condensing)	
	Altitude	Operating Non-operating	0 to 15,000 ft (4,572 m) 0 to 40,000 ft (12,192 m)	
	Configuration Utility ⁴	Choice of Configuration	n Utility:	
		 Microsoft Window 	vs XP Wireless Network Connection Manager	
			ess Configuration Utility (required for Cisco	
	 Check latest software/driver release for updates on supported security features. Maximum output power may vary by country according to local regulations. 			
			rror rate of 8% for 802.11b (CKK modulation) and a	
	packet error rate of 10% for 802.11a/g (OFDM modulation). 4. WLAN supplier's client utility is required for Cisco Compatible Extensions support. WLAN may also			
		certain third-party softwar		
		. ,		
Intel PRO/Wireless 2200BG 802.11b/g	Wireless LAN Standards	IEEE 802.11b IEEE 802.11g		
WLAN	Interoperability	Wi-Fi certified		
	. ,	Cisco Compatible Exensions Program compliant (details at <u>http://www.hp.com/go/notebooks/wlan</u>)		
	Frequency Band	2.4 GHz		
	Data Rates	802.11b: 1, 2, 5.5, 11 Mbps 802.11g: 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).		
	Sub-channels	Multinational support w regulations.	ith frequency bands and channels compliant to local	
	Media Access Protocol	CSMA/CA (Collision Av	voidance) with ACK	



Technical Specifications

·				
	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			
	Output Power (for OFDM; power varies by data rate) ²			
	Power Consumption	Transmit: 1.8 Watts (max) Receive: 1.4 Watts (max) Idle mode: 75 mW (nomin Sleep mode: 60 mW	nal)	
	Power Management	ACPI compliant power mc 802.11 Compliant Power	•	
	Receiver Sensitivity ³	54 Mbps: -72 dBm, 11 M	bps: -88 dBm , 1 Mbps: -97 dBm	
	Antenna type	High efficiency dual band antenna with polarization diversity, mounted in display enclosure		
	Range	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	MiniPCI Type IIIB		
	Weight	0.026 lb (11.75 g) (max)		
	Dimensions	0.20 x 1.75 x 2.34 in (4.9 x 44.6 x 59.8 mm)		
	Operating Voltage	3.3v		
	Temperature	Operating Non-operating	32° to 158° F (0° to 70° 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 ⁴	Choice of Configuration Utility:		
	 Intel PROSet for Microsoft Windows 2000 or XP (required for Cisco Compatible Extensions support) Microsoft Windows XP Wireless Network Connection Manager 			
	 Check latest software/driver release for updates on supported security fee Maximum output power may vary by country according to local regulation Receiver sensitivity is measured at a packet error rate of 8% for 802.11b packet error rate of 10% for 802.11a/g (OFDM modulation). WLAN supplier's client utility is required for Cisco Compatible Extensions be compatible with certain third-party software supplicants. 		cording to local regulations. In rate of 8% for 802.11b (CKK modulation) and a M modulation). To Compatible Extensions support. WLAN may also	
Intel PRO/Wireless 2915ABG 802.11a/b/g WLAN	Wireless LAN Standards	IEEE 802.11a IEEE 802.11b IEEE 802.11g		
	Interoperability	Wi-Fi certified Cisco Compatible Exensic (details at <u>www.hp.com/g</u>		



802.1x authentication types EAP-TLS, EAP-TTLS, PEAP-GTC, PEAP-MSCHAPv2, LEAP, EAP-FAST.Support for Cisco Security Features (proven compatibility with Cisco infrastructure products through the Cisco Compatible Extensions ProSub-channelsMultinational support with frequency bands and channels compliant regulations.Media Access ProtocolCSMA/CA (Collision Avoidance) with ACKNetwork Architecture ModelsAd-hoc (Peer to Peer) Infrastructure (Access Point Required)RoamingIEEE 802.11 compliant roaming between access pointsOutput Power (for CKK)216 dBm +/- 2 dBOutput Power (for OFDM; rate)215 dBm +2/-5 dBPower ConsumptionTransmit: 1.8 Watts (max) Receive: 1.4 Watts (max) Idle mode: 100 mW (nominal) Sleep mode: 60 mW (max)Power Management 802.11 Compliant Power Saving ModeACPI compliant power Saving ModeReceiver Sensitivity354 Mbps: -72 dBm, 11 Mbps: -89 dBm, 1 Mbps: -97 dBm			
802.11a/g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps Modulation Direct Sequence Spread Spectrum DBPSK, DQPSK, CCK, OFDM Security1 Supports 64 - and 128-bit WEP, WPA, WPA2, hardware-accelerated 802.1x authentication types EAP-TLS, EAP-TTLS, PEAP-GTC, PEAP-MSCHAPv2, LEAP, EAP-FAST. Support for Cisco Security Features (proven compatibility with Cisco infrastructure products through the Cisco Compatible Extensions Promotions. Media Access Protocol CSMA/CA (Collision Avoidance) with ACK Network Architecture Ad-hoc (Peer to Peer) Models Infrastructure (Access Point Required) Roaming IEEE 802.11 compliant roaming between access points Output Power (for OFDM; 15 dBm +2/-5 dB power varies by data rate) ² Power Consumption Transmit: 1.8 Watts (max) Receive: 1.4 Watts (max) Idle mode: 100 mW (nominal) Sleep mode: 60 mW (max) Power Management ACPI compliant power management 802.11 Compliant power saving Mode Receiver Sensitivity3 54 Mbps: -72 dBm, 11 Mbps: -89 dBm, 1 Mbps: -97 dBm Antenna type High efficiency dual band antenna with polarization diversity, moun display enclosure Range 802.11 a – Typical 600 feet – Outdoor Open Area (@ Abps) (@1 Mbps) 300 feet – Indoor, Office environment 802.11 g – Typical 1200 feet – Outdoor Open Area (@ 1 Mbps) <td< th=""><th></th></td<>			
DBPSK, DQPSK, CCK, OFDMSecurity1Supports 64- and 128-bit WEP, WPA, WPA2, hardware-accelerated 802.1 x authentication types EAP-TLS, EAP-TTLS, PEAP-GTC, PEAP- MSCHAPv2, LEAP, EAP-FAST.Support for Cisco Security Features (proven compatibility with Cisco infrastructure products through the Cisco Compatibile Extensions ProSub-channelsMultinational support with frequency bands and channels compliant regulations.Media Access ProtocolCSMA/CA (Collision Avoidance) with ACK Ad-hoc (Peer to Peer) Infrastructure (Access Point Required)Notaver Architecture ModelsInfrastructure (Access Point Required)RoarningIEEE 802.11 compliant roarning between access pointsOutput Power (for OFDM; 15 dBm +/- 2 dB Output Power (for OFDM; 15 dBm +2/-5 dB power varies by data rate)2Power ConsumptionTransmit: 1.8 Watts (max) Receive: 1.4 Watts (max) Idle mode: 100 mW (nominal) Sleep mode: 60 mW (max)Power ManagementACPI compliant power management 802.11 compliant power Saving ModeReceiver Sensitivity354 Mbps: -72 dBm, 11 Mbps: -89 dBm, 1 Mbps: -97 dBmAntenna typeHigh efficiency dual band antenna with polarization diversity, moun display enclosureRange802.11 a - Typical (@1 Mbps)Got feet - Outdoor Open Area (@1 Mbps)300 feet - Indoor, Office environment 802.11 g - Typical 1200 feet - Outdoor Open Area (@1 Mbps)Form FactorMiniPCI Type IIIB MisplayWeight0.026 lb (11.75 gm) (max) DimensionsOperating Voltage3.3 v +/- 10%TemperatureOperating A: v-1.0 %			
802.1x authentication types EAP-TLS, EAP-TTLS, PEAP-GTC, PEAP-MSCHAPv2, LEAP, EAP-FAST. Sub-channels Support for Cisco Security Features (proven compatibility with Cisco infrastructure products through the Cisco Compatible Extensions Prospective) Sub-channels Multinational support with frequency bands and channels compliant regulations. Media Access Protocol CSMA/CA (Collision Avoidance) with ACK Network Architecture Ad-hoc (Peer to Peer) Models Infrastructure (Access Point Required) Roarning IEEE 802.11 compliant roarning between access points Output Power (for OFDM; 15 dBm +/- 2 dB power varies by data rate) ² Transmit: 1.8 Watts (max) Receive: 1.4 Watts (max) Receive: 1.4 Watts (max) Idle mode: 100 mW (nominal) Sleep mode: 60 mW (max) Power Management ACPI compliant power management 802.11 a Compliant power saving Mode S4 Mbps: -72 dBm, 11 Mbps: -89 dBm, 1 Mbps: -97 dBm Antenna type High efficiency dual band antenna with polarization diversity, moundisplay enclosure Range 802.11 a Typical 600 feet - Outdoor Open Area (@1 Mbps) 300 feet - Indoor, Office environment 802.11 g - Typical 1200 feet - Outdoor Open Area (@1 Mbps) 300 feet - Indoor, Office environment	Direct Sequence Spread Spectrum		
Sub-channelsinfrastructure products through the Čisco Compatible Extensions ProSub-channelsMultinational support with frequency bands and channels compliant regulations.Media Access ProtocolCSMA/CA (Collision Avoidance) with ACKNetwork Architecture ModelsAd-hoc (Peer to Peer) Infrastructure (Access Point Required)RoamingIEEE 802.11 compliant roaming between access pointsOutput Power (for OFDM; power varies by data rate)216 dBm +/- 2 dBPower ConsumptionTransmit: 1.8 Watts (max) Receive: 1.4 Watts (max) Idle mode: 100 mW (nominal) Sleep mode: 60 mW (max)Power ManagementACPI compliant power waragement 802.11 compliant Power Saving ModeReceiver Sensitivity354 Mbps: -72 dBm, 11 Mbps: -89 dBm, 1 Mbps: -97 dBmAntenna typeHigh efficiency dual band antenna with polarization diversity, mount display enclosureRange802.11 a - Typical (@ Mbps)600 feet - Outdoor Open Area (@ Mbps)802.11 g - Typical (@ 1 Mbps)300 feet - Indoor, Office environment 802.11 g - Typical (@ 1 Mbps)802.11 g - Typical (@ 1 Mbps)1200 feet - Outdoor Open Area (@ 1 Mbps)Weight0.202 k 1.75 x 2.34 in (4.9 x 44.6 x 59.8 mm)Operating Voltage3.3 v +/- 10%TemperatureOperating -40° to 176° F (-40° to 80° C) Non-operating			
regulations.Media Access ProtocolCSMA/CA (Collision Avoidance) with ACKNetwork ArchitectureAd-hoc (Peer to Peer)ModelsInfrastructure (Access Point Required)RoamingIEEE 802.11 compliant roaming between access pointsOutput Power (for CKK)216 dBm +/- 2 dBOutput Power (for CFDM;15 dBm +2/-5 dBpower varies by datarate)2Power ConsumptionTransmit: 1.8 Watts (max) Receive: 1.4 Watts (max) Idle mode: 100 mW (nominal) Sleep mode: 60 mW (max)Power Management802.11 Compliant Power Saving ModeReceiver Sensitivity354 Mbps: -72 dBm, 11 Mbps: -89 dBm , 1 Mbps: -97 dBmAntenna typeHigh efficiency dual band antenna with polarization diversity, moundisplay enclosureRange802.11 a – Typical (@ Mbps)600 feet – Outdoor Open Area (@ Mbps)S0.11 b – Typical1200 feet – Indoor, Office environment 802.11 b – Typical1200 feet – Outdoor Open Area (@ 1 Mbps)Form FactorMinPCI Type IIIBWeight0.026 lb (11.75 gm) (max)Dimensions0.20 x 1.75 x 2.34 in (4.9 x 44.6 x 59.8 mm)Operating 0 % to 176° F (0° to 80° C) Non-operating			
Network Architecture ModelsAd-hoc (Peer to Peer) Infrastructure (Access Point Required)RoamingIEEE 802.11 compliant roaming between access pointsOutput Power (for CKK)216 dBm +/- 2 dBOutput Power (for OFDM; power varies by data rate)215 dBm +2/-5 dBPower ConsumptionTransmit: 1.8 Watts (max) Receive: 1.4 Watts (max) Idle mode: 100 mW (nominal) Sleep mode: 60 mW (max)Power Management 802.11 Compliant power waring between access pointsPower Sensitivity354 Mbps: -72 dBm, 11 Mbps: -89 dBm, 1 Mbps: -97 dBmAntenna typeHigh efficiency dual band antenna with polarization diversity, moun display enclosureRange802.11 a - Typical (@6 Mbps)600 feet - Outdoor Open Area (@6 Mbps)Gil Mbps300 feet - Indoor, Office environment 802.11 b - Typical1200 feet - Outdoor Open Area (@1 Mbps)Form FactorMiniPCI Type IIIBWeight0.026 lb (11.75 gm) (max)Dimensions0.20 x 1.75 x 2.34 in (4.9 x 44.6 x 59.8 mm)Operating Voltage3.3 v +/- 10%TemperatureOperating32° to 176° F (0° to 80° C) -40° to 176° F (-40° to 80° C)	nt to local		
ModelsInfrastructure (Access Point Required)RoamingIEEE 802.11 compliant roaming between access pointsOutput Power (for CKK)216 dBm +/- 2 dBOutput Power (for OFDM;15 dBm +2/-5 dBpower varies by data rate)2Transmit: 1.8 Watts (max) Receive: 1.4 Watts (max) Idle mode: 100 mW (nominal) Sleep mode: 60 mW (max)Power ConsumptionTransmit: 1.8 Watts (max) Receive: 1.4 Watts (max) Idle mode: 100 mW (nominal) Sleep mode: 60 mW (max)Power ManagementACPI compliant power management 802.11 Compliant Power Saving ModeReceiver Sensitivity354 Mbps: -72 dBm, 11 Mbps: -89 dBm, 1 Mbps: -97 dBmAntenna type802.11 a - Typical (@6 Mbps)600 feet - Outdoor Open Area (@6 Mbps)Range802.11 a - Typical (@6 Mbps)1200 feet - Outdoor Open Area (@1 Mbps)Form FactorMiniPCI Type IIIBWeight0.026 lb (11.75 gm) (max)Dimensions0.20 x 1.75 x 2.34 in (4.9 x 44.6 x 59.8 mm)Operating Voltage32° to 176° F (0° to 80° C) Non-operatingOperating32° to 176° F (-40° to 80° C)			
Output Power (for CKK)216 dBm +/- 2 dBOutput Power (for OFDM; 15 dBm +2/-5 dBpower varies by data rate)2Power ConsumptionTransmit: 1.8 Watts (max) Receive: 1.4 Watts (max) Idle mode: 100 mW (nominal) Sleep mode: 60 mW (max)Power ManagementACPI compliant power management 802.11 Compliant Power Saving ModeReceiver Sensitivity354 Mbps: -72 dBm, 11 Mbps: -89 dBm , 1 Mbps: -97 dBmAntenna typeHigh efficiency dual band antenna with polarization diversity, moun display enclosureRange802.11 a - Typical (@ 6 Mbps)600 feet - Outdoor Open Area (@ 6 Mbps)Ronge802.11 b - Typical (@ 1 Mbps)1200 feet - Outdoor Open Area (@ 1 Mbps)Form FactorMiniPCI Type IIIBWeight0.026 lb (11.75 gm) (max)Dimensions0.20 x 1.75 x 2.34 in (4.9 x 44.6 x 59.8 mm)Operating Voltage3.3v +/- 10%TemperatureOperating A0° to 176° F (-40° to 80° C) -40° to 176° F (-40° to 80° C)			
Output Power (for CKK)216 dBm +/- 2 dBOutput Power (for OFDM; 15 dBm +2/-5 dBpower varies by data rate)2Power ConsumptionTransmit: 1.8 Watts (max) Receive: 1.4 Watts (max) Idle mode: 100 mW (nominal) Sleep mode: 60 mW (max)Power ManagementACPI compliant power management 802.11 Compliant Power Saving ModeReceiver Sensitivity354 Mbps: -72 dBm, 11 Mbps: -89 dBm , 1 Mbps: -97 dBmAntenna typeHigh efficiency dual band antenna with polarization diversity, moun display enclosureRange802.11 a - Typical (@ 6 Mbps)600 feet - Outdoor Open Area (@ 6 Mbps)Ronge802.11 b - Typical (@ 1 Mbps)1200 feet - Outdoor Open Area (@ 1 Mbps)Form FactorMiniPCI Type IIIBWeight0.026 lb (11.75 gm) (max)Dimensions0.20 x 1.75 x 2.34 in (4.9 x 44.6 x 59.8 mm)Operating Voltage3.3v +/- 10%TemperatureOperating A0° to 176° F (-40° to 80° C) -40° to 176° F (-40° to 80° C)			
power varies by data rate)2Transmit: 1.8 Watts (max) Receive: 1.4 Watts (max) Idle mode: 100 mW (nominal) Sleep mode: 60 mW (max)Power ManagementACPI compliant power management 802.11 Compliant Power Saving ModeReceive: Sensitivity354 Mbps: -72 dBm, 11 Mbps: -89 dBm , 1 Mbps: -97 dBmAntenna typeHigh efficiency dual band antenna with polarization diversity, moun display enclosureRange802.11 a - Typical (@6 Mbps)600 feet - Outdoor Open Area (@6 Mbps)Box 11 b - Typical (@1 Mbps)1200 feet - Outdoor Open Area (@1 Mbps)300 feet - Indoor, Office environment 802.11 g - TypicalForm FactorMiniPCI Type IIIB300 feet - Indoor, Office environment 802.11 75 gm) (max)Dimensions0.20 x 1.75 x 2.34 in (4.9 x 44.6 x 59.8 mm)Operating Voltage32° to 176° F (0° to 80° C) Non-operating-40° to 176° F (-40° to 80° C)			
Receive: 1.4 Watts (max) Idle mode: 100 mW (nominal) Sleep mode: 60 mW (max)Power ManagementACPI compliant power management 802.11 Compliant Power Saving ModeReceiver Sensitivity354 Mbps: -72 dBm, 11 Mbps: -89 dBm , 1 Mbps: -97 dBmAntenna typeHigh efficiency dual band antenna with polarization diversity, mound display enclosureRange802.11 a - Typical (@6 Mbps)600 feet - Outdoor Open Area (@6 Mbps)802.11 b - Typical (@1 Mbps)1200 feet - Outdoor Open Area (@1 Mbps)1200 feet - Outdoor Open Area (@1 Mbps)Form FactorMiniPCI Type IIIB1200 feet - Indoor, Office environment 300 feet - Indoor, Office environment 0.20 k 1.75 x 2.34 in (4.9 x 44.6 x 59.8 mm)Operating Voltage3.3v +/- 10%22° to 176° F (0° to 80° C) Non-operating			
802.11 Compliant Power Saving ModeReceiver Sensitivity354 Mbps: -72 dBm, 11 Mbps: -89 dBm , 1 Mbps: -97 dBmAntenna typeHigh efficiency dual band antenna with polarization diversity, moundisplay enclosureRange802.11 a - Typical (@6 Mbps)600 feet - Outdoor Open Area (@6 Mbps)802.11 b - Typical (@1 Mbps)600 feet - Outdoor Open Area (@1 Mbps)802.11 b - Typical 300 feet - Indoor, Office environment 802.11 g - Typical (@1 Mbps)Form FactorMiniPCI Type IIIBWeight0.026 lb (11.75 gm) (max)Dimensions0.20 x 1.75 x 2.34 in (4.9 x 44.6 x 59.8 mm)Operating Voltage3.3v +/- 10%TemperatureOperating -40° to 176° F (0° to 80° C) -40° to 176° F (-40° to 80° C)	Receive: 1.4 Watts (max) Idle mode: 100 mW (nominal)		
Antenna typeHigh efficiency dual band antenna with polarization diversity, mound display enclosureRange $802.11 a - Typical$ (@6 Mbps) $600 feet - Outdoor Open Area$ 150 feet - Indoor, Office environment 			
Rangedisplay enclosureRange $802.11 a - Typical$ $600 \text{ feet} - Outdoor Open Area}$ $(@6 \text{ Mbps})$ $150 \text{ feet} - Indoor, Office environment}$ $802.11 b - Typical$ $1200 \text{ feet} - Outdoor Open Area}$ $(@1 \text{ Mbps})$ $300 \text{ feet} - Indoor, Office environment}$ $802.11 g - Typical$ $1200 \text{ feet} - Outdoor Open Area}$ $(@1 \text{ Mbps})$ $300 \text{ feet} - Indoor, Office environment}$ $802.11 g - Typical$ $1200 \text{ feet} - Outdoor Open Area}$ $(@1 \text{ Mbps})$ $300 \text{ feet} - Indoor, Office environment}$ $802.11 g - Typical$ $1200 \text{ feet} - Outdoor Open Area}$ $(@1 \text{ Mbps})$ $300 \text{ feet} - Indoor, Office environment}$ Form FactorMiniPCI Type IIIBWeight $0.026 \text{ lb} (11.75 \text{ gm}) (max)$ Dimensions $0.20 \times 1.75 \times 2.34 \text{ in} (4.9 \times 44.6 \times 59.8 \text{ mm})$ Operating Voltage $3.3v + /- 10\%$ TemperatureOperating $32^\circ \text{ to } 176^\circ \text{ F} (0^\circ \text{ to } 80^\circ \text{ C})$ Non-operating $-40^\circ \text{ to } 176^\circ \text{ F} (-40^\circ \text{ to } 80^\circ \text{ C})$			
$ \begin{array}{c} (@6 \text{ Mbps}) & 150 \text{ feet} - \text{Indoor, Office environment} \\ 802.11 \text{ b} - \text{Typical} & 1200 \text{ feet} - \text{Outdoor Open Area} \\ (@1 \text{ Mbps}) & 300 \text{ feet} - \text{Indoor, Office environment} \\ 802.11 \text{ g} - \text{Typical} & 1200 \text{ feet} - \text{Outdoor Open Area} \\ (@1 \text{ Mbps}) & 300 \text{ feet} - \text{Indoor, Office environment} \\ \hline 802.11 \text{ g} - \text{Typical} & 1200 \text{ feet} - \text{Outdoor Open Area} \\ (@1 \text{ Mbps}) & 300 \text{ feet} - \text{Indoor, Office environment} \\ \hline 802.11 \text{ g} - \text{Typical} & 1200 \text{ feet} - \text{Outdoor Open Area} \\ (@1 \text{ Mbps}) & 300 \text{ feet} - \text{Indoor, Office environment} \\ \hline \\ $	High efficiency dual band antenna with polarization diversity, mounted in the display enclosure		
(@1 Mbps) $300 \text{ feet} - \text{Indoor, Office environment}$ $802.11 \text{ g} - \text{Typical}$ $1200 \text{ feet} - \text{Outdoor Open Area}$ $802.11 \text{ g} - \text{Typical}$ $1200 \text{ feet} - \text{Outdoor Open Area}$ $(@1 \text{ Mbps})$ $300 \text{ feet} - \text{Indoor, Office environment}$ Form FactorMiniPCI Type IIIBWeight $0.026 \text{ lb} (11.75 \text{ gm}) (\text{max})$ Dimensions $0.20 \times 1.75 \times 2.34 \text{ in } (4.9 \times 44.6 \times 59.8 \text{ mm})$ Operating Voltage $3.3v + /-10\%$ TemperatureOperating $32^\circ \text{ to } 176^\circ \text{ F} (0^\circ \text{ to } 80^\circ \text{ C})$ Non-operating $-40^\circ \text{ to } 176^\circ \text{ F} (-40^\circ \text{ to } 80^\circ \text{ C})$			
Form Factor MiniPCI Type IIIB Weight 0.026 lb (11.75 gm) (max) Dimensions 0.20 x 1.75 x 2.34 in (4.9 x 44.6 x 59.8 mm) Operating Voltage 3.3v +/- 10% Temperature Operating 32° to 176° F (0° to 80° C) Non-operating			
Weight 0.026 lb (11.75 gm) (max) Dimensions 0.20 x 1.75 x 2.34 in (4.9 x 44.6 x 59.8 mm) Operating Voltage 3.3v +/- 10% Temperature Operating 32° to 176° F (0° to 80° C) Non-operating			
Dimensions 0.20 x 1.75 x 2.34 in (4.9 x 44.6 x 59.8 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)			
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)			
Temperature Operating 32° to 176° F (0° to 80° C) Non-operating -40° to 176° F (-40° to 80° C)			
Non-operating 5% to 95% (non-condensing)			
Altitude Operating 0 to 10,000 ft (3,048 m) Non-operating 0 to 50,000 ft (15,240 m)			



Technical Specifi	cations			
	Configuration Utility ⁴	Choice of Configuration Utility:		
		 Intel PROSet for Microsoft Windows 2000 or XP (required for Cisco Compatible Extensions support) Microsoft Windows XP Wireless Network Connection Manager 		
	 Maximum output p Receiver sensitivity packet error rate of WLAN supplier's cli 	are/driver release for updates on supported security features. ower may vary by country according to local regulations. is measured at a packet error rate of 8% for 802.11b (CKK modulation) and a f 10% for 802.11a/g (OFDM modulation). ient utility is required for Cisco Compatible Extensions support. WLAN may also certain third-party software supplicants.		
Bluetooth by HP	Name	HP Integrated module with Bluetooth wireless technology		
	Bluetooth Specification	1.2 Compliant		
	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 channels	79 (1 MHz) available channels		
	Data Rates and	1 Mbps data rate; throughput up to 720 Kbps		
	throughput	Synchronous Connection Oriented links up to 3, 64 kbps, voice channels		
		Asynchronous Connection Less links 723.2 kbps/57.6 kbps asymmetric or 433.9 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 1.1 compliant		
		Microsoft Windows Plug and Play compliant		
	OS Support	Microsoft Windows XP Professional and Home		
		Microsoft Windows 2000		
	Bluetooth Software	Widcomm 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

Temperature	Operating	-4° to 158° F (-20° to 70° C)		
	Non-operating	-40° to 176° F (-40° to 80° C)		
Humidity	Operating	10% to 90%		
	Non-operating	5% to 95%		
Altitude	Operating	15,000 ft (4,572 m)		
	Non-operating	40,000 ft (12,192 m)		
Bluetooth Profiles	files (with Bluetooth for Windows 4.0 software)			
Supported	Serial Port Profile (SPP)*	Serial Port Profile (SPP)*		
	Dial-Up Networking (DUI	Dial-Up Networking (DUN)*		
	Generic Object Exchange Profile (GOEP) Object Push Profile (OPP)*			
	File Transfer Profile (FTP)			
	Synchronization Profile (SYNC) Hard Copy Cable Replacement (HCRP)* Personal Area Networking Profile (PAN)*			
	Human Interface Device I	Profile (HID)*		
	FAX Profile (FAX)			
	Basic Imaging Profile (BIP)			
	Headset Profile (HSP)			
	Hands Free Profile (HFP)			
	Advanced Audio Distribution Profile (A2DP)			
st indicates the profile is also supported by Microsoft Windows XP SP2				

Copyright © 2005 Hewlett-Packard Development Company, L.P.

All rights reserved. Microsoft, Windows and Windows XP are registered trademarks or trademarks of Microsoft Corporation in the U.S. and/or other countries. Pentium, Celeron, Centrino, and SpeedStep are registered trademarks or trademarks of Intel Corporation in the U.S. and/or other countries. Bluetooth is a registered trademark of Bluetooth SIG, Inc., in the U.S. and other countries. All other product names mentioned herein may be trademarks of their respective companies.

The information contained herein is subject to change without notice and is provided "as is" without warranty of any kind. The warranties for HP products are set forth in the express limited warranty statements accompanying such products. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein.

