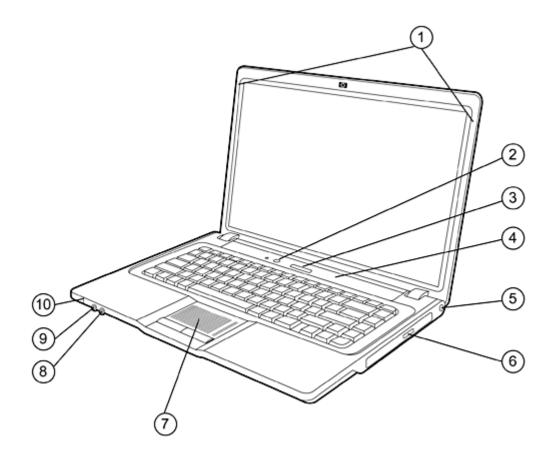
#### Overview

HP recommends Windows Vista® Business

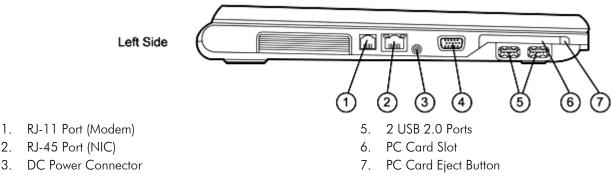


- 1. Dual-band Wireless LAN Antennas\*
- 2. Wireless On/Off Button with LED\*
- 3. Power Button with LED
- 4. Speaker
- 5. Kensington Lock Slot
- \* Select models only

- 6. Optical Drive
- 7. Touchpad with Scroll Zone
- 8. Microphone Jack
- 9. Headphone Jack
- 10. Battery LED



#### Overview



4. VGA/External Monitor Connector

#### At A Glance

- Genuine Windows Vista Business 32, Genuine Windows Vista Home Basic 32
- Genuine Windows XP Professional supported SuSe Linux Enterprise Desktop 10 certified
- Intel® Core<sup>™</sup> Duo processor or Intel Celeron® processor
- 15.4-inch WXGA BrightView Display
- Sleek industrial design starting at 6 lb/2.7 kg and 1.26 inch/31.9 mm thin at front
- Mobile Intel 945GME Express Chipset or Mobile Intel 940GME Express Chipset
- Supports up to 2 GB of DDR2 SDRAM
- 120/160-GB 5400 rpm SATA hard drive
- Intel Graphics Media Accelerator 950, up to 224-MB shared system memory
- Integrated 802.11 a/b/g or b/g wireless LAN module\*
- Intel Centrino® Duo processor technology\*
- Intel 82562GT 10/100 Network Connection
- Touchpad with scroll zone
- \* Select models only



#### Select Models

<b>HP 530</b> KD097AT#ABA	Processor	Intel Core Duo Processor T2400 (1.83-GHz, 667-MHz FSB, 2-MB L2 cache) <sup>1</sup>
Smart Buy	Intel Centrino Duo processor technology	Enabled
	Operating System	Genuine Windows Vista <sup>6</sup> Business 32
	Chipset	Mobile Intel 945GME Express Chipset
	System Memory	1024-MB 667-MHz DDR2 SDRAM in one slot Two SODIMM slots; supported memory 2048 MB <sup>2</sup>
	Hard Drive	120-GB <sup>3</sup> 5400 rpm SMART SATA
	Removable Media	DVD+/-RW SuperMulti DL Drive
	Display	15.4-inch WXGA BrightView (1280 x 800 resolution) VGA port supports resolutions up to 2048 x 1536 at 75 Hz, and lower resolutions at up to 100 Hz <sup>4</sup>
	Graphics	Intel Graphics Media Accelerator 950, up to 224-MB shared system memory
	Audio	Conexant CX20549 Integrated speaker Stereo headphone/line out Microphone in
	Communications	Intel 82562GT 10/100 Network Connection Conexant CX20548-11 56K modem <sup>5</sup>
	Integrated Wireless	Intel PRO/Wireless 3945ABG Network Connection 802.11a/b/g
	Pointing Device	Touchpad with scroll zone, two soft-touch pick buttons
	Battery	4-cell (32 WHr) Lithium-Ion
	Power	External 65W adapter
	Warranty	1/1/0
HP 530	Processor	Intel Celeron Processor 520 (1.60-GHz, 533-MHz FSB, 1-MB L2 cache) <sup>1</sup>
KP497U9#ABA	Operating System	Genuine Windows Vista Home Basic 32
Smart Buy	Chipset	Mobile Intel 940GME Express Chipset
	System Memory	1024-MB 533/667-MHz DDR2 SDRAM Two SODIMM slots; supported memory 2048 MB <sup>2</sup> Operates at a maximum of 533-MHz with 667-MHz memory
	Hard Drive	120-GB <sup>3</sup> 5400 rpm SMART SATA
	Removable Media	DVD/CD-RW Combo Drive
	Display	15.4-inch WXGA BrightView (1280 x 800 resolution) VGA port supports resolutions up to 2048 x 1536 at 75 Hz, and lower resolutions at up to 100 Hz <sup>4</sup>
	Graphics	Intel Graphics Media Accelerator 950, up to 224-MB shared system memory
	Audio	Conexant CX20549 Integrated speaker Stereo headphone/line out Microphone in
	Communications	Intel 82562GT 10/100 Network Connection Conexant CX20548-11 56K modem <sup>5</sup>



Select Models

#### HP 530 Notebook PC

	Integrated Wireless Pointing Device Battery Power	Broadcom WMIB184G 802.11b/g Touchpad with scroll zone, two soft-touch pick buttons 4-cell (32 WHr) Lithium-Ion External 65W adapter
	Warranty	1/1/0
	Accessory	HP Basic Carrying Case
<b>HP 530</b> KP482AT#ABA	Processor	Intel Core Duo Processor T2600 (2.16-GHz, 667-MHz FSB, 2-MB L2 cache) <sup>1</sup>
Smart Buy	Intel Centrino Duo processor technology	Enabled
	Operating System	Genuine Windows Vista Business 32
	Chipset	Mobile Intel 945GME Express Chipset
	System Memory	1024-MB 667-MHz DDR2 SDRAM Two SODIMM slots; supported memory 2048 MB <sup>2</sup>
	Hard Drive	160-GB <sup>3</sup> 5400 rpm SMART SATA
	Removable Media	DVD+/-RW SuperMulti DL Drive
	Display	15.4-inch WXGA BrightView (1280 x 800 resolution) VGA port supports resolutions up to 2048 x 1536 at 75 Hz, and lower resolutions at up to 100 Hz <sup>4</sup>
	Graphics	Intel Graphics Media Accelerator 950, up to 224-MB shared system memory
	Audio	Conexant CX20549 Integrated speaker Stereo headphone/line out Microphone in
	Communications	Intel 82562GT 10/100 Network Connection Conexant CX20548-11 56K modem <sup>5</sup>
	Integrated Wireless	Intel PRO/Wireless 3945ABG Network Connection 802.11a/b/g
	Pointing Device	Touchpad with scroll zone, two soft-touch pick buttons
	Battery	4-cell (32 WHr) Lithium-Ion
	Power	External 65W adapter
	Warranty	1/1/0

- 1. Intel's numbering system is not a measurement of higher performance. Processor speed denotes maximum performance mode; processors will run at lower speeds in battery optimization mode.
- 2. Due to the non-industry standard nature of some third-party memory modules, we recommend HP branded memory to ensure compatibility.
- 3. GB = 1 billion bytes. Actual available capacity is less. Up to 8-GB of memory is reserved for system recovery software.
- 4. Resolutions are dependent upon monitor capability, and resolution and color depth settings.
- 5. Designed for downloads from 56K modem compliant sources. Maximum achievable download transmission rates currently do not reach 56 KB/s, and will vary with line conditions. Modem availability is subject to country regulatory approval.
- 6. Certain Windows Vista product features require advanced or additional hardware. See http://www.microsoft.com/windowsvista/getready/hardwarereqs.mspx and http://www.microsoft.com/windowsvista/getready/capable.mspx for details. Windows Vista Upgrade Advisor can help you determine which features of Windows Vista will run on your computer. To download the tool, visit http://www.windowsvista.com/upgradeadvisor.



### Standard Features

Keyboard	The 101/102-key compatible keyboard features an industry standard, full-pitch key layout with desktop keyboard features, such as the isolated inverted-T cursor control keys, editing keys, both left and right control and alt keys, and 12 function keys. International key layouts are available. Other features include an integrated numeric keypad, hotkeys for instant access to power conservation, brightness, and other features, 19-mm x 19-mm key pitch (center-to-center spacing), 2.5-mm stroke, comfort-dished keycaps, and bright key legends for improved visibility in low light conditions.			
Expansion Card Slots	One Type I/II PC Card slot	Supports 32-bit CardBus and 16-bit PC Cards		
Interfaces	PC Card Slot External Monitor	One Type I/II One – VGA		
	External Microphone	One		
	Headphone/Line out Power Connector	One		
		One One		
	<b>RJ-11</b> (Modem) <b>RJ-45</b> (NIC)	One		
	USB 2.0	Two		
	LED Status Indicators	Five		
Software	Preinstalled Software with Windows Vista	ith Adobe Acrobat Reader HP Backup and Recovery Manager HP Help and Support Center Roxio Creator Basic 9 Synaptics Touchpad Driver Symantec Norton Internet Security 2007 with complimentary 60-day live update Intervideo WinDVD – DVD Player		
HP Backup and Recovery Manager	provide data and system fil becomes corrupted or if im Manager can perform sche Up to 8GB of the hard driv	with HP Backup and Recovery Manager. HP Backup and Recovery Manager can stem file protection for HP business PCs to enable fast recovery if the system or if important information is accidentally deleted. HP Backup and Recovery m scheduled or manual backups of the entire drive or individual files and folders. Ird drive is reserved for the system recovery software. HP Backup and Recovery reate software recovery CDs or DVDs (requires optional hardware).		
SMBIOS Version 2.3	System Management BIOS information.	rstem Management BIOS, previously known as DMI BIOS, is used to store system management formation.		



Standard Features

#### HP 530 Notebook PC

Security	Standard Features	Configuration Control Hardware Memory Change Alert Ownership Tag Setup Password Power-On Password DriveLock Kensington Lock Slot	
	For more information on	HP security solutions refer to http://www.hp.com/go/security.	
Power Supply	External 65-watt 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*		
* Fast Charge recharge	s your battery up to 90% with	nin 90 minutes when the system is off.	
Battery	4-cell (32 WHr) high capacity Lithium-Ion		
Power Conservation	Hibernation Standby ACPI compliance		
Service and Support	1-year limited warranty c NOTE: Certain restrictio	HP Services offers limited 1-year warranty options depending on country; 1-year limited warranty on primary battery. 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.	



### Options

Memory	512-MB 667-MHz DDR2 SDRAM* 1024-MB 667-MHz DDR2 SDRAM* * Models with Mobile Intel 940GME Express Chipset use this memory at a maximum memory speed of 533-MHz.	ЕМ99ЗАА ЕМ994АА
Other Storage	HP USB Diskette Drive	DC361B
Power	65W Smart AC Adapter	ED494AA#ABA
	Primary 8-cell Battery	RW557AA
Carrying Cases	HP Value Nylon Case	RR314AA
	HP Universal Nylon Case	RR315AA
	HP Executive Leather case	RR316AA
	HP Deluxe Nylon Backpack	RR317AA
Security	HP/Kensington Cable Lock	PC766A
Input/Output Devices	USB Keyboard & Mouse Bundle	RC465AA#ABA
	HP USB Optical Travel Mouse	RH304AA

	<b>C</b>			2.10.	
	System Unit	Dimensions (HxWxD)	1.26 (at front) x 14.09 x 10 35.9 (at front) x 357.9 x 22		
		Weight	Starting at 6.0 lb (2.7 kg)		
		<b>NOTE:</b> Height varies depending upon where on the notebook the measurement is made. Weight varies by configuration and components. Weight includes 4-cell battery, 80-GB hard drive, 512-MB memory, and optical drive. Weight varies by configuration and components.			
		Stand-Alone Power Requirements	Normal Operating Voltage	18.5 V	
			Average Operating Power	12.5 W	
		Max Operating Power	< 65 W		
		Temperature	Operating	$32^\circ$ to $95^\circ$ F (0° to $35^\circ$ 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	FCC Compliance	Yes	
			CCC	Yes	
			CE Marking Compliance	Yes	
			BNCI or BELLIS	Yes	
			CIT	Yes	
			GOST	Yes	
			Saudi Arabian Compliance (ICCP)	Yes	
			SABS	Yes	
			UKRSERTCOMPUTER	Yes	



Technical Specificati	ons		
65W AC Adapter	Dimensions Weight Input Output	4.17 x 1.85 x 1.1 in (10.0 0.62 lb (280 g) 100 to 240 VAC Input Efficiency Input frequency range Input AC current Output power 65W DC output	6 x 4.7 x 2.8 cm) 83% min at 115 VAC 47 to 63 Hz 1.7 A at 90 VAC, 0.85 A at 180 VAC 65W 18.5V
		Hold-up time Output current limit	5 msec at 115 VAC input <5A, Over voltage protection- 29V max automatic shutdown
	Connector	3 pin/grounded, mates w	
	Environmental Design	Operating temperature	32° to 104° F (0° to 40° C)
	, i i i i i i i i i i i i i i i i i i i	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	standards - IEC950, EN6 C-UL-US, NORDICS, DE1	e with LVD and EMC directives; Worldwide safety 0950, UL1950, Class2, SELV; Agency approvals - NAN, EN55022 Class B, FCC Class B, CISPR22 IYCE; MTBF - over 200,000 hours at 25°C
32 WHr Primary 4-Cell	Dimensions (H $\times$ W $\times$ L)	0.8 x 1.6 x 10.6 in (2.4 x 4.0 x 26.9 cm)	
Battery	Weight	0.50 lb (0.225 kg)	
	Cells/Type	4-cell Lithium-Ion	
	Energy	Voltage	14.4 V
		Watt-hour Capacity	32Wh
		Amp-hour Capacity	2.2Ah
	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 1.5 hours when system is OFF



### Technical Specifications

15.4-inch WXGA	Active Area (W x H)	13.0 x 8.1 in (33.1 x 20.7 cm)	
BrightView	Diagonal Size	15.4 in (39.1 cm)	
	Surface Treatment	BrightView 300:1 (typical) 60 Hz	
	Contrast Ratio		
	Refresh Rate		
	Brightness	200 nit (typical)	
	Pixel Resolution	Pitch	0.259 mm
		Format	1280 x 800
		Configuration	RGB stripe
	Backlight	CCFL	
	PPI	98	
	Viewing Angle	$\pm 30^{\circ}$ Horizontal, $\pm 10^{\circ}$ V	ertical (minimum)

#### Hard Drives

160-GB 5400 rpm SATA	Drive Weight	0.22 lb (101 g)	
100-OB 3400 Ipin 3/0/	Capacity	160 GB	
	Height	0.37 in (9.5 mm)	
	0		
	Width	2.75 in (70 mm)	
	Interface	ATA-7 / SATA 1.0a	
	Transfer Rate	Synchronous (maximum)	100 MB/s (Drive Capability)
	Seek Time	Single Track	3 ms
	(typical reads, including	Average	13 ms
	settling)	Maximum	24 ms
	Rotational Speed	5400 rpm	
	Logical Blocks	312,581,808	
	Operating Temperature	41° to 131° F (5° to 55° C	C)
	Features	ATA Security	



### Technical Specifications

120-GB 5400 rpm SATA	Drive Weight	0.22 lb (101 g)	
	Capacity	120 GB	
	Height	0.37 in (9.5 mm)	
	Width	2.75 in (70 mm)	
	Interface	ATA-7 / SATA 1.0a	
	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	234,441,648	
	Operating Temperature	<b>rre</b> 41° to 131° F (5° to 55° C)	
Features		ATA Security	

#### Removable Storage Drives – Fixed Bay

DVD/CD-RW Combo Drive	Access Times	Random	<110 ms CD <130 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-I MODE CD, CD-I, CD-I Bridge (Photo-CD, Vi		MIDI, 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)	CD-R, CD-RW	
	<b>Max Media Capacity</b> (read)	8.5 GB	
	<b>Max Media Capacity</b> (write)	700 MB	
	Transport Tray loading		



Technical Specifications

HP 530 Notebook PC

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DVD+/-RW SuperMulti DL Drive	Access Times	Random	<175 ms CD	
DL DIIVE			<230 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	
		8X DVD+R	10,800 KB/s	
		4X DVD+RW	5,400 KB/s	
		8X DVD-R	10,800 KB/s	
		4X DVD-RW	5,400 KB/s	
		2.4X DVD+R(9)	2,700 KB/s	
		5X DVD-RAM	6,750 KB/s	
	Transfer Mode	Multiword DMA Mode		
	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, DVD-RAM		
	Supported Media (write)	CD-R, CD-RW, DVD+R, DVD+RW, DVD-R, DVD-RW, DVD-RAM		
	<b>Max Media Capacity</b> (read)	8.5 GB		
	<b>Max Media Capacity</b> (write)	8.5 GB		
	Transport	Tray Loading		
Audio				
Hardware	Implementation	Conexant CX20549		
	Full Duplex	Yes		
	Sound Blaster Pro compatible	Yes		
	Microphone Jack	Mono		



Stereo

Headphone/Line Out

Jack

Audio Output Quality	Frequency Response	20 Hz – 20 kHz	
· · /	Signal to Noise Ratio	>85 dB	
	Total Harmonic Distortion		
	Noise Floor	-110 dB	
	Play/Record Sampling Rate(s)	8 kHz– 48 kHz	
	DAC	16, 18, or 20-bit	
	ADC	16, 18, or 20-bit	
Internal Speaker	Power Rating	1.5 Watts	
	Impedance	4 Ohms	
Communications			
Intel 82562GT 10/100 Network Connection	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) Auto-Negotiation (Automatic Speed and Duplex Selection) Full Duplex and Half Duplex operation at 10 and 100 Mbit/s IEEE 802.3x Flow Control (IEEE 802.3 clauses 31-32; configurable) NOTE: Auto MDI/MDI-X is not supported.	
	Power Management	ACPI compliant multiple power modes	
	Performance Features	TCP / IP / UDP Checksum Offload	
	Manageability	Boot-from-LAN using PXE 2.1 NOTE: Wake-on-LAN and Boot-from-LAN using RPL are not supported.	
	NIC Device Driver Name	Intel 82562 Network Internet Connection	
	THE DEVICE Driver Hume		



#### HP 530 Notebook PC

Conexant CX20548 56K	Form Factor	Integrated on system board
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	<ul> <li>V.92 data</li> <li>V.8bis</li> <li>V.80</li> <li>V44, V.42bis, MNP5 (Compression)</li> <li>V.42 (LAPM, MNP2-4) (Error Correction)</li> <li><b>Optional symbol rates:</b></li> <li>2800, 3429</li> <li>Asymmetric Symbol rates</li> <li><b>Synchronous primary channel data signaling rates:</b></li> <li>3600, 31200</li> <li>Automatic rate re-negotiation</li> <li>V.34</li> <li>V.32bis</li> <li>V.32</li> <li>V.23</li> <li>V.22</li> <li>V.21</li> <li>Bell 212A</li> <li>Bell 103J</li> </ul>
	Fax Mode Capabilities	TIA/EIA-578-B (Class 1) T.30, T.4 (Group 3) V.17 V.29 V.27ter V.21 Channel 2
	Command Set	V.250 (Partial) TIA-602 Identification: +GMI, +GMM, +GMR Port control: +IPR, +ICF, +IFC, +ILRR Modulation: +MS, +MR, +MA Error control: +ES, +ER, +EB, +ESR, +ETBM Data compression: +DS, +DR V.251
Intel PRO/Wireless 3945ABG Network Connection	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



5115			
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 <sup>1</sup>	Supports 64- and 128-bit WEP, WPA, WPA2, hardware-accelerated AES, 802.1x authentication types EAP-TLS, EAP-TTLS, PEAP-GTC, PEAP-MSCHAPv2, LEAP, EAP-FAST, EAP-SIM.		
		Features (proven compatibility with Cisco Aironet ough 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	Ad-hoc (Peer to Peer)		
Models	Infrastructure (Access Point Required)		
Roaming	IEEE 802.11 compliant roaming between access points		
Output Power (for CKK) <sup>2</sup>	15 dBm		
Output Power (for OFDM; power varies by data rate) <sup>2</sup>	; 15 dBm		
Power Consumption	Transmit: 1.8 Watts (max) Receive: 1.4 Watts (max) Idle mode <sup>3</sup> : 150 mW (nominal) Sleep mode: 30 mW (max)		
Power Management	ACPI compliant power management 802.11 compliant power saving mode		
Receiver Sensitivity <sup>4</sup>	54 Mbps: -72 dBm, 11 Mbps: -88 dBm , 1 Mbps: -97 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 (4.75 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 95% (non-condensing)	
Altitude	Operating Non-operating	0 to 10,000 ft (3,048 m) 0 to 50,000 ft (15,240 m)	



**Technical Specifications** 

Configuration Utility<sup>5</sup>

Microsoft Windows 2000 or XP Choice of Configuration Utility:

- Microsoft Windows XP Wireless Network Connection Manager
- Intel PROSet for Microsoft Windows 2000 or XP (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 packet error rate of 10% for 802.11a/g (OFDM modulation).
- 5. WLAN supplier's client utility is required for Cisco Compatible Extensions support with Microsoft Windows 2000 or XP. WLAN may also be compatible with certain third-party software supplicants.

Broadcom WMIB184G	Wireless LAN Standards	IEEE 802.11b
802.11b/g WiFi Adapter	Interoperability	IEEE 802.11g 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
	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 <sup>1</sup>	Supports 64- and 128-bit WEP, WPA, WPA2, hardware-accelerated AES, 802.1x authentication types EAP-TLS, EAP-TTLS, PEAP-GTC, PEAP-MSCHAPv2, LEAP, EAP-FAST, EAP-SIM.
		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
	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) <sup>2</sup>	17.5 dBm
	Output Power (for OFDM; power varies by data rate) <sup>2</sup>	: 15 dBm



#### **Technical Specifications**

Power Consumption	Transmit: 2.0 W (max) Receive: 1.5 W (max) Idle mode <sup>3</sup> : 390 mW (nominal) Sleep mode: 20 mW (max)			
Power Management	ACPI compliant power management 802.11 compliant power saving mode			
Receiver Sensitivity <sup>4</sup>	54 Mbps: -72 dBm, 11 Mbps: -88 dBm , 1 Mbps: -97 dBm			
Antenna type	High efficiency dual band antenna with spatial diversity, mounted in the 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	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 <sup>5</sup>	Microsoft Windows 2000 or XP Choice of Configuration Utility:			
<ul> <li>Microsoft Windows XP Wireless Network Connection Manager</li> <li>Broadcom Wireless Configuration Utility (required for Cisco Compatible Extensions support)</li> </ul>				
	Microsoft Windows Vista			
	Microsoft Windows Vista Wireless Network Connection Manager			
LED Activity				
1. Check latest softwa	re/driver release for updates	s 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 packet error rate of 10% for 802.11a/g (OFDM modulation).
- 5. WLAN supplier's client utility is required for Cisco Compatible Extensions support with Microsoft Windows 2000 or XP. WLAN may also be compatible with certain third-party software supplicants.



#### **Technical Specifications**

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