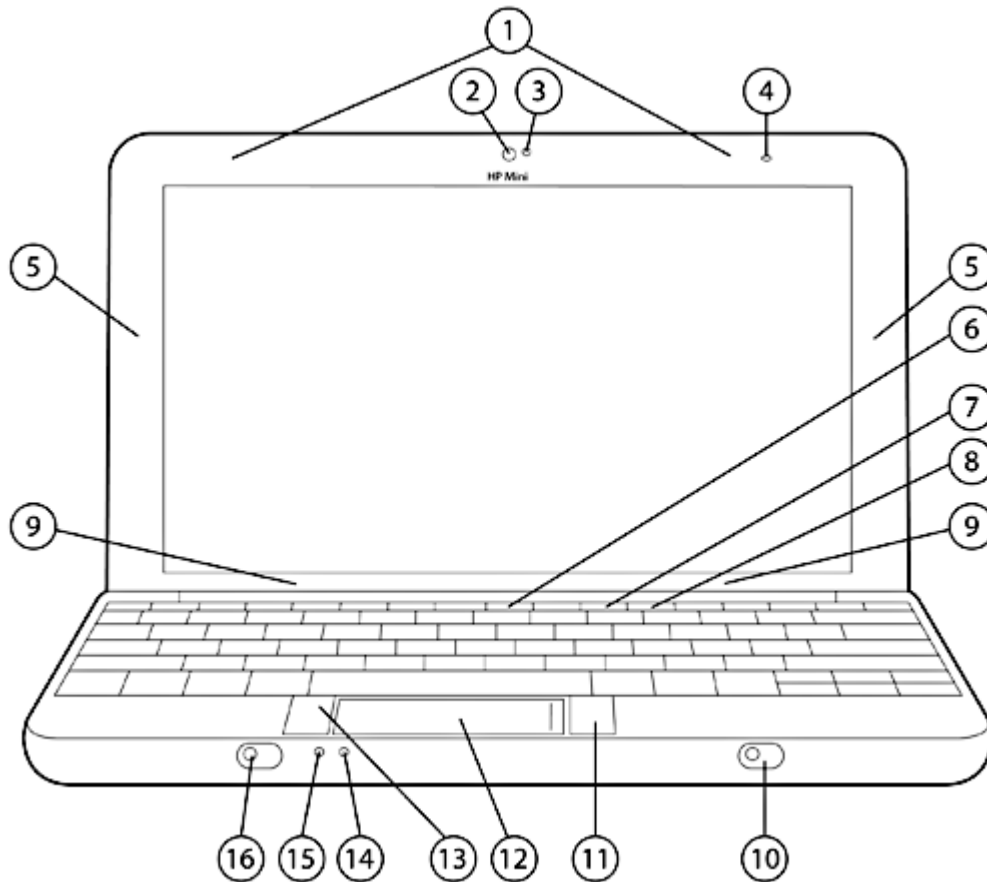
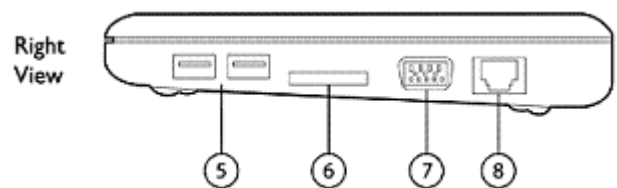
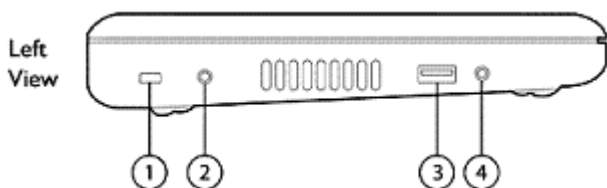


Overview



- | | |
|-------------------------------------|-------------------------------------|
| 1. WLAN antennas | 9. Stereo speakers |
| 2. VGA webcam | 10. Wireless on/off button with LED |
| 3. Webcam light | 11. Right touchpad button |
| 4. Integrated microphone | 12. Touchpad with scroll zone |
| 5. WWAN antennas (with WWAN option) | 13. Left touchpad button |
| 6. Volume mute function key | 14. Battery charging LED indicator |
| 7. Volume down function key | 15. Internal storage activity LED |
| 8. Volume up function key | 16. Power button with LED |

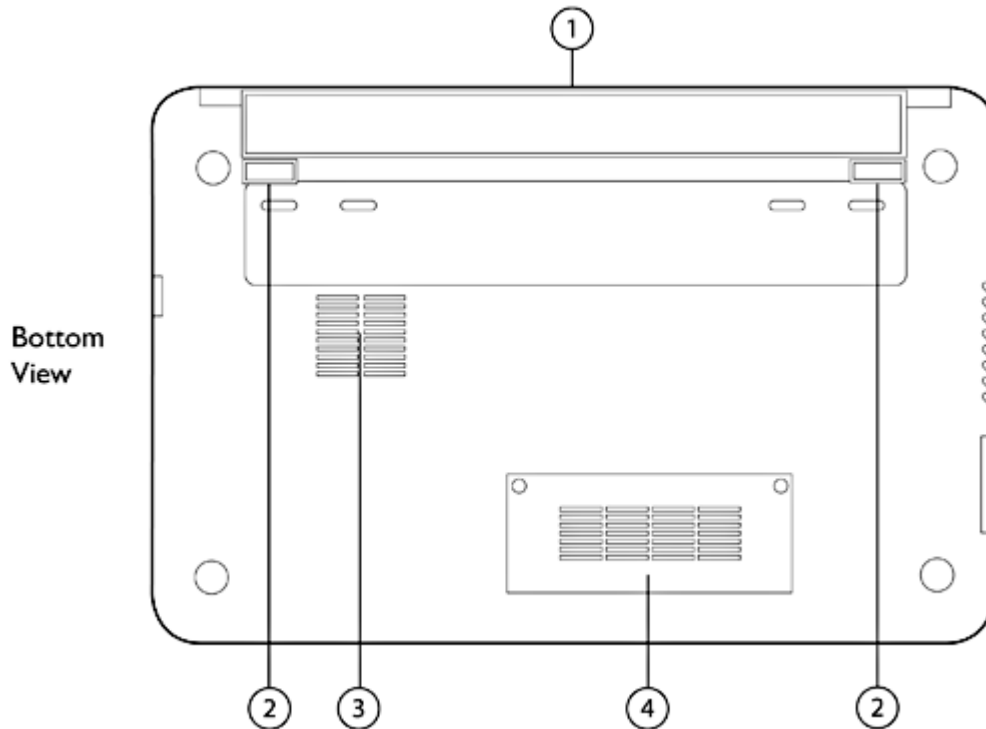


1. Kensington lock slot

5. (2) USB 2.0 ports

Overview

- | | |
|------------------------------------|-------------------------|
| 2. Power connector | 6. Media Card Reader |
| 3. USB 2.0 port | 7. VGA/external monitor |
| 4. Combo stereo headphone/mic jack | 8. RJ-45/ethernet |



- | | |
|----------------------------|------------------------------|
| 1. Battery bay | 3. Vent |
| 2. Battery release latches | 4. Memory module compartment |

At A Glance

- Ultra-portable light-weight design starting at 2.35 lb (1.07 kg) and 1.04 in (26.3 mm) thin at front
- 92% full-size QWERTY keyboard, touchpad with scroll zone
- Solid State module or up to 160 GB 5400 rpm hard drive
- 10.1-inch diagonal LED-backlit WSVGA display (1024 x 600)
- Intel® Atom™ processor
- Flexible wireless connectivity options:
 - Integrated HP un2420 or HP un2420 EV-DO/HSDPA Mobile Broadband Module provides worldwide Gobi mobile Internet technology
 - Integrated 802.11 b/g wireless LAN module
 - Integrated 802.11 b/g wireless and Bluetooth combo adapter
- Integrated VGA Webcam
- Flexible battery solutions: 3-cell for lightest weight or 6-cell for longer battery life
- 5-in-1 Media Card Reader

Standard Features

Processors	Intel Atom N270 Processor (1.6 GHz, 512 KB L2 cache, 533 MHz FSB) NOTE: Intel's numbering is not a measurement of higher performance. Processor speed denotes maximum performance mode; processor will run at lower speeds in battery optimization mode.	
Operating System	Preinstalled	Genuine Windows 7 Starter* Genuine Windows XP Home FreeDOS * System may require upgraded and/or separately purchased hardware and/or a DVD drive to install the Windows 7 software and take full advantage of Windows 7 functionality. See http://www.microsoft.com/windows/windows-7/ for details.
Chipset	Mobile Intel 945GSE Express Chipset	
Graphics	Mobile Intel Graphics Media Accelerator 950	
Display	Internal External	10.1-inch diagonal LED-backlit WSVGA display with 1024 x 600 resolution Up to 32-bit per pixel color depth VGA port supports resolutions up to 1600 x 1200 at 75 Hz, and WUXGA at 60 Hz NOTE: Resolutions are dependent upon monitor capability, and resolution and color depth settings.
Memory	Standard Maximum	1 GB DDR2 SDRAM SODIMM* one SODIMM slot Supports up to 1 GB maximum** * All memory modules operate at the maximum system supported speed of 533 MHz. NOTE: Due to the non-industry standard nature of some third-party memory modules, we recommend HP branded memory to ensure compatibility.
Communications	Integrated Atheros Ethernet (10/100 NIC)	

Standard Features

Wireless Devices

Support for secure, integrated wireless LAN and wireless WAN options featuring support for the latest industry standards. Mobile Broadband (WWAN) requires Windows Vista or Windows XP and is available in select countries as a factory configurable feature only.

HP un2420 EV-DO/HSPA Mobile Broadband Module Integrated mobile broadband module with Gobi global mobile Internet technology that provides connectivity to both CDMA (EVDO) and UMTS (HSPA) networks. It also provides GPS functionality for various mapping applications.
NOTE: Separately purchased mobile network operator service is required.
Two 850/900/1575/1800/1900/2100 MHz antennas integrated in the top of the display panel support current and future WWAN technologies.

All 802.11 integrated wireless LAN options

Wi-Fi certified*
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
Dual antennas integrated in the display enclosure

Broadcom 4312G 802.11b/g Wi-Fi Adapter

Integrated support for 802.11 b and g
Cisco Compatible Extensions support
Up to 54-mbps data rate

Broadcom 4312G 802.11b/g Wi-Fi and 2070 Bluetooth 2.1+EDR Combo Adapter

Integrated support for 802.11 b and g
Cisco Compatible Extensions support
Up to 54-mbps data rate
Bluetooth Specification v2.1 compliant
Works with a wide range of Bluetooth devices

Keyboard

Keyboard is 92% of full size, 101/102-key compatible with isolated inverted-T cursor control keys, both left and right control and alt keys, 12 function keys, and hotkey combinations for audio volume, power conservation, brightness, and other features. US and international key layouts are available.

Pointing Device

Touchpad with scroll zone and two soft-touch buttons

Expansion Card Slots

Media Card Reader

Supports SD (Secure Digital), MultiMediaCard, Memory Stick, Memory Stick Pro, Picture card

Storage

Internal Storage Device 160 GB 5400 rpm SATA Hard Drive
or
16 GB Solid State Module

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

Standard Features

Interfaces	External Monitor	One – VGA
	Combo stereo headphone/mic jack	One
	Power Connector	One
	RJ-45/Ethernet	One
	USB 2.0	Three
	LED Status Indicators	Seven

Audio	IDT 92HD81 High Definition audio Integrated stereo speakers Integrated microphone Combo stereo headphone/mic jack Integrated VGA webcam
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Software	Software with Windows	HP Connection Manager
	Operating Systems	Microsoft Office Ready with 60-day Office Professional 2007 Trial Edition (select models) McAfee Total Protection* Adobe Flash Player PDF Complete

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

Security	Standard Features	Kensington Lock Slot
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Power Supply	External 30-watt AC adapter, 3.3-foot (1-meter) power cord included Total length including External AC adapter is 8.55 feet (2.59 meter).
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Battery	Primary Battery	3-cell (28.8 WHr) Li-Ion 6-cell (55 WHr) high capacity Li-Ion
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Battery Life	6-cell Primary Battery and Hard Drive	Up to TBD hours
	3-cell Primary Battery and Hard Drive	Up to TBD hours

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

System Standby Time	Up to 1 week
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Standard Features

Power Conservation 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 (depending on model). On-site service and warranty upgrades are also available (depending on model).

NOTE: Certain restrictions and exclusions apply. Consult the HP Customer Support Center for details.
<http://h20000.www2.hp.com/bizsupport/TechSupport/ProductRoot.jsp>.

Options

Storage	HP USB Diskette Drive	DC361B
	HP External USB 2.0 CD/DVD R/RW Drive	FS943AA
	HP 250 GB Pocket Media Drive	FE477AA
Expansion	HP USB 2.0 Docking Station	FQ834AA
	HP Essential USB 2.0 Port Replicator	AQ731AA
Power	HP Mini 30W AC Adapter	NA374AA
	HP Mini 6-cell Battery	NY220AA
Carrying Cases	HP Basic Carrying Case	AJ078AA
	HP Value Nylon Case	RR314AA
	HP Universal Nylon Case	RR315AA
	HP Executive Leather Case	RR316AA
	HP Deluxe Nylon Backpack	RR317AA
	HP Deluxe Roller Case	GD405AA
	HP Basic Backpack	AM863AA
	HP Basic Messenger Carrying Case	AP355AA
	HP Mini Sleeve	NF869AA
Security	HP/Kensington MicroSaver Security Lock	PC766A
Input/Output Devices	HP USB Keyboard & Mouse Bundle	RC465AA
	HP PS/2 Keyboard & Mouse Bundle	RC464AA
	HP USB Optical Travel Mouse	RH304AA
	HP Wireless Mouse	AR085AA
	HP Bluetooth Headset	AR084AA
	HP Mobile Audio Speakers	FS944AA
	HP Mobile Productivity Bundle	AQ729AA

Memory

Supports 800 MHz* DDR2 SDRAM

One DIMM slot

DIMM sizes supported: 1 GB

Standard Memory 1 GB (1 GB x 1)

Storage

Internal Storage Device

Hard Drives (2.5-inch SMART SATA)

160 GB 5400 rpm

Solid State (2.5-inch)

16 GB Solid State Module

Quantity Supported

One

One

Drive Bay

Dedicated hard drive bay

Dedicated hard drive bay

Technical Specifications

System Unit	Dimensions (HxWxD)	1.04 (at front) x 10.30 x 6.77 in 26.3 (at front) x 261.5 x 172 mm
	Weight	Starting at 2.35 lb (1.07 kg)
	NOTE: Height varies depending upon where on the notebook the measurement is made. Weight includes 3-cell battery, 1 GB memory, Solid State module, 802.11 wireless communications module. Weight varies by configuration and components. Weight varies by configuration and components.	
	Stand-Alone Power Requirements	Normal Operating Voltage 19 V Average Operating Power TBD W Max Operating Power < 30 W
	Temperature	Operating 32° to 95° F (0° to 35° C) 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 (unpressurized)	Operating -50 to 10,000 ft (-15.24 to 3,048 m) Non-operating -50 to 40,000 ft (-15.24 to 12,192 m)
	Industry Standard Certifications	UL Yes FCC Compliance Yes ENERGY STAR® Yes* EPEAT TBD (Silver target)** ICES Yes CE Marking Compliance Yes BNCI or BELUS Yes CIT Yes GOST Yes Saudi Arabian Compliance (ICCP) Yes SABS Yes

* Configurations of the Compaq Mini 102 that are ENERGY STAR qualified are identified as Compaq Mini 102 ENERGY STAR on HP websites and on www.energystar.gov.

** EPEAT registration varies by country. See www.epeat.net for registration status by country. EPEAT status listed above applies to U.S.

Technical Specifications

HP 30W AC Adapter	Dimensions	3.66 x 1.57 x 1.14 in (9.3 x 4.0 x 2.9 cm)		
	Weight	0.31 lb (142 g)		
	Input	100 to 240 VAC		
		Input Efficiency	83% min at 115 VAC	
		Input frequency range	47 to 63 Hz	
	Output	Input AC current	1.0 A at 90 VAC, 0.5 A at 180 VAC	
		Output power	30W	
		DC output	19.0V	
		Hold-up time	5 msec at 115 VAC input	
		Output current limit	<4.5A, Over voltage protection- 29V max automatic shutdown	
	Connector	2 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%	
EMI and Safety Certifications	Storage Humidity	10% to 90%		
	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 B, CISPR22 Class B, CCC, NOM-1 NYCE; MTBF – over 200,000 hours at 25°C ambient condition.			

6-Cell (55 WHr) Lithium-ion battery	Dimensions (HxWxL)	1.61 x 1.65 x 8.27 in (4.1 x 4.2 x 21 cm)		
	Weight	0.77 lb (0.35 kg)		
	Cells/Type	6-cell Lithium-Ion		
	Energy	Watt-hour Capacity	55Wh	
	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)		

Technical Specifications

3-Cell (28.8 WHr) Lithium-ion battery	Dimensions (HxWxL)	1.61 x 0.87 x 8.27 in (4.1 x 2.2 x 21 cm)	
	Weight	0.39 lb (0.176 kg)	
	Cells/Type	3-cell Lithium-Ion	
	Energy	Watt-hour Capacity	28.8 WHr
	Temperature	Operating (Charging)	32° to 113° F (0° to 45° C)
		Operating (Discharging)	14° to 140° F (-10° to 60° C)
		Non-operating	-4° to 140° F (-20° to 60° C)
	Battery Re-Charge Time	System in OFF Mode or Standby	2.5 hours
		System ON	3 to 5 hours (depending on system power consumption)

Display

10.1-inch diagonal LED-backlit WSVGA Display	Active Area (W x H)	8.77 x 4.93 in (22.27 x 12.52 cm)	
	Diagonal Size	10.1 in (25.7 cm)	
	Surface Treatment	Anti-glare	
	Contrast Ratio	400:1 (typical)	
	Refresh Rate	60 Hz	
	Brightness	200 nit (typical)	
	Pixel Resolution	Pitch	217 mm
		Format	1024 x 600
		Configuration	RGB Vertical Stripe
	Backlight	LED	
	PPI	117	
Viewing Angle	±30° Horizontal, ±10° Vertical (typical)		

Internal Storage

Technical Specifications

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

16 GB 2.5-inch SATA Solid State Module	Weight	0.022 lbs (10.0 g)			
	Capacity	16 GB			
	Height	0.16 in (4 mm)			
	Width	2.13 in (54 mm)			
	Interface	ATA-7, SATA 2.6			
	Performance	Maximum Sequential Read	75 MB/Sec	Maximum Sequential Write	28 MB/Sec
		Operating Temperature	32° to 158°F (0° to 70°C) [case temp]		

Audio

Technical Specifications

Hardware	Implementation	IDT 92HD81 High Definition audio	
	Volume Controls	Up, down, and mute function keys	
	Full Duplex	Yes	
	Sound Blaster Pro compatible	Yes	
	Combo stereo headphone/mic jack	Device Used	Operation
	Headphone	Headphone works. Integrated microphone works.	
	Microphone	External microphone does not work. Integrated microphone works.	
	Combo headphone / microphone without "Answer" button	Headphone and microphone in headset work as advertised.	
	Combo headphone / microphone with "Answer" button	Headphone and microphone in headset work initially whenever headset is plugged in; integrated microphone in PC is disabled. If "answer" button is pushed, microphone in headset is disabled, integrated microphone in PC is enabled.	

Audio Output Quality	Frequency Response	20 Hz - 20 kHz
	Signal to Noise Ratio	>95 db
	Total Harmonic Distortion	0.01%
	Play/Record Sampling Rate(s)	20 Hz – 20 kHz
	DAC	24-bit
	ADC	24-bit

Internal Speakers	Power Rating	2 Watts
	Impedance	4 Ohms

Communications

Technical Specifications

Integrated Atheros 10/100 NIC	Ethernet Features	10/100Mbps integrated PHY, 802.1q vlan,802.3x flow control,Auto-negotiation 802.3 Clause 28-40
	Power Management	ACPI, ASPM L0s/L1,D3 hot,Intelligently reduces power based on cable length.
	Performance Features	IPv4/IPv6 offload, TCP/UDP/IP checksum offload
	Manageability	WOL (magic packet, pattern match, link change), PXE 2.1, RPL, DOS diag, windows utility
	Interface	PCI express 1.1 x1
	NIC Device Driver Name	Atheros AR8132 PCI-E Fast Ethernet
HP un2420 EV-DO/HSPA Mobile Broadband Module	Technology/Operating Bands	GSM/GPRS/EDGE: 850MHz(Cell), 900MHz(EGSM), 1800MHz(DCS), 1900MHz (PCS) UMTS/WCDMA with receive diversity: 2100MHz (UTRA FDD Band I), 1900MHz (UTRA FDD Band II), 900Mhz (UTRA FDD Band VIII), 850MHz (UTRA FDD Band V) 1xEVDO/1xRTT with receive diversity: 850MHz (Band Class0-Cell), 1900MHz (Band Class1-PCS)
	Wireless Protocol Standards	GSM/GPRS/EDGE: Class B, Multi-slot operation, coding schemes CS1 - CS4 and MSC1 - MSC9. UMTS/WCDMA: Release 99 and Release 6 CDMA: 1xEVDO Release 0 and Release A, IS-95A, IS-95B, IS-2000
	Wireless Parametric Standards	Meets or exceeds TIA/EIA IS-98-D
	Maximum Data Rates	UMTS (HSPA) - 7.2 Mbps (Download), 2.0Mbps (Upload) CDMA (EVDO Release A) - 3.1 Mbps (Download), 1.8Mbps (Upload)
	GPS	Standalone GPS enabled
	GPS Bands	L1 - 1575.42 MHz
	Maximum Output Power	GSM/GPRS/EDGE: 32dBm (+/-1) WCDMA: 24dBm (+/-1) CDMA: 24dBm (+/-1)
	Maximum Power Consumption	2500mA (peak); 1000mA (average)
	Power Consumption, Sleep Mode	5 mA
	Power Management	USB selective suspend Integrated notebook wireless button
	Antenna Type	Dual high efficiency 5 band antennae with spatial diversity, mounted in the display enclosure
	Form Factor	PCI-Express MiniCard, USB 2.0 interface
	Weight	11.5 g
	Dimensions (Length x Width x Thickness)	2.01 x 1.18 x 0.18 in (51 x 30 x 5 mm)
	Voltage, Operating	3.3v +/- 10%
	Temperature, Operating (from TIA/EIA/IS-98-D)	-22° to 140° F (-30° to 60° C) (full RF performance) -22° to 167° F (-30° to 75° C) (reduced RF performance)

Technical Specifications

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)
Configuration Utilities	HP Connection Manager
LED Activity	LED Off - Radio Off; Solid LED On - Radio On

Broadcom 4312G 802.11b/g WiFi Adapter

Wireless LAN Standards	IEEE 802.11b IEEE 802.11g
Interoperability	Wi-Fi certified Cisco Compatible Extensions Program compliant with Microsoft Windows Vista and XP (details at: http://www.hp.com/go/notebooks/WLAN)
Frequency Band	2.4 GHz
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
Security¹	Supports 64- and 128-bit WEP, WPA, WPA2, hardware-accelerated AES, 802.1x authentication types EAP-TLS, EAP-TTLS, PEAP-GTC, PEAP-MSCHAPv2, LEAP, EAP-FAST. Support for Cisco Security Features (proven compatibility with Cisco Aironet infrastructure products through the Cisco Compatible Extensions Program Version 4) with Microsoft Windows Vista and XP only.
Sub-channels	Multinational support with frequency bands and channels compliant to local regulations.
Media Access Protocol	CSMA/CA (Collision Avoidance) with ACK
Network Architecture Models	Ad-hoc (Peer to Peer) Infrastructure (Access Point Required)
Roaming	IEEE 802.11 compliant roaming between access points
Output Power (for CCK) ²	17 dBm , nominal
Output Power (for OFDM; power varies by data rate) ²	15 dBm , nominal
Power Consumption	Idle associated: 250 mW Idle unassociated: 150 mW Transmit: 2.0 W (max) Receive: 2.0 W (max)
Power Management	ACPI compliant power management 802.11 compliant power saving mode
Receiver Sensitivity³	54 Mbps: -71 dBm, 11 Mbps: -85 dBm , 1 Mbps: -95 dBm
Antenna type	High efficiency dual band antenna with spatial diversity, mounted in the display enclosure
Form Factor	PCI-Express Half-MiniCard

Technical Specifications

Weight	0.013 lb (6 g)	
Dimensions	0.19 x 1.06 x 1.18 in (4.75 x 26.8 x 30 mm)	
Operating Voltage	3.3v +/- 10%	
Temperature	Operating	14° to 149° F (–10° to 65° C)
	Non-operating	–40° to 176° F (–40° to 80° C)
Humidity	Operating	10% to 90% (non-condensing)
	Non-operating	5% to 95% (non-condensing)
Altitude	Operating	0 to 10,000 ft (3,048 m)
	Non-operating	0 to 50,000 ft (15,240 m)
Configuration Utility⁴	Microsoft Windows XP Choice of Configuration Utility:	
	<ul style="list-style-type: none"> • Microsoft Windows XP Wireless Network Connection Manager • Broadcom Wireless Configuration Utility (required for Cisco Compatible Extensions support) 	
LED Activity	Microsoft Windows Vista	
	<ul style="list-style-type: none"> • Microsoft Windows Vista Wireless Network Connection Manager • Broadcom IHV extensions for Windows Vista available to support Cisco Compatible Extensions. 	
LED Activity	LED Off – Radio OFF; Solid LED On – Radio ON	
	<ol style="list-style-type: none"> 1. Check latest software/driver release for updates on supported security features. 2. Maximum output power may vary by country according to local regulations. 3. Receiver sensitivity is measured at a packet error rate of 8% for 802.11b (CCK modulation) and a packet error rate of 10% for 802.11a/g (OFDM modulation). 4. WLAN supplier's client utility is required for Cisco Compatible Extensions support with Microsoft Windows XP. WLAN may also be compatible with certain third-party software supplicants. WLAN supplier IHV extensions required for Cisco Compatible Extensions support for Microsoft Windows Vista. 	

Broadcom 4312G 802.11b/g WiFi and 2070 Bluetooth 2.1+EDR Combo Adapter	Wireless LAN Standards	IEEE 802.11b IEEE 802.11g
	Interoperability	Wi-Fi certified Cisco Compatible Extensions Program compliant with Microsoft Windows Vista and XP (details at: http://www.hp.com/go/notebooks/WLAN)
	Frequency Band	2.4 GHz
	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
	Security¹	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)

Technical Specifications

	Version 4) with Microsoft Windows Vista and XP only.	
Sub-channels	Multinational support with frequency bands and channels compliant to local regulations.	
Media Access Protocol	CSMA/CA (Collision Avoidance) with ACK	
Network Architecture Models	Ad-hoc (Peer to Peer) Infrastructure (Access Point Required)	
Roaming	IEEE 802.11 compliant roaming between access points	
Output Power (for CCK) ²	17 dBm, nominal	
Output Power (for OFDM; power varies by data rate) ²	15 dBm, nominal	
Power Consumption	Idle associated: 250 mW Idle unassociated: 150 mW Transmit: 2.0 W (max) Receive: 2.0 W (max)	
Power Management	ACPI compliant power management 802.11 compliant power saving mode	
Receiver Sensitivity ³	54 Mbps: -71 dBm, 11 Mbps: -85 dBm , 1 Mbps: -95 dBm	
Antenna type	High efficiency dual band antenna with spatial diversity, mounted in the display enclosure	
Form Factor	PCI-Express Half-MiniCard	
Weight	0.013 lb (6 g)	
Dimensions	0.19 x 1.06 x 1.18 in (4.75 x 26.8 x 30 mm)	
Operating Voltage	3.3v +/- 10%	
Temperature	Operating	14° to 149° F (–10° to 65° C)
	Non-operating	–40° to 176° F (–40° to 80° C)
Humidity	Operating	10% to 90% (non-condensing)
	Non-operating	5% to 95% (non-condensing)
Altitude	Operating	0 to 10,000 ft (3,048 m)
	Non-operating	0 to 50,000 ft (15,240 m)
Configuration Utility ⁴	Microsoft Windows XP Choice of Configuration Utility: <ul style="list-style-type: none"> ● Microsoft Windows XP Wireless Network Connection Manager ● Broadcom Wireless Configuration Utility (required for Cisco Compatible Extensions support) Microsoft Windows Vista <ul style="list-style-type: none"> ● Microsoft Windows Vista Wireless Network Connection Manager ● Broadcom IHV extensions for Windows Vista available to support Cisco Compatible Extensions. 	
LED Activity	LED Off – Radio OFF; Solid LED On – Radio ON	
	<ol style="list-style-type: none"> 1. Check latest software/driver release for updates on supported security features. 2. Maximum output power may vary by country according to local regulations. 3. Receiver sensitivity is measured at a packet error rate of 8% for 802.11b (CCK modulation) and a packet error rate of 10% for 802.11a/g (OFDM modulation). 	

Technical Specifications

4. WLAN supplier's client utility is required for Cisco Compatible Extensions support with Microsoft Windows XP. WLAN may also be compatible with certain third-party software supplicants. WLAN supplier IHV extensions required for Cisco Compatible Extensions support for Microsoft Windows Vista.

Bluetooth 2.1 Wireless Technology	Bluetooth Specification	2.1 Compliant		
	Dimensions	1.18 x 0.26 x 0.13 in (30 x 6.5 x 3.25 mm)		
	Frequency Band	2402 to 2480 MHz		
	Number of Available Channels	79 (1 MHz) available channels		
	Data Rates and Throughput	3 Mbps data rate; throughput up to 2.17 Mbps Synchronous Connection Oriented links up to 3, 64 kbps, voice channels Asynchronous Connection Less links 2178.1 kbps/177.1 kbps asymmetric or 1306.9 kbps symmetric		
	Transmit Power	-6 dBm to 4 dBm (Bluetooth Class II)		
	Receiver Sensitivity	Better than -80 dBm at 0.1 % raw bit error rate		
	Power Consumption	Peak (Tx) 264 mW Peak (Rx) 231 mW Sleep <1 mW		
	Antenna	Internally integrated within module		
	Range	Up 33 ft (10 m)		
	Electrical Interface	USB 2.0 compliant Microsoft Windows Plug and Play compliant		
	Bluetooth Software Supported	Broadcom Bluetooth for Microsoft Windows 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		
	Temperature	Operating	-4° to 158° F (-20° to 70° C)	
		Non-operating	-40° to 176° F (-40° to 80° C)	
	Humidity	Operating	10% to 90%	
		Non-operating	5% to 95%	
	Altitude	Operating	15,000 ft (4,572 m)	
	Non-operating	40,000 ft (12,192 m)		
Bluetooth Profiles	Serial Port Profile (SPP) ¹			

Technical Specifications

Supported

Service Discovery Application Profile (SDAP)
Dial-Up Networking (DUN)^{1,2}
Generic Object Exchange Profile (GOEP)^{1,2}
Object Push Profile (OPP)^{1,2}
File Transfer Profile (FTP)
Synchronization Profile (SYNC)
Hard Copy Cable Replacement (HCRP)^{1,2}
Personal Area Networking Profile (PAN)^{1,2}
Human Interface Device Profile (HID)^{1,2}
FAX Profile (FAX)
Basic Imaging Profile (BIP)²
Headset Profile (HSP)
Hands Free Profile (HFP)
Advanced Audio Distribution Profile (A2DP)

¹ indicates the profile is supported by Microsoft Windows XP SP2

² indicates the profile is part of Windows Vista

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