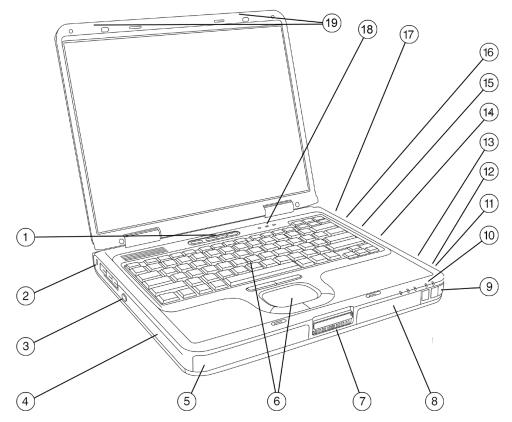
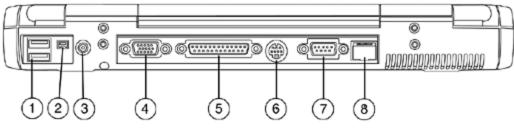
Overview



- 1. Power Button and 3 quick launch buttons
- 2. Lock Slot
- 3. Fixed Optical
- 4. Primary Battery
- 5. Speaker
- 6. Dual Pointing Devices
- 7. Display Latch
- 8. Speaker
- 9. Volume Down/Up/Mute
- 10. Wireless on/off, Power, Charge, HDD activity, MultiBay Activity LEDs

- 11. Modem
- Bluetooth Access Door
- 13. IR
- 14. MultiBay
- 15. SD Slot
- 16. PC Card Slots (2)
- 17. Line In/Out
- 18. Num Lock, Caps Lock, Scroll Lock LEDs
- 19. Wireless LAN Antennas



- 1. USB Ports (2)
- 2. 1394 Port (4 pin)
- 3. DC In
- 4. VGA

- 5. Parallel
- 6. S-Video
- 7. Serial
- 8. LAN



Overview

At A Glance

- Intel® Pentium® M Processors at 1.4, 1.5, 1.6 or 1.7-GHz
- Microsoft® Windows® XP Professional, Microsoft Windows 2000 and limited localizations of Windows XP Home Edition preinstalled
- 512-MB 333-MHz DDR SDRAM upgradeable to 2048 MB
- Up to 60-GB 5400rpm, user-removable hard drives.
- Dual pointing devices
- Magnesium alloy display enclosure
- Protected by a Three-year, Worldwide Limited Warranty certain restrictions and exclusions apply. Consult the HP Customer Support Center for details.

What's New

- Intel Pentium M Processors
- Intel 855PM chipset with 400MHz processor side bus
- ATI MOBILITY RADEON 9600 Pro graphics controller with 64 or 128MB of Video RAM
- Gigabit Ethernet NIC
- Optional integrated 802.11b, 802.11 b/g and 802.11 a/b/g wireless LAN modules
- Optional integrated Bluetooth
- Support for a fixed optical drive as well as a MultiBay device
- Integrated Secure Digital (SD) flash media slot
- USB 2.0 and IEEE 1394

What's Special

- Support for a fixed optical drive as well as a MultiBay device
- Support for Common Port Replicator and Advanced Port Replicator docking solutions with Gigabit NIC pass-through.
- HP Mobile Printing driver makes on-the-go printing quick and easy



Standard Features

Processors 1.7-GHz Intel Pentium-M Processor with 400-MHz Processor Side Bus and 1024-KB L2 cache

1.6-GHz Intel Pentium-M Processor with 400-MHz Processor Side Bus and 1024-KB L2 cache

1.5-GHz Intel Pentium-M Processor with 400-MHz Processor Side Bus and 1024-KB L2 cache

1.4-GHz Intel Pentium-M Processor with 400-MHz Processor Side Bus and 1024-KB L2 cache

Operating System

Microsoft Windows XP Professional

One of the following Microsoft Windows 2000

Microsoft Windows XP Home (limited localizations)

Chipset

Intel 855PM Chipset with 400MHz processor side bus and enhanced SpeedStep Technology

NOTE: Intel Pentium-M Processors support enhanced Intel SpeedStep™ technology. Processor speed denotes maximum

performance mode; processors will run at approximately 600MHz in battery optimization mode.

Display Internal 15-inch TFT XGA with (1024x768) resolution (16M colors)

15-inch TFT SXGA+ with (1400x1050) resolution and Wide-Viewing Angle

(16M colors)

15-inch TFT UXGA with (1600x1200) resolution and Wide-Viewing Angle

(16M 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 512-MB 333-MHz SDRAM (512-MB SODIMM in slot 1)

Maximum 2048-MB 333-MHz SDRAM DDR SDRAM (1024-MB SODIMMs 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

Communications

10/100/1000 NIC

56K (V.92) modem with digital line guard

NOTE: Designed only to allow faster downloads from V.90/V.92 compliant sources. Maximum achievable download

transmission rates currently do not reach 56 KB/s, and will vary with line conditions.

NOTE: Modem availability is subject to country regulatory approval.

Keyboard

The 101/102-key compatible keyboard features an industry standard, full-width layout with desktop keyboard features, such as the isolated inverted-T cursor control keys, 3x2 editing keys, both left and right control and alt keys, and 11 function keys. The US layout has 84 keys and the International layout 85 keys. Other features include an integrated numeric keypad, hotkeys for instant access to power conservation, volume, brightness, and other features, 19.05 mm x 19.05 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.

Quick Launch Buttons

The HP Compaq Business Notebook nc8000 has three Quick Launch buttons designed to provide one-touch access to commonly used features including QuickLock, Wireless on/off, and presentation mode.

Pointing Device

Dual pointing devices (both Point stick and Touchpad)



Standard Features

PC Card Slots Two Type II/One Type III PC Card Slot which support both 32-bit CardBus and 16-bit PC Cards

Flash Media Slots One integrated Secure Digital (SD) slot

Storage Diskette Drives Optional MultiBay Diskette Drive

Primary Hard Drives 60-GB 5400 rpm SMART

40-GB 5400 rpm SMART

MultiBay Hard Drives 60-GB 5400 rpm SMART

40-GB 5400 rpm SMART 30-GB 4200 rpm SMART

NOTE: The HP nc8000 hard drives are customer removable and will withstand multiple insertion/removal cycles.

Optical Drives Integrated Drive Bay DVD+RW

24x/10x/24x/8x DVD/CD-RW

24x CD-RW 8x DVD 24X CD

MultiBay DVD+RW

24x/10x/24x/8x DVD/CD-RW

24x CD-RW 8x DVD 24X CD

Flash Media Storage One integrated Secure Digital (SD) slot

Multimedia HP Premier Sound audio

Integrated 16-bit Sound Blaster Pro-compatible audio

Two integrated stereo speakers and microphone

External volume and mute controls

Stereo Headphone-out Microphone in

Software MPEG1 support DVD-ROM Drive DVD+RW Drive

24X DVD/CD-RW Combo Drive

8X DVD-ROM Drive 24X CD-ROM Drive



Standard Features

Interfaces PC Card Slot Two Type II or 1 Type III

> External Monitor Microphone in DC Power RJ-11 (modem) **RJ-45 (NIC)**

Infrared Port 1 (4 Mb/s support)

(IrDA 4-MB compliant. IR performance will vary depending on performance of IR

peripherals and application used.)

Enhanced Parallel EPP/ECP Serial Port

S-video out connector 1 (Support for NTSC/PAL)

USB version 2.0 Port 4 Pin IEEE 1394 Port **Docking Connector** 9 LED Status Indicators

Graphics ATI MOBILITY RADEON 9600 Pro graphics controller with 64 or 128-MB DDR SDRAM

4X AGP

Hardware support for DirectX 9.0 ATI Powerplay Technology

HP Premier Sound 16-bit sound Audio

2 Stereo Speakers

Headphone out and microphone jacks

Software Preloaded Software Adobe Acrobat Reader*

> HP Quick Launch Button Software HP Mobile Printing Driver HP Help and Support (XP Only) Synaptics Touchpad Driver

InterVideo WinDVD Player* (for optional DVD, DVD/CDRW and DVD+RW drives)

Software on CD InterVideo WinDVD Creator DVD Authoring (for optional DVD+RW drives)

Roxio Easy CD Creator Basic (for optional DVD, DVD/CDRW and DVD+RW drives)

Additional software available

from the Web

HP Client Manager Software

HP ProtectTools Embedded Security Manager

HP ProtectTools Smart Card Security Manager

*NOTE: Software is loaded on the hard drive and must be installed by running the Software Setup utility

System Recovery

Each unit is shipped with a recovery CD kit containing Operating System Recovery and Driver/Application Recovery CDs. These CDs allow users to either recover or repair the notebook operating system and select drivers without losing personal data. The Operating System CD also provides the option of reinstalling the operating system software provided with the notebook.



Standard Features

Intelligent Manageability

Intelligent Manageability, a key component of HP PC Lifecycle Solutions, is the broad set of manageability features found on HP client and server products. The manageability features on PC clients comply with industry standards, such as DMI/, SMBIOS, PXE, and WBEM, while pioneering new ground in client manageability. HP introduced the industry's first line of manageable clients in 1995. With HP's lifecycle management philosophy, enterprises have all of the pieces for end-to-end management and proven tools for hassle-free management of PCs. The combination of these tools significantly lowers the Total Cost of Ownership of managing the computing environment. Intelligent Manageability offers solutions in the areas of Initial Configuration and Deployment, Asset Tracking and Security, Software Updating and Management, and Fault Notification and Recovery. For more information, visit these Web sites: http://www.hp.com/im;

http://www.hp.com/easydeploy; http://www.hp.com/solutions/pcsolutions

Security

The HP nc8000 supports a range of standard as well as optional security features including the optional HP ProtectTools Embedded Security chip and optional integrated Smart Card reader.

Standard Security Features Configuration Control Hardware

Memory Change Alert Ownership Tag Setup Password Power-On Password DriveLock

Enabled for PC SmartCard options

Kensington Lock Slot

Optional Security Features

HP ProtectTools Embedded

Security 2 The Project Tools Embedded

Designed to the Trusted Computing Group (TCG)

sianaara

Microsoft Crypto API and PKCS#11 software interface

support

RSA Secured Partner program certification

Integrated Smart Card reader Compatible with ISO 7816 compliant Smart Cards

EMV level 1 certification PC/SC interface support

For more information on HP security solutions refer to 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 meters).

Battery

The HP Compaq Business Notebook nc8000 8-cell internal main Lithium-Ion battery provides up to 5h 26m of battery life.

Battery Re-Charge Time

System in OFF mode or $\ensuremath{\mathsf{OFF}}$

3 hours

Standby

System ON (depending on

3-5 hours

system power consumption)

NOTE: Actual results may vary with product model, configuration, and individual usage. Hewlett-Packard testing of a HP Compaq nc8000 with an Intel Pentium M 1.7 GHz CPU, Windows XP Pro, 15.0-inch SXGA+ LCD, 512-MB RAM, 40-GB HDD, Lithium-Ion battery, and NIC/modem, achieved an overall Business Winstone 2002 BatteryMark score of **5h 26m** Business Winstone 2002 BatteryMark™ Version 1.0 units. Winstone® is a registered trademark and BatteryMark™ is a trademark of Ziff Davis Publishing Holdings Inc. in the U.S. and other countries. Copyright 2002 Ziff Davis Media Inc. All Rights Reserved. System parameters followed test recommendations: panel brightness 50%, power management scheme - Laptop/Portable, hard drive, standby and video timers set to never.

Power Conservation

Supports enhanced Intel SpeedStep Technology (which allows Battery Optimized Mode, Maximum Performance Mode, or Automatic mode)

Hibernation

ATI PowerPlay technology Instant-on via standby ACPI compliance



Standard Features

MultiBay Devices

MultiBay devices may be swapped with the system powered on (hot) under Microsoft Windows XP Professional or Windows 2000 (except MultiBay Zip drive or MultiBay secondary hard drive).

Wireless Devices

The HP nc8000 notebook supports a broad range of secure, integrated wireless LAN options featuring support for the latest industry standards. Integrated Bluetooth is also an option and can be combined with any one of the supported wireless LAN options.

All integrated wireless LAN Wi-Fi certified

options Cisco Compatible Extensions support

Wired Equivalent Privacy (WEP) support up to 128-bit keys

Wi-Fi Protected Access (WPA) support

802.1x standards support including EAP-TLS, Protected

EAP (PEAP) and Cisco-EAP (LEAP)

Dual antennas integrated in the display enclosure

HP W500 802.11a/b/a Integrated support for 802.11a, b and a

Up to 54mbps throughput performance

Advanced Encryption Standard (AES) support

HP W400 802.11b/g Integrated support for 802.11b and g

Up to 54mbps throughput performance

Advanced Encryption Standard (AES) support

Intel Pro 2100/Wireless 802.11b wireless LAN

Intel® Centrino™ mobile technology Integrated support for 802.11b

Up to 11mbps throughput performance

Designed to the Bluetooth v1.1 specification Integrated Bluetooth

Docking

Port Replicator and Advanced Port Replicator. HP's common port replicator and advanced port replicator provide simple and convenient port management. Features include Gigabit NIC pass through, DVI, USB, and 1394 ports. These docking solutions are Compatible across multiple Business Notebook platforms enabling a lower total cost of ownership.

Service and Support

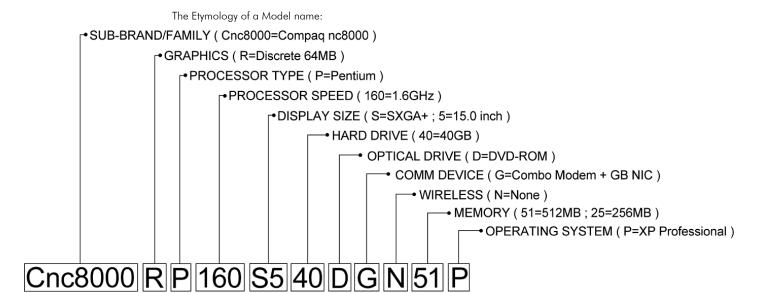
HP Services includes a Three-year, Worldwide Limited Warranty, pick-up or carry-in and toll-free 7 x 24 hardware technical phone support. On-site service or a one-year warranty are also available,

NOTE: Certain restrictions and exclusions apply. Consult the HP Customer Support Center for details.

 $http://wwss1pro.compaq.com/support/warranty_upgrades/product_specific_warranty.asp.$



Standard Features



Models

Cnc8000RP160S540DGN51P

DN889A#XXX

Processor 1.6-GHz Intel Pentium-M processor with 400-MHz Processor Side Bus

Operating System Microsoft Windows XP Professional

Cache 1024 KB L2 cache

System Memory Standard 512-MB 333-MHz DDR SDRAM (512-MB SODIMM in slot 1)

Maximum 2-GB 333-MHz DDR SDRAM (1-GB SODIMM in slots 1 and 2)

Hard Drive 40GB 5400 RPM

Display 15-inch color TFT SXGA+ with 1280x1024 resolution (up to 16.7M colors

internal)

Graphics ATI MOBILITY RADEON 9600 Pro graphics controller

Hardware support for DirectX 9.0

4X AGP

Video Memory 64MB

Audio HP Premier Sound 16-bit sound, Line out/headphone and microphone jacks

Fixed Optical Drive DVD/CD-RW Combo

MultiBay Weight Saver

Communications 56K (V.92) modem,

Integrated 10/100/1000 NIC

Pointing Device Dual pointing devices (both Point stick and Touchpad)

Battery 8-cell Lithium-lon battery
Power External 65W adapter

Warranty 3/3/0

Standard Features

Cnc8000RP160S540DGN512

DN890A#XXX

Processor 1.6-GHz Intel Pentium-M processor with 400-MHz Processor Side Bus

Operating System Microsoft Windows 2000

Cache 1024 KB L2 cache

System Memory Standard 512-MB 333-MHz DDR SDRAM (512-MB SODIMM in slot 1)

Maximum 2-GB 333-MHz DDR SDRAM (1-GB SODIMM in slots 1 and 2)

Hard Drive 40GB 5400 RPM

Display 15-inch color TFT SXGA+ with 1280x1024 resolution (up to 16.7M colors

internal)

Graphics ATI MOBILITY RADEON 9600 Pro graphics controller

Hardware support for DirectX 9.0

4X AGP

Video Memory 64MB

Audio HP Premier Sound 16-bit sound, Line out/headphone and microphone jacks

Fixed Optical Drive DVD/CD-RW Combo

MultiBay Weight Saver

Communications 56K (V.92) modem,

Integrated 10/100/1000 NIC

Pointing Device Dual pointing devices (both Point stick and Touchpad)

Battery 8-cell Lithium-lon battery
Power External 65W adapter

Warranty 3/3/0

Options

Memory	1024-MB 333-MHz DDR Memory Upgrade 512-MB 333-MHz DDR Memory Upgrade 256-MB 333-MHz DDR Memory Upgrade	Compaq PN NA NA NA	HP PN DC890B DC390B DC389B
	230-1910 333-1911 12 DDK Melitory Opgrade	IVA	DC367B
MultiBay Hard Drives	60-GB 5400 rpm SMART Hard Drive	278420-B25	DC894A
	40-GB 5400 rpm SMART Hard Drive	263472-B25	DC365A
	30-GB 4200 rpm SMART Hard Drive	212791-B25	DE882A
MultiBay Storage Devices	24X Combo DVD/CD-RW	269089-B25	DC364A
	24X CD-RW	NA	DC921A
	8X DVD Drive	138230-B25	DC352A
	24X Max CD-ROM	298452-B25	DC351A
	Diskette Drive	226935-B25	DC362A
Other Storage Devices	IBM 1-GB Microdrive (PC card Device)	217390-B25	DC379A
G	USB Diskette Drive	230330-B25	DC361A
Expansion Bases	Port Replicator	307648-xx2	DC367B
	Advanced Port Replicator	307651-xx2	DC366B
	External MultiBay	217388-001/B31	DC373A#xxx
	Monitor Stand	274407-B25	DC377A
Power	8 Cell Primary Battery	NA	DG105A
	MultiBay Battery		DC889A
Common Power Solutions	External Battery Charger	265603-xxx	DC887A
	AC Adapter 65W	265602-xxx	DC359A
	Auto Power Adapter/Charger	265649-B25	DC360A
	Aircraft Power Cables	291370-B25	DC899A
	AC Line Cord (10 ft/3.1 m)	217932-xx2	DC851A
Input Devices	External Enhanced III Keyboard (carbon) USB/PS2 Keyboard	118003-009	DC852A
·	HP 2 Button Mouse (carbon) USB/PS2 Keyboard 2-button scroll	103180-B23	DC369A
	External 10-Key Numeric Keypad (carbon)	294317-B21	DC854A
Security	Biometric PC Card	146805-B25	DC859A
·	Security Cable Lock	294316-B21	DC368A
	HP Smart Card PC Card Reader	135646-B25	DC350A



Options

Carrying Cases	HP Ultra light Case (nylon)	167336-B21	DC853A
	Top Load Leather	NA	DC917A
	Executive Nylon	NA	DC916A
	HP Backpack	NA	DG102A





Memory

HP Compaq Business Notebook nc8000

Standard Memory Plus Optional Memory

Support for up to 2048 MB of 333-MHz DDR SDRAM memory is available with the installation of optional DDR SDRAM Memory Kits

0-MB of memory on system board

2 Slots total

1-512-MB DIMM installed in Slot 1

1-Additional open Memory Slot

Memory	Slot 1	Slot 2
	512 MB	Empty

Standard Memory with Optional Memory Upgrades

Support for up to 2048-MB of SDRAM is available with the installation of optional SDRAM Memory Upgrades.

Up to	Slot 1	Slot 2
512 MB	512 MB	Empty
1024 MB	512 MB	512 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.

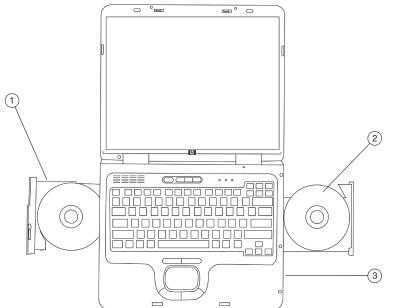
Following are memory options available from HP:

Memory Upgrades	HP PN
1024-MB 333-MHz DDR Memory Upgrade	DC890B
512-MB 333-MHz DDR Memory Upgrade	DC390B
256-MB 333-MHz DDR Memory Upgrade	DC389B

NOTE: 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.



Storage



- 1. Fixed Drive Bay
- 2. MultiBay
- 3. Hard Drive

Removable Media

System Drive Support	Quantity Supported	Drive Bay Supported
1.44-MB Diskette Drive	Up to 1	MultiBay
DVD+RW	Up to 1	MultiBay
DVD/CD-RW Combo Drive	Up to 1	MultiBay
DVD-ROM Drive	Up to 1	MultiBay
CD-RW Drive	Up to 1	MultiBay
CD-ROM Drive	Up to 1	MultiBay
NOTE: MultiBay support include	es the integrated MultiBay, the E	External MultiBay, and the Advanced Port Replicator MultiBay unless otherwise noted.

Removable Media

System Drive Support	Quantity Supported	Drive Bay Supported
DVD+RW	Up to 1	Fixed Drive Bay
DVD/CD-RW Combo Drive	Up to 1	Fixed Drive Bay
DVD-ROM Drive	Up to 1	Fixed Drive Bay
CD-RW Drive	Up to 1	Fixed Drive Bay
CD-ROM Drive	Up to 1	Fixed Drive Bay





Storage

Drive Support

System Drive Support

Primary Hard Drives

30-GB SMART Hard Drive	Up to 2	Dedicated hard drive bay and/or MultiBay
40-GB SMART Hard Drive	Up to 2	Dedicated hard drive bay and/or MultiBay
60-GB SMART Hard Drive	Up to 2	Dedicated hard drive bay and/or MultiBay



Technical Specifications

System Unit Dimensions (HxWxD 15-inch TFT panel display 1.6 x 12.8 x 10.8 in (4.1 x 32.6 x 27.5 cm)

Weight System with main battery and 6.5 lb (2.96 kg)

MultiBay weight saver

NOTE: * Height varies depending upon where on the notebook the measurement is made. Weight varies by configuration

and components.

Stand-Alone Power Nominal Operating Voltage 14.4 VDC

Requirements (Li-lon)

Max Operating Power 60W
Peak Operating Power 65W

Temperature Operating 50° to 95° F (10° to 35° C)

Non-operating -4° to 140° F (-20° to 60° C)

Relative Humidity Operating 10% to 90% relative humidity, non-condensing

Non-operating 5% to 90% relative humidity, 101.6° F (38.7° C)

Maximum wetbulb temperature

0 to 30,000 ft (9,144 m) (14.7 to 4.4 psia)

Shock Operating 40 G, 2 ms, half-sine

Non-operating

Non-operating 240 G, 2 ms, half-sine

Vibration Operating 0.5 G, 10 to 500 Hz, 0.5 Oct/Min sweep rate

Non-operating 1.0 G, 10 to 500 Hz, 0.5 Oct/Min sweep rate
Operating 0 to 10,000 ft (3,048 m) (14.7 to 10.1 psia)

Industry Standard Certifications

(unpressurized)

Maximum Altitude

Blue Angel No
UL Yes
Canadian Safety Yes
TUV GS Yes
Nordic Safety Yes

Nordic Safety
Yes
Mexican Safety
Yes
Poland Compliance
Australia/NZ Compliance
CCC
Yes
Japan Compliance
Yes
MIC
Yes

BSMI Yes
CE Marking Compliance Yes
KONCAR Yes
GOST Yes
SASO Yes
SABS Yes

UKRSERTCOMPUTER

External AC Adapter Weight 0.65 lb (0.29 kg) (adapter)

0.29 lb (0.13 kg) (power cord)

Power Supply (Input) Operating Voltage 90 to 264 VAC RMS

Operating Current 1.6 A RMS
Operating Frequency Range 47 to 63 Hz AC
Maximum Transient 4/50 kV

Yes

Maximum Operating Power 65 Watts



Technical Specifications

Primary Lithium-Ion **Battery Pack**

Dimensions $(H \times W \times L)$ 0.75 x 3.0 x 5.8 in (1.9 x 7.6 x 14.7 cm)

Weight 0.92 lb (0.42 kg) Cells/Type 8-cell Lithium-Ion

Voltage 14.4 V Energy

> 4.4 Ah Amp-hour capacity 63Wh Watt-hour capacity

Temperature Operating 41° to 113° F (5° to 45° C)

> 32° to 140° F (0° to 60° C) Non-operating

Battery Re-Charge Time System in OFF mode or

Standby

3 hours

System ON (depending on

3-5 hours system power consumption)

Optional MultiBay Battery Dimensions (H x W x L)

Pack

0.5 x 5.2 x 5.45 in (1.3 x 13.2 x 13.9 cm)

Weight (includes caddy) 0.86 lb (0.39 kg) Cells/Type 8-cell Lithium-Ion

Voltage Energy 14.8 V

Amp-hour capacity 3.6 Ah Watt-hour capacity 53Wh

41° to 113° F (5° to 45° C) **Temperature** Operating

32° to 140° F (0° to 60° C) Non-operating

2-3 hours

Battery Re-Charge Time System in OFF mode or

Standby

System ON (depending on 3-5 hours

system power consumption)

15.0-Inch Color TFT XGA Display

Dimensions $(H \times W \times L)$

Diagonal Size

12.0 x 9.0 in (30.4 x 22.8 cm)

Mounting Internal Number of Colors 16 M

Contrast Ratio 250:1 typical Refresh Rate 60 Hz

Brightness 180 nit typical

Pixel Resolution Pitch 0.297 x 0.297 mm

15.0 in (38.0 cm)

1024 x 768 **Format RGB** Stripe Configuration

Backlight CCFT Character Display 80 x 25 Total Power Consumption 4 W

Viewing Angle ±45° degrees Horizontal, +15° /-35° Vertical (typical)

Technical Specifications

15.0-Inch Color TFT SXGA+ Display **Dimensions** (H x W x L) 12.0 x 9.0 in (30.4 x 22.8 cm)

Diagonal Size 15.0 in (38.0 cm)

Mounting Internal
Number of Colors 16 M
Contrast Ratio 300:1 typical

Refresh Rate 60 Hz

Brightness 180 nit typical

Pixel Resolution Pitch 0.217 x 0.217 mm

Format 1400 x 1050 Configuration RGB Stripe

BacklightCCFTCharacter Display80 x 25Total Power Consumption4 W

Viewing Angle $\pm 60^{\circ}$ degrees Horizontal, $+40^{\circ}$ /- 45° Vertical (typical)

15.0-Inch Color TFT UXGA Display **Dimensions** (H x W x L) 12.0 x 9.0 in (30.4 x 22.8 cm)

Diagonal Size 15.0 in (38.0 cm)

MountingInternalNumber of Colors16 MContrast Ratio300:1 typicalRefresh Rate60 HzBrightness180 nit typical

Pixel Resolution Pitch 0.190 x 0.190 mm

Format 1600 x 1200 Configuration RGB Stripe

Backlight CCFT
Character Display 80 x 25

Total Power Consumption 4 W

Viewing Angle ±60° Horizontal, +40° /-45° Vertical (typical)

Hard Drives



Features

Technical Specifications

60-GB 5400 rpm MultiBay Drive Adapter Dimensions ($H \times W \times D$) 1.27 x 13.25 x 12.61 cm (0.5 x 5.21 x 4.97 in) Weight 0.15 lb (70 g) Drive Weight 0.22 lb (102 g) Capacity 60 GB 0.74 in (9.5 mm) Height Width 2.75 in (70 mm) Interface ATA-5 Transfer Rate 100 MB/s (Drive Capability) Synchronous (maximum) Security ATA Security 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 41° to 131° F (5° to 55° C) **Features** Security ATA Security 40-GB 5400 rpm MultiBay Drive Adapter Dimensions ($H \times W \times D$) 1.27 x 13.25 x 12.61 cm (0.5 x 5.21 x 4.97 in) Weight 0.15 lb (70 g) Drive Weight 0.22 lb (102 g) 40 GB Capacity Height 0.74 in (9.5 mm) Width 2.75 in (70 mm) Interface ATA-5 Transfer Rate 100 MB/s (Drive Capability) Synchronous (maximum) Security ATA Security 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° C)

Security

ATA Security

Technical Specifications

CD-ROM Drive Dimensions 0.5 x 5.22 x 5.46 in (1.35 x 13.28 x 13.88 cm)

> Weight 0.496 lb (225 g)

Access Times Random <110 ms CD

Multiword DMA Mode 2

Full Stroke <220 ms CD

Max data transfer rate 24X CD-ROM 3,600 KB/s

EIDE Interface

Transfer Mode

CD-DA, CD+(E)G, CD-MIDI, CD-TEXT, CD-ROM, CD-ROM XA, MIXED MODE CD, Supported Media (read)

CD-I, CD-I Bridge (Photo-CD, Video CD), Multisession CD (Photo-CD, CD-EXTRA,

Portfolio, CD-R, CD-RW), CD-R, CD-RW

Supported Media (write) None Media Capacity 650MB Transport Tray Loading

DVD-ROM Drive Dimensions 0.5 x 5.22 x 5.46 in (1.35 x 13.28 x 13.88 cm)

> Weight 0.518 lb (235 g)

<110 ms CD Access Times Random

<125 ms DVD

Full Stroke <175 ms CD

<225 ms DVD

Max data transfer rate 24X CD-ROM 3,600 KB/s

> 8X DVD 10,800 KB/s

Transfer Mode Multiword DMA Mode 2

EIDE Interface

Supported Media (read) CD-DA, CD+(E)G, CD-MIDI, CD-TEXT, CD-ROM, CD-ROM XA, MIXED MODE CD,

CD-I, CD-I Bridge (Photo-CD, Video CD), Multisession CD (Photo-CD, CD-EXTRA, Portfolio, CD-R, CD-RW), CD-R, CD-RW, DVD-ROM (DVD-5, DVD-9, DVD-10, DVD-

18), DVD-R, DVD-RW, DVD+R, DVD+RW, DVD-RAM

Supported Media (write) None 4.7 GB Media Capacity Transport Tray Loading



Technical Specifications

DVD/CD-RW Drive Dimensions 0.5 x 5.22 x 5.46 in (1.35 x 13.28 x 13.88 cm)

Weight 0.551 lb (250 g)

Access Times Random <110 ms CD

<130 ms DVD

Full Stroke <210 ms CD

<225 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

Transfer Mode Multiword DMA Mode 2

Interface EIDE

 $\textbf{Supported Media} \; (\text{read}) \qquad \text{CD-DA, CD+(E)G, CD-MIDI, CD-TEXT, CD-ROM, CD-ROM XA, MIXED MODE CD,}$

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

Media Capacity4.7 GBTransportTray Loading

DVD+RW Drive Dimensions 0.5 x 5.22 x 5.46 in (1.35 x 13.28 x 13.88 cm)

Weight 0.551 lb (250 g)

Access Times Random <175 ms CD

<230 ms DVD

Full Stroke <285 ms CD

<335 ms DVD

Max data transfer rate 24X CD-ROM 3,600 KB/s

 8X DVD
 10,800 KB/s

 16X CD-R
 2,400 KB/s

 8X CD-RW
 1,200 KB/s

 2X DVD+R
 2,700 KB/s

 2X DVD+RW
 2,700 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,DVD+R,DVD+RW

Media Capacity4.7 GBTransportTray Loading



Technical Specifications

CD/RW Drive Dimensions 0.5 x 5.22 x 5.46 in (1.35 x 13.28 x 13.88 cm)

Weight 0.518 lb (235 g)

 Access Times
 Random
 <130 ms CD</th>

 Full Stroke
 <200ms CD</td>

Max data transfer rate 24X CD-ROM 3,600 KB/s

24X CD-R 3,600 KB/s

10X CD-RW 1,500 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

Supported Media (write) CD-R, CD-RW,DVD+R,DVD+RW

Media Capacity4.7 GBTransportTray Loading

MultiBay Diskette Drive Dimensions (H x W x D) 0.5 x 5.22 x 5.46 in (1.35 x 13.28 x 13.88 cm)

 Weight
 0.51 lb (230 g)

 Diskette Size
 3.5 in

 Height
 12.7 mm

 Bytes per Sector
 512

Sectors per track High density 18 (1.44 MB)/15 (1.2 MB)

Low density 9

Tracks per side High density 80 (1.44 MB)/80 (1.2 MB)

Low density 80

Read/Write heads

Access Times Track-to track (high/low) 3 ms/6 ms

Average (high/low) 94 ms/174 ms Settling time 15 ms

Latency average 100 ms

Audio

Hardware Implementation AC97 CODEC

Audio Signal Link to CPU Audio CODEC (AC) link

Full Duplex Yes

Stereo Inputs Line In - 20K Impedance (with Port Replicator only)

Mono Inputs Microphone - 20K Impedance

Stereo Outputs Headphone jack, S/PDIF from Port Replicator only

Technical Specifications

NIC

Audio Output Quality Frequency Response 20 Hz - 20 kHz

Signal to Noise Ratio >94dB

Total Harmonic Distortion 0.01%

Noise Floor -120dB

Play/Record Sampling

Rate(s)

7 kHz - 48 kHz

AD/DA Resolution 16 bit

Mono Speaker Amplifier Power 2-Watts RMS

Speaker Impedance 4-Ohms

Integrated 10/100/1000 Ethernet Features 10 Mbit/s operation (10BASE-T; IEEE 802.3i; IEEE 802.3 clauses 13-14)

100 Mbit/s operation (100BASE-TX; IEEE 802.3u; IEEE 802.3 clauses 21-30)

1000 Mbit/s operation (1000BASE-T; IEEE 802.3z and 802.3ab; IEEE 802.3 clauses 34-

42)

Auto-Negotiation (Automatic Speed Selection)

Full Duplex Operation at all Speeds, Half Duplex operation at 10 and 100 Mbit/s

IEEE 802.1p QoS (Quality of Service) Support

IEEE 802.3x Flow Control (IEEE 802.3 clauses 31-32; configurable)

Power Management ACPI 1.1a compliant -- multiple power modes

Situation-sensitive features reduce power consumption

NIC Battery Saving Mode (enabled by default)

Performance Features TCP/IP/UDP Checksum Offload (configurable)

Microsoft Large Send Offload (configurable)

TCP Segmentation Offload

CPU Task Offload Adaptive Interrupts

Manageability Wake-on-LAN from all Power-Managed States (configurable; Magic Packet and Microsoft

Wake-Up Frame) PXE 2.0 Remote Boot

Statistics Gathering (SNMP MIB II, Ethernet-like MIB, Ethernet MIB (802.3x, clause 30))

Comprehensive diagnostic and configuration software suite

Cable Analyzer

NIC Device Driver Name

Broadcom NetXtreme Gigabit Ethernet

Drivers Available Windows XP

Windows 2000

Linux kernel versions 2.2 and 2.4



Technical Specifications

Agere Systems AC'97 Modem

Form Factor MDC Daughtercard Power Management APM Revision 1.2, ACPI

Support

Approvals/

UL, CSA, NEMKO, CCIB, Industry Canada, FCC Part 68, CTR21, FCC Part 15 Class B, Certifications Canadian ICES-003 Class B, C.I.S.P.R.22, Australian ACA, CE Mark, Other Countries

Modem Device Driver

Name

Agere Systems AC'97 Modem

Data Mode Capabilities V.92

V.90 (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.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

Bluetooth by HP Form Factor Integrated USB module

> Bluetooth 1.1 Compliant

Dimensions 1.02 x 0.55 x 0.22 in (26 x 14 x 5.7 mm)

-4° to 158° F (-20° to 70° C) **Temperature** Operating

 -40° to 176° F (-40° to 80° C) Non-operating

10% to 90% operating Humidity

5% to 95% non operating

Altitude Operating 15,000 ft (4,572 m)

> 40,000 ft (12,192 m) Non-operating

Plug and Play USB 1.1 compliant

Microsoft Windows Plug and Play compliant



Technical Specifications

Frequency Band 2402 to 2480 MHz

Number of Available

Channels

79 (1 MHz) available channels

Data Rates and

id Rules und

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

Antenna type Internally integrated within module

Range 33 ft (10 m)

OS Support Microsoft Windows XP Professional and Home

Microsoft Windows 2000

Software Stack Supported User may choose:

Microsoft User Interface (Profiles supported: HID, DUN, HCRP)

Widcomm User Interface (see profile support below)

Profile Support General Access Profile

Service Discovery Application Profile

Serial Port Profile

Generic Object Exchange Profile

File Transfer Profile Synchronization Profile Dial-Up Networking Profile LAN Access Profile Object Push Profile

Hard Copy Cable Replacement Profile Personal Area Networking Profile Human Interface Device Profile

Usage Models Service Discovery (determine what Bluetooth devices are within range and support

authorization)

Synchronization PDAs to PCs Portable to Desktop

File Transfer

File and directory browsing and navigation on another Bluetooth device.

File copying

Object manipulation – including add, delete, create new folders etc.

Wireless link to Corporate LAN using several Bluetooth devices sharing the same

Access Point

Corporate email, network neighborhood, access to LAN applications, file transfer, ftp,

Internet browsing, etc., using TCP/IP Wireless link to WAN thru cell phone Agnostic to WAN technology Send/receive SMS messages Wireless link to Printer

Adhoc peer to peer networking (two computers) or Personal Area Networking (PAN) using

NDIS (< 7 computers)

Adhoc Bluetooth Pico-networking (point to multi-point) Object Push – Business card or appointment exchange

Human Interface Devices

Wirelessly interface to notebook with mouse, keyboard, etc

Printing

Wirelessly print to Bluetooth enabled printers

Transmit Power -6dBm to 4 dBm (Bluetooth Class II)

Receive Sensitivity

Better than -80 dBM at 0.1 % raw bit error rate

Link Topology

Point to Point, Multipoint Pico Nets up to 7 slaves

Security

Full support of Bluetooth Security Provisions

Network Architecture Ad-hoc (Peer to Peer)

Models Infrastructure (Access Points Required)



Technical Specifications

Power Requirement Peak < 270 mW

Power Management Microsoft Windows ACPI, and USB Bus Support

Wireless EAB On/Off Software On/Off control

Self configurable to optimize power conservation in all operating modes, including

Standby, Hold, Park, and Sniff

Protocols Supported TCP/IP

IPX/SPX UDP

LED Activity Solid Blue LED – On

LED Off - Power Off

Certifications All necessary regulatory approvals for countries we support 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

HP W400 802.11b/g WLAN Wireless LAN Standards IEEE 802. Part 11b (802.11b)

IEEE 802. Part 11g (802.11g)

Interoperability Wi-Fi certified (details available 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 64- and 128-bit WEP encryption

Support for WiFi Protected Access (WPA) including TKIP, MIC

Hardware-accelerated support for the Advanced Encryption Standard (AES; 256-bit

encryption)

Support for 802.1x authentication types: EAP-TLS, LEAP (Cisco), PEAP (Microsoft implementation); more details available at http://www.hp.com/go/notebooks/wlan 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

Ad-hoc (Peer to Peer)

Models

Infrastructure (Access Point Required)

Roaming IEEE 802.11 compliant roaming between 802.11b/g access points.

Output Power 802.11b: 17 dBM (typical)

802.11g: 15 dBM (typical)

Power Consumption Transmit: 2.0 W (max)

Receive: 1.5 W (max) Sleep mode: 20 mW (max)

Power Management ACPI compliant power management

802.11 Compliant Power Saving Mode

Power Saving Mode selectable through the configuration utility

Receiver Sensitivity*

ensitivity* 54 Mbps: -70 dBm to 1 Mbps: -90 dbm

Antenna type High efficiency dual band antenna with polarization diversity, mounted in the display

enclosure

Range 802.11 b - Typical 1200 feet - Outdoor Open Area

300 feet - Indoor, Office environment

802.11 g - Typical 1000 feet - Outdoor Open Area

200 feet - Indoor, Office environment

Form Factor MiniPCI Type IIIA
Weight 0.035 lb (16 g)



Technical Specifications

Dimensions 0.19 x 2.00 x 2.35 in (4.8 x 50.95 x 59.75 mm)

Operating Voltage 3.3v

Temperature Operating 32° to 122° F (0° to 50° C)

Non-operating -14° to 158° F (-10° to 70° C)

Humidity Operating 10% to 90%

Non-operating 5% to 95%

Altitude Operating 0 to 15,000 ft (4,572 m)

Non-operating 0 to 40,000 ft (12,192 m)

Configuration Utility Choice of Configuration Utility:

Atheros Client Utility for Microsoft Windows 2000 or XP (required for Cisco Compatible

Extensions support

Microsoft Windows XP Wireless Zero Configuration Utility

NOTE: May also be compatible with certain third party software supplicants

LED Activity

LED Off - Radio OFF; Solid LED - Radio ON

Agency Approvals

details at: http://www.hp.com/go/notebooks/wlan

*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)

HP W500 802.11a/b/g WLAN Wireless LAN Standards IEEE 802 Part 11a (802.11a)

IEEE 802. Part 11b (802.11b) IEEE 802. Part 11g (802.11g)

Interoperability Wi-Fi certified (details available at http://www.hp.com/go/notebooks/wlan)

Frequency Band 2.4 and 5 GHz

Data Rates 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps

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 64- and 128-bit WEP encryption

Support for WiFi Protected Access (WPA) including TKIP, MIC

Hardware-accelerated support for the Advanced Encryption Standard (AES; 256-bit

encryption)

Support for 802.1x authentication types: EAP-TLS, LEAP (Cisco), PEAP (Microsoft implementation); more details available at http://www.hp.com/go/notebooks/wlan 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 Ad-hoc (Peer to Peer)

Models Infrastructure (Access Point Required)

Roaming IEEE 802.11 compliant roaming between 802.11a and 802.11b/g access points

Output Power 802.11b: 17 dBM (typical)

802.11g: 15 dBM (typical)

Power Consumption Transmit: 2.0 W (max)

Receive: 1.5 W (max) Sleep mode: 20 mW (max)

Power Management ACPI compliant power management

802.11 Compliant Power Saving Mode

Power Saving Mode selectable through the configuration utility

Receiver Sensitivity* 54 Mbps: -70 dBm to 1 Mbps: -90 dbm

Antenna type High efficiency dual band antenna with polarization diversity, mounted in the display

enclosure

Range 802.11a - Typical 500 feet - Outdoors Open Area

150 feet - Indoor, Office-environment



Technical Specifications

802.11 b - Typical 1200 feet - Outdoor Open Area

300 feet - Indoor, Office environment

802.11 g - Typical 1000 feet - Outdoor Open Area

200 feet - Indoor, Office environment

Form Factor MiniPCI Type IIIA
Weight 0.036 lb (16.5 g)

Dimensions 0.19 x 2.00 x 2.35 in (4.8 x 50.95 x 59.75 mm)

Operating Voltage 3.3v

Temperature Operating 32° to 122° F (0° to 50° C)

Non-operating -14° to 158° F (- 10° to 70° C)

 Humidity
 Operating
 10% to 90%

 Non-operating
 5% to 95%

Altitude Operating 0 to 15,000 ft (4,572 m)

Non-operating 0 to 40,000 ft (12,192 m)

Configuration Utility Choice of Configuration Utility:

Atheros Client Utility for Microsoft Windows 2000 or XP (required for Cisco Compatible

Extensions support)

Microsoft Windows XP Wireless Zero Configuration Utility

NOTE: May also be compatible with certain third party software supplicants

LED Activity

LED Off - Radio OFF; Solid LED - Radio ON

Agency Approvals

details at: http://www.hp.com/go/notebooks/wlan

*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)



Technical Specifications

Intel Pro/Wireless 2100 802.11b WLAN

Wireless LAN Standards IEEE 802. Part 11b (802.11b)

Interoperability Wi-Fi certified (details available at www.hp.com/go/notebooks/wlan)

Frequency Band 2.4 GHz

Data Rates 802.11b: 1, 2, 5.5, 11 Mbps Modulation Direct Sequence Spread Spectrum

DBPSK, DQPSK, CCK

Security 64- and 128-bit WEP encryption

Support for WiFi Protected Access (WPA) including TKIP, MIC

Hardware-accelerated support for the Advanced Encryption Standard (AES; 256-bit

encryption)

Support for 802.1x authentication types: EAP-TLS, LEAP (Cisco), PEAP (Microsoft implementation); more details available at www.hp.com/go/notebooks/wlan

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

Ad-hoc (Peer to Peer) Models Infrastructure (Access Point Required)

Roaming IEEE 802.11 compliant roaming between 802.11b access points

Output Power 16 dBM (typical)

Transmit: 2.0 W (max) Power Consumption

Receive: 1.75 W (max) Sleep mode: 200 mW (max)

Power Management ACPI compliant power management

802.11 Compliant Power Saving Mode

Receiver Sensitivity* 11 Mbps: -82 dBm to 1 Mbps: -89 dBm

High efficiency dual band antenna with polarization diversity, mounted in the display Antenna type

enclosure

1200 feet - Outdoor Open Area 802.11 b - Typical

300 feet - Indoor, Office environment

Form Factor MiniPCI Type IIIA Weight 0.026 lb (11.75 g)

0.20 x 1.75 x 2.34 in (4.9 x 44.6 x 59.8 mm) Dimensions

Operating Voltage 3.3v

Temperature 32° to 158° F (0° to 70° C) Operating

> -40° to 176° F (-40° to 80° C) Non-operating

Humidity Operating 10% to 90%

Non-operating 5% to 95%

Altitude Operating 0 to 10,000 ft (3,048 m)

Non-operating 0 to 50,000 ft (15,240 m)

Configuration Utility Choice of Configuration Utility:

Intel ProSet for Microsoft Windows 2000 or XP (required for Cisco Compatible Extensions

(troaque

Microsoft Windows XP Wireless Zero Configuration Utility

NOTE: May also be compatible with certain third party software supplicants

LED Activity LED Off - Radio OFF; Solid LED - Radio ON Agency Approvals details at: www.hp.com/go/notebooks/wlan

*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)



Technical Specifications

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