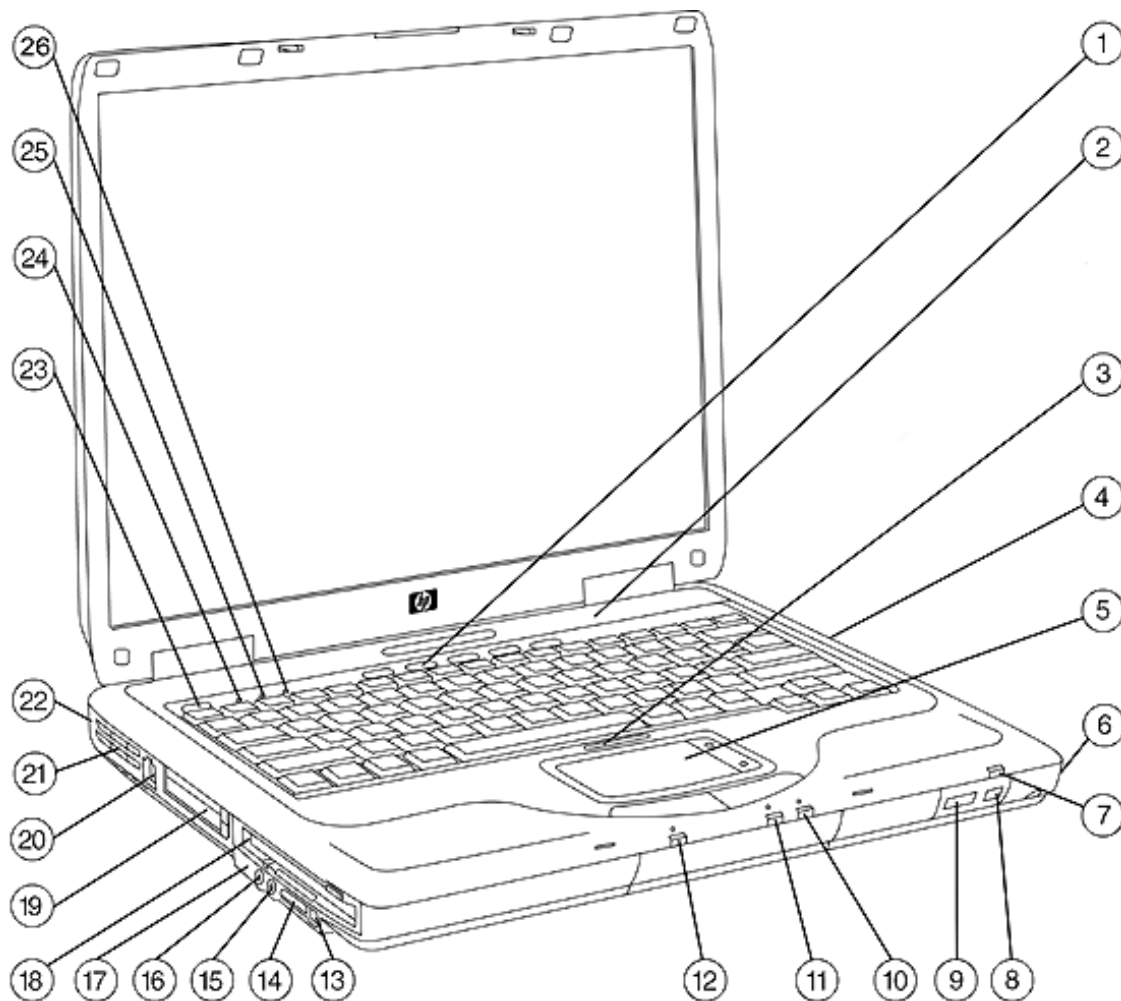
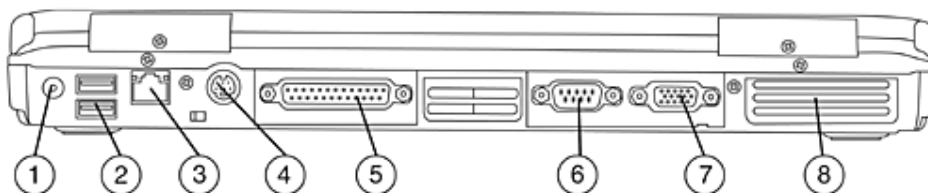


### Overview



- |                             |                       |
|-----------------------------|-----------------------|
| 1. Easy Access Buttons (5)  | 14. Volume Controls   |
| 2. Stereo Speakers          | 15. Headphone         |
| 3. Touch Pad On/Off Button  | 16. Audio In          |
| 4. Fixed Optical Drive      | 17. 1394 Port         |
| 5. Touch Pad                | 18. Diskette Drive    |
| 6. Primary Battery          | 19. PC Card Slots (2) |
| 7. Wireless LED             | 20. RJ-11 (Modem)     |
| 8. Wireless On/Off Button   | 21. Air Vent          |
| 9. Infrared Port            | 22. Kensington Lock   |
| 10. Battery Charging LED    | 23. Power Button      |
| 11. Hard Drive Activity LED | 24. Caps Lock LED     |
| 12. System Power LED        | 25. Num Lock LED      |
| 13. Mute Lock LED           | 26. Keypad LED        |

### Overview



- |                  |                  |
|------------------|------------------|
| 1. DC In         | 5. Parallel Port |
| 2. USB Ports (2) | 6. Serial Port   |
| 3. RJ-45         | 7. VGA Video     |
| 4. S-Video       | 8. Vent          |

### At A Glance

- Microsoft Windows XP Professional
- Intel® Pentium® M processors with Intel Centrino™
- Intel 855GM with 400-MHz Front Side Bus
- Support for 15.0-inch display
- Two 266-MHz DDR memory slots with support for up to 2048 MB (configurations offered up to 1024 MB)
- 9.5-mm ATA100 4200-rpm hard drive at 40 GB, 4200 rpm
- Integrated optical drive support for 8x DVD-ROM or 24x DVD/CD-RW combination
- Optional integrated 1.44-MB floppy disk drive
- Integrated 10/100 Ethernet NIC
- Support for 802.11b/g solution
- Integrated 56-K data/fax modem
- Support for a wide range of peripheral devices
- Protected by a three-year, worldwide limited warranty (certain restrictions and exclusions apply). Consult the HP Customer Support Center for details.

### What's Special

- Centrino branding with innovative mobile technologies
- Range of connectivity solutions
- Support for legacy devices
- Range of integrated graphics solutions

### Standard Features

<b>Processors</b>	Intel Pentium M Processor 735 (1.7 GHz, 2MB L2 cache, 400 MHz FSB) <b>NOTE:</b> Intel Pentium M Processors support enhanced Intel SpeedStep™ technology. Processor speed denotes maximum performance mode; processors run at approximately 600 MHz in battery optimization mode. * Intel's numbering is not a measurement of higher performance. All other product names mentioned herein may be trademarks of their respective companies.
<b>Operating System</b>	Microsoft Windows XP Professional
<b>Chipset</b>	Intel 855GM Chipset with 400MHz Front Side Bus
<b>Displays</b>	Internal 15.0-inch XGA display with 1024 x 768 resolution and 16 M colors External Up to 32-bit per pixel color depth Supports 640 x 480, 800 x 600, 1024 x 768, 1280 x 768, 1280 x 1024, or 1600 x 1200 resolutions up to 100-Hz refresh rate, dependent upon monitor capability, and resolution and color depth settings <b>NOTE:</b> Durable PC-ABS plastic display enclosure.
<b>Memory</b>	Standard Configurable from 128 to 1024 MB 266-MHz DDR Maximum 2048-MB 266-MHz DDR SDRAM* <b>NOTE:</b> Uses PC 2700 DDR 333MHz memory module but system runs at 266MHz. Due to the non-industry standard nature of some third-party memory modules, we recommend HP branded memory to ensure compatibility. * Configuration offered only up to 1024 MB.
<b>Communications</b>	LAN Integrated 10/100 NIC Wireless Intel PRO/Wireless 2200BG 802.11b/g Mini PCI Modem 56 KB data/fax modem <b>NOTE:</b> Designed only to allow faster downloads from compliant sources. Maximum achievable download transmission rates currently do not reach 56 KB/s, and will vary with line conditions. <b>NOTE:</b> Modem availability is subject to country regulatory approval.
<b>Keyboard</b>	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, brightness, display selection, 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.
<b>Quick Launch Buttons</b>	Five Quick Launch buttons designed to provide one-touch access to commonly used features including Internet access, Wireless on/off, and Presentation mode

### Standard Features

**Status indicator** Seven LEDs: System power, battery charging, disk activity, Caps Lock, Num Lock, keypad, and wireless

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**Pointing Device** Touchpad with two-way scroll device

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**PC Card Slots** Two Type I/II PC Card slots; 16-bit PCMCIA and 32-bit CardBus

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**Storage**

<b>Diskette Drives</b>	Integrated 1.4 MB floppy diskette drive		
<b>Hard Drives</b>	9.5 mm, ATA 100 40 GB, 4200 rpm		
<b>Optical Drives</b>	<b>Fixed Bay</b>	8x DVD-ROM 24x DVD/CD-RW combination	

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**Multimedia**

- AC Link audio
- Speakers
- External volume control
- Ports for headphone and external microphone
- Microphone in
- Intervideo WinDVD enables MPEG2 playback (CD only - SKUs don't get this software)
- Windows Media Player enables MPEG1 playback (Part of Windows XP)
- Optical drives: 8x DVD-ROM, 24x DVD/CD-RW combination

**NOTE:** No internal microphone.

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**Interfaces**

PC Card	Two Type I/II slots
External Monitor	One port
16-bit PCMCIA and 32-bit CardBus	One port
Microphone	One port
Headphone	One port
DC power	Auto/Air adapter support External 65 W three-wire AC adapter
RJ-11	One port – modem
RJ-45	One port – NIC
Infrared	One port 4 Mb/s support IrDA 4-MB compliant <b>NOTE:</b> IR performance varies depending on performance of IR peripherals and application used.
Parallel	One port
Serial	One port
S-video out	One port Support for NTSC/PAL
USB 2.0	Two ports
IEEE-1394	One four-pin port

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### Standard Features

<b>Graphics</b>	Integrated Intel Extreme Graphics 2 with up to 64MB of shared system memory for graphics
<b>Audio</b>	AC Link audio Speakers Microphone and headphone jacks Volume control
<b>Software</b>	<b>Preinstalled Software</b> Adobe Acrobat Reader 6.0 HP Quick Launch Button Software HP Mobile Printing Driver HP Help and Support (XP Only) Synaptics Touchpad Driver WinDVD 4.0 - DVD Player (for optional DVD+/-RW, DVD/CDRW combo and DVD drives)* Symantec Antivirus software <b>NOTE:</b> <a href="#">Symantec Norton Antivirus 2003 (Complimentary 60 days Live Update)</a> . Sonic RecordNow 6.5 (for optional DVD+/-RW & DVD/CDRW combo drives) <b>Software Available on Internet</b> Microsoft Windows 2000 drivers <b>NOTE:</b> *Software is loaded on the HDD and must be installed by running the Setup Compaq Software utility.
<b>System Recovery</b>	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.
<b>Security</b>	Configuration control through F10 set-up Memory change alert Ownership tag Set-up password Power-on password DriveLock Kensington Lock Slot
<b>Power Supply</b>	External 65 watt AC adapter with 6-foot (1.8-meter) power cord Total length including external AC adapter is 12 feet (3.66 m)
<b>Battery</b>	Eight-cell Lithium-Ion

### Notebook Battery Life benchmark results

## Standard Features

HP Compaq nx9030		
Processor/RAM	Pentium M 1.6 GHz	1 GB
Operating System	XP Pro, SP1a	
HDD/Mfr.	40GB	
Video Driver	Intel 855GME	
Resolution/colors	15.0" XGA	
CD-ROM	DVD RW	
BIOS release	Phoenix NB 4.0 rel 6.0	
Battery chemistry	Li-Ion	
Nominal rating	11.1V, 4.4AH, 48 Wh, 6-cell	

Business Winstone BatteryMark 2004	Run Date	COMMENTS
6-cell, Wireless off	3h 42m	

Power Management Settings	
Scheme	Portable/Laptop
Turn off monitor	Never
Turn off hard disks	Never
System Standby	Never
Hibernation	Off
LCD Brightness	Half brightness under DC power (5/10 clicks)
Volume control	Half
Wireless (802.11 & Bluetooth)	Off

### Quick Specs disclaimer:

**NOTE:** Actual results may vary with product model, configuration, and individual usage. Hewlett-Packard testing of a HP Compaq nx9030 with an Intel Celeron M 1.5GHz CPU, Windows XP Pro, 14.1-inch XGA LCD, 256-MB RAM, 40-GB HDD, 11.1V Lithium-Ion battery, and NIC/modem, achieved an overall Business Winstone 2004 BatteryMark score of **3h 42m** Business Winstone® 2004 BatteryMark™ Version 1.1 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 2003 Ziff Davis Media Inc. All Rights Reserved.

**Power Conservation** Supports enhanced Intel SpeedStep Technology (which allows Battery Optimized Mode, Maximum Performance Mode, or Automatic mode)  
 Hibernation  
 Instant-on via standby  
 ACPI compliance  
**NOTE:** Enhanced Intel SpeedStep™ technology support is only on Intel Pentium-M processors.

**Wireless Devices** Intel PRO/Wireless 2200BG 802.11b/g wireless LAN Up to 54 Mbps at 2.4 GHz Wi-Fi certified

## Standard Features

### Service and Support

HP Services include a three-year Worldwide Limited Warranty, which covers mail-in, pick-up-and-return (PUR), or carry-in support and defective parts replacement for the first year of ownership.

**NOTE:** Warranty terms may vary by geographic region. For detailed warranty information, refer to the warranty statement included with the product or to the HP website <http://h20000.www2.hp.com/bizsupport/TechSupport/ProductRoot.jsp>.

### Models

**Hnx9040UP735X540DCc25P**  
P/N PU384UA#ABA

<b>Processor</b>	Intel Pentium M 735 (1.7GHz) 400 MHz FSB
<b>Operating System</b>	Microsoft Windows XP Professional
<b>Display</b>	15-inch color TFT XGA
<b>Cache Memory</b>	2MB, L2 Cache
<b>Standard Memory</b>	256 MB (1 DIMM) 266 MHz DDR
<b>Maximum Memory</b>	2048 MB (266 MHz) DDR
<b>Hard Drive</b>	40 GB
<b>Optical Drive</b>	DVD Drive
<b>Communications</b>	Type III Mini PCI 56K high speed modem, (LOM) integrated 10/100 NIC Integrated 802.11b/g WLAN
<b>Graphics</b>	Intel Extreme Graphics 2 with 64MB shared system memory
<b>Warranty</b>	Three Year

**Hnx9040UP735X540WCc51P**  
P/N PU383UA#ABA

<b>Processor</b>	Intel Pentium M 735 (1.7GHz) 400 MHz FSB
<b>Operating System</b>	Microsoft Windows XP Professional
<b>Display</b>	15-inch color TFT XGA
<b>Cache Memory</b>	2MB, L2 Cache
<b>Standard Memory</b>	512 MB (2 DIMM) 266 MHz DDR
<b>Maximum Memory</b>	2048 MB (266 MHz) DDR
<b>Hard Drive</b>	40 GB
<b>Optical Drive</b>	DVD/CD-RW Drive
<b>Communications</b>	Type III Mini PCI 56K high speed modem, (LOM) integrated 10/100 NIC Integrated 802.11b/g WLAN
<b>Graphics</b>	Intel Extreme Graphics 2 with 64MB shared system memory
<b>Warranty</b>	Three Year

### Options

Memory	512-MB 333-MHz DDR Memory Upgrade	DC390B
	256-MB 333-MHz DDR Memory Upgrade	DC389B
	<b>NOTE:</b> System runs at a maximum of 266 MHz with 333 MHz memory modules installed.	
Storage Devices	MultiBay DVD+/-RW	DG189B
	MultiBay 24x DVD/CD-RW combination	DC364A
	MultiBay 8x DVD-ROM	DC352A
	MultiBay CD-ROM	DC351A
	USB MultiBay Cradle	DC373A#B14
Other Storage Devices	USB Diskette Drive	DC361A
	HP USB Digital Drive	DL702B
	HP USB Digital Drive with 128MB SD memory	DL702A
Power	Li-Ion Standard replacement	F4809A
Common Power Solutions	External Battery Charger	DF933A#ABA
	65W AC Adapter	DC359A#ABA
	AC Adapter 90W	DC895B#ABA
	Auto Power Adapter/Charger (90W)	DC303B
	Aircraft Power Cables (90W)	DC899A
	Combo 90W Power supply (Air/Auto/AC) available September	DV574A#ABA
Input Devices	USB Travel Mouse (optical scroll mouse)	F2100A
	USB/PS2 Mouse	DC369A
	External 10-Key Numeric Keypad (PS/2)	DG954
	4-Port USB 2.0 Hub	DC852A
	Wireless Mouse & Keyboard	DL989A#ABA
Security	Security Cable Lock	DC368A
	PC Card Smart Card Reader	DC350B
Carrying Cases	HP Entry Value Carrying case	DL617A
	HP Value Nylon Case	DC915A
	HP Top Load Leather Case	DC917A
	HP Leather/Nylon Case (October)	PA847A
	HP Sport Backpack	DG102A

## Memory

### HP Compaq nx9040 Business Notebook

Up to 2048 MB of 266-MHz DDR SDRAM memory  
 Two DIMM slots (user accessible under the keyboard deck)  
 DIMM sizes supported: 128 MB, 256 MB, 512 MB, or 1024 MB

- Standard Memory**
- 128 MB (128 MB x 1)
  - 256 MB (256 MB x 1)
  - 512 MB (512 MB x 1 or 256 MB x 2)
  - 1024 MB (512 MB x 2)

\*Configuration offered only up to 1024 MB

**Optional Memory Upgrades** Support for up to 2048 MB of memory is available (with the installation of optional DDR SDRAM memory kits)

Memory	Slot 1	Slot 2
128 MB	128 MB	Empty
256 MB	256 MB	Empty
512 MB	256 MB	256 MB
512 MB	512 MB	Empty
768 MB	512 MB	256 MB
1024 MB	1024 MB	Empty
1024 MB	512 MB	512 MB
1280 MB	1024 MB	256 MB
1536 MB	1024 MB	512 MB
2048 MB	1024 MB	1024 MB

**NOTE:** This chart does not represent all possible memory configurations.

**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.

- Memory Upgrades**
- |                 |        |
|-----------------|--------|
| 1024 MB 333 MHz | DC890B |
| 512 MB 333 MHz  | DC390B |
| 256 MB 333 MHz  | DC389B |

**NOTE:** System runs at a maximum of 266 MHz with 333 MHz memory modules installed

## Storage

### Removable Media Drive Support

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System Drive Support	Quantity Supported
DVD/CD-RW combination	Up to one
DVD-ROM	Up to one
1.44-MB diskette	Up to one

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### Hard Drive Support

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System Drive Support	Drive Bay Supported
40-GB 4200 rpm SMART Hard Drive	Dedicated hard drive bay

### Technical Specifications

<b>System Unit</b>	<b>Dimensions (HxWxD)</b>	15.0-inch TFT panel display support	12.96 x 10.72 x 1.65 in for 15-inch LCD (32.92 x 27.23 x 4.19 cm for 15-inch LCD)
	<b>Weight</b>	With 8-cell std battery (option)	6.99 lb (3.17 kg) with 15.0-inch display
<b>NOTE:</b> Height varies depending upon where on the notebook the measurement is made. Weight varies by configuration and components.			
<b>Stand-Alone Power Requirements</b>	Nominal Operating Voltage		14.8V (on 8-cell battery) 18.5V (on AC power)
	Average Operating Power		9.76W (on battery) (with portable/laptop) 19.41W (on AC power)
	Peak Operating Power		65W
	Power in suspend mode		< 200 mW
	Power in hibernation mode		< 50 mW
	<b>Temperature</b>	Operating	
	Non-operating		-4° to 140° F (-20° to 60° C)
<b>Relative Humidity</b>	Operating		10% to 90% relative humidity, non-condensing
	Non-operating		5% to 90% relative humidity, 101.6° F (38.7° C) maximum wet bulb temperature
<b>Shock</b>	Operating		50 G, 2 ms, half-sine
	Non-operating		175 G, 2 ms, half-sine
<b>Random Vibration</b>	Operating		0.75 grms
	Non-operating		1.50 grms
<b>Vibration</b>	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
<b>Altitude</b>	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)
<b>Maximum Altitude (unpressurized)</b>	Operating		0 to 10,000 ft (3,048 m) (14.7 to 10.1 psia)
	Non-operating		0 to 30,000 ft (9,144 m) (14.7 to 4.4 psia)
<b>Industry Standard</b>	Blue Angel		No

### Technical Specifications

<b>Certifications</b>	UL	Yes
	Energy Star	Yes
	Canadian Safety	Yes
	CSA (Canada)	Yes
	TUV GS	No
	Nordic Safety	No
	Mexican Safety	Yes
	Poland Compliance	Yes
	Australia/NZ Compliance	Yes
	CCC	Yes
	Taiwan Greenmark	Yes
	Japan Compliance	Yes
	MIC	Yes
	BSMI	Yes
	CE Marking Compliance	Yes
	KONCAR	Yes
	GOST	Yes
	SASO	Yes
	SABS	Yes
UKRSERTCOMPUTER	Yes	

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<b>External AC Adapter</b>	<b>Weight</b>	0.535 lb (0.24 kg) (adapter) 0.29 lb (0.13 kg) (power cord)
	<b>Power Supply (Input)</b>	Operating Voltage 100 to 240 VAC RMS Operating Current 1.7 A RMS Operating Frequency 47 to 63 Hz AC Range Maximum Transient 4/50 kV

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### Technical Specifications

Primary Lithium-Ion Battery Pack	Dimensions (H x W x L)	0.827 x 3.742 x 5.276 in (2.1 x 9.505 x 13.4 cm)			
	Weight	0.75 lb (0.34 kg)			
	Cells/Type	6-cell Lithium-Ion	3S2P		
	Energy	Voltage	11.1V		
		Amp-hour capacity	4.4 Ahr		
		Watt-hour capacity	50 Whr		
	Temperature	Operating	Discharge	32° to 158° F (0° to 70° C)	
			Charge	32° to 140° F (0° to 60° C)	
		Non-operating	For 1 month	-4° to 140° F (-20° to 60° C)	
			For 3 months	-4° to 113° F (-20° to 45° C)	
Battery Re-Charge Time	System in OFF mode or Standby	For 6 months	-4° to 86° F (-20° to 30° C)		
		System ON (depending on system power consumption)	~2.3 hours		
		System ON (depending on system power consumption)	Depend on system loading		

15.0-Inch Color TFT XGA Display	Dimensions (H x W x L)	11.8 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	250:1 typical		
	Refresh Rate	60 Hz		
	Brightness	150 nit typical		
	Pixel Resolution	Pitch	0.297 x 0.297 mm	
		Format	1024x 768	
		Configuration	RGB Stripe	
	Backlight	CCFT		
Character Display	80 x 25			
Total Power Consumption	5.5 W			
Viewing Angle	±40° degrees Horizontal, +20°/-40° Vertical (typical)			

### Hard Drives

## Technical Specifications

40-GB 4200 rpm	Drive Weight	0.22 lb (102 g)	
	Capacity	40 GB	
	Height	0.374 in (9.5 mm)	
	Width	2.75 in (70 mm)	
	Interface	ATA-5	
	Transfer Rate	Synchronous (maximum)	100 MB/s (Drive Capability)
	Seek Time (typical reads, including settling)	Single Track	3.0 ms
		Average	13 ms
		Maximum	24 ms
	Rotational Speed	4200 rpm	
	Logical Blocks	78,140,160	
	Operating Temperature	41° to 131° F (5° to 55° C)	
	Features	ATA security	

24x DVD/CD-RW Combination Drive	Dimensions	0.5 x 5.21 x 4.97 in (1.27 x 13.25 x 12.61 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
		24X CD-R	3,600 KB/s
		24X CD-RW	3,600 KB/s
		8X DVD-ROM	10,500 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, DVD-ROM, DVD-R, DVD+R, DVD-RW, DVD+/-RW, DVD-RAM	
	Supported Media (write)	CD-R, CD-RW	
	Max Media Capacity (read)	4.7GB	
Max Media Capacity (write)	700MB		
Transport	Tray Loading		

### Technical Specifications

8x DVD-ROM Drive	Dimensions	0.5 x 5.21 x 4.97 in (1.27 x 13.25 x 12.61 cm)		
	Weight	0.518 lb (235 g)		
	Access Times	Random	<100 ms CD	
			<125 ms DVD	
		Full Stroke	<175 ms CD	
			<225 ms DVD	
	Max data transfer rate	24X-CD-ROM	3,600 KB/s	
		24X-CD-R	3,600 KB/s	
		24X-CD-RW	3,600 KB/s	
		8X- DVD-ROM	10,800 KB/s	
	Transfer Mode	Multiword DMA Mode 2		
	Interface	EIDE		
	Supported Media (read)	CD-DA, CD+(E)G, CD-MIDI, CD-TEXT, CD-ROM, CD-ROM XA, MIXED MODE CD, CD-I, CD-I Bridge (Photo-CD, Video CD), Multisession CD (Photo-CD, CD-EXTRA, Portfolio, CD-R, CD-RW), CD-R, CD-RW, DVD-ROM (DVD-5, DVD-9, DVD-10, DVD-18), DVD-R, DVD-RW, DVD+R, DVD+RW, DVD-RAM		
Supported Media (write)	None			
Max Media Capacity (read)	4.7 GB			
Max Media Capacity (write)	None			
Transport	Tray Loading			

Optional Integrated Diskette Drive	Diskette Size	3.5 in		
	Height	0.5 in (12.7 mm)		
	Bytes per Sector	512		
	Sectors per track	High density	18 (1.44 MB)/15 (1.2 MB)	
		Low density	9	
		High density	80 (1.44 MB)/80 (1.2 MB)	
		Low density	80	
	Read/Write heads	2		
	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		

### Technical Specifications

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)	
			Microphone - 20K Impedance	
		Stereo Outputs	Headphone jack, S/PDIF from Port Replicator only	
			Audio Output Quality	Frequency Response
			Signal to Noise Ratio	>90dB
			Total Harmonic Distortion	0.01%
			Noise Floor	-120dB
			Play/Record Sampling Rate(s)	7 kHz - 48 kHz
			AD/DA Resolution	16 bit

### Communications

Intel PRO/Wireless 2200BG 802.11b/g Network Connection	Form Factor	Mini PCI Type 3B (model WM3B2200BG)
	Dual Diversity Antenna	On-board dual diversity switching
	Frequency Band	2.4 to 2.497 GHz
	Modulation	CCK, DQPSK, DBPSK, OFDM
	Wireless Medium	2.4 GHz ISM: Direct Sequence Spread Spectrum (DSSS)
	Channels	Full 14 Channel Support. Multinational support with frequency bands and channels compliant to local regulations.
	Data Rates	802.11b: 1, 2, 5.5, 11Mbps 802.11g: 6, 9, 12, 18, 24, 36, 48, 54Mbps
	Indoor Range	100 ft (30 m) @ 11Mbps/300 ft (90 m) @ 1 Mbps
	Outdoor Range	400 ft (120 m) @ 11Mbps/1500 ft (460 m) @ 1 Mbps
	Transmit Output Power	18 dBm (typical) for 802.11b 15 dBm (typical) for 802.11g (varies with data rate)
	Operating Systems	Microsoft Windows XP Professional Microsoft Windows XP Home Edition Microsoft Windows 2000
	WECA	WiFi certification for 802.11b, 802.11g
	WHQL	Yes
	WLAN Standard	IEEE 802.11b, 802.11g
	Architecture	Infrastructure or ad hoc (peer-to-peer)
	Roaming	IEEE 802.11 compliant for seamless roaming between access points
	Security	LEAP, TKIP, 802.1x, EAP-TLS, 128-bit and 64-bit WEP

### Technical Specifications

<b>Integrated 10/100 NIC</b>	<b>Ethernet Features</b>	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 Selection) Full Duplex Operation at all Speeds, Half Duplex operation at 10 and 100 Mbit/s IEEE 802.3x Flow Control (IEEE 802.3 clauses 31-32; configurable)
	<b>Power Management</b>	ACPI 1.1a compliant -- multiple power modes Situation-sensitive features reduce power consumption
	<b>Manageability</b>	Wake-on-LAN from all Power-Managed States (configurable; Magic Packet and Microsoft Wake-Up Frame) PXE 2.0 Remote Boot Statistics Gathering (RMON, Ethernet-like MIB, Ethernet MIB (802.3x, clause 30)) Comprehensive diagnostic and configuration software suite
	<b>NIC Device Driver Name</b>	Broadcom 440X 10/100 Integrated Controller
	<b>Drivers Available</b>	Windows XP Windows 2000 DOS NDIS2 and ODI

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<b>Conexant Modem</b>	<b>Form Factor</b>	Modem On Motherboard
	<b>Power Management Support</b>	APM Revision 1.2, ACPI
	<b>Approvals/Certifications</b>	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
	<b>Data Mode Capabilities</b>	High speed 56K modem (a-law, mu-law) V.8bis V.80 V.44, V.42bis, MNP5 (Compression) V.42 (LAPM, MNP2-4) (Error Correction) V.34 (file date: 10/96) <b>Optional symbol rates:</b> 2800, 3429 Asymmetric Symbol rates <b>Synchronous primary channel data signaling rates:</b> 3600, 31200 Automatic rate re-negotiation V.32bis V.32 V.23 V.22bis V.22 V.21 Bell 212A Bell 103J

## Technical Specifications

	TIA-578-S (Class 1) T.30, T.4 (Group 3) V.17 V.29 V.27ter V.21 Channel 2
<b>Fax Mode Capabilities</b>	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
<b>Command Set</b>	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

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