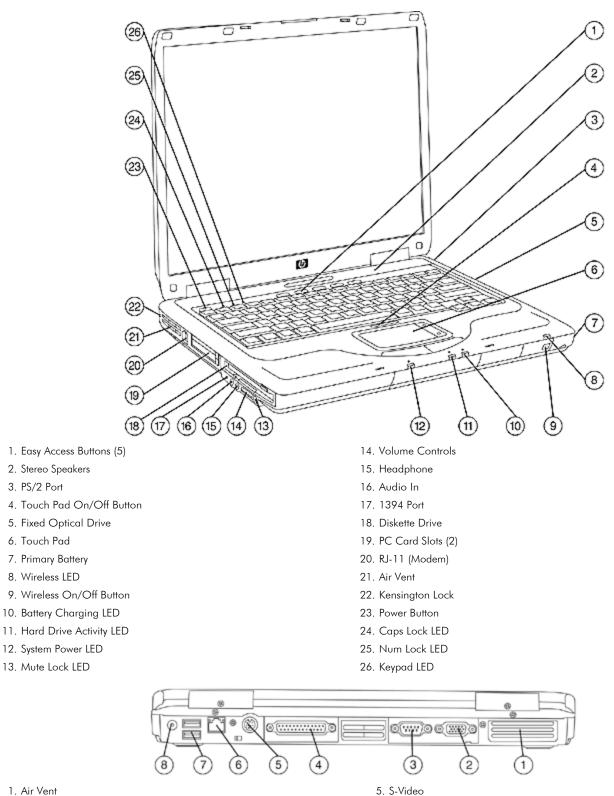
Overview



- 1. Air Vent
- 2. VGA Video
- 3. Serial
- 4. Parallel Port

6. RJ-45 (NIC)

7. USB Ports (2) 8. DC In

Overview

At A Glance

- Mobile AMD Athlon[™] XP-M processors up to 2.0GHz with enhanced PowerNow technology
- Microsoft Windows XP Professional, or Microsoft Windows XP Home
 NOTE: Microsoft Windows 2000 driver support through web.
- UMA architecture
- 15-inch SXGA+ with wide-viewing angle, XGA, SXGA+ and 14.1-inch XGA display
- Configurations as light as 6.75 lb/3.06 kg and as thin as 1.51 in/3.84 cm thin(14-inch panel)
- 256MB or 512MB DDR SDRAM (266 MHz), Upgradeable to 1GB
- Up to 60GB (4200 rpm) hard drive
- Integrated NIC, modem and available 802.11b and 802.11g Wireless LAN
- Full-size keyboard with five Quick Launch Buttons
- Includes a one-year, Worldwide Limited Warranty. Certain restrictions and exclusions apply. Consult the HP Customer Support Center for details.

What's New

- Mobile AMD Athlon™ XP-M processors up to 2.0 GHz with enhanced PowerNow™ technology
- Microsoft Windows XP Professional, or Microsoft Windows XP Home NOTE: Microsoft Windows 2000 driver support through web.
- Two Type II PC Card Slots
- Available Integrated 802.11b or 802.11g WLAN
- Touchpad with dedicated On/Off button and dedicated scroll

What's Special

- Mobile AMD Athlon™ XP-M
- Microsoft Windows XP Professional, or Microsoft Windows XP Home NOTE: Microsoft Windows 2000 driver support through web.
- All-in-one convenient design
- Designed for affordability
- IEEE 1394



Standard Features

Processors and Chipset One of the following:	Mobile AMD Athlon Mobile AMD Athlon Chipset: ATI Radeor	XP-M 2600+ (Quanti speed architecture running at 2.0 GHz) with 512KB L2 cache XP-M 2500+ (Quanti speed architecture running at 1.87 GHz) with 512KB L2 cache XP-M 2400+ (Quanti speed architecture running at 1.80 GHz) with 512KB L2 cache XP-M 2200+ (Quanti speed architecture running at 1.80 GHz) with 256KB L2 cache XP-M 2000+ (Quanti speed architecture running at 1.67GHz) with 256KB L2 cache XP-M 1900+ (Quanti speed architecture running at 1.60 GHz) with 256KB L2 XP-M 1900+ (Quanti speed architecture running at 1.60 GHz) with 256KB L2 XP-M 1800+ (Quanti speed architecture running at 1.533 GHz) with 256KB L2 cache XP-M 1700+ (Quanti speed architecture running at 1.467 GHz) with 256KB L2 cache XP-M 1600+ (Quanti speed architecture running at 1.40 GHz) with 256KB L2 cache XP-M 1500+ (Quanti speed architecture running at 1.33 GHz) with 256KB L2 cache AP-M 1500+ (Quanti speed architecture running at 1.33 GHz) with 256KB L2 cache AP-M 1500+ (Quanti speed architecture running at 1.33 GHz) with 256KB L2 cache AP-M 1500+ (Quanti speed architecture running at 1.33 GHz) with 256KB L2 cache AP-M 1500+ (Quanti speed architecture running at 1.33 GHz) with 256KB L2 cache AP-M 1500+ (Quanti speed architecture running at 1.33 GHz) with 256KB L2 cache	
Operating System	Microsoft Windows	KP Professional (requires 256MB of memory minimum) preinstalled or XP Home (limited language availability) preinstalled Vindows 2000 Driver support via web.	
Displays	Internal	15-inch color TFT SXGA+ with 1400 x 1050 resolution (up to 16.7M colors internal) -wide- viewing angle 15-inch color TFT SXGA+ with 1400 x 1050 resolution (up to 16.7M colors internal) 15-inch color TFT XGA with 1024 x 768 resolution (up to 16.7M colors internal) 14.1-inch color TFT XGA with 1024 x 768 resolution (up to 16.7M colors internal)	
	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		256 MB (266 MHz) DDR SDRAM (256 MB SODIMM in slot 1) or 512 MB (266 MHz) DDR SDRAM (512 MB SODIMM in slot 1) 1 GB (266 MHz) DDR SDRAM (512MB (266 MHz) in slot 1 and 2) DDR (16MB standard shared video memory).	
		DDR (64MB standard shared video memory). AB shared video memory user configurable with 512MB or 1GB memory configuration.	
Communications	Integrated 10/100 NIC High speed 56K modem 802.11b WLAN on select models 802.11g WLAN on select models Wireless on/off button		
Keyboard	Full-size desktop-compatible keyboard; special feature hotkeys for instant access to toggling between internal and external displays, or simultaneous displays and brightness; oversized keys and separate cursor control keys (87 keys) – 101-key compatible.		
Easy Access Buttons	Five-One Touch Quick Launch Buttons.		



Standard Features

Pointing Device	Touch pad with on/off button and dedicated scroll up/down surface				
PC Card Slots	Two Type II PC Card slots w	Two Type II PC Card slots with support for 16-bit PCMCIA and 32-bit Cardbus			
Storage	Fixed Diskette Drive	1.44 MB Diskette Drive			
	Primary Hard Drive	60 GB 4200rpm SMART Ultra ATA Hard Drive 40 GB 4200rpm SMART Ultra ATA Hard Drive 30 GB 4200rpm SMART Ultra ATA Hard Drive 20 GB 4200rpm SMART Ultra ATA Hard Drive			
	Fixed Optical Drive	DVD/CD-RW combo Drive CD-RW Drive DVD Drive CD Drive			
Audio	Integrated Speakers, Volume control & Mute buttons, AC/97, SoundBlaster Pro compatible, 16-bit stereo sound				
Multimedia	Dual Speakers with bass reflex and 16bit stereo sound				
	Dual Speakers with bass refl	ex and 16bit stereo sound			
	Dual Speakers with bass retl Dedicated Hardware volume				
	Dedicated Hardware volume				
	Dedicated Hardware volume Headphone-out port	e controls and Hotkeys			
	Dedicated Hardware volume Headphone-out port Microphone in port	e controls and Hotkeys 1PEG2 and DVD			
	Dedicated Hardware volume Headphone-out port Microphone in port Software MPEG1 support, N DVD/CD-RW Combination	e controls and Hotkeys 1PEG2 and DVD			
	Dedicated Hardware volume Headphone-out port Microphone in port Software MPEG1 support, N DVD/CD-RW Combination	e controls and Hotkeys 1PEG2 and DVD Drive (on select models) e playback software (on select models)			
	Dedicated Hardware volume Headphone-out port Microphone in port Software MPEG1 support, N DVD/CD-RW Combination DVD-ROM Drive with movie	e controls and Hotkeys NPEG2 and DVD Drive (on select models) e playback software (on select models)			
	Dedicated Hardware volume Headphone-out port Microphone in port Software MPEG1 support, N DVD/CD-RW Combination DVD-ROM Drive with movie CD-ROM Drive (on select m	e controls and Hotkeys NPEG2 and DVD Drive (on select models) e playback software (on select models)			
	Dedicated Hardware volume Headphone-out port Microphone in port Software MPEG1 support, N DVD/CD-RW Combination DVD-ROM Drive with movie CD-ROM Drive (on select m S-video Port	e controls and Hotkeys 1PEG2 and DVD Drive (on select models) e playback software (on select models)			



Standard Features

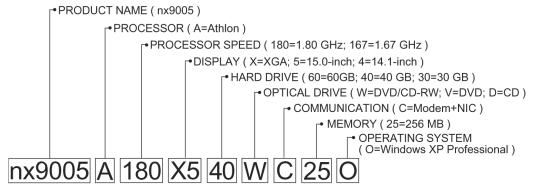
Interfaces	PC Card	2 Type I/II
	Enhanced Parallel EPP/ECP	
	PS/2	1
	S-Video (NTSC/PAL)	1
	VGA	
	1394 - select models	
	Port Replicator – select models	1
	Headphone/Line-out	
	Microphone-in	
	Serial Port	
	DC Power	1
	RJ-11 (modem)	
	, ,	
	RJ-45 (NIC)	
	USB 1.1 Port	2
	LED status indicators	8
	System power	
	Battery chargingHard drive activity	
	 Caps lock 	
	 Num lock 	
	 Keypad 	
	 Wireless 	
	 Mute Lock 	
Graphics	UMA architecture – ATI Mobility w/128MB main memory, 64MB	r Radeon, AGP 4x and 3D Architecture, MPEG2 and DVD playback, standard 16MB shared shared w/256MB or more main memory, configurable up to 128MB with 512MB or 1 GB
	UMA architecture – ATI Mobility w/128MB main memory, 64MB memory configurations.	shared w/256MB or more main memory, configurable up to 128MB with 512MB or 1 GB
	UMA architecture – ATI Mobility w/128MB main memory, 64MB memory configurations. Intervideo WinDVD Playback Sc	shared w/256MB or more main memory, configurable up to 128MB with 512MB or 1 GB
	UMA architecture – ATI Mobility w/128MB main memory, 64MB memory configurations.	shared w/256MB or more main memory, configurable up to 128MB with 512MB or 1 GB
	UMA architecture – ATI Mobility w/128MB main memory, 64MB memory configurations. Intervideo WinDVD Playback Sc	shared w/256MB or more main memory, configurable up to 128MB with 512MB or 1 GB
	UMA architecture – ATI Mobility w/128MB main memory, 64MB memory configurations. Intervideo WinDVD Playback Sc Roxio Easy CD Creator (on CDI	shared w/256MB or more main memory, configurable up to 128MB with 512MB or 1 GB
	UMA architecture – ATI Mobility w/128MB main memory, 64MB memory configurations. Intervideo WinDVD Playback Sc Roxio Easy CD Creator (on CDI Safety and Comfort Guide	shared w/256MB or more main memory, configurable up to 128MB with 512MB or 1 GB
	UMA architecture – ATI Mobility w/128MB main memory, 64MB memory configurations. Intervideo WinDVD Playback Sc Roxio Easy CD Creator (on CDI Safety and Comfort Guide Acrobat Reader	shared w/256MB or more main memory, configurable up to 128MB with 512MB or 1 GB
	UMA architecture – ATI Mobility w/128MB main memory, 64MB memory configurations. Intervideo WinDVD Playback So Roxio Easy CD Creator (on CDI Safety and Comfort Guide Acrobat Reader Reference Guide	shared w/256MB or more main memory, configurable up to 128MB with 512MB or 1 GB
	UMA architecture – ATI Mobility w/128MB main memory, 64MB memory configurations. Intervideo WinDVD Playback Sc Roxio Easy CD Creator (on CDI Safety and Comfort Guide Acrobat Reader Reference Guide One touch button software	shared w/256MB or more main memory, configurable up to 128MB with 512MB or 1 GB
Graphics Software	UMA architecture – ATI Mobility w/128MB main memory, 64MB memory configurations. Intervideo WinDVD Playback Sc Roxio Easy CD Creator (on CDI Safety and Comfort Guide Acrobat Reader Reference Guide One touch button software Symantec Norton Anti-virus	shared w/256MB or more main memory, configurable up to 128MB with 512MB or 1 GB offware RW, DVD/CDRW)
Software	UMA architecture – ATI Mobility w/128MB main memory, 64MB memory configurations. Intervideo WinDVD Playback Sc Roxio Easy CD Creator (on CDI Safety and Comfort Guide Acrobat Reader Reference Guide One touch button software Symantec Norton Anti-virus HP Help and Support Microsoft Office on select mode Each unit is shipped with a reco These CDs allow users to either data. The Operating System CD notebook. (NOTE: This option erases the	shared w/256MB or more main memory, configurable up to 128MB with 512MB or 1 GB offware RW, DVD/CDRW) els
Software System Recovery	UMA architecture – ATI Mobility w/128MB main memory, 64MB memory configurations. Intervideo WinDVD Playback Sc Roxio Easy CD Creator (on CDI Safety and Comfort Guide Acrobat Reader Reference Guide One touch button software Symantec Norton Anti-virus HP Help and Support Microsoft Office on select mode Each unit is shipped with a recor These CDs allow users to either data. The Operating System CD notebook. (NOTE: This option erases the using the other CDs provided w	shared w/256MB or more main memory, configurable up to 128MB with 512MB or 1 GB offware RW, DVD/CDRW) els
	UMA architecture – ATI Mobility w/128MB main memory, 64MB memory configurations. Intervideo WinDVD Playback Sc Roxio Easy CD Creator (on CDI Safety and Comfort Guide Acrobat Reader Reference Guide One touch button software Symantec Norton Anti-virus HP Help and Support Microsoft Office on select mode Each unit is shipped with a reco These CDs allow users to either data. The Operating System CD notebook. (NOTE: This option erases the	shared w/256MB or more main memory, configurable up to 128MB with 512MB or 1 GB offware RW, DVD/CDRW) els



Standard Features

Power Supply	External 90-Watt AC adapter, power cord included. The HP Compaq Business Notebook nx9005 provides up to 2 ½ hours of battery life using the standard 8-cell Lithium-Ion battery, 4.4Ahr and Smart Battery Technology (provides accurate, instantaneous battery status).			
Battery				
	NOTE: Actual results may vary with product model, configuration, and individual usage. Hewlett-Packard testing of a nx9005 with an AMD Athlon 1600+ CPU, Windows XP Pro, 15.0-inch XGA LCD, 256-MB RAM, 20-GB HDD, DVD, Lithium-Ion battery, and NIC/modem, achieved an overall Business Winstone 2002 BatteryMark score of 2h 56m 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	Hibernation			
	Instant-on via Standby			
	One custom level of power conservation			
	Energy Star Compliant			
Mangement Capabilties	DMI 2.0			
Service and Support	HP Services includes a one-year, Worldwide Limited Warranty, pick-up or carry-in; upgraded warranty and toll-free 7 x 24 hardware technical phone support available. NOTE: Certain restrictions and exclusions apply. Consult the HP Customer Support Center for details.			
	. Content residence and exclusions apply. Consolinite in Costonici Support Contention defuils.			

The Etymology of a Model name





Options

Storage	USB 16MB Disk on Key IBM 1GB Microdrive Zip 250 External Drive (USB)	DF517A 217390-B25 174255-001
Memory	128MB (266 MHz) DDR RAM Memory Upgrade	269085-B25 or DC388A
	256MB (266 MHz) DDR RAM Memory Upgrade	269086-B25 or DC389A
	512MB (266 MHz) DDR RAM Memory Upgrade	269087-B25 or DC390A
Expansion	Simple Port Replicator (USB 2.0)	F4808B or F4811B
Power	Primary Battery Pack	F4809A
	AC Adapter 90W Auto/Truck Adapter 90W	F4813A DC303A
Carrying Cases	HP Executive Nylon Case	DC916A
	HP Top Load Nylon Carrying Case HP Top Load Leather Carrying Case	DC915A DC917A
Security	PC Card Biometrics ID Device	146805-B25
	PC Card Smart Card Reader Security Cable Lock	135646-B25 294316-B21
Input/Output Devices	External 10-Key Numeric Keypad (PS/2)	294317-B21
	USB/PS2 Keyboard	118003-xx9
	USB/PS2 Mouse	103180-B22
	USB Diskette Drive USB Travel Mouse	F5101A F2100A



Memory

HP Compaq nx9005 Business Notebook

Standard Memory Plus Optional Memory

Support for up to 1024 MB total of DDR SDRAM memory is available with the installation of optional DDR SDRAM Memory Kits.

Memory	Slot 1	Slot 2
256 MB	128 MB	128MB
256 MB	256 MB	-
384 MB	256 MB	128 MB
512 MB	512 MB	-
768 MB	512 MB	256 MB
1024 MB	512 MB	512 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 Compaq branded memory modules to ensure compatibility.

Following are memory options available from Compaq:

- 512-MB (266 MHz) Memory Upgrade 269087-B25 or DC390A
- 256-MB (266 MHz) Memory Upgrade 269086-B25 or DC389A
- 128-MB (266 MHz) Memory Upgrade
 269085-B25 or DC388A



Storage

Drive Support

System Drive Support	Quantity Supported	Drive Supported
1.44-MB Diskette Drive	1/0	Dedicated diskette drive
DVD/CD-RW Combo Drive	1	Dedicated optical drive
CD-RW Drive	1	Dedicated optical drive
DVD-ROM Drive	1	Dedicated optical drive
Max CD-ROM Drive	1	Dedicated optical drive
Hard Drives		
60-GB Hard Drive	1	Dedicated hard drive bay
40-GB Hard Drive	1	Dedicated hard drive bay
30-GB Hard Drive	1	Dedicated hard drive bay



r V N S	Dimensions (HxWxD) Weight	14.1-inch TFT panel displays 15-inch TFT panel displays	1.51 x 12.96 x 10.72 in (3.84 x 32.75 x 27.23 cm) 1.62 x 12.96 x 10.72 in (4.12 x 22.75 x 27.23 cm)	
۲ S	Veight	15-inch TFT panel displays		
۲ S	Weight		(4.12 x 32.75 x 27.23 cm)	
S		14.1-inch TFT panel displays	6.75 lb (3.06 kg)	
S		15-inch TFT panel displays	7.25 lb (3.29 kg)	
	NOTE: * = Weight varies by c	onfiguration.		
	Stand-Alone Power Requirements	Nominal Operating Voltage (Li-Ion)	14.4 V (8-cell)	
		Average Operating Power	29.7 W Desktop	
		Peak Operating Power	82 W on AC 55 W on DC	
		Power in suspend mode	< 1000 mW	
		Power in hibernation mode	< 100 mW	
P	Power Supply	Rated Input Voltage	100 to 240 VAC	
		Rated Input Current	4.74 A	
		Rated Frequency	50 to 60 Hz	
Т	l'emperature	Operating	50° to 95° F (10° to 35° C)	
		Non-operating	14° to 140° F (–10° to 60° C)	
R	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	
S	Shock	Operating	10 G, 11 ms, half-sine	
		Non-operating	60 G, 11 ms, half-sine	
v	/ibration	Operating	0.5 G zero-to-peak, 10 to 500 Hz, 0.25 oct/min sweep rate	
		Non-operating	1.0 G, zero-to-peak, 10 to 500 Hz, 0.5 oct/min sweep rate	
٨	Maximum Altitude	Operating	0 to 10,000 ft (0 to 3,048 m)	
((unpressurized)	Non-operating	0 to 30,000 ft (0 to 9,144 m)	
14.1-Inch Color TFT XGA	Dimensions (H x W)	11.22 x 8.46 in (28.5 x 21.5 cr	n)	
Display D	Diagonal Size	14.1 in (35.81 cm)		
٨	- Mounting	Internal Panel Supports, Side N	1ounted	
١	Number of Colors	Up to 16.8M		
(Contrast Ratio	150:1		
E	Brightness	120nt typ		
F	Pixel Resolution	Pitch	0.264 x 0.264 mm	
		Format	1024 x 768	
		Configuration	RGB stripe	
E	Backlight	Edge Lit		
	Character Display	80 x 25		
	Fotal Power Consumption			
	/iewing Angle	±35 degrees Horizontal, +15	/-35 Vertical (typical)	



Technical Specifications

15-Inch Color TFT SXGA+	- Dimensions (H x W)	11.8 x 9 in (30.4 x 22.8 cn	n)	
Display - wide-viewing	Diagonal Size	15 in (38 cm)		
angle	Mounting	Internal Panel Supports, Side Mounted Up to 16.8M		
	Number of Colors			
	Contrast Ratio	150:1		
	Brightness	130nt typ		
	Pixel Resolution	Pitch	0.218 x 0.218 mm	
		Format	1400 x 1050	
		Configuration	RGB stripe	
	Backlight	Edge Lit		
	Character Display	80 x 25		
	Total Power Consumption	5.75W		
	Viewing Angle	±65 degrees Horizontal, -	⊦50 /-50 Vertical (typical)	
15-Inch Color TFT SXGA+	- Dimensions (H x W)	11.8 x 9 in (30.4 x 22.8 cn	n)	
Display	Diagonal Size	15 in (38 cm)	·7	
	Mounting	Internal Panel Supports, Si	de Mounted	
	Number of Colors	Up to 16.8M		
	Contrast Ratio	150:1		
	Brightness	105nt typ		
	Pixel Resolution	Pitch	0.218264 x 0.218264 mm	
		Format	1400 x 1050	
		Configuration	RGB stripe	
	Backlight	Edge Lit		
	Character Display	80 x 25		
	Total Power Consumption	5.75W		
	Viewing Angle	±35 degrees Horizontal, +15 /-35 Vertical (typical)		
15-Inch Color TFT XGA	Dimensions (H x W)	11.8 x 9 in (30.4 x 22.8 cn	n)	
Display	Diagonal Size	15 in (38 cm)		
	Mounting	Internal Panel Supports, Side Mounted		
	Number of Colors	Up to 16.8M		
	Contrast Ratio	150:1		
	Brightness	150nt typ		
	Pixel Resolution	Pitch	0.297 x 0.297 mm	
		Format	1024 x 768	
		Configuration	RGB stripe	
	Backlight	Edge Lit		
	Character Display	80 x 25		
	Total Power Consumption	5.0W		
		±35 degrees Horizontal, +15 /-35 Vertical (typical)		

Hard Drives



60-GB (4200 rpm)	Drive Weight	0.34 lb (155 g)	
- (1 /	Capacity	60 GB	
	Height	0.374 in (9.5 mm)	
	Width	70 mm	
	Interface	ATA-5	
	Transfer Rate	Synchronous (maximum)	100 MB/s (Drive Capability)
		Security	ATA Security
	Seek Time	Single Track	3 ms
	(typical reads, including	Average	13 ms
	settling)	Maximum	25 ms
	Rotational Speed	4200 rpm	
	Logical Blocks	117,210,240	
	Operating Temperature	41° to 131° F (5° to 55° C)	
	Features	Security	ATA Security
		occomy	
40-GB (4200 rpm)	Drive Weight	0.21 lb (95 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)
		Security	ATA Security
	Seek Time	Single Track	3.0 ms
	(typical reads, including settling)	Average	13 ms
		Maximum	25 ms
	Rotational Speed	4200 rpm	
	Logical Blocks	78,140,160	
	Operating Temperature	41° to 131° F (5° to 55° C)	
30-GB (4200 rpm)	Drive Weight	0.22 lb (99 g)	
	Capacity	30 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)
		Security	ATA Security
	Seek Time	Single Track	2.5 ms
	(typical reads, including settling)	Average	12 ms
		Maximum	23 ms
	Rotational Speed	4200 rpm	
	Logical Blocks	58,605,120	
	Operating Temperature	41° to 131° F (5° to 55° C)	



20-GB (4200 rpm)	Drive Weight	0.21 lb (95 g)	
	Capacity	20 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)
		Security	ATA Security
	Seek Time	Single Track	2.5 ms
	(typical reads, including	Average	12 ms
	settling)	Maximum	23 ms
	Rotational Speed	4200 rpm	
	Logical Blocks	~38,070,080	
	Operating Temperature	41° to 131° F (5° to 55° C)	
Audio	Hardware	Implementation	Connexant SmartAMC CX20468-21 AC97 CODEC
		Audio Signal Link to CPU	
		Full Duplex	Full duplex audio recording and playback
		Stereo Inputs	Line In - 10K Impedance (min.)
		Mono Inputs	Microphone - 10K Impedance (min), with Port Replicator only.
		Stereo Outputs	Headphone jack, internal speaker, S/PDIF for Port Replicator only
		Analog Frequency Response	20 Hz - 20 kHz
	Audio Output Quality	Frequency Response	300 Hz - 20 kHz
		Signal to Noise Ratio	>94dB
		Total Harmonic Distortion	-50 dBFS (PC2001 (Mobile PC) protocol)
		Noise Floor	
		Play/Record Sampling Rate(s)	7 kHz to 48 kHz
		AD/DA Resolution	Stereo full-duplex audio codec with 18-bit resolution
	Stereo Speaker	Amplifier Power	1 Watt (Normal), 2.5 Watts (Maximum)
		Speaker Impedance	4-Ohms ± 15% at 1.5 KHz
		Frequency Response	400 Hz - 20 kHz 83 ± 10 dB



Diskette Drive	Diskette Size Height Bytes per Sector Sectors per track Tracks per side Read/Write heads Access Times	3.5 in 0.5 in (12.7 mm) 512 High density Low density High density Low density 2 Track-to track (high/low) Average (high/low)	18 (1.44 MB)/15 (1.2 MB) 9 80 (1.44 MB)/80 (1.2 MB) 80 3 ms/6 ms 94 ms/174 ms
		Settling time Latency average	15 ms 100 ms
External AC Adapter without Power Faction Correction	Weight Power Supply (Input)	0.67 lb (0.304 kg) Operating Voltage Operating Current Operating Frequency Range	100 to 240 VAC RMS 1.7 A RMS 47 to 63 Hz AC
External AC Adapter with Power Faction Correction (EMEA/PRC)	-	0.76 lb (0.345 kg) Operating Voltage Operating Current Operating Frequency Range	100 to 240 VAC RMS 1.5 A RMS 47 to 63 Hz AC
Lithium-Ion Battery Pack (8-cell)	Dimensions (L x W x D) Weight Energy Temperature	5.25 x 3.63 x 0.75 in (13.4 x 9 0.96 lb (0.43 kg) Voltage Amp-hour capacity Watt-hour capacity Operating	2.2 x 1.9 cm) 14.8 V Typical 4.4 Ah Typical 64 Wh 32° to 140° F (0° to 60° C)
		Non-operating	-4° to 140° F (-20° to 60° C)



DVD/CD-RW Drive	Center Hole Diameter	15 mm	
	Disk Diameter	12 cm, 8 cm	
	Disk Thickness	1.2 mm	
	Track Pitch	1.6 μm	
	Access Times (typical reads, including settling)	Random CD	< 110 ms
		Full-Stroke CD	< 210 ms
		Random DVD	< 130 ms
		Full-Stroke DVD	< 225 ms
	Audio Output Level	0.7 – 0.9 Vrms	
	Cache Buffer	2 Mbytes (minimum)	
	Data Transfer Rate	CD-R (24X)	3600 KB/s (150 KB/s at 1X CD rate)
	(typical, including settling)	CD-RW (10X)	1200 KB/s (150 KB/s at 1X CD rate)
		CD-ROM (24X)	3600 KB/s (150 KB/s at 1X CD rate)
		DVD (8X)	10,800 KB/s (1352 KB/s at 1X DVD rate)
		Normal PIO Mode 4 (single burst)	16.6 MB/s
	Start-up Time	Single	< 9 seconds (typical)
		Multi-Session	< 30 seconds (typical)
	Stop Time	< 6 seconds (typical)	
DVD-ROM Drive	Center Hole Diameter	0.59 in (1.5 cm)	
DAD-KOM Plive	Disk Diameter	12 cm/8 cm	
	Disk Thickness	1.2 mm	
	Track Pitch	0.74 μm (DVD)/1.6 μm (CD)	
	Access Times	Random (typical)	< 125 ms DVD Media
	(typical reads, including settling)	Full-Stroke (typical)	< 225 ms DVD Media
		Random (typical)	< 100 ms CD Media
		Full-Stroke (typical)	< 175 ms CD Media
	Cache Buffer	512 KB/s (minimum)	
	Data Transfer Rate	Max 24X CD	3600 KB/s (150 KB/s at 1X CD rate)
	(typical, including settling)	Max 8X DVD	10,800 KB/s (1352 KB/s at 1X CD Tate)
	Start-up Time	< 12 seconds Typical	
	Stop Time	< 3 seconds Typical	
		< o seconds rypical	



24X CD-ROM Drive	Applicable Disk	CD-ROM (Mode 1, 2 and 3), CD-XA ready (Mode 2, Form 1 and 2), CD-I ready (Mode 2, Form 1 and 2), CD-R (read only), CD Plus, Photo CD (Single and Multi-session), CD- Extra, Video CD, CD-WO (fixed packets only), CD-Bridge	
	Center Hole Diameter	0.59 in (15 mm)	
	Disk Diameter	12 cm, 8 cm	
	Disk Thickness	0.047 in (1.2 mm)	
	Track Pitch	1.6 μm	
	Access Times	Random	< 110 ms
	(typical reads, including settling)	Full-Stroke	< 220 ms
	Audio Output Level	Line-out	0.7-0.9 Vrms
	Cache Buffer	128 KB	
	Data Transfer Rate (typical, including settling)	CD-ROM	3600 KB/s Maximum
	Start-up Time	< 10 seconds	
	Stop Time	< 5 seconds	



Integrated Conexant 56K ACLink Modem	Form Factor	Integrated on motherboard
	Power Management Support	APM Revision 1.2, ACPI
	Approvals/ Certifications	UL, CSA, NEMKO, CCIB, Industry Canada, FCC Part 68, CTR21, FCC Part 15 Class B, Canadian ICES-003 Class B, C.I.S.P.R.22, Australian ACA, CE Mark, Other Countries
	Data Mode Capabilities	High speed 56K modem (a-law, mu-law)
		K56flex (a-law, mu-law)
		V.8bis
		V.80
		V44.bis, MNP5 (Compression)
		V42.bis, 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-578-S (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



Integrated 10/100 NIC	NIC Device Driver Name Data Link Layers	National Semiconductor Corp. DP83815/816 10/100 MacPhyter PCI Adapter IEEE 802.2 LLC SNAP	
	Ethernet Features	10 Mbps Ethernet: IEEE 802.3 standard 10BASE-T	
		100 Mbps Ethernet: IEEE 802.3u standard 100BASE-TX	
		Full Duplex at 10 and 100Mbps	
		Auto-Negotiation	
		Wake on LAN from Standby (S3)	
		Lower Power State on Link Loss	
	Software support	Microsoft Windows 2000, Windows XP Home and Pro	
	Protocol support	TCP/IP	
		Novell IPX/SPX and Microsoft compatible	
		Novel IPX ODI	
		Microsoft NetBEUI	
		IBM DLC	
HP 802.11b WLAN	WLAN Standard	802.11b	
	Frequency band	2.4 GHz	
	Data rates	1, 2, 5.5, and 11 Mbps	
	O/S Support	Microsoft Windows XP Professional	
		Microsoft Windows XP Home	
		Microsoft Windows 2000 ¹	
	WiFi-certified	Yes	
	Interface	MiniPCI Type III	
	Chipset	Intersil Prism 2.5	
	Security	Support for 802.1x authentication types EAP-TLS, PEAP, EAP-MD5, EAP-TTLS; support for up to 128 bit WEP encryption	
	NOTE ¹ : Driver upgrade may obtain driver updates for your r	be required for ratified IEEE 802.11g standard compliance. Visit <u>www.hp.com/support/</u> to notebook.	
HP 802.116 WLAN	WLAN Standard	802.11b	
	Frequency band	2.4 GHz	
	Data rates	1, 2, 5.5, and 11 Mbps	
	O/S Support	Microsoft Windows XP Professional	
		Microsoft Windows XP Home	
		Microsoft Windows 20001	
	WiFi-certified	Yes	
	Interface	MiniPCI Type III	
	Chipset	Broadcom 4301/2050	
	Security	Support for 802.1x authentication types EAP-TLS, PEAP, EAP-TTLS, Cisco LEAP ² ; support for up to 128 bit WEP encryption, WPA	
	NOTE ¹ : Driver upgrade may be required for ratified IEEE 802.11g standard compliance. Visit <u>www.hp.com/support/</u> to obtain driver updates for your notebook. NOTE ² : Requires the use of a software supplicant: Broadcom 802.11b and 802.11g Network Adapters User Interface (provided by HP).		



Technical Specifications

HP 54g WLAN W450	WLAN Standard	IEEE 802.11b, 802.11g
	Frequency band	2.4 GHz
	Data rates	802.11b: 1, 2, 5.5, and 11 Mbps 802.11g: 1, 2, 5.5, 6, 9, 11, 12, 18, 24, 36, 48, 54 Mbps
	O/S Support	Microsoft Windows XP Professional
		Microsoft Windows XP Home
		Microsoft Windows 2000 ¹
	WiFi-certified	Yes
	Interface	MiniPCI Type III
	Chipset	Broadcom 4306B0/2050 chipset
	Security	Support for 802.1x authentication types EAP-TLS, PEAP, EAP-TTLS, Cisco LEAP ² ; support for up to 128-bit WEP encryption, WPA
	NOTE ¹ : Driver upgrade may be required for ratified IEEE 802.11g standard compliance. Visit <u>www.hp.com/support/</u> to obtain driver updates for your notebook. NOTE ² : Requires the use of a software supplicant: Broadcom 802.11b and 802.11g Network Adapters User Interface (provided by HP).	

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