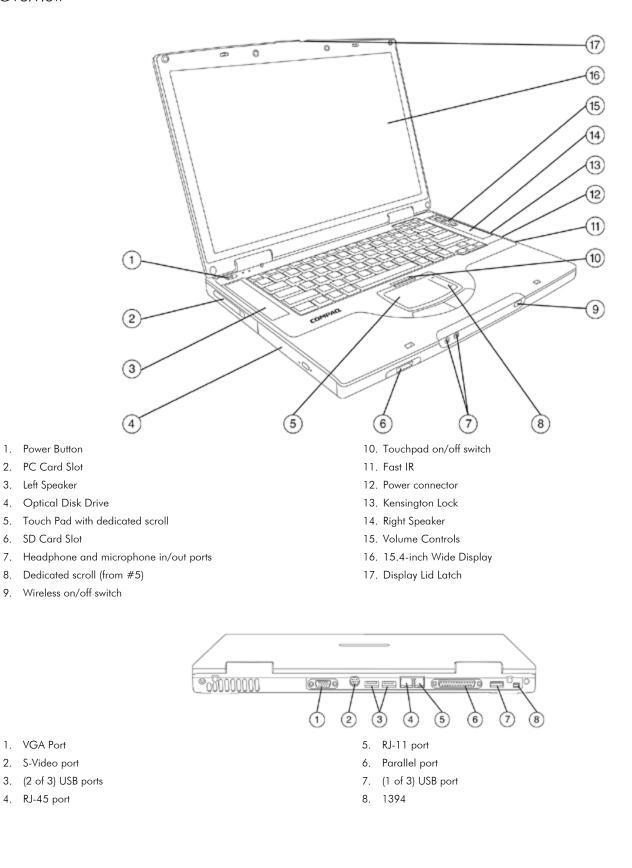
Overview





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Overview

At A Glance

- Microsoft Windows XP Home or Microsoft Windows Professional NOTE: Microsoft Windows 2000 Driver support via web.
- Intel® Centrino™ Technology
- Intel Pentium® M processors up to 2.0 GHz
- Intel 855PM Chipset
- Intel PRO/Wireless 2100 and 2200BG network connection
- Integrated 10/100 NIC
- Optional Bluetooth
- 15.4-inch WXGA, WSXGA+, or WUXGA display
- ATI Mobility Radeon 9200 Graphics w/32MB or 64MB DDR SDRAM
- Choice of 4200 rpm and performance 5400 rpm hard drive
- Choice of DVD+RW, DVD/CD-RW, DVD or CD optical drive
- Configurations as light as 6.5 lb (2.948 kg) weight, 1.36 in (3.45 cm) thin
- 256-MB DDR SDRAM (333-MHz) 2 SODIMM slots available upgradeable to 2 GB
- Up to 80-GB 5400 rpm hard drive
- Full-sized keyboard
- Three (3) USB 2.0
- Includes a one-year, worldwide warranty. Certain restrictions and exclusions apply. Consult the HP Customer Support Center for details.

What's New

• Intel PRO/Wireless 2200BG (802.11b/g) network connection

What's Special

- Thin and wide design with 15.4-inch widescreen!
- Microsoft Windows XP Home or Microsoft Windows Professional NOTE: Microsoft Windows 2000
- NOTE: Microsoft Windows 2000 Driver support via web.
- Intel Centrino Technology
- Performance graphics ATI Mobility Radeon 9200 with dedicated 32MB or 64MB DDR SDRAM



Processors One of the following:		755* – 2.0 GHz, 2-MB L2 cache, 400-MHz Front Side Bus 745 – 1.8 GHz, 2-MB L2 cache, 400-MHz Front Side Bus		
	Intel Pentium M processor	735 – 1.7 GHz, 2-MB L2 cache, 400-MHz Front Side Bus		
	Intel Pentium M processor	725 – 1.6 GHz, 2M L2 cache, 400-MHz Front Side Bus (FSB)		
	Intel Pentium M processor	715 – 1.5 GHz, 2M L2 cache, 400-MHz Front Side Bus (FSB)		
		1.7 GHz with 400-MHz Front Side Bus and 1 MB L2 cache		
		1.6 GHz with 1-MB L2 cache, 400-MHz Front Side Bus		
		1.5 GHz with 1-MB L2 cache, 400-MHz Front Side Bus		
	1	1.4 GHz with 1-MB L2 cache, 400-MHz Front Side Bus		
		ssors support enhanced Intel SpeedStep™ technology. g is not a measurement of higher performance.		
Operating System		fessional (requires 256 MB of memory minimum) or		
		ome Edition (limited language availability) preinstalled vs 2000 driver support via web.		
Chipset	Intel 855PM			
Panel	Internal Support	15.4-inch color TFT WSXGA+ with 1680 x 1050 resolution (up to 16.7M colors internal)		
One of the following		15.4-inch color TFT WUXGA with 1920 x 1200 resolution (up to 16.7M colors internal)		
		15.4-inch color TFT WXGA with 1280 x 800 resolution (up to 16.7M colors internal)		
	External Support	Up to 32-bit per pixel color depth		
		Supports external VGA display: 640x480, 800x600, 1024x768, 1152x864, 1280x800, 1280x1024, 1680x1050, 1600x1200, 1792x1344, 1800x1440, 1920x1200, 1920x1440, 2048x1536 resolutions up to 160-Hz refresh rate, dependent upon monitor capability, resolution and color depth settings.		
Memory	Standard/Maximum	256-MB (333-MHz) DDR SDRAM (256-MB SODIMM in slot 1)		
•		2048-MB (333-MHz) 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. NOTE: 2 memory slots user accessible-one on the base, one underneath the keyboard deck.			
Communications	Integrated 10/100 NIC			
••••••	High speed 56K modem			
	NOTE: 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. NOTE: Modem availability is subject to country regulatory approval.			
Wireless Devices		supports a broad range of secure, integrated wireless LAN options. Integrated Bluetooth is also ar ned with any one of the supported wireless LAN options.		
	All integrated wireless LAN options – Wi-Fi certified and with Cisco Compatible Extensions support Intel PRO/Wireless 2100 (802.11b) and 2200BG (802.11b/g) network connection-Intel Centrino mobile technology, up to 11mbps throughput performance.			
	Integrated Bluetooth – designed to the Bluetooth v1.1 specification			
	NOTE: Wireless On/Off	button – required by the FAA is located on front of unit.		



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 12 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.		
Pointing Device	Touch pad with on/off button and dedicated scroll up/down surface		
PC Card Slots	One Type II PC Card Slot which support both 32-bit CardBus and 16-bit PC Cards		
Flash Media Slots	One integrated Secure Digital (SD) slot		
Storage	Primary Hard Dive Optical Drives	80-GB 5400 rpm Hard Drive 80-GB 4200 rpm Hard Drive 60-GB 5400 rpm Hard Drive 60-GB 4200 rpm Hard Drive 40-GB 4200 rpm Hard Drive DVD+RW DVD-CD-RW combo DVD or CD	
Multimedia	JBL Pro Speakers and 16-bit stereo sound Dedicated hardware volume controls Headphone-out port Microphone-in port Software MPEG1 support DVD movie playback software DVD+RW Drive (on select models) DVD/CD-RW combo drive (on select models) DVD-ROM drive with movie playback software (on select models) CD-ROM drive (on select models) 4X AGP graphics 32-MB or 64-MB of VRAM		



Interfaces	PC Card	One Type II	
	Enhanced Parallel EPP/ECP	1 (can be used to connect external parallel diskette drive)	
	VGA	1	
	Port Replicator	1 (basic port replicator only)	
	Headphone/Line-out	1	
	Microphone-in	1	
	DC Power	1	
	RJ-11 (modem) 1		
	RJ-45 (NIC)	1	
	Infrared Port	1 (4 Mb/s support) (IrDA 4 MB compliant. IR performance will vary depending on performance of IR peripherals and application used.)	
	USB 2.0	3	
	1394	1	
	LED status indicators	8	
Graphics	ATI Mobility Radeon 9200, 64	1-bit video graphics with 32- or 64-MB dedicated memory	
Software	Preinstalled software WinDVD 5.0 DVD Player (on DVD, DVD/CDRW & DVD+RW models) Roxio Easy CD Creator 6 (on DVD/CDRW, DVD+RW models) Adobe Acrobat Reader 6 Symantec Norton Anti-Virus 2003 (complimentary 60-day live update) HP Mobile Printing Driver HP Help and Support (XP only) Synaptics Touchpad Driver Microsoft Office 2003 Applications on select models Software provided on CD Intervideo WinDVD Creator 2.0 (on DVD+RW) models Additional software available from the Web Microsoft Windows 2000 driver support ATI POWERPLAY (BIOS update)		
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. (NOTE: This option erases the hard disk and restores the base operating system. Drivers and applications are installed using the other CDs provided with the kit.)		
Security	Power-on Password Kensington MicroSave security slot; accepts 3rd party security lock devices.		
Power Supply	65-watt adapter External 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 nx7010 provides up to 5 hours of battery life using the standard 8-cell Lithium-Ion battery.			
	Battery Re-Charge Time Sy	stem in OFF mode or Standby	2 hours	
	Sy	stem ON (depending on system power consumption)	2-5 hours	
	Compaq Business Notebook nx701 WSXGA+ LCD, 256-MB RAM, 60- 2002 BatteryMark score of 5h 25m trademark and BatteryMark™ is a t Copyright 2002 Ziff Davis Media Ir	th product model, configuration, and individual usage. Hev 10 with an Intel Pentium M 1.5 GHz CPU, Windows XP Profe GB HDD, Lithium-Ion battery, and NIC/modem, achieved a Business Winstone 2002 BatteryMark Version 1.0 units. Wins rademark of Ziff Davis Publishing Holdings Inc. in the U.S. o nc. All Rights Reserved. System parameters followed test reco (802.11 and Bluetooth), power management scheme – Lapt er.	essional, 15.4-inch an overall Business Winstone stone is a registered and other countries. mmendations: panel	
NOTE: This test was performed without independent verification by eTesting Labs Inc. eTesting Labs representations or warranties as to the result of the test. BatteryMark is a trademark of Ziff Davis Publi and affiliate of eTesting Labs Inc., in the U.S. and other countries.				
Power Conservation	Hibernation			
	Instant-on via Standby			
	Pop-ups with six presets		f M I	
	Supports enhanced Intel SpeedStep Automatic mode)	Technology (which allows Battery Optimized Mode, Maximu	Jm performance Mode, or	
	ACPI compliant			
Docking	Port Replicator The sleek port replicator provides s NOTE: Supports all connectivity p	imple and convenient port management. orts pass through except DVI.		
Service and Support		'orldwide Limited Warranty, pick-up or carry-in; upgraded wa available. On-site service* is also available.	arranty and toll-free 7 x 24	
		clusions apply. Consult the HP Customer Support Center for	r details.	
	http://wwss1pro.compaq.com/support/warranty_upgrades/product_specific_warranty.asp *on-site service available through HP Care Pack Services for US only.			
	*on-site service available through F	1P Care Pack Services for US only.		
Naming Convention	The Etymology of a Model nam	e:		
	BRAND/FAMILY (Cnx7010=Compaging	x7010)		
	GRAPHICS (Q=Discrete 32MB	; R=Discrete 64MB)		
	PROCESSOR TYPE (P=P	antium)		
	715=1.5GHz ; 725=1	ED (140=1.4GHz ; 150=1.5GHz ; 160=1.6GHz ; 170=1.7GHz ; 1.6GHz ; 735=1.7GHz ; 745=1.8GHz ; 755=2.0GHz) Y SIZE (W=Wide XGA ; Y=Wide SXGA+ ; Z=Wide UXGA ; 5=1 HARD DRIVE (40=40GB ; 60=60GB ; 80=80GB) OPTICAL DRIVE (C=CD-ROM ; D=DVD-ROM ; Y=DVI W=DVD/CDRW Combo) COMM DEVICE (C=Combo Modem + FE NIC) WIRELESS (b=802.11b ; g=802.11g (include p=Bluetooth ; N=None) MEMORY (25=256MB) OPERATING SYSTEM (H=XP H P=XP Professional)	15-inch) D+RW; es 802.11b/g);	
Cnx701	0 R P 755 W5 80	Wc 925 P		



Options

Storage	HP USB Digital Drive HP USB Digital Drive with 128MB SD memory card HP 5GB PC Card USB 1.1 Diskette Drive SD Card Memory (128MB) SD Card Memory (256MB) SD Card Memory (512MB)		DL702B DL702A DF928A DC361A FA135A#AC3 FA136A#AC3 FA184A#AC3
Memory	256-MB (333-MHz) DDR RAM Memory Upgrade	269086-B25 269087-B25	DC389B
	512-MB (333-MHz) DDR RAM Memory Upgrade 1024-MB (333-MHz) DDR RAM Memory Upgrade	314114-B25	DC390B DC890B
Expansion	Basic Port Replicator (USB 2.0)	307648-xx2	DC367B
Power	Primary Battery Pack (8-cell)		DG103A
	65W 3-wire AC Adapter	265602-xxx	DC359A
	90W Auto/Truck Adapter		DC303A
	90W Air Cables	291370-B25	DC899A
Carrying Cases	HP Entry Value BTO DIB		DC914A
	HP Top Load Nylon Case		DC915A
	HP Top Load Leather Case		DC917A
	HP Executive Nylon Case		DC916A
	HP Sport Backpack		DG102A
Security	PC Card Biometrics ID Device	146805-B25	DC859A
,	PC Card Smart Card Reader	135646-B25	DC350B
	Security Cable Lock	294316-B21	DC368A
Input/Output Devices	External 10-Key Numeric Keypad (PS/2)	294317-B21	DC854A
	USB/PS2 Keyboard	118003-009	DC852A
	USB/PS2 Mouse	103180-B22	DC369A
	HP USB Travel Mouse (optical scroll mouse)		F4815A



Memory

HP Compaq nx7010 thin and wide Business Notebook

Standard Memory

0-MB of memory on system board,

2 Slots total

1-256-MB DIMM installed in Slot 1

1-Additional open Memory Slot (Only 1 slot user accessible)

(NOTE: 2 slots user accessible-one on the base and one underneath the keyboard deck)

Memory	Slot 1	Slot 2
256 MB	256 MB	Empty

Standard Memory Plus Optional Memory

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

Memory	Slot 1	Slot 2
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
1024 MB	1024 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:

- 1024-MB (333-MHz DDR SDRAM Memory Upgrade 314114-B25
- 512-MB (333-MHz) DDR SDRAM Memory Upgrade 269087-B25
- 256-MB (333-MHz) DDR SDRAM Memory Upgrade 269086-B25



Storage

Drive Support

System Drive Support	Quantity Supported	Drive Bay Supported
Removable Media		
DVD+RW	1	Dedicated
DVD/CD-RW Combo Drive	1	Dedicated
DVD-ROM Drive	1	Dedicated
CD-ROM Drive	1	Dedicated
Hard Drives		
80-GB Hard Drive	1	Dedicated hard drive bay
60-GB Hard Drive	1	Dedicated hard drive bay
40-GB Hard Drive	1	Dedicated hard drive bay



System Unit	Dimensions (HxWxD)	15.4-inch TFT panel display	1.36 x 14.0 x 10.0 in (3.45 x 35.56 x 25.4 cm)		
	Weight	15.4-inch LCD, CD-RW, DVD or CD, 1 SODIMM	6.5 lb (2.948 kg)		
	NOTE: * = Weight varies by configuration.				
	Stand-Alone Power Requirements	Nominal Operating Voltage (Li-Ion)	14.4 V (8-cell)		
		Average Operating Power	15.8 W		
		Peak Operating Power	38W		
		Power in suspend mode	< 800 mW		
		Power in hibernation mode	< 100 mW		
	Power Supply	Rated Input Voltage	100 to 240 VAC (auto-switching)		
		Rated Input Current	1.3A		
		Rated Frequency	50 to 60 Hz		
	Temperature	Operating	50° to 95° F (10° to 35° C)		
		Non-operating	14° to 140° F (-10° 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		
	Shock	Operating	10 G, 11 ms, half-sine		
		Non-operating	60 G, 11 ms, half-sine		
	Vibration	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		
	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)		
15.4-Inch Color TFT	Dimensions (H x W)	13.0 x 8.1 in (33.1 x 20.7 cm)			
WUXGA Display with wide	. ,	15.4 in (39.1 cm)			
viewing angle	Mounting	Internal Panel Supports, Side Mounted			
	Number of Colors	Up to 16.8M			
	Contrast Ratio	300:1			
	Brightness	170nt typical			
	Pixel Resolution	Pitch	0.173 mm		
		Format	1920 x 1200		
		Configuration	RGB stripe		
	Backlight	Edge Lit			
	Character Display	80 x 25			
	Viewing Angle	±55° Horizontal, ±45° Vertica	l (typical)		



Technical Specifications

	D		`	
15.4-Inch Color TFT WSXGA Display with wide viewing angle	Dimensions (H x W)	13.0 x 8.1 in (33.1 x 20.7 cm)		
	Blagenar bize	15.4 in (39.1 cm) Internal Panel Supports, Side Mounted		
	Mounting			
	Number of Colors Contrast Ratio	Up to 16.8M 200:1		
	Brightness Pixel Resolution	180nt typical	0.193 mm	
	Fixel Resolution	Pitch Format		
			1680 x 1050	
	Backlight	Configuration	RGB stripe	
	-	Edge Lit		
	Character Display Viewing Angle	80 x 25 ±65° Horizontal, ±50° Vertical (typical)		
15.4-Inch Color TFT	Dimensions (H \times W)	13.0 x 8.1 in (33.1 x 20.7 cm)	
WXGA Display with wide	Diagonal Size	15.4 in (39.1 cm)	,	
viewing angle	Mounting	Internal Panel Supports, Side Mounted		
	Number of Colors	Up to 16.8M		
	Contrast Ratio	200:1		
	Brightness	180nt typical		
	Pixel Resolution	Pitch	0.259 mm	
		Format	1280 x 800	
		Configuration	RGB stripe	
	Backlight	Edge Lit		
	Character Display	80 x 25		
	Viewing Angle	$\pm 65^{\circ}$ Horizontal, $\pm 50^{\circ}$ Verti	ical (typical)	
Hard Drives				
80-GB (5400 rpm)	Drive Weight	0.22 lb (99 g)		
	Capacity	80 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	Single Track	3 ms	
	(typical reads, including	Average	13 ms	
	settling)	Maximum	24 ms	
	Rotational Speed	5400 rpm		
	Logical Blocks	156,301,488		
	Operating Temperature	41° to 131° F (5° to 55° C)		
		. ,		



Features

ATA security

80-GB (4200 rpm)	Drive Weight Capacity Height Width Interface Transfer Rate Seek Time (typical reads, including settling) Rotational Speed Logical Blocks Operating Temperature	0.22 lb (102 g) 80 GB 0.374 in (9.5 mm) 2.75 in (70 mm) ATA-5 Synchronous (maximum) Single Track Average Maximum 4200 rpm 156,301,488 41° to 131° F (5° to 55° C)	100 MB/s (Drive Capability) 3 ms 13 ms 24 ms
	Features	ATA security	
60-GB (5400 rpm)	Drive Weight Capacity Height Width Interface Transfer Rate Seek Time (typical reads, including settling) Rotational Speed Logical Blocks Operating Temperature Features	0.22 lb (102 g) 60 GB 0.374 in (9.5 mm) 2.75 in (70 mm) ATA-5 Synchronous (maximum) Single Track Average Maximum 5400 rpm 117,210,240 41° to 131° F (5° to 55° C) ATA security	100 MB/s (Drive Capability) 3 ms 13 ms 24 ms
60-GB (4200 rpm)	Drive Weight Capacity Height Width Interface Transfer Rate Seek Time (typical reads, including settling) Rotational Speed	0.22 lb (102 g) 60 GB 0.374 in (9.5 mm) 2.75 in (70 mm) ATA-5 Synchronous (maximum) Single Track Average Maximum 4200 rpm 117 210 240	100 MB/s (Drive Capability) 3 ms 13 ms 24 ms
	Logical Blocks Operating Temperature Features	117,210,240 41° to 131° F (5° to 55° C) ATA security	



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	Single Track	3.0 ms
	(typical reads, including	Average	13 ms
	settling)	0	
		Maximum	24 ms
	Rotational Speed	4200 rpm	
	Logical Blocks	78,140,160	
	Operating Temperature	41° to 131° F (5° to 55° C)	
		ATA security	
External AC Adapter without Power Faction	Weight	0.65 lb (0.29 kg) (adapter) 0.29 lb (0.13kg) (power cord)	
Correction	Power Supply (Input)	Operating Voltage	100 to 240 VAC RMS
		Operating Current	1.7 A RMS
		Operating Frequency Range	47 to 63 Hz AC
		Maximum Transient	4/50 kV
Lithium-Ion Battery Pack	Dimensions $(L \times W \times D)$	5.25 x 3.63 x 0.75 in (13.4 x 9	.2 x 1.9 cm)
(8-cell)	Weight	0.96 lb (0.43 kg)	
	Energy	Voltage	14.8 V
		Amp-hour capacity	Typical 4.4 Ah
		Watt-hour capacity	Typical 64 Wh
	Temperature	Operating	32° to 140° F (0° to 60° C)
		Non-operating	-4° to 140° F (-20° to 60° C)



DVD+RW Drive	Access Times	Random	CD	<175 ms
	Access Times	Kuluom	DVD	<230 ms
		Full Stroke	CD	<285 ms
			DVD	<335 ms
	Maximum data transfer	24X - CD-ROM	3600 KB/s	
	rate	8X - DVD	10,800 KB/s	
		16X - CD-R	2400 KB/s	
		8X - CD-RW	1200 KB/s	
		2X - DVD+R	2700 KB/s	
		2X - DVD+RW	2700 KB/s	
	Transfer Mode	Multiword DMA Mode 2		
	Interface	EIDE		
	Supported Media (read)	Portfolio, CD-R, CD-RW), CD	, Video CD), Multisession CD	(Photo-CD, CD-EXTRA,
	Supported Media (write)	CD-R, CD-RW, DVD+R, DVD	P + RW	
	Maximum Media Capacity (read)	4.7 GB		
	Maximum Media Capacity (write)	4.7 GB		
	Transport	tray loading		
24X DVD/CD-RW Combo	Access Times	Random	CD	<110 ms
Drive			DVD	<130 ms
		Full Stroke	CD	<210 ms
			DVD	<225 ms
	Maximum data transfer	24X - CD-ROM	3600 KB/s	
	rate	8X - DVD	10,800 KB/s	
		24X - CD-R	3600 KB/s	
		24X - CD-RW	3600 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		
	Maximum Media Capacity (read)	4.7 GB		
	Maximum Media Capacity (write)	700 MB		
	Transport	tray loading		



8X DVD-ROM Drive	Access Times	Random	CD	< 100 ms
			DVD	< 125 ms
		Full Stroke	CD	< 175 ms
			DVD	< 225 ms
	Maximum data transfer	24X - CD-ROM	3600 KB/s	
	rate	8X - DVD	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		
	Maximum Media Capacity (read)	4.7 GB		
	Transport	tray loading		
24X CD-ROM Drive	Access Times	Random	CD	<110 ms
		Full Stroke	CD	<220 ms
	Maximum data transfer rate	24X - CD-ROM	3600 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		
	Maximum Media Capacity (read)	700 MB		
	Transport	tray loading		



Technical Specifications

Audio

Features

Wavetable Synthesis

of Voices
of MIDI Channels
Max. Sound Set Size
Sound Set Formats
Bundled GeneralMIDI Sound Set(s)
Built-In Effects
Sound Blaster PRO Emulation

3D Positioning/Environments

Formats Supported Environmental Acoustics Additional 3D APIs Standard HRTFs

Hardware

Implementation Audio Signal Link to CPU Full Duplex Stereo Inputs Mono Inputs Stereo Outputs

Audio Output Quality

Frequency Response Signal to Noise Ratio Total Harmonic Distortion Play/Record Sampling Rate(s) AD/DA Resolution

Speakers

Amplifier Power Speaker Impedance

SoundMAX

Up to 1024 (CPU dependent) 16 Unlimited (host RAM dependent) DLS (Level 1), XGlite 1.2 MB XGlite Reverb and Chorus Yes

I3DL2/DS3D 7/EAX 2/A3D 1 EnvironmentFX (EAX compatible) MacroFX / ZoomFX 2 Channel

AC97 CODEC

Audio CODEC (AC) link Yes Line In - 20K Impedancefrom (with Port Replicator) Microphone - 20K Impedance Analog, S/PDIF from Port Replicator only

20 Hz - 20 kHz >94dB 0.01% 7 kHz - 48 kHz 16 bit

JBL Pro 2-Watts RMS 4-Ohms



Integrated Agere AC'97	Form Factor	MDC Daughtercard	
Modem	Power Management Support	APM Revision 1.2, ACPI	
	Approvals/ Certifications	UL, CSA, NEMKO, CCIB, Industry Canada, FCC Part 68, CTR21, FCC Part 15 Class B, Canadian ICES-003 Class B, C.I.S.P.R.22, Australian ACA, CE Mark, Other Countries	
	Data Mode Capabilities	High speed 56K modem (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	
	Fax Mode Capabilities	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 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	



HP Compaq nx7010 thin and wide Business Notebook

Intel PRO/Wireless 2100	Form Factor	Mini PCI Type 3B (model WM3B7100 AND WM3B2100)	
Network Connection	Dual Diversity Antenna	On-board dual diversity switching	
	Frequency Band	2.4 to 2.497 GHz	
	Modulation	CCK, DQPSK, DBPSK	
	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, 11 Mbps	
	Indoor Range	100 ft (30 m) at 11 Mbps/300 ft (90 m) at 1 Mbps	
	Outdoor Range	400 ft (120 m) at 11 Mbps/1500 ft (460 m) at 1 Mbps	
	Transmit Output Power	16 dBm (typical)	
	Operating Systems	Microsoft Windows XP Professional	
		Microsoft Windows XP Home Edition	
		Microsoft Windows 2000	
	WECA	WiFi certification for 802.11b	
	WHQL	Yes	
	WLAN Standard	IEEE 802.11b	
	Architecture	Infrastructure or ad hoc (peer-to-peer)	
	Roaming	802.11b compliant for seamless roaming between access points	
	Security	LEAP, TKIP, 802.1x, EAP-TLS, 128-bit and 64-bit WEP	
Intel PRO/Wireless	Form Factor	Mini PCI Type 3B (model WM3B2200BG)	
2200BG Network	Dual Diversity Antenna	On-board dual diversity switching	
Connection	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, 11 Mbps 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps	
	Indoor Range	100 ft (30 m) at 11 Mbps/300 ft (90 m) at 1 Mbps	
	Outdoor Range	400 ft (120 m) at 11 Mbps/1500 ft (460 m) at 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	802.11 compliant for seamless roaming between access points	
	Security	LEAP, TKIP, 802.1x, EAP-TLS, 128-bit and 64-bit WEP	
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Technical Specifications

Integrated 10/100 NIC	Ethernet Features	10 Mbit/s operation (10BASE-T; IEEE 802.3i; IEEE 802.3 clauses 13-14) 100 Mbit/s operation (100BASE-TX; IEEE 802.3u; IEEE 802.3 clauses 21-30) Auto-Negotiation (Automatic Speed Selection) Full and 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 compliant
	Performance Features	TCP/IP/UDP Checksum Offload (configurable) Microsoft Large Send Offload (configurable) TCP Segmentation Offload CPU Task Offload
	Manageability	PXE Remote Boot
	NIC Device Driver Name	Realtek RTL8139 C+ Fast Ethernet NIC
	Drivers Available	Windows XP Windows 2000

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