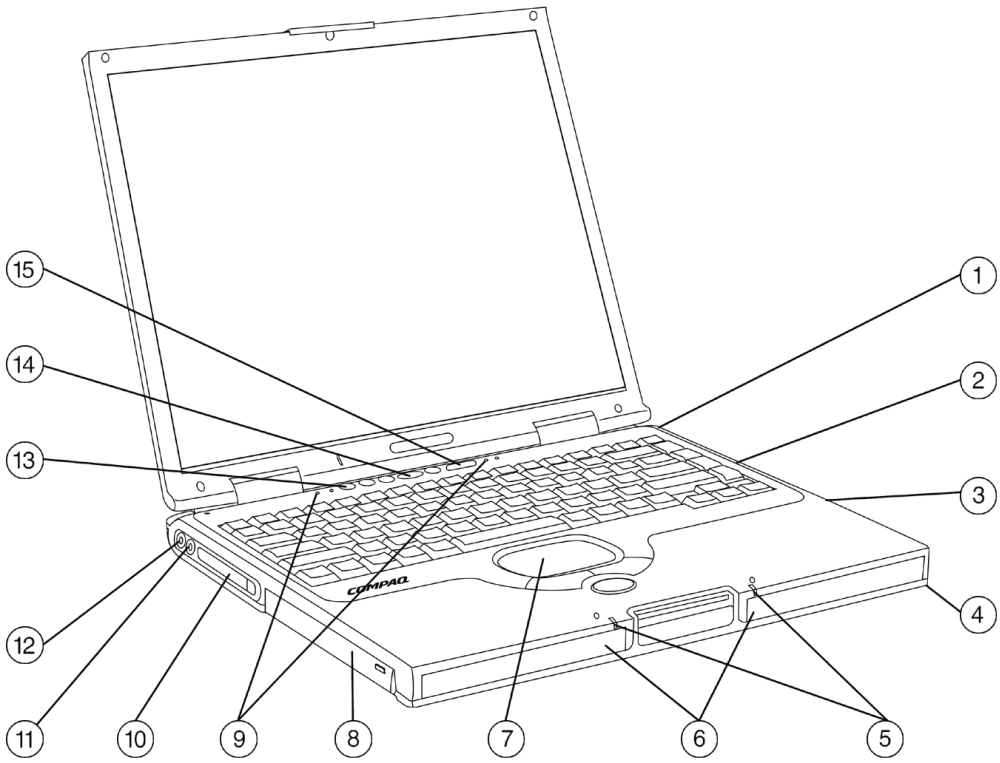
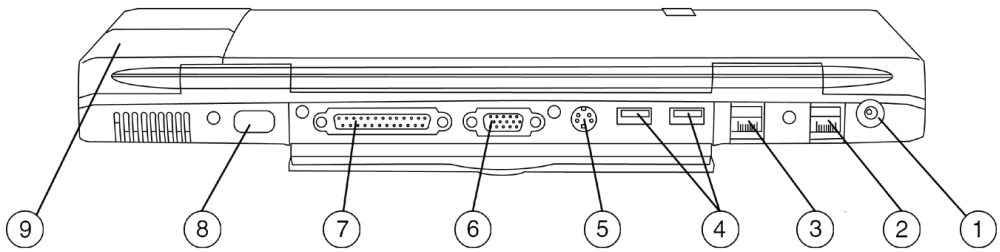
Overview



1. Kensington Lock
2. Air Vent
3. Hard Drive
4. Battery
5. System LEDs
6. Stereo Speakers
7. Touch Pad + 4-way Scroll
8. MultiBay
9. Keyboard LEDs
10. PC Card Slot (1)
11. Headphone
12. Audio In
13. Easy Access Buttons
14. Power Button
15. Volume Control



1. DC In
2. RJ-45
3. RJ-11
4. USB Ports (2)
5. S-Video
6. VGA
7. Parallel
8. Infrared
9. MultiPort

Overview

At A Glance

- Mobile Intel® Pentium® 4 processors – up to 2.2 GHz
- Microsoft® Windows® XP Pro and Microsoft Windows 2000
- 15-inch XGA, SXGA+, UXGA and 14.1-inch XGA display
- Magnesium enclosure for the 15-inch panels.
- Configurations as light as 5.82lbs/2.64 kg weight (14-inch panel) 1.4 in/3.5 cm thin
- 256 MB DDR SDRAM (266 MHz), upgradeable to 1024 MB
- Up to 60 GB – 5400 rpm SMART hard drives
- Mini PCI modem and integrated NIC
- Full-size keyboard
- Includes a One-year, Worldwide Warranty. —Certain restrictions and exclusions apply. Consult the Compaq Customer Support Center for details.

What's New

- Mobile Intel Pentium 4 processors – up to 2.2 GHz
- 400-MHz Front side bus
- 4X AGP Graphics
- MultiPort wireless communication options
- Sophisticated design elements
- Choice of Touchpad or Dual Pointing Device

What's Special

- Thin and Light design
- The first Mobile Intel Pentium 4-M processor by Compaq.
- High-end graphics and large panel
- Latest USB interface
- Large hard drives
- Wireless features thru Award-Winning MultiPort

Standard Features

Processors One of the following	1.9 GHz on Mobile Intel Pentium 4 processor-M with 400-MHz Front Side Bus and 512 KB L2 cache 1.8 GHz on Mobile Intel Pentium 4 processor-M with 400-MHz Front Side Bus and 512 KB L2 cache 1.7 GHz on Mobile Intel Pentium 4 processor-M with 400-MHz Front Side Bus and 512 KB L2 cache 1.6 GHz on Mobile Intel Pentium 4 processor-M with 400-MHz Front Side Bus and 512 KB L2 cache NOTE: Mobile Intel Pentium 4 processor-M supports enhanced Intel SpeedStep™ technology. NOTE: Mobile Intel Pentium processors featuring Intel SpeedStep technology, speed denotes maximum performance mode; battery optimization mode is approximately 80% of maximum performance mode.	
Operating System	Microsoft Windows XP Pro or Microsoft Windows 2000 or XP Home (limited language availability) preinstalled	
Panel One of the following	Internal Support	15.0-inch color TFT UXGA with 1600 x 1200 resolution (up to 16.7M colors internal) 15.0-inch color TFT SXGA+ with 1400 x 1050 resolution (up to 16.7M colors internal) 15.0-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 Support	Up to 32-bit per pixel color depth Supports 640 x 480, 800 x 600, 1024 x 768, 1280 x 1024, 1400 x 1050, 1600 x 1200, or 2048 x 1536 resolutions up to 160-Hz refresh rate, dependent upon monitor capability, resolution and color depth settings
Memory	Standard/Maximum	256-MB (266 MHz) DDR SDRAM (256 MB SODIMM in slot 1) 1024-MB (266 MHz) DDR SDRAM (512 MB SODIMMs in slots 1 and 2) NOTE: Due to the non-industry standard nature of some third-party memory modules, we recommend Compaq branded memory to ensure compatibility.
Communications	10/100 NIC is integrated on the system board Type III Mini PCI 56K (V.92) modem NOTE: Designed only to allow faster downloads from 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 desktop compatible keyboard features a full-width layout with desktop keyboard features such as isolated inverted-T cursor control keys, 6 editing keys, and 12 function keys. The US and International layouts have 88 keys. Other features include 19 mm x 19 mm standard key pitch (center-to-center spacing), 3.0 mm key stroke, 3 Windows keys, comfort-dished keycaps, bright key legends for improved visibility in low light conditions, an integrated numeric keypad, and hotkeys for instant access to media player, display brightness, wireless on/off, and other controls.	
Easy Access Internet Buttons	The Evo Notebook N800v comes with four Easy Access Buttons designed to increase customer productivity by providing one-touch access to helpful Compaq information, favorite Internet destinations, files, or applications.	
Pointing Device	Choice of touchpad with 4-way scroll or dual pointing devices (both pointstick and touchpad)	
PC Card Slots	One Type II PC Card Slot which support both 32-bit CardBus and 16-bit PC Cards	

Standard Features

Storage	Primary Hard Dive	60-GB 5400 rpm Hard Drive 40-GB 4200 rpm Hard Drive 30-GB 4200 rpm Hard Drive 20-GB 4200 rpm Hard Drive
	Optical Drives	24x/10x/24x/8x DVD-CD-RW combo 8X/ DVD-ROM or 24X CD-ROM

Multimedia

JBL Pro Speakers with bass reflex and 16-bit stereo sound
Integrated microphone
Dedicated hardware volume controls
Headphone-out port
Microphone in port
Software MPEG1 support, MPEG2 and DVD
DVD/CD-RW combination drive (on select models)
DVD-ROM drive with movie playback software (on select models)
CD-ROM drive (on select models)
S-video port
4X AGP graphics
32-MB or 64-MB of VRAM

Interfaces	PC Card Slot	One Type II
	Enhanced Parallel EPP/ECP	1 (can be used to connect external diskette drive)
	S-Video	1
	VGA	1
	Port Replicator	1
	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 Port	2
	LED status indicators	6

Graphics

ATI Mobility Radeon 7500, 64-bit video graphics with 32- or 64-MB VRAM for increased color depth and graphics performance

Display (External)

Up to 32-bit per pixel color depth

Supports 640 x 480, 800 x 600, 1024 x 768, 1280 x 1024, 1400 x 1050, 1600 x 1200, or 2048 x 1536 resolutions up to 160-Hz refresh rate, dependent upon monitor capability, resolution and color depth settings

Display (Internal)

14.1-inch color TFT XGA with 1024 x 768 resolution (up to 16.7M colors internal)
15-inch color TFT UXGA with 1600 x 1200 resolution (up to 16.7M colors internal)
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)

Standard Features

Software

Preinstalled
Diagnostics for Windows
Compaq Easy Access Button Software
Intel SpeedStep Technology Applet
Compaq Help and Support (XP Only)
Compaq Info Center (XP Only)

On CD
WinDVD 3.2 DVD Player (on DVD and DVD/CDRW models)
Roxio Easy CD Creator 5 (on CDRW and DVD/CDRW models)
Adobe Acrobat Reader
Altiris eXpress™ Client Win32
Compaq Management Agents
Remote Diagnostics Enabling Agent

Available from the web
Synaptics Touchpad Driver

System Recovery

Each unit is shipped with a CD kit for quick recovery (erases hard disk and restores manufacturer installed image) and software recovery (installs only selected standard software)

Security

Configuration Control Hardware
Memory Change Alert
Ownership Tag
Set-up Password
Power-On Password
DriveLock
Enabled for PC SmartCard options
Kensington Lock

Power Supply

External AC adapter, 6-foot/1.8-meter power cord included. Total length including External AC adapter is 12 feet/3.66 meter

---

Battery

The Evo Notebook N800v provides up to 4 hours of battery life using the standard 8-cell Lithium-Ion battery.

Battery Re-Charge Time	System in OFF mode or Standby	2 hours
	System ON (depending on system power consumption)	2-5 hours

NOTE: Actual results may vary with product model, configuration, and individual usage. Compaq results of 3:30 (hr:min) were achieved running the eTesting Labs Inc.'s Business Wistone 2001 BatteryMark™ Test version 1.0 on a Notebook N800v with a Intel Pentium 4-M 1.7 GHz CPU, 15.1-inch UXGA panel, 256-MB RAM, 40-GB HDD, 8X DVD, 8-cell Lithium-Ion battery, and NIC/modem. System parameters were set according to eTesting Labs' recommendations: panel brightness 50%, hard drive standby and video idle time three minutes, Intel Speedstep battery optimized mode.

NOTE: This test was performed without independent verification by eTesting Labs Inc. eTesting Labs Inc. makes no representations or warranties as to the result of the test. BatteryMark is a trademark of Ziff Davis Publishing Holdings Inc., and affiliate of eTesting Labs Inc., in the U.S. and other countries.

Power Conservation

Supports enhanced Intel SpeedStep Technology (allows a Battery Optimized Mode, Maximum Performance Mode, or Automatic mode)
Hibernation
Instant-on via Standby
Pop-ups with three presets
One custom level of power conservation
ACPI compliant

Standard Features

MultiBay Devices

MultiBay devices may be swapped with the system powered on (hot) under Microsoft Windows XP or Microsoft Windows 2000. MultiBay devices can be swapped with system power off under any supported operating system.

MultiPort

MultiPort is a flexible, innovative solution providing customers the ability to connect to their choice of wireless standards such as 802.11b or Bluetooth™. This can be achieved by simply changing out the high-performance wireless module, which is integrated into the top of the notebook. The award-winning MultiPort offers a cost effective means to migrate to future wireless standards as they become available.

Docking

NEW! Port Replicator and Advanced Port Replicator.
The sleek, new port replicator and advanced port replicator designs provide simple and convenient port management. Features include NIC pass through, USB, and a 1394 digital port. Compatible across multiple platforms for lower total cost of ownership.

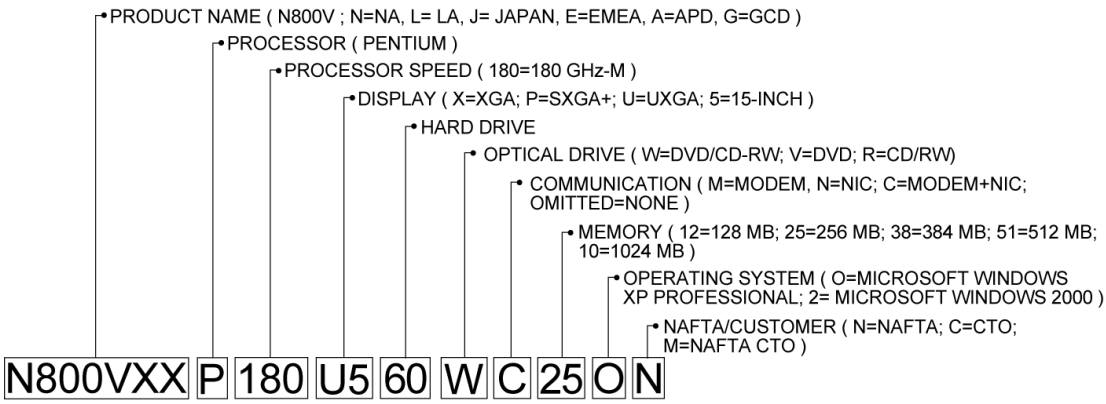
Service and Support

Compaq Services includes a one-year, Worldwide Limited Warranty, pick-up or carry-in, upgrade to on-site warranty or additional two-year warranty available, and toll-free 7 x 24 hardware technical phone support.

NOTE: Certain restrictions and exclusions apply. Consult the Compaq Customer Support Center for details.
http://wwss1pro.compaq.com/support/warranty_upgrades/product_specific_warranty.asp

Naming Convention

The Etymology of a Model name:



Models

N800VP160X420VC25O

Processor	1.6 GHz-M on Mobile Intel Pentium® 4 processor
Operating System	Windows XP PRO
Display	14.1-inch color TFT XGA
Cache Memory	512 KB, L2 Cache
Memory	Standard 256 MB (266 MHz) DDR SDRAM
	Maximum 1024 MB (266 MHz) DDR SDRAM
Optical Drive	DVD-ROM
Hard Drive	20-GB SMART
Communications	Type III Mini PCI 56K (V.92) soft modem, (LOM) integrated 10/100 NIC
Graphics	ATI Mobility Radeon 7500, 64-bit video graphics
Video memory	32-MB VRAM
Audio	JBL Pro Speakers with bass reflex and 16bit stereo sound
Pointing Device	Touchpad

Standard Features

N800VP170X530VC25O	Processor	1.7 GHz-M on Mobile Intel Pentium 4 processor
	Operating System	Windows XP PRO
	Display	15-Inch color TFT XGA
	Cache Memory	512 KB, L2 Cache
	Memory	Standard 256 MB (266 MHz) DDR SDRAM
		Maximum 1024 MB (266 MHz) DDR SDRAM
	Optical Drive	DVD-ROM
	Hard Drive	30-GB SMART
	Communications	Type III Mini PCI 56K (V.92) soft modem, (LOM) integrated 10/100 NIC
	Graphics	ATI Mobility Radeon 7500, 64-bit video graphics
	Video memory	32-MB VRAM
	Audio	JBL Pro Speakers with bass reflex and 16bit stereo sound
	Pointing Device	Touchpad

N800VP160X420VC25O	Processor	1.6 GHz-M on Mobile Intel Pentium 4 processor
	Operating System	Windows XP PRO
	Display	14.1-inch color TFT XGA
	Cache Memory	512 KB, L2 Cache
	Memory	Standard 256 MB (266 MHz) DDR SDRAM
		Maximum 1024 MB (266 MHz) DDR SDRAM
	Optical Drive	DVD-ROM
	Hard Drive	20-GB SMART
	Communications	Type III Mini PCI 56K (V.92) soft modem, (LOM) integrated 10/100 NIC
	Graphics	ATI Mobility Radeon 7500, 64-bit video graphics
	Video memory	32-MB VRAM
	Audio	JBL Pro Speakers with bass reflex and 16-bit stereo sound
	Pointing Device	Touchpad

N800VP160X420VC25O Two-Year Warranty	Processor	1.6 GHz-M on Mobile Intel Pentium 4 processor
	Operating System	Windows XP PRO
	Display	14.1-inch color TFT XGA
	Cache Memory	512 KB, L2 Cache
	Memory	Standard 256 MB (266 MHz) DDR SDRAM
		Maximum 1024 MB (266 MHz) DDR SDRAM
	Optical Drive	DVD-ROM
	Hard Drive	20-GB SMART
	Communications	Type III Mini PCI 56K (V.92) soft modem, (LOM) integrated 10/100 NIC
	Graphics	ATI Mobility Radeon 7500, 64-bit video graphics
	Video memory	32-MB VRAM
	Audio	JBL Pro Speakers with bass reflex and 16bit stereo sound
	Pointing Device	Touchpad

Standard Features

N800VP160X420VC25O	Processor	1.6 GHz-M on Mobile Intel Pentium 4 processor
	Operating System	Windows XP PRO
	Display	15-inch color TFT SXGA+
	Cache Memory	512 KB, L2 Cache
	Memory	Standard 256 MB (266 MHz) DDR SDRAM
		Maximum 1024 MB (266 MHz) DDR SDRAM
	Optical Drive	DVD/CD-RW Combo
	Hard Drive	30-GB SMART
	Communications	Type III Mini PCI 56K (V.92) soft modem, (LOM) integrated 10/100 NIC
	Graphics	ATI Mobility Radeon 7500, 64-bit video graphics
	Video memory	32-MB VRAM
	Audio	JBL Pro Speakers with bass reflex and 16-bit stereo sound
	Pointing Device	Touchpad

Standard Features

CPU	P4 1.6 GHz	P4 1.7 GHz	P4 1.6 GHz	P4 1.6 GHz	P4 1.6 GHz
LCD	14" XGA	15" XGA	14.0" XGA	14.0" XGA	15" SXGA+
Memory	256 MB	256 MB	256 MB	256 MB	256 MB
HDD	20 GB	30 GB	20 GB	20 GB	30 GB
Discrete Video Memory	32 MB	32 MB	32 MB	32 MB	32 MB
Optical/MultiBay	DVD	DVD	DVD	DVD	DVD/CD-RW Combo
Comm	Modem/NIC Combo	Modem/NIC Combo	Modem/NIC Combo	Modem/NIC Combo International (ROW)	Modem/NIC Combo International (ROW)
Input	Touchpad	Touchpad	Touchpad	Touchpad	Touchpad
OS	Win XP-Pro	Win XP-Pro	Win XP-Pro	Win XP-Pro	Win XP-Pro
Warranty	One-Year	One-Year	One-Year	Two-Year	One-Year
Model Name	N800VP160X420V C25O	N800VP170X530V C25O	N800VP160X420V C25O	N800VP160X420V C25O	N800VP160P530W C25O
U.S.	470035-195	470035-202			
Fr Canada	470035-198	470035-200			
Arabia			470035-205		470035-757
Belgium			470035-207		470035-759
Czech Republic			470035-242		470035-760
Denmark			470035-246		470035-763
Europe Intl			470034-251		470035-768
France			470035-255		470035-770
Germany				470035-291	
Greece/Poland			470035-257		470035-771
Hungary			470035-261		470035-773
Israel (Hebrew)			470035-263		470035-774
Italy			470035-267		470035-776
Netherlands			470035-269		470035-778
Norway			470035-270		470035-779
Portugal			470035-272		470035-781
Russian			470035-273		470035-782
Slovenia			470035-275		470035-784
Spain			470035-277		470035-785
Sweden/Finland			470035-279		470035-787
Switzerland (GR/FR/IT)			470035-283		470035-788
Turkey			470035-286		470035-790
UK			470035-703		470035-791

Options

Memory	512-MB (266 MHz) DDR SDRAM Memory Upgrade	269087-B25
	256-MB (266 MHz) DDR SDRAM Memory Upgrade	269086-B25
	128-MB (266 MHz) DDR SDRAM Memory Upgrade	269085-B25
Monitors	TFT8030 Flat Panel Color 18-inch (carbon/silver)	243362-xxx
	TFT7020 Flat Panel Color 17-inch with integrated speakers (carbon/silver)	253217-xxx
	TFT5015 Flat Panel Color 15-inch (carbon/silver)	234044-xxx
	TFT5030 Flat Panel Color 15-inch (carbon/silver)	228134-xxx
	V720 17-inch CRT (carbon/silver)	232944-xxx
	S720 17-inch CRT (carbon/silver)	239287-xxx
	V570 15-inch CRT (carbon/silver)	228113-xxx
MultiBay Hard Drives	60-GB 5400 rpm SMART Hard Drive	278420-B25
	40-GB 4200 rpm SMART Hard Drive	263472-B25
	30-GB 4200 rpm SMART Hard Drive	212791-B25
MultiBay Storage Devices	24X Combo DVD/CD-RW	269089-B25
	16X CD-RW	269088-B25
	8X DVD Drive	138230-B25
	24X Max CD-ROM	298452-B25
	Diskette Drive	226935-B25
Other Storage Devices	IBM 1-GB Microdrive (PC card Device)	217390-B25
	USB Disk-on-Key – 8 MB	249552-B25
	USB Diskette drive	230330-B25
Connectivity	Compaq Type III Mini PCI 56K (V.90) Modem	225640-B31
	Compaq M420 56K Global Modem	317900-001
	10/100 TX PC Card UTP Controller	335506-B21
	100BaseTX Ethernet Upgrade	225435-001
	NOTE: Designed only to allow faster downloads from V.90 compliant sources. Maximum achievable download transmission rates currently do not reach 56 KB/s, and will vary with line conditions.	
Wireless Connectivity	802.11b MultiPort Wireless LAN module	283836-001
	Bluetooth MultiPort module	228057-B21
	Compaq WL110 Wireless LAN PC Card	191808-B21
	Compaq WL510 Wireless Enterprise Access Point	216709-001
	Compaq WL410 Wireless SMB Access Point	191811-001
	Compaq WL310 Home Office Access Point	191813-001
	Compaq Range Extender Antenna	230268-B21
	CDPD WWAN PC Card (U.S. Only)	238111-001

Options

Expansion Bases	Port Replicator		307648-xx1
	Advanced Port Replicator		307651-xx1
	External MultiBay		217388-001/B31
	Advanced Port Replicator Monitor Stand		274407-B25
Power	Evo Notebook N800v	8 Cell primary battery (4 Ah)	278418-B25
Common Power Solutions	MultiBay Battery (8-cells)		265651-B25
	External Battery Charger		265603-xxx
	External Battery Charger (Multiple Battery)		265604-xx1
	AC Adapter 65W		265602-xxx
	Auto Power Adapter/Charger 65W		265649-B25
	Aircraft Power Adapter		386504-B21
	AC Line Cord (10-ft/3.1 m)		217932-xx2
Input Devices	External Enhanced III Keyboard (carbon)		118003-008
	Compaq 2 Button Mouse (carbon)*		103180-B21
	USB 2 Button Scroll Mouse (carbon)		195255-B25
	External 10-Key Numeric Keypad (carbon)*		294317-B21
	USB EZ Access Keyboard		222726-xxx
	Wireless Keyboard and Mouse		251385-xx8
	NOTE: * = Requires the Port Replicator or Advanced Port Replicator.		
Security	Biometric PC Card		146805-B25
	Security Cable Lock		294316-B21
	Compaq Smart Card PC Card Reader		135646-B25
Carrying Cases	Compaq Ultralight Case (nylon)		167336-B21
	Compaq Ultralight Case (leather)		242359-B25
	Compaq Plus Case		242360-B25
	Compaq Professional Case (nylon)		242361-B25
	Compaq Professional Case (leather)		242362-B25

Memory

Compaq Evo N800v

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

Memory	Slot 1	Slot 2
	256 MB	Empty

Standard Memory Plus Optional Memory
Support for up to 1024-MB of DDR SDRAM memory is available with the installation of optional DDR SDRAM Memory Kits.

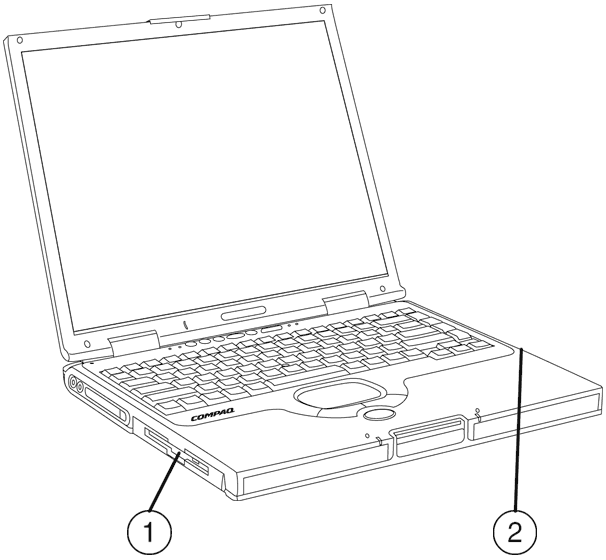
Memory	Slot 1	Slot 2
256 MB	256 MB	-
384 MB	256 MB	128 MB
512 MB	512 MB	-
768 MB	512 MB	256 MB
1024 MB	512 MB	512 MB

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) DDR SDRAM Memory Upgrade 269087-B25
- 256-MB (266 MHz) DDR SDRAM Memory Upgrade 269086-B25
- 128-MB (266 MHz) DDR SDRAM Memory Upgrade 269085-B25

Storage



1. MultiBay
2. Primary Hard drive

Drive Support

System Drive Support	Quantity Supported	Drive Supported
Removable Media		
1.44-MB Diskette Drive	1	MultiBay
DVD/CD-RW Combo Drive	1	MultiBay
CD-RW Drive	1	MultiBay
DVD-ROM Drive	1	MultiBay
Max CD-ROM Drive	1	MultiBay
Zip 250 Drive	1	MultiBay
Super Disk 2X LS-120 Drive	1	MultiBay
Hard Drives		
60-GB SMART Hard Drive	1	Dedicated hard drive bay
40-GB SMART Hard Drive	1	Dedicated hard drive bay
30-GB SMART Hard Drive	1	Dedicated hard drive bay

System Unit	**Dimensions** (HxWxD)	15-inch and 14.1-inch TFT panel displays	1.4 x 12.9 x 10.5 in (3.6 x 32.8 x 26.7 cm)
	Weight	14.1-inch LCD, weight saver, 1 SODIMM	5.82 lb (2.64 kg*)
		15-inch LCD, weight saver, 1 SODIMM	6.00 lb (2.72 kg*)
		15-inch LCD, CD-RW, DVD or CD-ROM, 1 SODIMM	6.6 lb (2.98 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	38 W
		Power in suspend mode	< 800 mW
		Power in hibernation mode	< 100 mW
	Power Supply	Rated Input Voltage	90 to 264 VAC (auto-switching)
		Rated Input Current	< 60 W
		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 (unpressurized)	Operating	0 to 10,000 ft (0 to 3,048 m)
		Non-operating	0 to 30,000 ft (0 to 9,144 m)

14.1-Inch Color TFT XGA Display	**Dimensions** (H x W)	11.22 x 8.46 in (28.5 x 21.5 cm)	
	Diagonal Size	14.1 in (35.7 cm)	
	Mounting	Internal Panel Supports, Side Mounted	
	Number of Colors	Up to 16.8 M	
	Contrast Ratio	150:1	
	Brightness	120nt typ	
	Pixel Resolution	Pitch	0.264 x 0.264 mm
		Format	1024 x 768
		Configuration	RGB stripe
	Backlight	Edge Lit	
	Character Display	80 x 25	
	Total Power Consumption	4.2 W	
	Viewing Angle	+/-35° degrees Horizontal, +15° /-35° Vertical (typical)	

15-Inch Color TFT UXGA Display	**Dimensions** (H x W)	11.8 x 9 in (30.4 x 22.8 cm)	
	Diagonal Size	15 in (38 cm)	
	Mounting	Internal Panel Supports, Side Mounted	
	Number of Colors	Up to 16.8 M	
	Contrast Ratio	150:1	
	Brightness	140nt typ	
	Pixel Resolution	Pitch	0.191 x 0.191 mm
		Format	1600 x 1200
		Configuration	RGB stripe
	Backlight	Edge Lit	
	Character Display	80 x 25	
	Total Power Consumption	6.5 W	
	Viewing Angle	+/-35° degrees Horizontal, +15° /-35° Vertical (typical)	

15-Inch Color TFT SXGA+ Display	**Dimensions** (H x W)	11.8 x 9 in (30.4 x 22.8 cm)	
	Diagonal Size	15 in (38 cm)	
	Mounting	Internal Panel Supports, Side Mounted	
	Number of Colors	Up to 16.8 M	
	Contrast Ratio	150:1	
	Brightness	150nt typ	
	Pixel Resolution	Pitch	0.218264 x 0.218264 mm
		Format	1280 x 1024
		Configuration	RGB stripe
	Backlight	Edge Lit	
	Character Display	80 x 25	
	Total Power Consumption	5.75 W	
	Viewing Angle	+/-35° degrees Horizontal, +15° /-35° Vertical (typical)	

15-Inch Color TFT XGA Display	**Dimensions** (H x W)	11.8 x 9 in (30.4 x 22.8 cm)	
	Diagonal Size	15 in (38 cm)	
	Mounting	Internal Panel Supports, Side Mounted	
	Number of Colors	Up to 16.8 M	
	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	5.0 W	

Hard Drives

60-GB 5400 rpm	**MultiBay Drive Adapter**	Dimensions (H x W x D)	0.5 x 5.21 x 4.97 in (1.27 x 13.25 x 12.61 cm)
		Weight	0.15 lb (70 g)
	Drive Weight	0.21 lb (95 g)	
	Capacity	60 GB	
	Height	0.374 in (9.5 mm)	
	Width	2.75 in (6.99 cm)	
	Interface	ATA-5	
	Transfer Rate	Synchronous (maximum)	100 MB/s (Drive Capability)
		Security	ATA Security
	Seek Time (typical reads, including settling)	Single Track	2.5 ms
		Average	12 ms
		Maximum	23 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 4200 rpm	**MultiBay Drive Adapter**	Dimensions (H x W x D)	0.5 x 5.21 x 4.97 in (1.27 x 13.25 x 12.61 cm)
		Weight	0.15 lb (70 g)
	Drive Weight	0.21 lb (95 g)	
	Capacity	40 GB	
	Height	0.374 in (9.5 mm)	
	Width	2.75 in (6.99 cm)	
	Interface	ATA-5	
	Transfer Rate	Synchronous (maximum)	100 MB/s (Drive Capability)
		Security	ATA Security
	Seek Time (typical reads, including settling)	Single Track	3.0 ms
		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)	
	Features	Security	ATA Security

30-GB 4200 rpm	MultiBay Drive Adapter	Dimensions (H x W x D)	0.5 x 5.21 x 4.97 in (1.27 x 13.25 x 12.61 cm)
		Weight	0.15 lb (70 g)
	Drive Weight	0.22 lb (99 g)	
	Capacity	30 GB	
	Height	0.374 in (9.5 mm)	
	Width	2.75 in (6.99 cm)	
	Interface	ATA-5	
	Transfer Rate	Synchronous (maximum)	100 MB/s (Drive Capability)
		Security	ATA Security
	Seek Time (typical reads, including settling)	Single Track	2.5 ms
		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	MultiBay Drive Adapter	Dimensions (H x W x D)	0.5 x 5.21 x 4.97 in (1.27 x 13.25 x 12.61 cm)
		Weight	0.15 lb (70 g)
	Drive Weight	0.21 lb (95 g)	
	Capacity	20 GB	
	Height	0.374 in (9.5 mm)	
	Width	2.75 in (6.99 cm)	
	Interface	ATA-5	
	Transfer Rate	Synchronous (maximum)	100 MB/s (Drive Capability)
		Security	ATA Security
	Seek Time (typical reads, including settling)	Single Track	2.5 ms
		Average	12 ms
		Maximum	23 ms
	Rotational Speed	4200 rpm	
	Logical Blocks	~ 39,070,080	
	Operating Temperature	41° to 131° F (5° to 55° C)	

24X DVD/CD-RW Combo Drive	MultiBay Drive	Dimensions (H x W x D)	0.5 x 5.21 x 4.97 in (1.27 x 13.25 x 12.61 cm)
		Weight	0.74 lb (0.33 kg)
	Center Hole Diameter	3.9 cm	
	Disk Diameter	12 cm/8 cm	
	Disk Thickness	1.2 mm	
	Track Pitch	0.74 µm	
	Access Times (typical reads, including settling)	Random	< 150 ms
		Full-Stroke	< 225 ms
	Audio Output Level	Line-out	0.7 Vrms
	Cache Buffer	128 KB/s minimum	
	Data Transfer Rate (typical, including settling)	CD-R (24X)	3600 KB/s (150 KB/s at 1X CD rate)
		CD-RW (10X)	1500 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	< 15 seconds	
	Stop Time	< 6 seconds	

16X CD-RW Drive	MultiBay Drive	Dimensions (H x W x D)	0.5 x 5.21 x 4.97 in (1.27 x 13.25 x 12.61 cm)
		Weight	0.74 lb (0.33 kg)
	Center Hole Diameter	1.5 cm	
	Disk Diameter	12 cm/8 cm	
	Disk Thickness	1.2 mm	
	Track Pitch	0.74 µm	
	Access Times (typical reads, including settling)	Random	< 150 ms
		Full-Stroke	< 225 ms
	Audio Output Level	Line-out	0.7 Vrms
	Cache Buffer	128 KB/s minimum	
	Data Transfer Rate (typical, including settling)	CD-R (16X)	2400 KB/s
		CD-RW (8X)	1200 KB/s
		CD-ROM (24X)	3600 KB/s
		Normal PIO Mode 4 (single burst)	16.6 MB/s
	Start-up Time	< 15 seconds	
	Stop Time	< 6 seconds	

8X DVD-ROM Drive	MultiBay Drive	Dimensions (H x W x D)	0.5 x 5.21 x 4.97 in (1.27 x 13.25 x 12.61 cm)
		Weight	0.66 lb (0.3 kg)
	Center Hole Diameter	1.5 cm	
	Disk Diameter	12 cm/8 cm	
	Disk Thickness	1.2 mm	
	Track Pitch	0.74 µm	
	Access Times (typical reads, including settling)	Random (typical)	< 150 ms DVD Media
		Full-Stroke (typical)	< 225 ms DVD Media
		Random (typical)	< 110 ms CD Media
		Full-Stroke (typical)	< 200 ms CD Media
	Cache Buffer	512 KB/s (minimum)	
	Data Transfer Rate (typical, including settling)	Max 24X CD	3600 KB/s (150 KB/s at 1X CD rate)
		Max 8X DVD	10,800 KB/s (1352 KB/s at 1X DVD rate)
		Normal PIO Mode 4 (single burst)	16.6 MB/s
	Start-up Time	< 10 seconds	Single Session CD-ROM
	Stop Time	< 3 seconds	

24X CD-ROM Drive	MultiBay Drive	Dimensions (H x W x D)	0.5 x 5.21 x 4.97 in (1.27 x 13.25 x 12.61 cm)
		Weight	0.50 lb (0.22 kg)
	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	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	< 150 ms
		Full-Stroke	< 300 ms
	Audio Output Level	Line-out	0.7 Vrms
	Cache Buffer	128 KB	
	Data Transfer Rate (typical, including settling)	Sustained (16X)	2400 KB/s
		Variable	1500 to 3600 KB/s (10X to 24X)
		Normal PIO Mode 4 (single burst)	16.66 MB/s
	Start-up Time	< 8 seconds	
	Stop Time	< 4 seconds	

MultiBay Diskette Drive	MultiBay Drive	Dimensions (H x W x D)	0.5 x 5.21 x 4.97 in (1.27 x 13.25 x 12.61 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	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
Diskette Drive	Diskette Size	3.5 in	
	Activity Indicator	On system	
	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
	Tracks per side	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
External AC Adapter	Weight	0.6 lb (0.272 kg)	
	Power Supply (Input)	Operating Watts	65
		Operating Voltage	110 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 (8-cell)	Dimensions (L x W x D)	4.95 x 3.46 x 0.80 in (12.5 x 8.8 x 2.0 cm)	
	Weight	0.96 lb (0.43 kg)	
	Energy	Voltage	14.8 V
		Amp-hour capacity	Minimum 3.7 Ah Typical 3.9 Ah
		Watt-hour capacity	Minimum 53.2 Ah Typical 56.1 Ah
	Temperature	Operating	32° to 108° F (0° to 42° C)
		Non-operating	32° to 140° F (0° to 60° C)

Audio	Features	SoundMAX
	Wavetable Synthesis	
	# of Voices	Up to 1024 (CPU dependent)
	# of MIDI Channels	16
	Max. Sound Set Size	Unlimited (host RAM dependent)
	Sound Set Formats	DLS (Level 1), XGlite
	Bundled GeneralMIDI Sound Set(s)	1.2 MB XGlite
	Built-In Effects	Reverb and Chorus
	Sound Blaster PRO Emulation	Yes
	3D Positioning / Environments	
	Formats Supported	I3DL2 / DS3D 7 / EAX 2 / A3D 1
	Environmental Acoustics	EnvironmentFX (EAX compatible)
	Additional 3D APIs	MacroFX / ZoomFX
	Standard HRTFs	2 Channel
	Hardware	
	Implimentation	AC97 CODEC
	Audio Signal Link to CPU	Audio CODEC (AC) link
	Full Duplex	Yes
	Stereo Inputs	Line In - 20K Impedance
	Mono Inputs	Microphone - 20K Impedance
	Stereo Outputs	Analog, S/PDIF from Port Rep
	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
	Speakers	
	Amplifier Power	2-Watts RMS
	Speaker Impedance	4-Ohms

802.11b MultiPort Module	**Form Factor**	Compaq "MultiPort"	
	Weight	0.22 lb (100 g) (maximum)	
	Operating Temperature	Operating	14° to 149° F (–10° to 65° C)
	Storage Temperature	Non-operating	–40° to 176° F (–40° to 80° 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)
	Plug and Play	USB 1.1 compliant Microsoft Windows Plug and Play compliant	
	RF Network Standard	IEEE 802 Part 11b (802.11b)	
	Frequency Band	2.4000 to 2.4835 GHz 2.4465 to 2.4835 GHz (France) 2.4000 to 2.4697 GHz (Japan)	
	Number of Selectable Sub-channels	**Worldwide Certification**	
		United States (FCC)	11
		France (FR)	4
		Japan (JP)	14
		Other countries	13
	Data Rates	1, 2, 5.5, 11 Mbps	
	Antenna type	Internally integrated within module (with special polarization diversity)	
	WEP Security	64-bit encryption keys compliant to IEEE 802.11 128-bit encryption key compliant to IEEE 802.11 Ability to enter keys manually or via pass-phrase	
	Network Architecture Models	Ad-hoc (Peer to Peer) Infrastructure (Access Points Required)	
	Modulation Technique	Direct Sequence Spread Spectrum: DBPSK, DQPSK, CCK	
	Receiver Sensitivity – Bit Error Rate (1E-5)	11 Mbps: -85 dBm 5.5 Mbps: -87 dBm 2 Mbps: -91 dBm 1 Mbps: -94 dBm	
	Maximum Receive Level	–4 dBm	
	Output Power (approximately)	18 dBM	
	Operating Voltage	5V power operation	
	Power Management	Keystroke Fn+F2 Power On/Off control	
	Power Consumption	Transfer mode: < 600 mA, maximum Receive mode: > 400 mA, maximum Standby mode: > 1 mA, maximum	
	Transmit Power	10 to 100mW It is preferable to have the user configurable output power to save battery life for laptop users or in high AP coverage areas	
	Power Saving Option	802.11 Compliant Power Saving Power Saving Mode selectable through the configuration utility ACPI compliant power management	
	Media Access Protocol	CSMA/CA (Collision Avoidance) with ACK	
	OS Support	Microsoft Windows 98/98SE Microsoft Windows 2000 Microsoft Windows Millennium	
	Protocols Supported	TCP/IP IPX/SPX UDP	

LED Activity	Flashing LED – AP Search Mode Solid LED – On LED Off – Power Off	

Throughput, Data Rate and Operating Distance	Throughput	Data Rate	Operating Distance
	> 4.5 Mbps	11 Mbps	• 1000 feet – Open sight • 100 feet – Closed space (Steel Space)
	> 2 Mbps	5.5 Mbps	• 1100 feet – Open sight • 200 feet – Closed space (Steel Space)
	> 700 Kbps	1 Mbps	• 1200 feet – Open sight • 300 feet – Closed space (Steel Space)

Bluetooth MultiPort Module			
	Form Factor	Compaq "MultiPort"	
	Bluetooth	1.1 Compliant	
	Dimensions	2.2 x 6.6 x 0.55 in (5.6 x 16.7 x 1.4 cm)	
	Weight	0.22 lb (100 g) (maximum)	
	Temperature	Operating	-50° to 104° F (10° to 40° C)
		Non-operating	–4° to 140° F (–20° to 60° C)
	Humidity	Operating	10 to 90%
		Non-operating	5 to 95%
	Altitude	Operating	0 to 10,000 ft (3,048 m)
		Non-operating	0 to 30,000 ft (9,144 m)
	Plug and Play	USB 1.1 compliant	
		Microsoft Windows Plug and Play compliant	
	Frequency Band	2.4000 to 2.4835 GHz	
	Number of Available Channels	79 (1 MHz) available channels	
	Data Rates and throughput	1 Mbps 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 (with special polarization diversity)	
	Range	328 ft (100 m)	
	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	
	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 GSM/SMS, PCS, PHS, DECT, RAM, ARDIS, CDPD, etc. 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	
Transmit Power	< 20 dBM (Bluetooth Class 1)	
Receive Sensitivity	Better than –70 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 Models	Ad-hoc (Peer to Peer) Infrastructure (Access Points Required)	
Power Requirement	Peak	< 1500 mW
	Average	< 500 mW
	Standby	< 250 mW
Power Management	Microsoft Windows ACPI, and USB Bus Support Keystrokes Fn+F2 Power On/Off control Self configurable to optimize power conservation in all operating modes, including Standby, Hold, Park, and Sniff	
OS Support	Microsoft Windows XP Professional Microsoft Windows 2000 Microsoft Windows 98/98SE Microsoft Windows Millennium	
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	

Type III Mini PCI 56K (V.92) Modem	**Form Factor**	Mini-PCI Type III per Specification
	Power Management Support	APM Revision 1.2, ACPI, Compaq Power Management Extensions for Microsoft Windows NT®
	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	V.92 (a-law,mu-law) V.90 (a-law, mu-law) V.8bis V.80 V.44 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, +LIRR 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	Intel PRO/100 P Mobile Combo Adapter
	Data Link Layers	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 all power managed states, including soft off (S5) Boot on LAN from OFF Lower Power State on Link Loss
	Software support	IBM LAN Server Version 1.2, 1.3, 2.0, 4.0 Microsoft NT 3.51, NT 4.0. Microsoft Windows 2000 Novell Netware 3.1x, 4.x, 5.x
	Protocol support	TCP/IP Novell IPX/SPX and Microsoft compatible Novel IPX ODI Microsoft NetBEUI IBM DLC

© Copyright 2003-2004 Hewlett-Packard Development Company, L.P.
The information contained herein is subject to change without notice.

Windows is a US registered trademark of Microsoft Corporation.

The only warranties for HP products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein.