

Overview

What's New

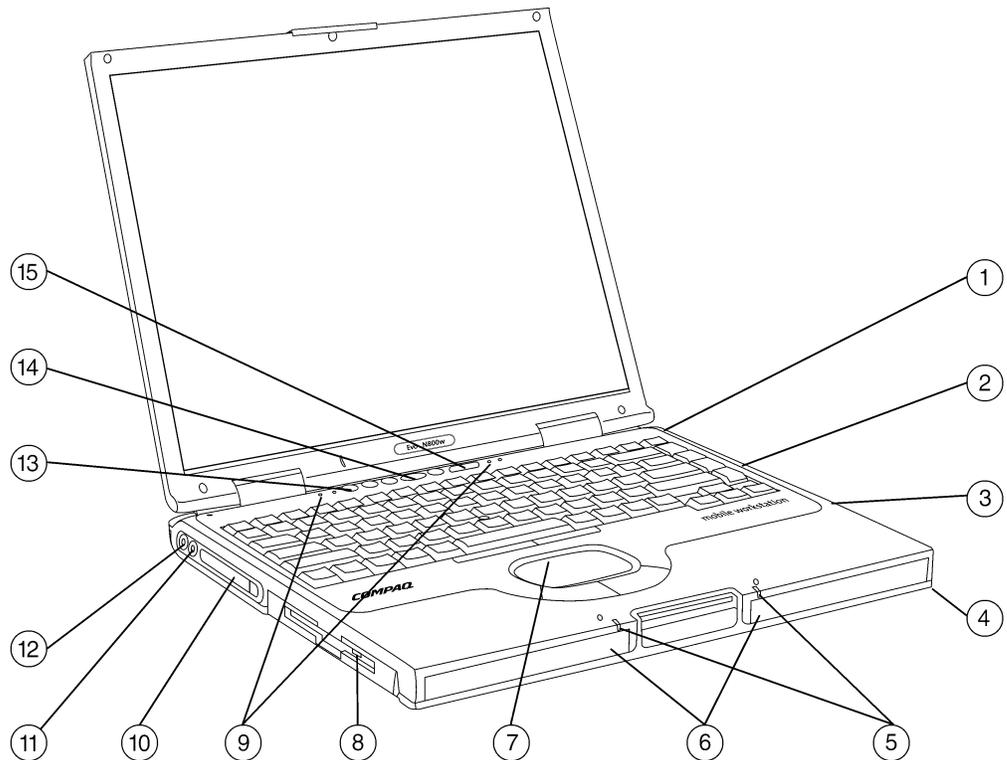
- Mobile Intel® Pentium® 4 Processor-M – up to 2.2 GHz
- High performance ATI Mobility FireGL 9000 Graphics with 64MB dedicated DDR video memory
- Certified with the latest professional workstation applications

At A Glance

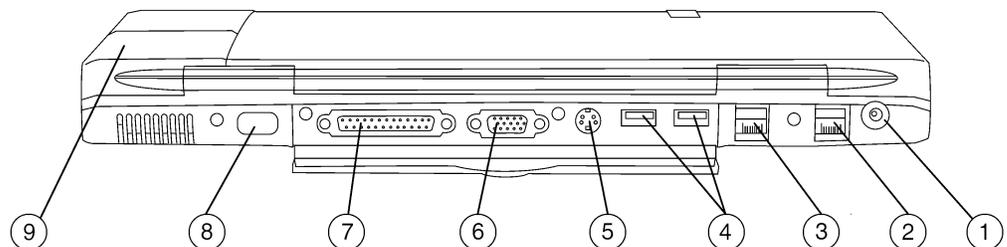
- Mobile Intel Pentium 4 Processor-M – up to 2.2 GHz
- 15-inch UXGA display
- Durable magnesium enclosure
- Configurations as light as 6.0 lb/2.72 kg weight (15-inch panel w/ weight saver)
- 1.4 in/3.6 cm thin
- 512-MB DDR SDRAM (266 MHz), upgradeable to 2 GB! (when available)
- Up to 60-GB/5400 rpm primary SMART hard drives; 120GB with second MultiBay drive
- 56K Mini PCI modem and integrated 10/100 NIC
- Full-size keyboard
- Microsoft® Windows® XP Pro or Microsoft Windows 2000
- Includes a Three-year on-site warranty in the U.S. and Canada, Three-year Worldwide limited Warranty. —Certain restrictions and exclusions apply. Consult the Compaq Customer Support Center for details.

What's Special

- High performance ATI Mobility FireGL 9000 Graphics with 64MB dedicated DDR video memory
- Certified with the latest professional workstation applications
- 15" UXGA panel
- Latest USB 2.0 interface
- Large hard drives
- Wireless features thru Award-Winning MultiPort



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



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

Standard Features

Processor and Panel	15-inch color TFT UXGA with 1600 x 1200 resolution (up to 16.7M colors internal) 2.2 GHz on Mobile Intel Pentium 4 processor-M with 512 KB L2 cache NOTE: Mobile Intel Pentium 4 processor-M supports enhanced Intel SpeedStep™ technology. NOTE: Mobile Intel Pentium 4 processors featuring Intel SpeedStep technology, speed denotes maximum performance mode; battery optimization mode is approximately 80% of maximum performance mode.				
Graphics	Highest performance ATI Mobility Fire GL 9000 Graphics, 64-bit video, 4X AGP with 64-MB DDR video memory for increased color depth and graphics performance				
Memory	Standard/ 512 MB (266 MHz) DDR SDRAM (256 MB SODIMM in slot 1 and slot 2) Maximum 2 GB (266 MHz) DDR SDRAM (1024 MB SODIMMs in slots 1 and 2) – available in mid 4Q 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 (LOM) 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	102-key compatible keyboard with isolated, inverted-T cursor control keys, and right-control key, special feature hotkeys for instant access to power conservation, toggle between internal and external, or simultaneous displays, and control brightness and contrast.				
Easy Access Internet Buttons	The Compaq Evo mobile workstation N800w features three Easy Access Buttons (EAB) designed to increase customer productivity by providing one-touch access to helpful Compaq information, favorite Internet destinations, or default e-mail application. The EAB portion of the keyboard deck also includes dedicated hardware volume control and a quick-launch button for CD/DVD play.				
Pointing Device	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				
Storage	<table><tr><td>Primary Hard Drive</td><td>60-GB 5400 RPM 40-GB 5400 RPM 30-GB 4200 RPM</td></tr><tr><td>Optical Drives</td><td>DVD-CD-RW DVD-ROM or CD-ROM</td></tr></table>	Primary Hard Drive	60-GB 5400 RPM 40-GB 5400 RPM 30-GB 4200 RPM	Optical Drives	DVD-CD-RW DVD-ROM or CD-ROM
Primary Hard Drive	60-GB 5400 RPM 40-GB 5400 RPM 30-GB 4200 RPM				
Optical Drives	DVD-CD-RW DVD-ROM or CD-ROM				

Standard Features

Interfaces	PC Card	One Type II
	Enhanced Parallel EPP/ECP	1
	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
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)	15-inch color TFT UXGA with 1600 x 1200 resolution (up to 16.7M colors internal)	
Operating System	Microsoft Windows XP Pro or Microsoft Windows 2000 preinstalled	
Software	Compaq <i>Insight Management</i> [™] Agents Diagnostics for Microsoft Windows DVD Playback Software Compaq Security Management Safety and Comfort Guide Acrobat Reader Reference Guide Compaq Easy Access Button Software Altiris eXpress Client Software	
System Recovery	Each unit is shipped with a series of CD's kit for quick OS recovery (erases hard disk and restores manufacturer installed image)	
Intelligent Manageability	Compaq Intelligent Manageability, a key component of PC Lifecycle Solutions, is the broad set of manageability features found on Compaq <i>Deskpro</i> [™] EN desktops, <i>Armada</i> [™] notebooks, Evo Clients, Professional Workstation, <i>iPAQ</i> [™] Deskside and <i>ProLiant</i> [™] server products. These best-in-class features on PC clients comply with industry standards, such as DMI and Wired for Management, while pioneering new ground in client manageability. Compaq introduced the industry's first line of manageable clients in 1995 and has been driving the industry ever since. With Compaq's lifecycle management philosophy, enterprises have all of the pieces for end-to-end management and proven tools for hassle-free management of PCs. The combination of these tools will significantly lower the Total Cost of Ownership of managing the computing environment. Intelligent Manageability offers solutions in the areas of Initial Configuration and Deployment, Asset Tracking and Security, Software Updating and Management, and Fault Notification and Recovery. For more information, visit these Compaq Web sites: http://www.compaq.com/im ; http://www.compaq.com/easydeploy ; http://www.compaq.com/solutions/pcsolutions ; NOTE: These web sites are available in English only.	

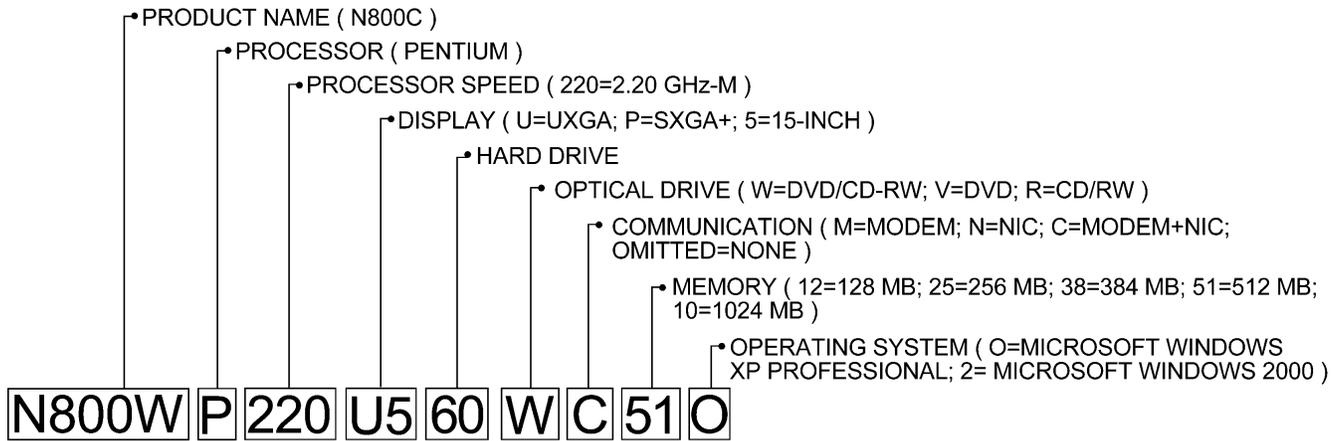
Standard Features

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 65-watt AC adapter, 6-foot/1.8-meter power cord included. Total length including External AC adapter is 12 feet/3.66 meter
Battery	3.5 hrs of battery life, 8-cell Lithium-Ion technology, dual battery support through the MultiBay. SBS Battery Architecture
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
MultiBay Devices	MultiBay devices may be swapped with the system powered on (hot) under Microsoft Windows XP or Microsoft Windows 2000 (except secondary hard drive). 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, DVI, USB, and a 1394* digital port. Compatible across multiple platforms for lower total cost of ownership. (Note: 1394 not supported on N800w)
Service and Support	Compaq Services includes a Three-year onsite warranty in the U.S. and Canada. The Three-year, Worldwide Limited Warranty applies Globally, pick-up or carry-in, upgrade to on-site warranty or additional two-year warranty available globally, and toll-free 7 x 24 hardware technical phone support. NOTE: Certain restrictions and exclusions apply. Consult the Compaq Customer Support Center for details.

Standard Features

Naming Convention

The Etymology of a Model name:



Standard Features

Models

N800WP220U560WC512	Graphics	ATI Fire GL 9000 with full 3D OpenGL support, 64MB DDR video memory
	Processor	2.2 GHz-M on Mobile Intel Pentium 4 processor
	Display	15-inch color TFT UXGA
	Cache Memory	512KB, L2 Cache
	Memory	Standard 512 MB (266 MHz) DDR SDRAM Maximum 2 GB MB (266 MHz) DDR SDRAM (when available)
	Hard Drive	60-GB 5400 RPM
	Optical Drive	24X DVD/CD-RW
	Communications	Type III Mini PCI 56K (V.92) modem, (LOM) integrated 10/100 NIC
	Audio	JBL Pro Speakers with bass reflex and 16-bit stereo sound
	Operating System	Windows 2000
	Pointing Device	Dual Pointing Device and USB mouse
	N800WP220U560WC510	Graphics
Processor		2.2 GHz-M on Mobile Intel Pentium 4 processor
Display		15-inch color TFT UXGA
Cache Memory		512KB, L2 Cache
Memory		Standard 512 MB (266 MHz) DDR SDRAM Maximum 2 GB MB (266 MHz) DDR SDRAM (when available)
Hard Drive		60-GB 5400 RPM
Optical Drive		24X DVD/CD-RW
Communications		Type III Mini PCI 56K (V.92) modem, (LOM) integrated 10/100 NIC
Audio		JBL Pro Speakers with bass reflex and 16-bit stereo sound
Operating System		Windows XP Pro
Pointing Device		Dual Pointing Device and USB mouse

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)	232944-001
	S720 17-inch CRT (carbon/silver)	239287-001
	V570 15-inch CRT (carbon/silver)	228113-001
MultiBay Devices	24X Combo DVD/CD-RW	269089-B25
	16X CD-RW	269088-B25
	8X CD-RW	136186-B25
	8X DVD Drive	138230-B25
	24X Max CD-ROM	298452-B25
MultiBay Storage	Diskette Drive	226935-B25
	SuperDisk LS-120	217387-B25
	30-GB Hard Disk Drive	212791-B25
	40-GB Hard Disk Drive	263472-B25
	60-GB Hard Disk Drive	278420-B25
Other Storage Devices	IBM 1GB 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
	1394 PC Card	232949-001
<p>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.</p>		
Wireless Connectivity	802.11b MultiPort Wireless LAN module	233412-001
	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

Options

Expansion Bases	Port Replicator	307648-001
	Advanced Port Replicator	307651-001
	External MultiBay	217388-001
	Advanced Port Replicator Monitor Stand	274407-B25
Power	Evo mobile workstation 8 Cell primary battery (4.4Ah) N800w	278418-B25
Common Power Solutions	MultiBay Battery (8-cells)	265651-B25
	External Battery Charger	265603-001
	External Battery Charger (Multiple Battery)	265604-001
	AC Adapter 65W	265602-001
	Auto Power Adapter/Charger 65W	265649-B25
	Aircraft Power Adapter	386504-B21
	AC Line Cord (10-ft/3.1 m)	217932-002
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	222726-008
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 N800w

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
1024 MB*	1024MB	
1536 MB*	1024 MB	512 MB
2048 MB*	1024 MB	1024 MB

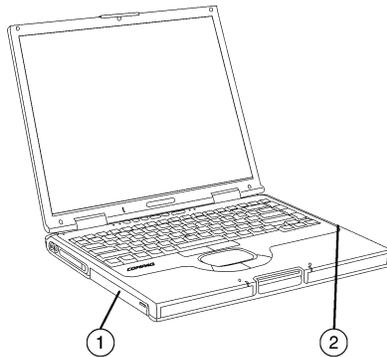
*when 1024MB memory modules available

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 Bay 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
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

Technical Specifications

System Unit	Dimensions (H x W x D)	15-inch TFT panel displays	1.4 x 12.9 x 10.5 in (3.6 x 32.8 x 26.7 cm)
	Weight	15-inch LCD, weight saver, 1 SODIMM	6.0 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		38W
	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)

Technical Specifications

15-Inch Color TFT UXGA Display	Dimensions (H x W)	11.8 x 9.0 in (30.4 x 22.8 cm)		
	Diagonal Size	15.0 in (38.0 cm)		
	Mounting	Internal Panel Supports, Side Mounted		
	Number of Colors	Up to 16.8M		
	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	6.5W			

15-Inch Color TFT SXGA+ Display	Dimensions (H x W)	11.8 x 9.0 in (30.4 x 22.8 cm)		
	Diagonal Size	15.0 in (38.0 cm)		
	Mounting	Internal Panel Supports, Side Mounted		
	Number of Colors	Up to 16.8M		
	Contrast Ratio	150:1		
	Brightness	150nt typ		
	Pixel Resolution	Pitch	0.218264 x 0.218264 mm	
		Format	1280x 1024	
		Configuration	RGB stripe	
	Backlight	Edge Lit		
	Character Display	80 x 25		
Total Power Consumption	5.75W			

Technical Specifications

Hard Drives

60-GB

MultiBay Drive Adapter	Dimensions (H x W x D)	1.27 x 13.25 x 12.61 cm (0.5 x 5.21 x 4.97 in)
	Weight	0.15 lb (70 g)
Drive Weight	0.34 lb (155 g)	
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 (typical reads, including settling)	Single Track	2.5 ms
	Average	13 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

Technical Specifications

Hard Drives (continued)

40-GB	MultiBay Drive Adapter	Dimensions (H x W x D)	1.27 x 13.25 x 12.61 cm (0.5 x 5.21 x 4.97 in)
		Weight	0.15 lb (70 g)
	Drive Weight	0.22 lb (99 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 (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	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 (70 mm)	
	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	13 ms
		Maximum	23 ms
	Rotational Speed	4200 rpm	
	Logical Blocks	58,605,120	
	Operating Temperature	41° to 131°F (5° to 55°C)	

Technical Specifications

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 Wh
	Typical		56.1 Wh	
	Temperature	Operating	32° to 108°F (0° to 42°C)	
		Non-operating	32° to 140°F (0° to 60°C)	

Technical Specifications

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 μ m	
	Access Times (typical reads, including settling)	Random CD	< 150 ms
		Full-Stroke CD	< 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	

Technical Specifications

16X CD-RW Drive	MultiBay Drive	Dimensions (H x W x D)	1.27 x 13.25 x 12.61 cm (0.5 x 5.21 x 4.97 in)
		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 μ m	
	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	
	Disc Diameter	12 cm/8 cm	
	Disc Thickness	1.2 mm	
	Track Pitch	0.74 μ m	
	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		

Technical Specifications

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 μ m	
	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

Technical Specifications

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		

Technical Specifications

Throughput, Data Rate and Operating Distance	Throughput	Data Rate	Operating Distance
	> 4.5 Mbps	11 Mbps	<ul style="list-style-type: none"> • 1000 feet – Open sight • 100 feet – Closed space (Steel Space)
	> 2 Mbps	5.5 Mbps	<ul style="list-style-type: none"> • 1100 feet – Open sight • 200 feet – Closed space (Steel Space)
	> 700 Kbps	1 Mbps	<ul style="list-style-type: none"> • 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

Technical Specifications

Bluetooth MultiPort Module <i>(continued)</i>	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

Technical Specifications

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
	Modem Device Driver Name	Lucent Win Modem
	Data Mode Capabilities	V.90 (a-law, mu-law) K56flex (a-law, mu-law) V.8bis V.80 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

Technical Specifications

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	
Software support	Lower Power State on Link Loss	
	IBM LAN Server Version 1.2, 1.3, 2.0, 4.0	
	Microsoft NT 3.51, NT 4.0. Microsoft Windows 2000	
Protocol support	Novell® Netware® 3.1x, 4.x, 5.x	
	TCP/IP	
	Novell IPX/SPX and Microsoft compatible	
	Novel IPX ODI	
	Microsoft NetBEUI	
IBM DLC		

ISV Certifications

		WinXP	Win2000
CAD	Autodesk AutoCAD	Pre-Certified	Pre-Certified
	Autodesk Inventor	Certified	
	Dassault Solidworks		Certified
	EDS/PLM Unigraphics	Certified	Certified
	PTC Pro/Engineer	Certified	Certified
	Dassault Catia		
	Bentley Microstation	Certified	Certified
DCC	Avid Express DV 3.5		Certified
	Pinnacle Edition	Certified	Certified
	Adobe Premiere/After Effects	Certified	Certified
	Discreet 3DS MAX/Combustion		
	Alias Wavefront Maya	Certified	Certified
	Avid SoftImage XSI/3D	Certified	Certified
GIS	ESRI ArcInfo		
CAD	PTC Pro/Mechanica		
	EDS/PLM Solidedge		
	EDS/PLM I-DEAS		
	ICEM Surf		
DCC	Alias Wavefront Studio Tools		
	Side Effects Houdini, Houdini Select	Certified	Certified
	Toonboom US Animation and ToonBoom Studio		
	Newtek		
FEA	MSC.Patran		
	Ansys		

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