

Overview

What's New

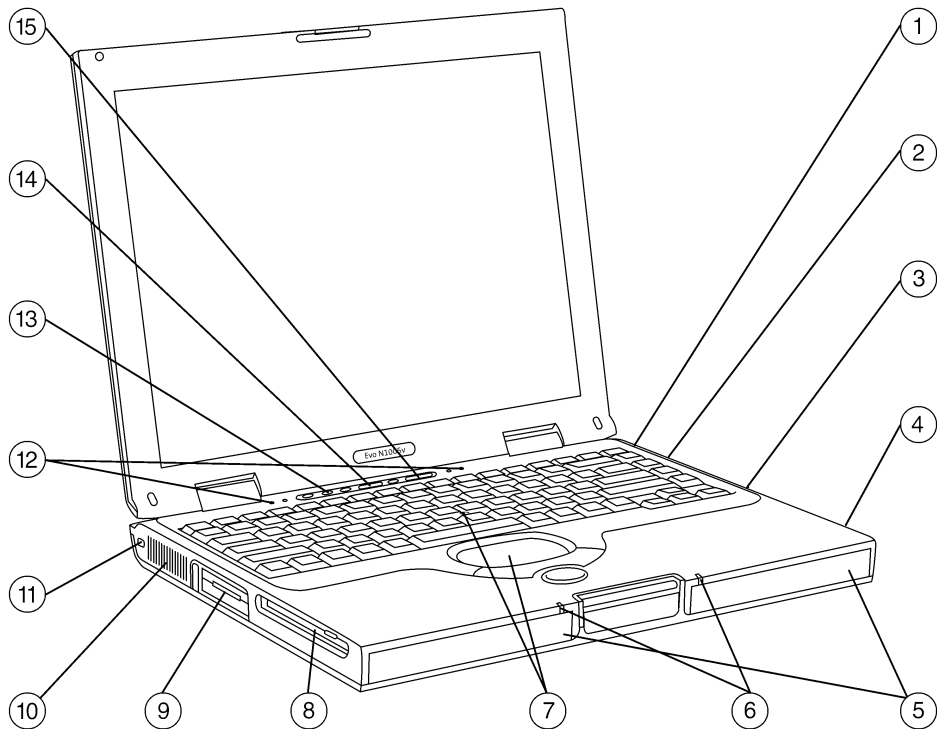
- Mobile AMD® Athlon XP Processor – up to 1700+
- 266-MHz bus
- 4X AGP Graphics
- MultiPort wireless communication options
- Sophisticated design elements
- 1394 Digital interface

At A Glance

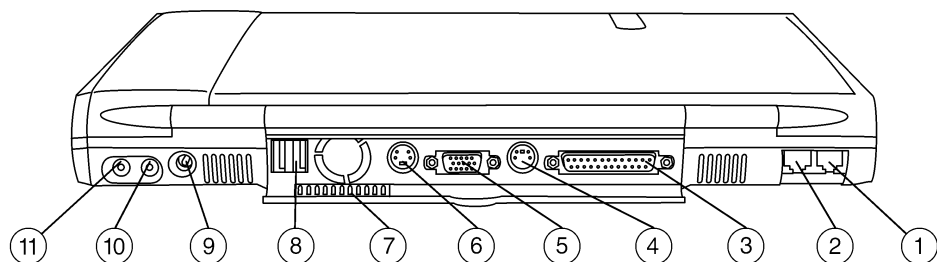
- Mobile AMD® Athlon XP Processor – up to 1800+
- 15-inch XGA, SXGA+ and 14.1-inch XGA display
- Magnesium enclosure for the 15-inch panels
- Configurations as light as 6.6 lb/2.99 kg weight (14-inch panel)
- 1.55 in/3.95 cm thin
- 256-MB DDR SDRAM (266 MHz), Upgradeable to 1024 MB
- Up to 40-GB/5400 rpm SMART hard drives
- Mini PCI modem and integrated NIC
- Full-size keyboard
- Microsoft® Windows® XP Pro or Home preinstalled and support for Windows 2000
- Includes a One-year, Worldwide Warranty—Certain restrictions and exclusions apply. Consult the Compaq Customer Support Center for details.

What's Special

- All-in-one convenient design
- High-end ATI Radeon graphics and large panel
- 1394 Digital Interface
- Large hard drives
- Wireless features through Award-Winning MultiPort



- | | |
|--------------------------|-------------------------|
| 1. 1394 | 9. PC Card Slot (1) |
| 2. Infrared | 10. Kensington Lock |
| 3. Optical Drive | 11. Air Vent |
| 4. Battery | 12. Keyboard LEDs |
| 5. Stereo Speakers | 13. Easy Access Buttons |
| 6. System LEDs | 14. Power Button |
| 7. Dual Pointing Devices | 15. Volume Control |
| 8. Diskette Drive | |



- | | |
|-------------|---------------|
| 1. RJ-11 | 7. Air Vent |
| 2. RJ-45 | 8. USB |
| 3. Parallel | 9. DC in |
| 4. PS/2 | 10. Audio in |
| 5. VGA | 11. Headphone |
| 6. S-video | |

Standard Features

Processor and Panel	15-inch color TFT SXGA+ with 1400 x 1050 resolution (up to 16.7M colors internal) 15-inch color TFT XGA with 1024 x 768 resolution (up to 16.7M colors internal) 14.1-inch color TFT XGA with 1024 x 768 resolution (up to 16.7M colors internal)						
<i>One of the following:</i>	AMD Athlon XP 1800+ (Quantum speed architecture running at 1.53 GHz) with 256-KB L2 cache AMD Athlon XP 1700+ (Quantum speed architecture running at 1.47 GHz) with 256-KB L2 cache AMD Athlon XP 1600+ (Quantum speed architecture running at 1.40 GHz) with 256-KB L2 cache AMD Athlon XP 1500+ (Quantum speed architecture running at 1.30 GHz) with 256-KB L2 cache AMD Athlon XP 1500+ (Quantum speed architecture running at 1.30 GHz) with 256-KB L2 cache NOTE: Mobile AMD Athlon XP supports enhanced AMD's PowerNow™ technology.						
Memory	Standard/Maximum 128 MB (266 MHz) DDR SDRAM 256 MB (266 MHz) DDR SDRAM 512 MB (266 MHz) DDR SDRAM 1024 MB (266 MHz) DDR SDRAM 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 Evo™ Notebook N1005v 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	TouchPad with 4-way scroll						
PC Card Slots	One Type II PC Card Slot which supports both 32-bit CardBus and 16-bit PC Cards						
Storage	<table border="0"> <tr> <td data-bbox="503 1302 779 1543"> Primary Hard Drive </td> <td data-bbox="779 1302 1497 1543"> 40-GB 4200 RPM 30-GB 4200 RPM 20-GB 4200 RPM </td> </tr> <tr> <td data-bbox="503 1554 779 1606"> Diskette Drives </td> <td data-bbox="779 1554 1497 1606"> 1.44 MB Floppy Drive </td> </tr> <tr> <td data-bbox="503 1617 779 1730"> Optical Drives </td> <td data-bbox="779 1617 1497 1730"> DVD/CD-RW Combo Drive 8X DVD-ROM Drive or 24X CD-ROM Drive </td> </tr> </table>	Primary Hard Drive	40-GB 4200 RPM 30-GB 4200 RPM 20-GB 4200 RPM	Diskette Drives	1.44 MB Floppy Drive	Optical Drives	DVD/CD-RW Combo Drive 8X DVD-ROM Drive or 24X CD-ROM Drive
Primary Hard Drive	40-GB 4200 RPM 30-GB 4200 RPM 20-GB 4200 RPM						
Diskette Drives	1.44 MB Floppy Drive						
Optical Drives	DVD/CD-RW Combo Drive 8X DVD-ROM Drive or 24X CD-ROM Drive						

Standard Features

Multimedia	<p>JBL Pro Speakers with bass reflex and 16-bit stereo sound Dedicated Hardware volume controls Headphone-out port Microphone in port Software MPEG1 support, MPEG2 and DVD 8X DVD/CD-RW Combination Drive (on select models) 8X DVD-ROM Drive with movie playback software (on select models) 24X CD-ROM Drive (on select models) S-video Port IEEE 1394 Port 4X AGP graphics</p>	
Interfaces	PC Card	One Type II
	Enhanced Parallel EPP/ECP	1
	S-Video	1
	VGA	1
	1394	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	<p>ATI Radeon IGP video graphics with user configurable 16-, 32- or 64-MB VRAM video memory for increased color depth and graphics performance</p>	
Display (External)	<p>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 resolutions up to 160-Hz refresh rate, dependent upon monitor capability, resolution and color depth settings</p>	
Display (Internal)	<p>15-inch color TFT SXGA+ with 1400 x 1050 resolution (up to 16.7M colors internal) 15-inch color TFT XGA with 1024 x 768 resolution (up to 16.7M colors internal) 14.1-inch color TFT XGA with 1024 x 768 resolution (up to 16.7M colors internal)</p>	
Operating System	<p>Microsoft Windows XP Pro or Home preinstalled with support for Windows</p>	
Software	<p>Diagnostics for Microsoft Windows DVD Playback Software Compaq Power Management Compaq Security Management Safety and Comfort Guide Acrobat® Reader® Reference Guide Norton Internet Security Compaq Easy Access Button Software</p>	

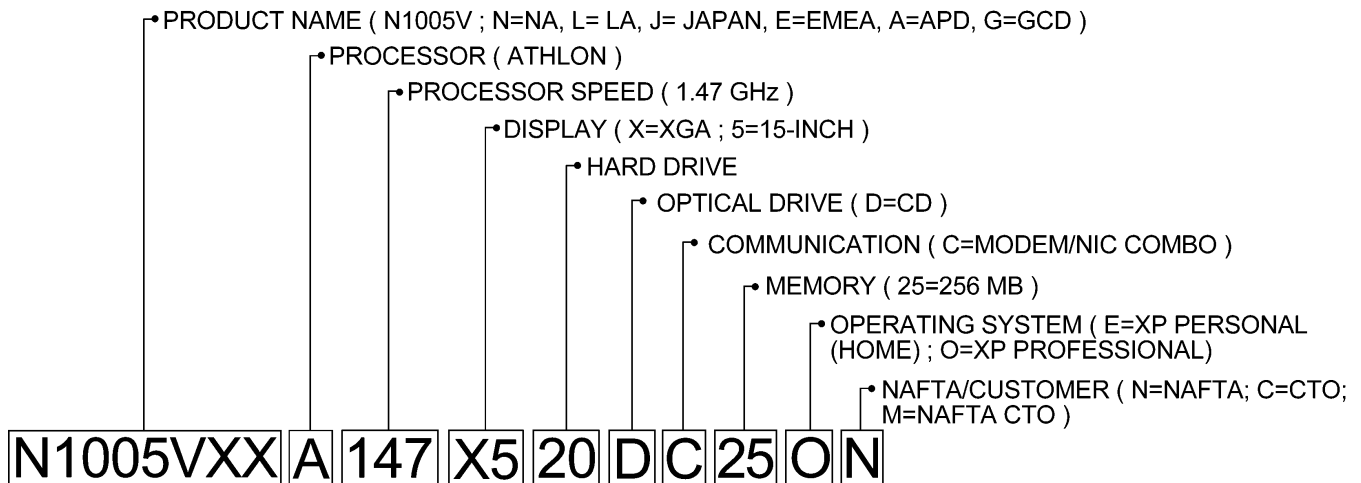
Standard Features

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) and software recovery (installs only selected standard software).
Security	Configuration Control Hardware Memory Change Alert Ownership Tag Set-up Password Power-On Password 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	<p>The <i>Evo</i> Notebook N1005v provides up to three hours of battery life using the standard 8-cell Lithium-Ion battery.</p> <p>NOTE: Actual results may vary with product model, configuration, and individual usage. Compaq results of 3:01 (hr:min) were achieved running the Business Winstone 2001 Battery Mark™ 1.0.1 on a N1005v with a AMD Athlon XP 1600+ CPU, 15-inch XGA panel, 128-MB RAM, 20-GB HDD, 8X DVD, 8-cell Lithium-Ion battery, and NIC/modem. System parameters were set according to eTesting Labs' recommendations: panel brightness 50%, power management timers turned off.</p> <p>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.</p>
Power Conservation	Hibernation Instant-on via Standby Pop-ups with three presets One custom level of power conservation ACPI compliant
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 in the top of the notebook. The award-winning MultiPort offers a cost effective means to migrate to future wireless standards as they become available.
Service and Support	<p>Compaq Services includes a one-year, Worldwide Limited Warranty, pick-up or carry in; upgraded warranty and toll-free 7 x 24 hardware technical phone support is available.</p> <p>NOTE: Certain restrictions and exclusions apply. Consult the Compaq Customer Support Center for details.</p>

Standard Features

Naming Convention

The Etymology of a Model name:



Standard Features

MODELS

N1005VA147X520DC25E0	Display	15-inch color TFT XGA	
	Processor	Athlon XP 1700+ (1.4 GHz)	
	Cache Memory	256-KB L2 Cache	
	Memory	Standard	256 MB (133 MHz) DDR SDRAM
		Maximum	1024 MB (133 MHz) DDR SDRAM
	Optical Drive	DVD	
	Hard Drive	20-GB SMART	
	Communications	Type III Mini PCI 56K (V.92) modem, (LOM) integrated 10/100 NIC	
	Graphics	ATI Mobility Radeon	
	Video Memory	16-MB shared VRAM memory	
	Audio	JBL Pro Speakers with bass reflex and 16-bit stereo sound	
	Operating System	Microsoft Windows XP PRO	
	Pointing Device	Touchpad	

N1005VA147X530DC250	Display	15-inch color TFT SXGA+	
	Processor	Athlon XP 1800+ (1.53 GHz)	
	Cache Memory	256-KB L2 Cache	
	Memory	Standard	256 MB (133 MHz) DDR SDRAM
		Maximum	1024 MB (133 MHz) DDR SDRAM
	Optical Drive	DVD/CD-RW	
	Hard Drive	30-GB SMART	
	Communications	Type III Mini PCI 56K (V.92) modem, (LOM) integrated 10/100 NIC	
	Graphics	ATI Mobility Radeon	
	Video Memory	16-MB shared VRAM memory	
	Audio	JBL Pro Speakers with bass reflex and 16-bit stereo sound	
	Operating System	Microsoft Windows XP PRO	
	Pointing Device	Touchpad	

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)	234362-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
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 Type III Mini PCI 56K (V.90) Modem plus 10/100 NIC Combo	225642-B31
	100BaseTX Ethernet Upgrade	225435-001
	1394 PC Card	177593-B25
	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	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
	CDPD WWAN PC Card (U.S. Only)	238111-001
Expansion Bases	Targus USB Port Replicator	239172-001
Power	<i>Evo</i> Notebook N1005v 8-cell primary battery (4 Ah)	291369-B21
Common Power Solutions	External Battery Charger	265603-xxx
	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

Options

Security	Biometric PC Card	146805-B25
	Security Cable Lock	294316-B21
	Compaq Smart Card PC Card Reader	135646-B25
Useful Accessories	Compaq iPAQ Microportable Projector MP1200	261966-xxx
	Compaq iPAQ Microportable Projector MP3800	262839-xxx
	Compaq iPAQ Microportable Projector MP4800	257524-xxx
	Lamp Module L20 for MP1200	266631-B24
	Lamp Module L30 for MP3800	266633-B24
	Home Theatre Kit HT150 for MP3800	292187-B24
	Carrying Case for MP1200	295731-B24
	Lamp Replacement Kit for MP1600	118052-001
	Lamp Module for MP1800, MP1400	189789-001
	Lamp Module for MP2800, MP2810	215464-001
	Home Theater Kit HT110 for MP1410	246161-001
	Multimedia Adapter & Remote Control Kit MMA110 for MP1410	246162-001
	Multimedia Adapter & Remote Control Kit for MP1400, MP1800	174963-001
	Deluxe Carrying Case for MP Series projectors	253364-001
	Lamp Module for MP1410, MP1810	253365-001
	Lamp Module L90 for MP4800	257892-001
	Home Theater Kit HT180 for MP1200, MP4800	281729-001
	CeilingMount Kit CM10 for MP1200, MP4800	281730-001
	hp digital projector sb21	L1510A
	hp digital projector xb31	L1511A
	Ceiling Mount Kit for xb31	L1513A
	M1-A to component/USB video cable for sb21, xb31	L1523A
	M1-D to DVI/USB cable for sb21, xb31	L1529A
	Lamp Module for sb21	L1515A
	Lamp Module for xb31	L1516A

Memory

Compaq *Evo* N1005v

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.

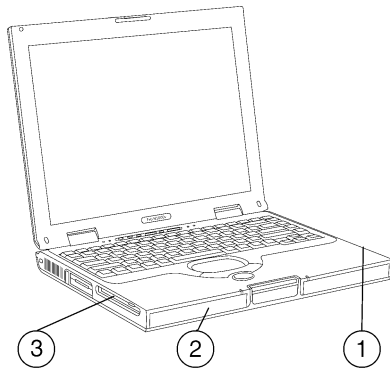
Memory	Slot 1	Slot 2
256 MB	256 MB	--
384 MB	256 MB	128 MB
512 MB	512 MB	--
768 MB	512 MB	256 MB
1024 MB	512 MB	512 MB

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. Dedicated Optical Drive
2. Primary Hard Drive
3. Dedicated Disk Drive

DRIVE SUPPORT

System Drive Support	Quantity Supported	Drive Bay Supported
1.44-MB Diskette Drive	1	Dedicated Disk Drive
DVD/CD-RW Combo Drive	1	Dedicated Optical Drive
DVD-ROM Drive	1	Dedicated Optical Drive
CD-ROM Drive	1	Dedicated Optical Drive

Hard Drives

40-GB SMART Hard Drive	1	Dedicated Hard Drive Bay
30-GB SMART Hard Drive	1	Dedicated Hard Drive Bay
20-GB SMART Hard Drive	1	Dedicated Hard Drive Bay

Technical Specifications

System Unit	Dimensions (H x W x D)	15-inch and 14.1-inch TFT panel 1.55 x 12.89 x 10.53 in/3.95 x 32.75 x 26.75 cm displays
	Weight	14.1-inch LCD,, CD-RW, DVD or CD-ROM, 1 SODIMM 6.60 lb/2.99 kg 15-inch LCD, CD-RW, DVD or CD-ROM, 1 SODIMM 6.87 lb/3.12 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

14.1-Inch Color TFT XGA Display	Dimensions (H x W)	11.24 x 8.43 in/28.6 x 21.4 cm		
	Diagonal Size	14.1 in/35.7 cm		
	Mounting	Internal Panel Supports, Side Mounted		
	Number of Colors	Up to 16.8M		
	Contrast Ratio	150:1		
	Brightness	150nt typ		
	Pixel Resolution	Pitch	0.264 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			

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 16.8M		
	Contrast Ratio	150:1		
	Brightness	150nt typ		
	Pixel Resolution	Pitch	0.218 x 0.218 mm	
		Format	1280 x 1024	
		Configuration	RGB stripe	
	Backlight	Edge Lit		
Character Display	80 x 25			
Total Power Consumption	5.75 W			

Technical Specifications

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 16.8M		
	Contrast Ratio	150:1		
	Brightness	150nt typ		
	Pixel Resolution	Pitch	0.297 x 0.297 mm	
		Format	1024 x 768	
		Configuration	RGB stripe	
	Backlight	Edge Lit		
	Character Display	80 x 25		
Total Power Consumption	5 W			

Hard Drives

40 GB	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 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			

Technical Specifications

Hard Drives *(continued)*

30 GB

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	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

Capacity	20 GB	
Height	0.374 in/9.5 mm	
Width	2.75 in/70 mm	
Interface	ATA-5	
Transfer Rate	Synchronous (maximum)	100 MB/s (Drive Capability)
	Security	ATA Security
Seek Time (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	

Technical Specifications

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 0.8 in/12.5 x 8.8 x 2 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

DVD/CD-RW Drive	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 CD	< 120 ms	
		Full-Stroke CD	< 175 ms	
	Audio Output Level	0.7-0.9 Vrms		
	Cache Buffer	2 Mbytes (minimum)		
	Data Transfer Rate (typical, including settling)	CD-ROM, CD-R Read Speed	3600 Kb/s	
		Audio Output Level	DVD-ROM Read Speed	8100 Kb/s
	Cache Buffer	CD-R, CD-RW Write Speeds	Sustained 1200 KB/s (8X CLV)	
	Start-up Time	Single	< 7 seconds (typical)	
		Multi-Session	< 30 seconds (typical)	
	Stop Time	< 3 seconds (typical)		

DVD-ROM Drive	Center Hole Diameter	0.59 in/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)	< 125 ms DVD Media	
		Full-Stroke (typical)	< 225 ms DVD Media	
		Random (typical)	< 100 ms CD Media	
		Full-Stroke (typical)	< 175 ms CD Media	
	Cache Buffer	512 KB/s (minimum)		
	Data Transfer Rate (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	< 12 seconds		
	Stop Time	< 3 seconds		

Technical Specifications

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

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)			

Technical Specifications

802.11b MultiPort Module <i>(continued)</i>	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 Microsoft Windows XP Home Microsoft Windows XP Pro
	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 98/98SE Microsoft Windows 2000 Microsoft Windows Millennium Microsoft Windows XP Home Microsoft Windows XP Pro
	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
	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

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	

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