Overview

What's New

- Intel® Pentium® 4 processors – up to 2.2 GHz
- 400-MHz bus
- 4X AGP Graphics
- MultiPort wireless communication options
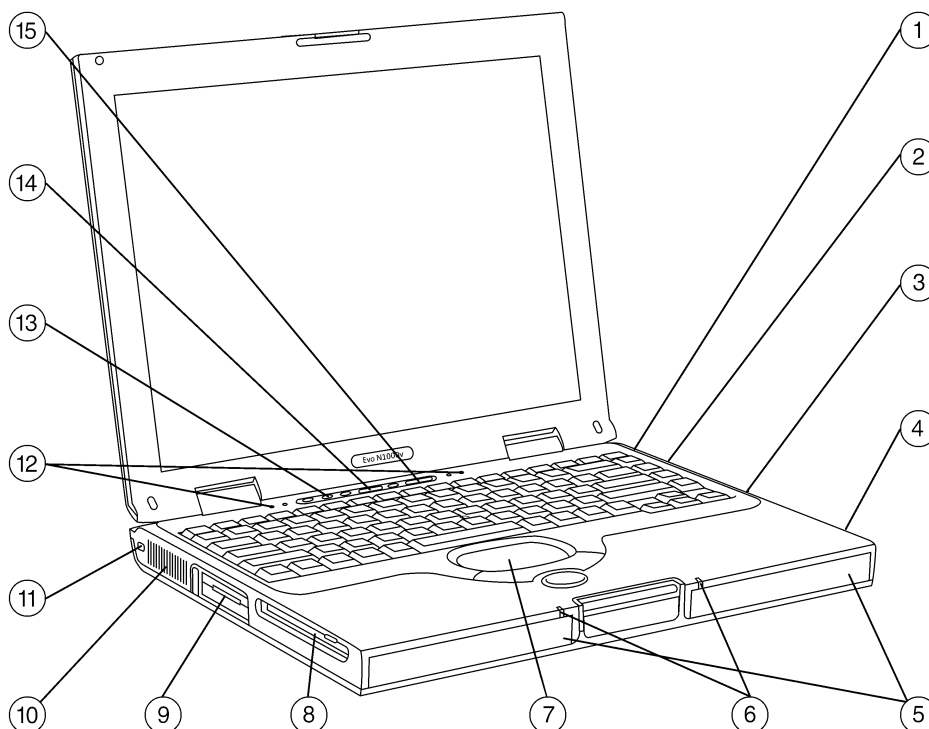- Touchpad Pointing Device

At A Glance

- Intel Pentium 4 processors – up to 2.2 GHz
- 15-inch XGA or SXGA+ and 14.1-inch XGA displays
- Configurations as light as 6.6 lb/3.0 kg weight (14-inch panel)
- 1.55 in/3.95 cm thin
- 256-MB DDR SDRAM (266 MHz), upgradable to 1024 MB
- Up to 40-GB SMART hard drives
- Mini PCI modem and integrated NIC
- Full-size keyboard
- Microsoft® Windows® XP Pro and Microsoft Windows 2000
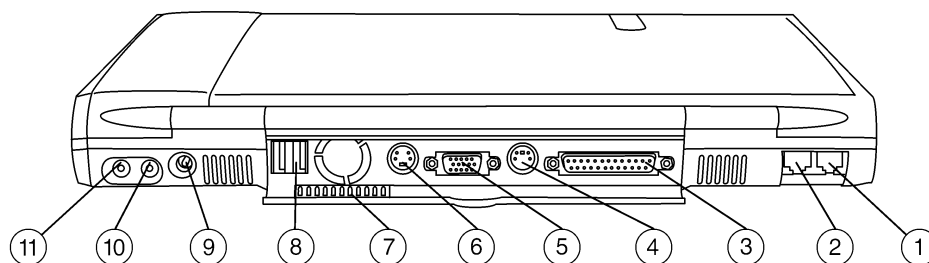- Includes a One-year, Worldwide Warranty.

NOTE: Certain restrictions and exclusions may apply. For details, consult the Product Information Centre at 1-888-882-6672.

What's Special

- Intel Pentium 4 processors
- All-in-one convenient design
- Latest USB interface
- Wireless features thru award-winning MultiPort
- Common Docking Options

1. 1394
2. Infrared
3. Optical Drive
4. Battery
5. Stereo Speakers
6. System LEDs
7. Touchpad pointing device
8. Diskette Drive

9. PC Card Slot (1)
10. Air Vent
11. Kensington Lock
12. Keyboard LEDs
13. Easy Access Buttons
14. Power Button
15. Volume Control

1. RJ-11
2. RJ-45
3. Parallel
4. PS/2
5. VGA
6. S-video

7. Air Vent
8. USB
9. DC in
10 Audio in
11. Headphone

COMPAQ

Standard Features

Processor and Panel	14.1-inch colour TFT XGA with 1024 x 768 resolution (up to 16.7M colours internal)
One of the following:	2.0GHz Intel Pentium 4 processor with 512-KB L2 cache

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 integrated on 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

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 N1000v comes with 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 controls 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

Fixed Diskette Drive	1.44-MB Diskette Drive
Primary Hard Drive	40 GB or 30 GB or 20 GB
Fixed Optical Drive *(one of the following:)*	DVD/CD-RW Combo Drive DVD-ROM Drive CD-ROM Drive

Multimedia

JBL Pro Speakers with bass reflex and 16bit stereo sound
Integrated microphone
Dedicated Hardware volume controls
Headphone-out port
Microphone in port
Software MPEG1 support, MPEG2 and DVD
8X DVD/CD-RW Combination Drive (select models)
8X DVD-ROM Drive with movie playback software (select models)
24X CD-ROM Drive (select models)
S-video Port
IEEE 1394 Port
4X AGP graphics
32-MB of DDR (Double Date Rate) SDRAM graphics memory

Standard Features

Interfaces	PC Card	One Type II
	Enhanced Parallel EPP/ECP	1
	PS/2	1
	S-Video	1
	VGA	1
	1394	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-MB DDR VRAM for increased colour depth and graphics performance

Display (External)	Up to 32-bit per pixel colour 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 colour depth settings

Display (Internal)	14.1-inch colour TFT XGA with 1024 x 768 resolution (up to 16.7M colours internal)

Operating System	Microsoft Windows XP Pro or Microsoft Windows 2000 preinstalled

Software	Diagnostics for Microsoft Windows DVD Playback Software Compaq Security Management Safety and Comfort Guide Adobe® Acrobat® Reader Reference Guide Norton Internet Security Compaq Easy Access Button Software

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)

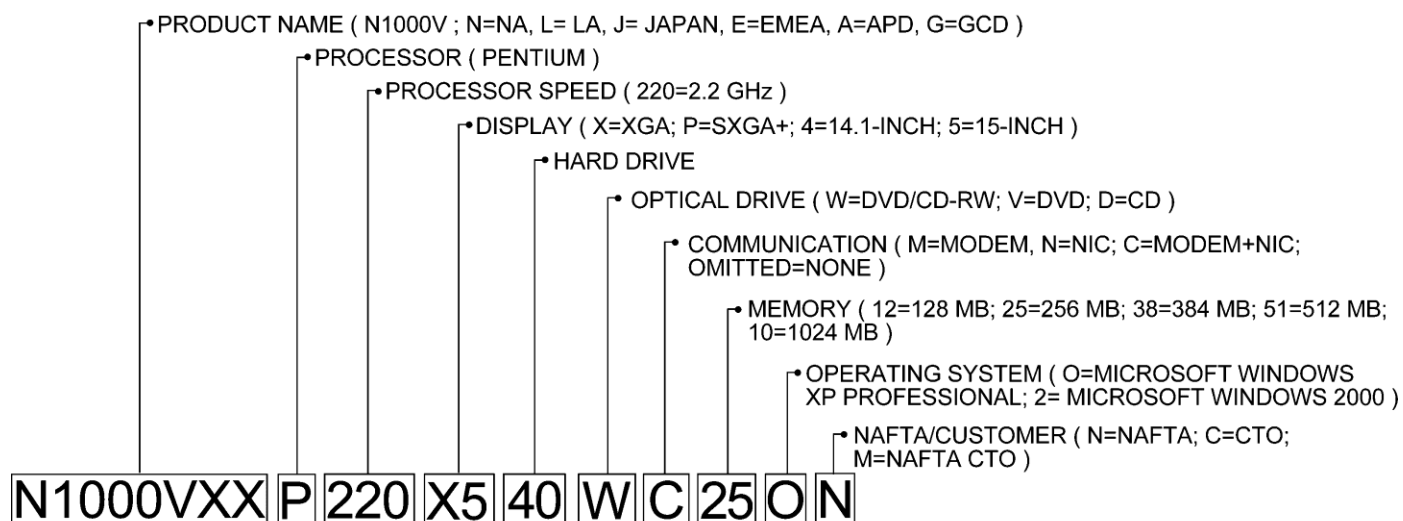| Security	Configuration Control Hardware Memory Change Alert Ownership Tag Set-up Password Power-On Password DriveLock Enabled for PC SmartCard options Kensington (cable) lock provision

Standard Features

Power Supply	External 90-watt AC adapter, power cord included.
Battery	Standard 8-cell Lithium-Ion battery. The Evo Notebook N1000v provides over 2 hours of battery life using the standard 8-cell Lithium-Ion battery.. **NOTE**: Actual results may vary with product model, configuration, and individual usage. Compaq results of 2:20 (hr:min) were achieved running the Business Winstone 2001 Battery Mark™ 1.0 on a N1000v with an Intel Pentium 4 2.0 GHz CPU, 15-inch XGA panel, 256-MB RAM, 30-GB HDD, 8X DVD, 8-cell Lithium-Ion battery, and NIC/modem. System parametres were set according to eTesting Labs' recommendations: panel brightness 50%, hard drive timer three minutes. **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	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 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, and the advanced port replicator offers modular expansion via MultiBay. 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; warranty term upgrades and toll-free 7 x 24 hardware technical phone support available. **NOTE**: Certain restrictions and exclusions may apply. For details, consult the Product Information Centre at 1-888-882-6672

Standard Features

Naming Convention   The Etymology of a Model name:

PRODUCT NAME (N1000V ; N=NA, L= LA, J= JAPAN, E=EMEA, A=APD, G=GCD)

PROCESSOR (PENTIUM)

PROCESSOR SPEED (220=2.2 GHz)

DISPLAY (X=XGA; P=SXGA+; 4=14.1-INCH; 5=15-INCH)

HARD DRIVE

OPTICAL DRIVE (W=DVD/CD-RW; V=DVD; D=CD)

COMMUNICATION (M=MODEM, N=NIC; C=MODEM+NIC; OMITTED=NONE)

MEMORY (12=128 MB; 25=256 MB; 38=384 MB; 51=512 MB; 10=1024 MB)

OPERATING SYSTEM (O=MICROSOFT WINDOWS XP PROFESSIONAL; 2= MICROSOFT WINDOWS 2000)

NAFTA/CUSTOMER (N=NAFTA; C=CTO; M=NAFTA CTO)

N1000VXX P 220 X5 40 W C 25 O N

Standard Features

MODELS

N1000VP200X420VC25O	**Display**	14.1-inch colour TFT XGA	
PN: 470036-628 (English)	**Processor**	2.0 GHz Intel Pentium 4 processor	
PN: 470036-629 (French)	**Cache Memory**	512KB, L2 Cache	
	Memory	Standard	256 MB (266 MHz) DDR SDRAM
		Maximum	1024 MB (266 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 7500, 64-bit video graphics	
	Video Memory	32-MB DDR SDRAM	
	Audio	JBL Pro Speakers with bass reflex and 16bit stereo sound	
	Operating System	Microsoft Windows XP Professional	
	Warranty	One Year	

QuickSpecs

Compaq *Evo* Notebook N1000v

Standard Features

		CPU	2.0 GHz Pentium 4
		LCD	14.1-inch XGA
		Memory	256 MB
		HDD	20 GB
		Discrete Video Memory	32 MB
		Optical	8X DVD
		Diskette Drive	1.44-MB floppy
		Comm	Modem/NIC
		Input	Touchpad
		Battery	8-cell 4.0Ah
U.S.			
	N1000vP200X420VC25O	Windows XP Professional	**470036-628**
Fr Canada			
	N1000vP200X420VC25O	Windows XP Professional	**470036-629**

QuickSpecs

Compaq *Evo* Notebook N1000v

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 Colour 18-inch (carbon/silver)	234362-001
	TFT7020 Flat Panel Colour 17-inch with integrated speakers (carbon/silver)	253217-001
	TFT5017 Flat Panel Colour 15-inch (carbon/silver)	263874-003
	TFT5017m Flat Panel Colour 15-inch multimedia flat panel (carbon/silver)	279414-001
	TFT5030 Flat Panel Colour 15-inch (carbon/silver)	228134-001
	S9500 19-inch CRT (carbon/silver)	261615-003
	V7550 17-inch CRT (carbon/silver)	261611-003
	S7500 17-inch CRT (carbon/silver)	261606-001
	S5500 15-inch CRT (carbon/silver)	261602-001

Other Storage Devices	IBM® 1-GB Microdrive™ (PC card Device)	217390-B25
	USB Disk-on-Key – 8MB	249552-B25
	USB Diskette Drive	230330-B25

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

Expansion Bases	Port Replicator	269095-001
	Advanced Port Replicator	269094-001
	External MultiBay	217388-001
	Monitor Stand	274407-B25

Power	Evo Notebook N1000v 8 Cell primary battery (4.0Ah)	291369-B25

Power Solutions	External Battery Charger	265603-001
	External Battery Charger (Multiple Battery)	265604-001
	AC Adapter 90W	283884-001
	Aircraft Power Cable 90W	291370-B25
	AC Line Cord (10 ft. / 3.1 m)	217932-002

QuickSpecs

Options

Input Devices		
	External Enhanced III Keyboard (carbon)	118003-008
	USB EZ Access Keyboard (carbon/silver)	267146-008
	Compaq 2 Button Mouse (carbon)	103180-B21
	USB 2 Button Scroll Mouse (carbon)	195255-B25
	External 10-Key Numeric Keypad (carbon)	294317-B21
	Wireless Keyboard and Mouse	251385-008

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	261966-001
	Compaq iPAQ Microportable Projector MP3800	262839-001
	Compaq iPAQ Microportable Projector MP4800	257524-001
	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 N1000v

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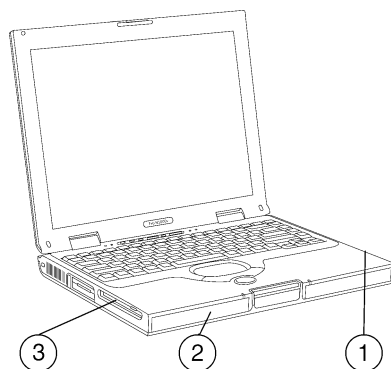
Memory	Slot 1	Slot 2
256 MB	256 MB	--
384 MB	256 MB	128 MB
512 MB	512 MB	--
768 MB	512 MB	256 MB
1024 MB	512 MB	512 MB

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

D RIVE S UPPORT

System Drive Support	Quantity Supported	Drive 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

QuickSpecs

Technical Specifications

System Unit	Dimensions (H x W x D)	15-inch and 14.1-inch TFT panel displays	1.55 x 12.89 x 10.53in/3.95 x 32.75 x 26.75 cm	
	Weight	With P4 processor	14 inch : LCD, DVD or CD-ROM, 1 SODIMM	3100g/6.82lb
			15 inch LCD, DVD or CD-ROM, 1 SODIMM	3220g/7.09lb
	NOTE: * = Weight varies by configuration.			
	Stand-Alone Power Requirements	Nominal Operating Voltage (Li-Ion)	14.4 V (8-cell)	
		Average Operating Power	29.7 W Desktop	
		Peak Operating Power	80 W on AC 55 W on DC	
		Power in suspend mode	< 1000 mW	
		Power in hibernation mode	< 100 mW	
	Power Supply	Rated Input Voltage	100 to 240 VAC	
		Rated Input Current	< 1.5 A	
		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 Colour TFT XGA Display	Dimensions (H x W)	11.22 x 8.46 in/28.5 x 21.5 cm	
	Diagonal Size	14.1 in/35.81 cm	
	Mounting	Internal Panel Supports, Side Mounted	
	Number of Colours	Up to 16.8M	
	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	4.2W	

15-Inch Colour 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 Colours	Up to 16.8M	
	Contrast Ratio	150:1	
	Brightness	150nt typ	
	Pixel Resolution	Pitch	0.218264 x 0.218264 mm
		Format	1400 x 1050
		Configuration	RGB stripe
	Backlight	Edge Lit	
	Character Display	80 x 25	
	Total Power Consumption	5.75W	

15-Inch Colour TFT XGA 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 Colours	Up to 16.8M	
	Contrast Ratio	150:1	
	Brightness	150nt typ	
	Pixel Resolution	Pitch	0.297 x 0.297 mm
		Format	1024 x 768
		Configuration	RGB stripe
	Backlight	Edge Lit	
	Character Display	80 x 25	
	Total Power Consumption	5.0W	

QuickSpecs

Technical Specifications

Hard Drives

40-GB

Drive Weight	0.21 lb/95 g	
Capacity	40 GB	
Height	0.374 in / 9.5 mm	
Width	2.75in / 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	

30-GB

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	12 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

Hard Drives *(continued)*

20-GB

Drive Weight	0.21 lb/95 g	
Capacity	20 GB	
Height	0.374 in / 9.5 mm	
Width	2.75 in / 70 mm	
Interface	ATA-5	
Transfer Rate	Synchronous (maximum)	100 MB/s (Drive Capability)
	Security	ATA Security
Seek Time (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	

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	0.85 lb/0.385 kg	
Power Supply (Input)	Operating Watts	90
	Operating Voltage	110 to 240 VAC RMS
	Operating Current	1.5 A RMS
	Operating Frequency Range	50 to 60 Hz AC

QuickSpecs

Technical Specifications

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

DVD/CD-RW Drive	Centre Hole Diametre	15 mm	
	Disk Diametre	12 cm, 8 cm	
	Disk Thickness	1.2 mm	
	Track Pitch	1.6 µm	
	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-R (8X)	1200 KB/s (150 KB/s at 1X CD rate)
		CD-RW (8X)	1200 KB/s (150 KB/s at 1X CD rate)
		CD-ROM (24X)	3600 KB/s (150 KB/s at 1X CD rate)
		DVD (8X)	10,800 KB/s (1352 KB/s at 1X DVD rate)
		Normal PIO Mode 4 (single burst)	16.6 MB/s
	Start-up Time	Single	< 7 seconds (typical)
		Multi-Session	< 30 seconds (typical)
	Stop Time	< 3 seconds (typical)	

QuickSpecs

Technical Specifications

DVD-ROM Drive	Centre Hole Diametre	0.59 in/1.5 cm	
	Disc Diametre	12 cm/8 cm	
	Disc Thickness	1.2 mm	
	Track Pitch	0.74 µm	
	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)
	Start-up Time	< 12 seconds Typical	
	Stop Time	< 3 seconds Typical	
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	
	Centre Hole Diametre	0.59 in/15 mm	
	Disk Diametre	12 cm, 8 cm	
	Disk Thickness	0.047 in/1.2 mm	
	Track Pitch	1.6 µm	
	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 KB/s Maximum
	Start-up Time	< 10 seconds	
	Stop Time	< 5 seconds	

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	
	Number of Selectable Sub-channels	**Worldwide Certification** United States (FCC) 11	
	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 2000	
		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	

QuickSpecs

Technical Specifications

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	

Technical Specifications

Bluetooth MultiPort Module *(continued)*	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 2000
		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 100 Mbps
		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

Compaq PCs use genuine Microsoft® Windows®
http://www.microsoft.com/piracy/howtotell