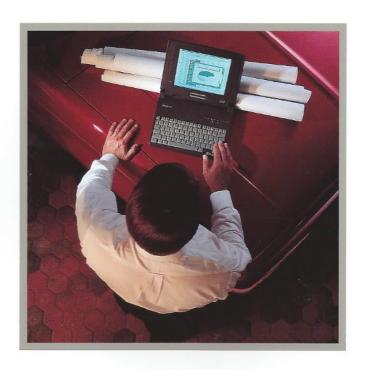
THE COMPAQ Contura FAMILY OF PERSONAL COMPUTERS

Features/Specifications



f you thought the power and convenience of a quality notebook PC was a luxury you couldn't afford, think again. The COMPAQ Contura Family of Personal Computers puts solid performance and an array of well-thoughtout features within reach.

COMPAQ Contura products set new standards in quality and convenience for affordable notebook computing. Designed and manufactured by Compaq from the ground up, these new notebook PCs continue our tradition of bringing you reliable, high-performance products backed by a firm commitment to service and support. That's why Compaq provides a full one-year on-site Parts and Labor Warranty and a toll-free hotline staffed by specialists trained to answer your questions.

The 6.2-pound (2.8-kg) COMPAQ Contura PCs give you more of the features you told us you need without extra weight and awkward compromises in design. For example, we incorporate a large, highcontrast VGA display for exceptional readability and Hot Keys that give you quick access to notebook functions. COMPAO Contura PCs provide a smooth transition from the desktop with a 101-/102-key compatible keyboard that places cursor keys in an isolated, inverted-T layout, so you won't accidently hit the wrong key. Other standard features include more memory and hard drive capacity, long-life batteries, and extensive power conservation features.

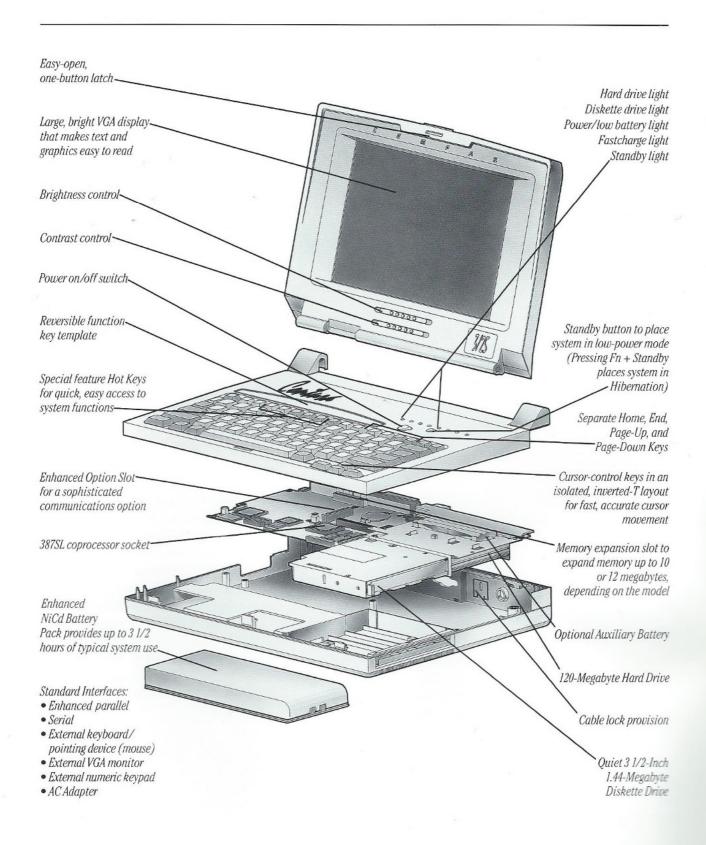
A smart design with a smart new look. Softly rounded contours and color

contrasts reflect our attention to detail—and your sense of style. Plus, the curved design makes the case easy to carry and gives it greater strength. COMPAQ Contura PCs are built sturdy to withstand the rigors of life on the road.

Now, you can have it all—COMPAQ quality with the performance you need and the features you want—and all at an exceptional value. With the introduction of the COMPAQ Contura Family, Compaq defines excellence in affordable notebook PCs.



COMPAQ QUALITY INSIDE AND OUT



MORE OF WHAT YOU WANT IN A NOTEBOOK PC

COMPAQ Contura PCs may tip the scales at a mere 6.2 pounds (2.8 kg), but they're no lightweights when it comes to features and functionality. In fact, the COMPAQ Contura Family offers more features than any other product in its class. Some of the highlights include:

A stylish, rugged design. Form and function meet in the slim, ergonomic design of COMPAQ Contura products. Compaq-engineered to meet stringent standards of quality, reliability, and compatibility, these sturdy PCs are made from materials tested to extremes of heat, cold, and humidity. Extensive shock and vibration testing ensures that your COMPAQ Contura PC is built tough to withstand life on the road.

A large, bright display. Larger and brighter than competitive displays, the viewable area of the COMPAQ VGA screen measures 9.5 inches (24 cm.) diagonally to reduce eye-strain and fatigue.

A high-performance processor. COMPAQ Contura PCs take advantage of the 386SL microprocessor from Intel, which delivers 386 technology in a form optimized for battery-powered products. Based on the 386SX microprocessor, the 386SL chipset features a high level of integration to take up less overall space than a 386SX design. In addition, the 386SL incorporates special features to conserve power—a critical concern for those who depend on their notebook PCs while traveling.

We further enhance performance in 25-MHz models by adding 64 Kbytes of four-way set-associative cache memory.

For numeric-intensive applications, COMPAQ Contura PCs incorporate a socket for a 387SL math coprocessor, which, like the microprocessor, is energy efficient. Long-life batteries. Standard Enhanced Nickel Cadmium (NiCd)
Battery Packs last more than 3 1/2 hours on a single charge and recharge in only 1 1/2 hours while you use your PC. For more than 4 1/2 hours of running time, you can purchase optional Nickel Metal Hydride (NiMH) Battery Packs. Both types of batteries recharge in approximately 1 hour when the system is turned off and connected to the AC Adapter or Automobile Adapter. With the optional Battery Fastcharger/Discharger, you can quickly charge, or even discharge, your battery packs.

COMPAQ power conservation.

Power conservation begins with a design built on highly efficient components such as the 386SL chipset. In addition, you're in control of a variety of other battery-saving features, including Hibernation—a unique COMPAQ feature that saves your work to the hard drive, shuts off the PC completely, then remembers where you left off indefinitely.

Desktop keyboard familiarity. The 101-/102-key compatible keyboard arranges cursor keys in an isolated inverted-T layout so you won't inadvertently press the wrong key. Other features include 12 programmable function keys, special feature Hot Keys, and dedicated screen-control keys.

Extensive memory and hard drive capacity. The COMPAQ Contura 3/25 comes standard with 4 megabytes of enhanced-page memory, expandable to 12 megabytes. The COMPAQ Contura 3/20 comes standard with 2 megabytes, expandable to 10 megabytes. For memory-intensive applications, you can expand memory in either PC by adding an 8-, 4-, or 2-Megabyte Memory Expansion Board. In addition, the COMPAQ

Contura Family accommodates up to a 120-Megabyte Hard Drive for large storage requirements.

The Enhanced Option Slot.

Use this special slot to customize your communications and interface configurations. You can install an enhanced modem, a second serial port, or other third-party communications device in this slot.

Standard interfaces. You'll find all the standard interfaces, including an enhanced parallel interface that operates up to four times faster than the typical parallel port.

MultiLock security features.

This wide range of hardware and software features allows you to physically lock the unit as well as protect stored data.

On-line documentation.

The EZ Help OnLine Library puts quick and easy access to helpful information on hardware features, COMPAQ User Program utilities, and DOS commands at your fingertips. A graphical user interface, comprehensive search capability, and hypertext links within and between documents make the EZ Help Online Library a powerful reference tool.

Preinstalled software. With factory-installed software on the hard drive, we save you time and money, plus your PC is up and running right out of the box. All COMPAQ Contura models come standard with Microsoft MS-DOS Version 5.0 as published by Compaq, the EZ Help Online Library, and utilities and software drivers to ease set up and improve performance.

Support and service. Compaq backs its PCs with an extensive network of service and support. Every COMPAQ Contura PC comes standard with a one-year worldwide warranty, so we've got you covered wherever you go.

COMPAQ-ENGINEERED

With an easy-to-use COMPAQ Contura PC, you're in the driver's seat. We preinstall software so your PC is up and running right out of the box. A large screen and familiar keyboard layout make transition from your desktop PC a snap. Adjust the display, set the level of power conservation that's right for you. To boost your productivity and convenience, we put special notebook functions at your fingertips.

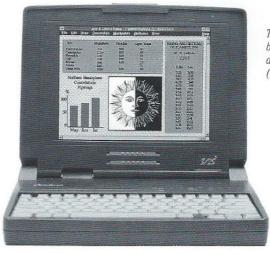
A Large, Easy-to-Read Display

Several key details combine to give COMPAQ Contura PCs an exceptionally readable display. Improvements in liquid crystal technology combined with a 12:1 contrast ratio produces a clear, sharp display that reduces eye fatigue. A fast screen response time (130 milliseconds compared with 200 milliseconds on other passive matrix products) improves cursor tracking when you use a mouse or trackball.

COMPAQ Contura PCs allow you to adjust several features to suit your viewing preference. For example, you can:

Adjust the angle of the display.





The viewable area of the bright, high-contrast VGA display measures 9.5 inches (24 cm) diagonally.

- Adjust the contrast and intensity of the backlight to provide the best readability (lower intensities conserve power).
- Adjust the gray shades on the screen using the Advanced Display Attribute Programming Tool (ADAPT). COMPAQ Contura Family displays support 16 shades of gray in 640 x 480 resolution and 64 gray shades in 320 x 200 resolution.

A Familiar Keyboard Layout

You'll feel right at home with this familiar keyboard layout. Cursor keys are exactly where you want them--in an *isolated*, inverted-T layout with separate keys for Home, End, Page-Up, and Page-Down functions. Standard spacing and 101-/102-key compatibility provide a desktop feel as well as compatibility with existing hardware and software.

Five Hot Keys, identified by icons on the top of function keys F3 through F7, put special notebook functions at your fingertips. Simply press the Fn key and the appropriate function key to use these helpful tools.

Power Conservation at Your Control

Rest assured your COMPAQ Contura PC will be ready to work when you are. The intelligent design incorporates a whole host of power conservation features—many of which you can easily control. For example, with just a few keystrokes, you can configure your system for maximum battery life. Some of the key conservation features follow.

The Power Conservation Utility (PWRCON). A powerful, menu-driven utility puts you in control of power conservation for your system. With PWRCON you can:

- Select the level of power conservation that best suits your application and operating environment.
- Create your own customized powermanagement level by setting the processor speed, peripheral response time, and timeout values for System Idle and Standby. Once set, you can quickly access this custom level with a Hot Key.
- · Enable Hibernation.
- Specify the size and location of the battery gauge and power-conservation popups.

FOR YOUR CONVENIENCE





Toggle between reverse and normal video to see black text on a white screen, or vice-versa.



Choose to view either the internal display or an external monitor.





Use QuickLock to disable the keyboard without leaving an application, then enable it with a password. You can also blank the screen at the same time you invoke QuickLock using QuickBlank.





Display the power conservation popup window, then use the arrow keys to choose from four levels of power conservation. Three of the levels are preset; you can customize the fourth.







Drain





Display a battery gauge that estimates remaining battery life.



Battery Power

Hibernation

This unique COMPAQ feature protects both your data and your PC's battery life by saving information to the hard drive and shutting the system off indefinitely. Turn the system on and you're back in exactly the same configuration in which you left. Use Hibernation to save your



battery when power runs low, or as a placemark to save your work in an application. Once

enabled, you can access Hibernation anytime by pressing the Fn key and the standby button. For the utmost data protection, the system invokes the feature automatically when power is critically low or after a set time in Standby.

System Idle

If you stop to take a telephone call or get a cup of coffee, your COMPAQ Contura PC is smart enough to conserve battery life. After a preset time with no activity, the PC enters System Idle mode, slowing the clock speed and powering down the hard drive. Press any key to reactivate the system.

Standby

After a preset time in System Idle or whenever you press the standby button, the system blanks the screen and places other subsystems in low-power mode. COMPAQ Contura PCs can remain in this state for up to 24 hours. Push the standby button again to resume work



MultiLock Security Features

COMPAQ Contura products provide a comprehensive range of features to secure your valuable data. For example, you can use power-on password to restrict access to the system when it's first turned on. A Hot Key allows you to disable the keyboard and mouse using QuickLock (blanking the screen, if you like, with QuickBlank) without leaving your application.

To protect your PC from theft, we incorporated a cable lock provision so that you can physically secure your PC using the Kensington MicroSaver Security System, a cable lock available from resellers worldwide.

OPTIONS FOR CUSTOMIZED CONVENIENCE



Battery Fastcharger/Discharger

This easy-to-use device works with the AC Adapter to fully charge and discharge your battery packs. (Periodic discharging can prolong the life of your battery.) For maximum convenience you can charge up to two batteries sequentially or charge one battery while the other discharges. Charging takes about I hour each; discharging of a fully charged battery, 4 to 5 hours. The Battery Fastcharger/Discharger accepts either NiMH or Enhanced NiCd batteries—or one of each at the same time.

You can also purchase additional batteries for quick replacement when the main battery runs low. NiMH batteries cost a bit more, but operate up to 30 percent longer than NiCd batteries.

Auxiliary Battery

With this option in place, you can switch battery packs without leaving your application. The auxiliary battery can power the system for up to 3 minutes in Standby.



Automobile Adapter

Your vehicle becomes a traveling office with the Automobile Adapter from Compaq. This option allows you to connect your PC to the cigarette lighter, simultaneously powering the system and fast charging your battery pack. Use the Automobile Adapter with the Battery Fastcharger/Discharger to charge up to two battery packs sequentially.



AC Adapter

Save your battery for when you really need it. When an AC outlet is available, use the AC Adapter and recharge your Enhanced NiCd Battery while you work. You can also use the AC Adapter to recharge your PC in about an hour when the system is not in use. For maximum convenience, buy an additional AC Adapter, so you can keep one at home and one at the office.



External Numeric Keypad

Full-sized keys and separate areas for numeric input and cursor movement allow you to enter numbers quickly while preserving full keyboard functionality.



Briefcase

Compaq offers a trim, stylish solution for when you have too many things to carry. The sturdy COMPAQ briefcase includes adjustable compartments for your PC, a portable printer, the AC Adapter and other options, as well as space for briefcase items.



Serial Interface Board

Your COMPAQ Contura PC comes standard with a serial interface. However, if your applications call for two serial devices, the Serial Interface Board slides into the Enhanced Option Slot to provide an additional internal nine-pin serial interface.

Enhanced Option Slot Adapter

This small, easy-to-use adapter allows you to use a wide variety of new and existing communications options from Compaq and third-party manufacturers in the Enhanced Option Slot.



Worldwide Modems

Worldwide travelers take note: Compaq is the only manufacturer to extend notebook communications options across the globe by offering a version of the Enhanced 2400-Baud Modem in 19 countries. COMPAQ modems incorporate several distinctive features, including Hayes compatibility, V.42 error correction, MNP5 data compression, and specific features to conserve power. In addition, Compaq offers a unique set of international telephone line adapters so that travelers can use their modem in many different countries.

TECHNICAL SPECIFICATIONS

Diskette Drive, continued

Track-to-Track (ms) (high/low) 3/3
Average (ms) (high/low) 94/94

ACCESS TIMES

System Unit		
Weight	6.2 lb (2.8 kg)	
Dimensions (H,D,W)	8.9 x 11.7 x 19 in (22.6 x 29.7 x 4.8 cm	
Nominal Operating Voltage	12 VAC	
POWER (WATTS)		
Average	10	
Maximum	21	
Peak	21	
TEMPERATURE RANGE		
Operating	50° to 104° F (10° to 40°C)	
Nonoperating	-4° to 140° F (-20° to 60° C)	
RELATIVE HUMIDITY (NO	NCONDENSING)	
Operating	10% to 90%	
Nonoperating	5% to 95%	
MAXIMUM UNPRESSURIZE	ED ALTITUDE	
Operating	10,000 ft (3,048 m)	
Nonoperating	30,000 ft (9,144 m)	
Display		
Image Area Dimensions (H,W)	5.67 x 7.65 in (14.30 x 19.20 cm)	
Diagonal Size	9.5 in (24 cm)	
Display Type	Edgelit	
Dot Size	0.27 x 0.26 mm	
Video Modes	VGA, EGA, CGA	
Maximum Resolution	640 x 480	
Gray Scales	16 in 640 x 480 64 in 320 x 200	
Cl D! I	80/40 x 25	
Character Display	00 TO A 20	

Horizontal Frequency 30 KHz Vertical Frequency 125 Hz

Capacity per Diskette
(high/low)

Number Supported
Rotation (rpm)

Transfer Rate (Kbits/sec)
(high/low)

Bytes Per Sector
Sectors Per Track

(high/low) 18/9

3 1/2-Inch 1.44-MB Diskette Drive (standard)

Settling Time (ms)	15.6	
Latency Average (ms)	100	
Cylinders (high/low)	80/80	
Read/Write Heads	Two	
Hard Drives		
	120-MB	84-ME
Capacity Per Drive (MB)	121.8	84.3
Drive Types	50	27
Transfer Rate at Head		
(Mbits/sec)	18	12
Sector Interleave	1:1	1:1
TYPICAL SEEK TIMES (INCI		
Track-to-Track (ms)	5	5
Average (ms)	19	19
Drive Rotation (RPM)	3,776	3,486
PHYSICAL CONFIGURATION	N	
Cylinders	1,122	1,097
Heads	4	4
Sectors Per Track	54	39
Bytes Per Sector	512	512
LOGICAL CONFIGURATION		
Cylinders	760	832
Heads	8	6
Sectors Per Track	39	38
Bytes Per Sector	512	512
	60-MB	40-MB
Capacity per Drive (MB)	63.8	42.6
Drive Types	60	53
Transfer Rate at Head		
(Mbits/sec)	12	12
Sector Interleave	1:1	1:1
TYPICAL SEEK TIMES (INCL	UDING SE	
Track-to-Track (ms)	5	5
Average (ms)	19	19
Drive Rotation (RPM)	3,486	3,486

Hard Drives, continued	1		
	60-MB	40-MB	
PHYSICAL CONFIGURATION	N		
Cylinders	823	1,097	
Heads	4	2	
Sectors Per Track	39	39	
Bytes Per Sector	512	512	
LOGICAL CONFIGURATION			
Cylinders	760	832	
Heads	8	6	
Sectors Per Track	38	38	
Bytes Per Sector	512	512	
Power Supplies			
Enhanced NiCd Batter (standard)	ry Pack		
Dimensions	.85 x 6.87 x 2.97 in		
(H x D x W)	(2.2 x 17.45 x 7.54 cm)		
Weight	1.1 lb (.5 kg)		
Nominal Voltage	12.0 VDC		
Capacity	1.7 Ah		
Power	20.4 Watts		
TEMPERATURE RANGE	Boil Hatto		
Operating	50° to 104°F		
1 0	(10° to 40°C)		
Nonoperating	4° to 140°F (-20° to 60°C)		
AC Adapter			
Dimensions (H x D x W)	1.4 x 5.3 x 3.3 in (3.6 x 13.5 x 8.4 cm)		
Weight	0.8 lb (0.3 kg)		
POWER SUPPLY	*** ***		
Operating Voltage	100-120/220		
Operating Current	0.8/0.4 amps		
Frequency	50-60 Hz		
Maximum Output Voltage	18.0 volts		
Maximum Output Current	3.0 amps		
Maximum Output Power	30 Watts		
TEMPERATURE RANGE			
Operating	50° to 104° F (10° to 40°C)		
Nonoperating	4° to 86°F (-20° to 30°C)		

Communications

9600-bps Internal Modem

Dimensions (H x D x W) $0.8 \times 3.5 \times 2.5$ in. 1.9 x 8.9 x 6.4 cm.

> **Transmission Rates** 9600, 4800, 2400, 1200, 300 bps

V.32, V.23, V.22bis, **Modulation Protocols**

V.22, V.21, Bell 212/103

Command Set Support Hayes AT and

V.25bis

Error Control MNP 2-4, V.42

Data Compression MNP5, V.42bis **Mainframe Connectivity**

Hayes AutoSync **Power Consumption** Low-power and

Standby mode

16c550UART Interface Buffer

Internal Data + Fax Modem

Dimensions (H x D x W) 0.8 x 3.5 x 2.5 in.

1.9 x 8.9 x 6.4 cm.

Data Transmission Rates 2400, 1200, 300 bps

V.22bis, V.22, V.21,

Data Modulation Protocols

Bell 212/103

Fax Transmission Rates

9600, 7200 bps send; 4800, 2400,

300 bps send/ receive

V.29 send: V.27ter, **Data Modulation Protocols**

V.21 send/receive

Command Set Support

Hayes AT and Class 1 extensions

Bundled Software

Class 1 facsimile

Error Control and Data Compression

MNP 2-4, V.42; MNP5, V.42bis from

separate software

Power Consumption

(not included)

Low-power and

Standby mode

Enhanced 2400-Baud Internal Modem

Dimensions (H x D x W) 0.8 x 3.5 x 2.5 in.

1.9 x 8.9 x 6.4 cm.

Transmission Rates

2400, 1200, 300 bps

Modulation Protocols

V.22bis, V.22, V.21,

Bell 212/103

Command Set Support

Hayes AT

Error Control

MNP 2-4, V.42 MNP5, V.42bis

Data Compression Mainframe Connectivity

Hayes AutoSync

Power Consumption

Low-power and

Interface Buffer 16c550UART

Standby mode

Communications Options

At Compaq, a dedicated in-house engineering team meets the challenge of connecting small, lightweight PCs to the outside world with sophisticated communications products.

COMPAQ modems provide fully integrated modem functionality, so you have one less item to carry. All use low-power CMOS chips and incorporate a range of features to maximize battery life. For example, after several seconds with no activity, the modem enters "sleep" mode to minimize drain on the battery. An incoming ring or data activity instantly restarts it, even when you're in Standby.

These options include two phone jacks, one each for a data line and telephone, so you can use the modem without disconnecting your telephone.

Internal Data + Fax Modem

The latest communications product from Compaq turns your COMPAQ Contura PC into a portable office. With the cost-effective Internal Data + Fax Modem, you can send data at up to 2400 bps and send and receive faxes at up to 9600 bps from your notebook PC.

This new option supports standard protocols for data and fax transmission to ensure compatibility with the vast installed base of modems, fax machines, and communications software. In addition, the Internal Data + Fax Modem comes bundled with Class 1 fax application software, so you can start using your modem right away.

Enhanced 9600-bps Internal Modem

A transfer rate of 9600 bps means your transmission gets there fast, saving you both time and money. Using MNP and V.42 error control and data compression, the Enhanced 9600-bps Internal Modem can boost that rate to an outstanding 38.4 Kbits/second. Hayes-compatibility ensures smooth communication with the wide variety of software and installed base of dial-up modems. By supporting the Hayes AutoSync feature, this modem can even communicate directly to IBM mainframes through the SDLC protocol.

STANDARD MODELS AND OPTIONS

Standard Models

COMPAQ Contura 3/25

Model 120 25-MHz 386SL microprocessor 64 Kbytes of four-way setassociative cache 120-Megabyte Hard Drive (19-ms average seek time) 4 Megabytes of system memory,

expandable to 12 megabytes

Model 60 25-MHz 386SL microprocessor
64 Kbytes of four-way setassociative cache
60-Megabyte Hard Drive

(19-ms average seek time) 4 Megabytes of system memory, expandable to 12 megabytes

COMPAQ Contura 3/20

Model 84 20-MHz 386SL microprocessor 84-Megabyte Hard Drive (19-ms average seek time) 2 Megabytes of system memory, expandable to 10 megabytes

Model 40 20-MHz 386SL microprocessor 40-Megabyte Hard Drive (19-ms average seek time) 2 Megabytes of system memory, expandable to 10 megabytes

Standard Features

Display Monochrome VGA Display that supports 16 grey shades in 640 x 480 resolution and 64 grey shades in 320 x 200

Battery Enhanced NiCd Battery Pack that operates 3 1/2 hours Battery gauge

Keyboard 101-/102-key compatible keyboard with cursor-control keys in an isolated, inverted-T layout and special feature Hot Keys

Coprocessor Socket for a 387SL coprocessor

MultiLock
Security
Features

Power-on password
Keyboard password
QuickLock/QuickBlank
Cable lock provision

Interfaces Enhanced parallel
Serial External keyboard/pointing
device (mouse)
External VGA monitor
External Numeric Keypad

AC Adapter

Preinstalled MS-DOS 5.0 as published by Compaq
COMPAQ User Programs

and utilities EZ Help Online Library On select models: Microsoft Windows 3.1, Spinnaker PFS, WindowWorks, and trackball

Warranty One-year on-site Parts and Labor Warranty*

Options

Coprocessor/ 387SL Coprocessor Memory 8-Megabyte Memory Expansion Board 4-Megabyte Memory Expansion Board 2 Magabyte Memory

2-Megabyte Memory
Expansion Board

Storage 120-Megabyte Hard Drive

Devices 84-Megabyte Hard Drive

Convenience External Battery Fastcharger/
Device Discharger

AC Adapter Nickel Metal Hydride (NiMH) Battery Pack

Enhanced NiCd Battery Pack Auxiliary Battery External Numeric Keypad Enhanced Keyboard Slipcase Carrying Case

Briefcase

Communications Enhanced 9600-bps Internal Modem

Internal Data + Fax Modem Enhanced 2400-Baud Internal Modem

Serial Interface Board
Enhanced Option Slot Adapter
Video Video Graphics Color Monitor

Reduced Émissions VGA Color Monitor Video Graphics Monochrome Monitor

Support Toll-free hotline 1-800-345-1518

^{*}Service is provided by third-party service agents and may not be available in certain geographic locations. Please contact the COMPAQ Customer Service Center for further information.

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