

COMPUTER USERS CATALOG

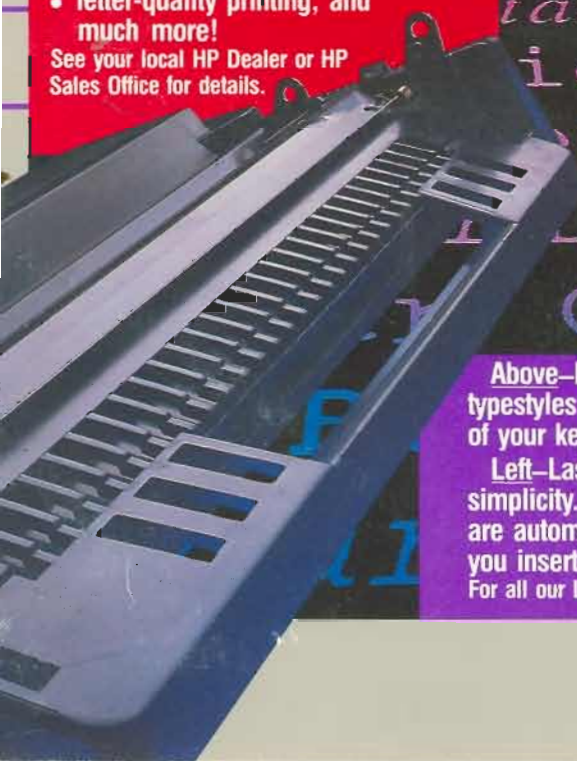
SPRING/SUMMER 1985

LaserJet



- ... Another technology breakthrough from HP. LaserJet gives you:
- whisper-quiet performance
 - faster operation (full page every eight seconds)
 - letter-quality printing, and much more!

See your local HP Dealer or HP Sales Office for details.



Above—LaserJet gives you multiple typescripts and graphics—at the touch of your keyboard.

Left—LaserJet means reliable simplicity. All key imaging components are automatically replaced each time you insert a fresh toner cartridge. For all our LaserJet supplies, see pages 110–112.

Data Communications	2
Cables, Connectors & Power	10
Handheld Calculators & Computers	27
Personal Computers & Software	39
Peripherals & Terminals	74
Furniture & Accessories	80
Printer Supplies	102
Plotters & Supplies	117
Magnetic Media	130
Publications & Learning Aids	144
Indexes	154

*We ship within 24 hours
Just give us a call*

800-538-8787
California 408-738-4133



*Reduced!
price.*

We ship within 24 hours
JUST GIVE US A CALL
800-538-8787
California 408-738-4133

**Call us with your
purchase orders and**



What's new in this catalog?

Look for this symbol on the following pages, marking 195 quality products introduced in this edition of the HP Computer Users Catalog. Each has been carefully manufactured, tested and selected to ensure your satisfaction.

Special savings are yours.

Yes, indeed! Whenever our costs go down, we're able to pass those savings on to you as reduced prices. Look for the symbol, marking price-reduced products.

More savings . . . our prices include shipping!

Our prices include regular UPS or truck shipment to your address (however, "inside delivery," or other extra-cost carrier charges are not included in our prices).

We ship promptly from East and West coasts.

Most items you order will be shipped from our California or New Jersey distribution centers, right off the shelf. However, heavier items such as furniture or paper may be drop shipped from other locations. Depending on your location, your order will typically reach you within two to seven working days.

Emergency requirement?

In an emergency, when you need even faster service, we can ship same day provided we have your credit-approved order by 2 p.m. Pacific Time. Note that this is an extra-charge service, since you will be billed the total cost of a premium air express carrier serving your area.

Ordering is easy—here's how.

Just call our Direct Phone Order Service any weekday between 9 a.m. and 5 p.m. in your (Eastern, Central, Mountain or Pacific) time zone. One of our sales consultants shown on the facing page will be pleased to serve you.

Use your VISA, MasterCard or American Express credit card—or purchase against your HP Direct Order Open Account. We are required to collect all state and local taxes unless we have your tax exempt certificate on file at the Direct Order Center.

To help us serve you efficiently and accurately, please have these four things available when you order:

- Catalog product number for each item ordered.
- Exact quantity of each product number unit needed.

NOTE SOME ITEMS LIKE THERMAL PAPERS, FLEXIBLE DISCS, ETC. ARE PACKAGED IN MULTIPLES PER BOX.

- Your purchase order number, if ordering on an HP Direct Order Open Account.
- Call Code on the back cover. To locate your Call Code refer to your address label. It's the four digits between the slash marks at the top. If you do not have a label, your Call Code is printed in the address space.

Are you on our mailing list?

To automatically receive your copy of HP's next Computer Users Catalog—as well as informational mailings about supplies and accessories—please return card located inside the back cover.

For your quick reference:

800-FOR-HPPC (367-4772)	Handheld/Personal Computer pre-sales information including dealer referrals and literature requests (Series 10–200).
800-HPCOACH (472-6224)	Personal Computer post-sales information and software assistance (Series 80–200).
800-835-HPHP (835-4747)	Personal Computer repair and service agreements (Series 80–200).
503-754-6666	Handheld calculator customer technical support (Series 10–70).
503-757-2000 (ext. 2181)	Handheld calculator repair and service (Series 10–70).
503-757-2000	Series 40, 70, and 80 Users' Libraries.
HP Sales Offices	Other sales and service information. (see page 164.)

Indexes

Alphabetical list of catalog items . . .	154–155
Computer equipment reference (items listed under appropriate computer/system)	156–158
Product number list of catalog items . . .	159–163
Sales offices	164

HP Computer Museum

www.hpmuseum.net

For research and education purposes only.



DIRECT MARKETING DIVISION

April 1985

Dear HP Computer User:

Whenever a computer product has the "Hewlett-Packard" name on it, you naturally expect exceptional standards of reliability and performance.

You deserve no less when it comes to magnetic media, supplies and all the other items you need to keep your HP computer or peripherals operating at peak efficiency.

That's why we are fully committed to serving your needs through this special catalog, and with our easy-to-use Direct-Order-Fast-Ship service. That commitment consists of three things:

PRODUCTS: Matched to your HP equipment—always tested and continually monitored to help protect your investment, and to maximize your satisfaction.

SERVICE: We stock our warehouses so you won't have to stock yours. And we can get items to you fast—overnight, if you're really in a pinch. (Yes, those friendly people shown on page 1 actually are some of our eager-to-help sales consultants you talk to on our Direct Phone Order service!)

SATISFACTION GUARANTEED: Because we're HP, we want you to be absolutely satisfied with our products and services, since they reflect on the HP computer equipment you use everyday. If you're disappointed in any product in this catalog, just send it back.

And while I enjoy receiving the many complimentary letters about our responsive and friendly service, I'd consider it a personal favor if you would let me know should our services ever not measure up to your expectations.

Very truly yours,

A handwritten signature in cursive script, appearing to read "W. E. Carleton".

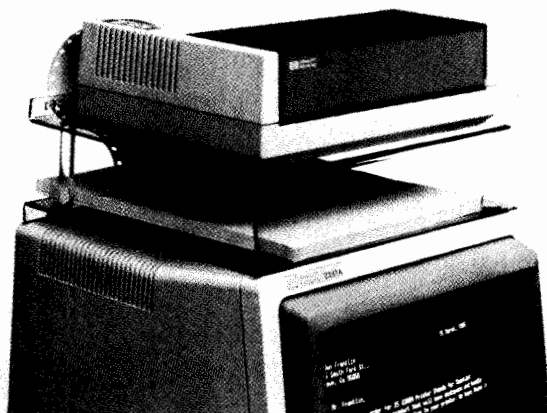
W. E. Carleton
Division Manager

P.S.

Among the many new products inside, please note the new section on Data Communications, starting on page 2. Browse through—this catalog is for you.

... **Newsbreak!** *Products released at press time*

The latest for the ThinkJet Printer



92171X ThinkJet stand (for 2392A terminals). Save desktop space with our new terminal-top stand. It fits so perfectly on top of a 2392A terminal that you'll think your ThinkJet is built-in! Stand holds approximately 450 sheets of ThinkJet Printer fanfold paper; routes cable and power cord out of the paper path; and, allows proper terminal ventilation. Clear/gray acrylic stand complements and enhances your ThinkJet and terminal. Exterior dimensions: 2.5 inches (63.5mm) H x 12.7 inches (322.6mm) W x 10.8 inches (274.3mm) D.

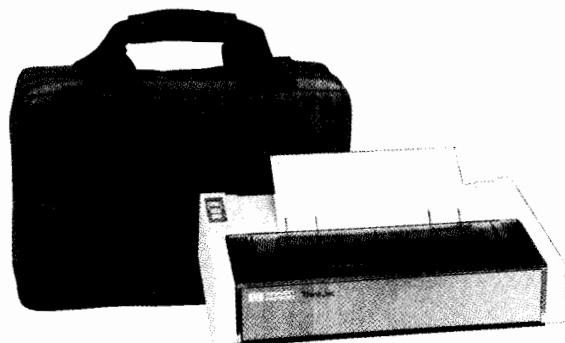
(1-2 stands)	\$59.00 ea.
(3-9)	\$53.00 ea.
(10+)	\$49.00 ea.

35177M Jetstart™. Apple Macintosh users, you too, can take advantage of HP's technological breakthrough. With the HP Jetstart software program, you now can run your Mac with the powerful ThinkJet, HP's fast, quiet and inexpensive printer. This single-sided 3.5-inch disc modifies the standard Macintosh application discs and supports the 2225D ThinkJet Printer.

Price \$45.00 ea.

For more information on the ThinkJet Printer, see pages 78 and 79. For ThinkJet supplies, see page 113.

Jetstart™ is a trademark of SoftStyle, Inc.



13269TT ThinkJet Carrying Case. Safeguard your ThinkJet with our new, thickly padded carrying case. Made of durable, water-resistant gray cordura nylon, this case has a convenient carry handle and removable shoulder strap. Styled exclusively to fit the ThinkJet, this carrying case also features a flat pocket to store approximately 150 sheets of ThinkJet paper.

Price \$49.00 ea.



HP HelpLine Certificates—

Your on-line access to fast action and expert advice

Answers to your questions about using HP personal computers are just a phone call away. HP HelpLine offers you immediate, personalized telephone assistance with your HP personal computer products. Each package contains five HelpLine Call Certificates. Each certificate entitles you to one HelpLine call for an in-depth discussion of a single topic or, to answer one question to your full satisfaction. If the solution requires a second call, you will receive this follow-through at no extra charge. Whether your question pertains to a

software problem or a hardware configuration, these certificates will provide you with a prepaid solution beyond documentation or training. Calls may be placed weekdays during normal work hours.

35159A HP HelpLine Call Certificate.

(1 pkg.)	\$220.00 ea.
(2-3 pkgs.)	\$210.00 ea.
(4 and more pkgs.)	\$200.00 ea.

Newsbreak! Products released at press time

The latest for the LaserJet Printer

92285J Overhead transparency film for the HP LaserJet Printer. Now you can print your presentation overheads quickly on your LaserJet Printer. The special coating on this film prevents toner smearing so the transparency is ready to use the second it's printed. We recommend using this product in the manual feed slot. Each box contains 50 sheets of film.

Price . . . (1) \$32.00/box
 (2-9) 27.20/box
 (10-49) 24.00/box
 (50-99) 21.75/box

92286J LaserJet character font cartridge. Math Elite font in medium, bold and italic typefaces. Prints in two type sizes—12 and 16.6 pitch. Two symbol sets—Roman 8 (in medium, bold and italic typefaces) and Math 8 (medium typeface only). Cartridge orientation is Portrait Mode only.

Math Elite samples:

π \uparrow \leq \downarrow \supset \odot \perp \cap \ni
 ∞ λ \AA \ddagger \therefore \approx ϵ e α ϕ
 $\frac{\partial}{\partial z}$ \bar{k} $\sqrt{(-25)}$ \oint \int \bar{j} ∇ \parallel

Price \$330.00 ea.

92285K/L/M HP LaserJet Printer labels. In response to popular demand, we're introducing labels exclusively for the LaserJet Printer. You can choose from a



variety of sizes to accommodate your every need. These self-adhesive labels are easily fed through the printer's manual feed slot (automatic feed not recommended).

92285K label size: 1 × 2¾ in. 33 labels per sheet*, three across, 100 sheets per box.

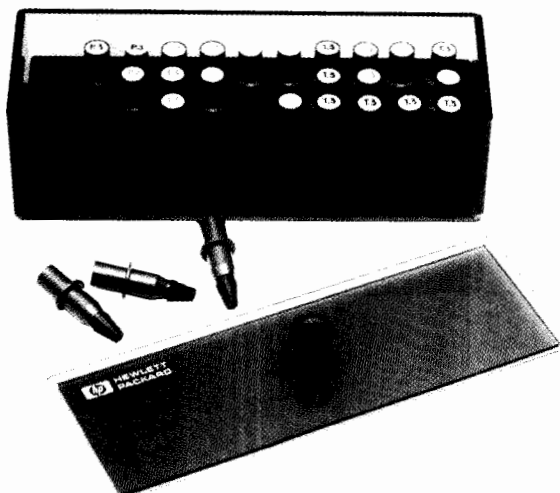
92285L label size: 1⅞ × 2¾ in. 24 labels per sheet*, three across, 100 sheets per box.

92285M label size: 2¾ × 4¼ in. 8 labels per sheet*, two across, 100 sheets per box.

Price . . . (1-2) \$55.00/box
 (3-19) 49.50/box
 (20-99) 46.75/box

*Each sheet is 8½ by 11 inches.

Spend your time plotting, not looking for pens!



Our new personal pen organizer keeps your plotter pens organized and within easy reach. Made of smoked acrylic, this organizer looks attractive on your desk and also fits conveniently in a desk drawer.

Up to 30 paper writing pens, overhead transparency pens or short-body drafting pens are stored vertically for easy identification. Take advantage of our quantity discounts and order a personal pen organizer for every plotter user in your office.

92177V Personal pen organizer (1-2) \$34.75 ea.
 (3-9) \$31.75 ea.
 (10+) \$29.50 ea.

If you need a pen organizer for your graphics workstation, or for your long-body drafting pens, be sure to see our workstation pen organizers on page 128.

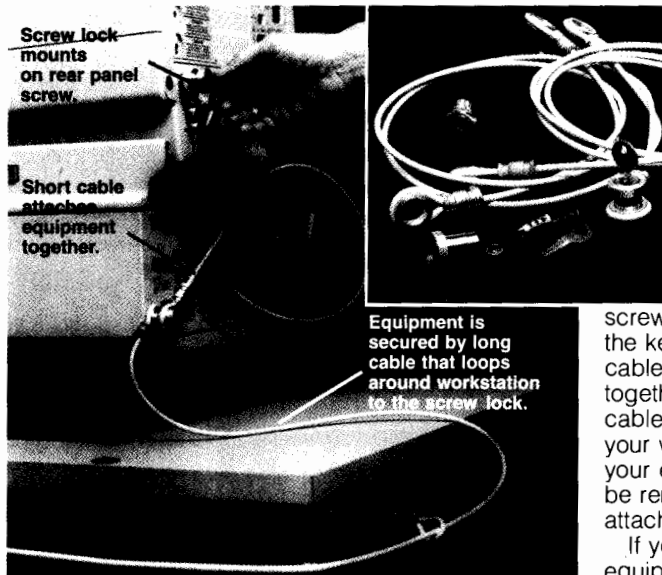
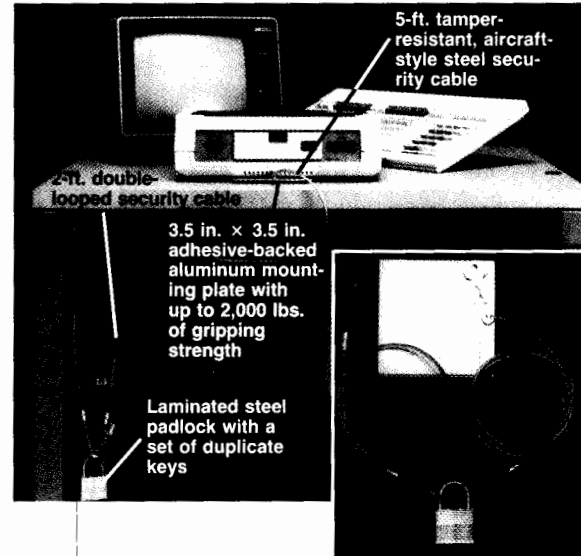
... **Newsbreak!** Products released at press time ...

Help prevent theft with one or both of our new security kits

92172G Plate lock security kit. With this new security kit, you won't have holes drilled into your equipment or adhesive mats marring your furniture. No bolts, rods, locking plates or electrical connections. With this kit installed, your equipment can be moved around your desk but not out the door.

Installation is easy. Remove the protective cover on the adhesive-backed plate and mount it on the bottom of your ThinkJet, 9121 disc drive, keyboard, etc. Loop the short security cable around your desk or workstation table leg. Lock all loops and the mounting plate cable together with the padlock. To move your secured equipment, simply unlock the padlock and you're ready to go. Order several kits and protect all your valuable HP equipment.

(1-2 kits)	\$29.00 ea.
(3-9)	26.00 ea.
(10+)	23.00 ea.



92172H Screw lock security kit. This affordable anti-theft system can be affixed to any equipment with an exposed screw in its rear panel area. Examples include the Touchscreen and the 9133 disc drive. Kit comes with three screw locks and three cables (two 3-ft., one 6-ft.) that can secure up to three pieces of equipment.

Installation is a breeze. Remove a screw from the rear panel area. Slip the cable ring onto the screw lock and mount the lock and cable with the previously removed screw. Insert lock tumbler into screw lock and turn the key. One screw lock can accommodate two cable rings so you can daisy chain your equipment together with the shorter cables. Use the longer cable to loop around the leg or cross-member of your workstation or table. If you need to transport your equipment, the security cables can easily be removed. No need to worry about permanently attached cables.

If you can't find a convenient screw on your equipment, use the 92172G security system.

(1-2 kits)	\$49.00 ea.
(3-9)	46.00 ea.
(10+)	43.00 ea.

The TK!Solver® Book M. Konopasek and S. Jayaraman/Osborne/McGraw-Hill 1982

TK!Solver is a leader in a new category of computer software—the "Equation Processor" or "Equation Solver." For professionals working with numbers and formulas, TK!Solver solves problems by processing equations entered in their natural form. Using examples and illustrations, this book explains in detail the TK!Solver information sheets, command structure, and functions that al-

low the reader to communicate with the computer at the level of mathematical models and relationships rather than by writing and running programs. A recommended text for TK!Solver users on the Integral PC and some HP 9000 Series 200 HP-UX systems.

92235B \$21.95 ea.

TK!Solver is a registered trademark of Software Arts, Inc.



Give us a call.

It's the fast, easy, friendly way to order!



Fast, easy, and friendly? You bet! When you call, we want you to feel you've received the best service anywhere. It's that simple.

It's easy for us to be enthusiastic. First, we know that the products we ship are high quality ones, exactly suited to your HP equipment. And as a satis-

fied customer, you'll call us back again and again.

When you call, our computerized on-line HP order entry system helps us quickly give you current price and real-time availability information. We're almost always able to ship your order within 24 hours from one

of our distribution centers. So give us a call. We're looking forward to serving you.

We ship within 24 hours

JUST GIVE US A CALL

800-538-8787

California 408-738-4133



Modems page 3



Test devices page 9



Acoustic couplers page 5



Multiplexers page 7



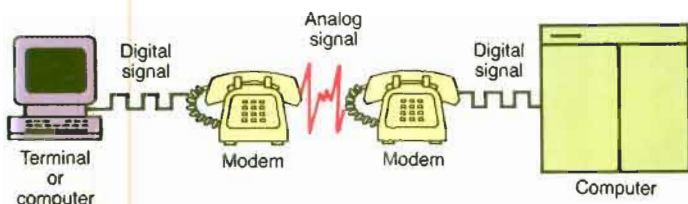
Peripheral sharing devices page 6

Modems

Modems enable remote computers or terminals to talk with host computers via ordinary or leased telephone lines. Because telephone lines are not designed to handle data from a computer or terminal, two modems must work

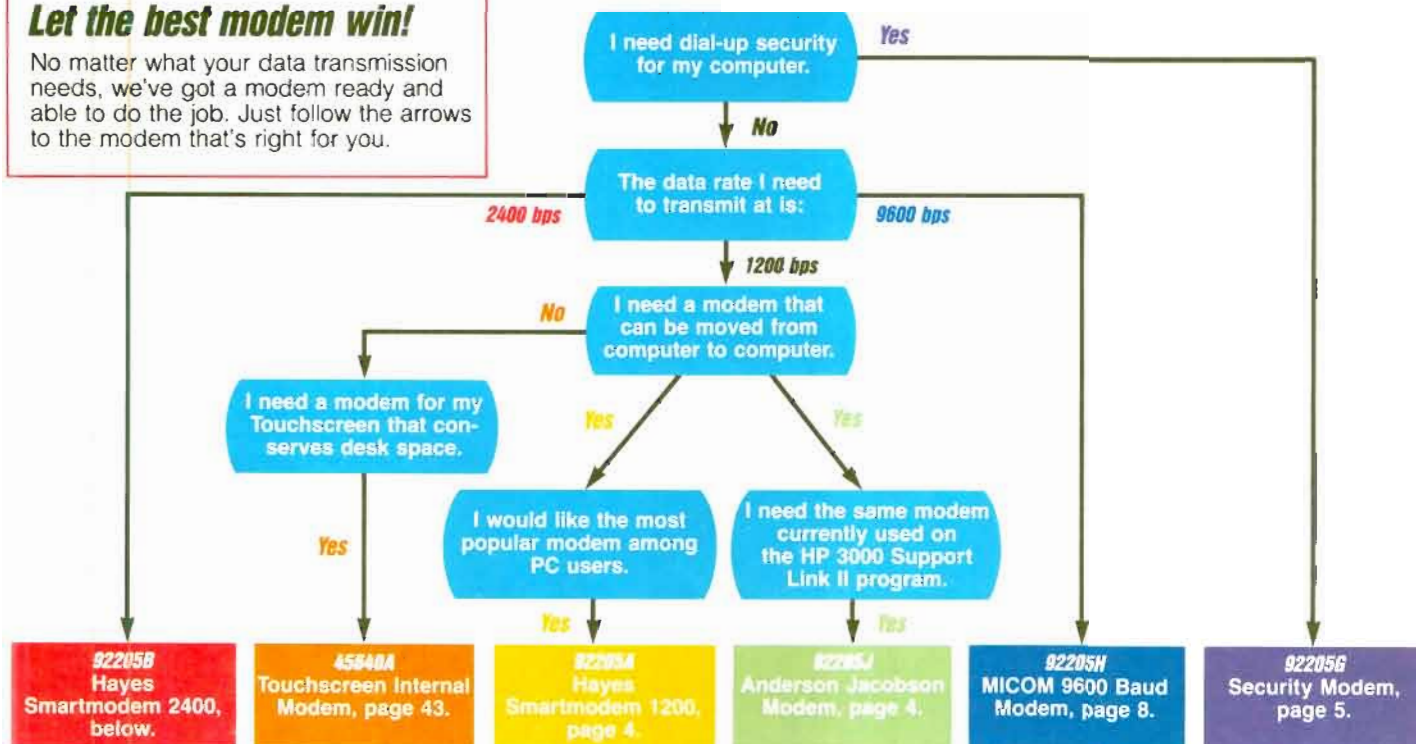
together to convert the computer's digital signals into voice-like analog signals, and to reverse the process when receiving.

Take a few moments to browse through Hewlett-Packard's complete offering of full-featured modems. Each is designed to meet specific data transmission needs: varying speeds; compatibility; portability; space economy; security and all with simple do-it-yourself installation and testing. The handy guide below will help you select the right modem for your application.



Let the best modem win!

No matter what your data transmission needs, we've got a modem ready and able to do the job. Just follow the arrows to the modem that's right for you.



Smartmodem 2400—the quick link to minis and mainframes

NEW 92205B Hayes Smartmodem 2400. Now you can get asynchronous/synchronous flexibility in one modem! With the Hayes Smartmodem 2400, you can download from the mainframe at the home office in synchronous. Or send data to the mini upstairs or connect with any of the information services in asynchronous.

More speeds, more modem compatibility. It's like having several modems in one! Smartmodem 2400 transmits at 2400 bps for economical high-volume communications. But it also automatically adjusts to modems of other speeds. It will communicate at 300, 600, 1200, or 1800 bps, and is fully compatible with the Hayes Smartmodem 1200.

Smartmodem 2400 has all the quality and speed you need to streamline and economize communications. Complete on-line support is available through Hayes customer service.

Features:

- Up to 2400 bps.
- Asynchronous and synchronous communications.
- Automatic fall-back to lower speeds.
- Meets CCITT worldwide standards.
- Speaker volume control via keyboard.
- Voice/data capabilities.
- High-speed indicator.
- Call progress monitoring.

92205B	
(1 unit)	\$899.00 ea.
(2-4)	869.00 ea.
(5+)	839.00 ea.



Continued next page.

Modems (cont.)

Telecomputing for HP personal computers

92205A Hayes Smartmodem 1200. Now your HP personal computer or terminal (with RS232C port/interface) can communicate with other computers or time sharing systems by using telephone lines and the HP 92205A.

Compatible with Bell System 103/113 and 212A modems, the 92205A communicates asynchronously in full or half-duplex at rates of 0-300 or 1200 baud. Features include automatic answering, automatic pulse or Touch-Tone™ dialing (separately or in combination), and hardware/software switchable operating parameters such as dialing speed and number of rings before answering an incoming call. It can also automatically redial the last telephone number entered. Front panel lights indicate modem status.

The 92205A is a direct-connect device which eliminates the loss and distortion often experienced with acoustic couplers.

Complete on-line support is available through Hayes customer service.



92205A

(1 unit)	<i>Reduced Price</i>	\$550.00 ea.
(2-4)		525.00 ea.
(5+)		500.00 ea.

To select the optimal modem cable for your application, see cables on pages 17, 19-21.

Remote dial-up access for HP 3000 users



92205J Modem from Anderson Jacobson is the same modem currently used for the HP Support Link II program. It is ideal for almost any remote access application that requires automatic dialing at 1200 or 300 bits per second.

Using the 92205J modem eliminates the need to retrain HP 3000 users on another modem.

Compatible with Bell 103 and 212A standards, the modem features storage for 16 telephone numbers—up to 37 digits each—in non-volatile memory. Dialing can be accomplished using the stored numbers or from your keyboard. There is also a single key redial feature.

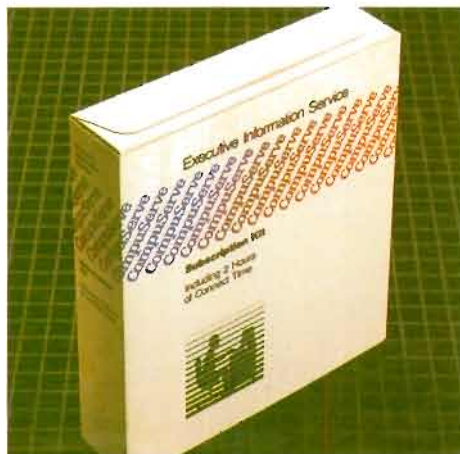
The 92205J will even automatically identify the parity and data rate, then set itself accordingly.

Complete on-site support is available through the local Anderson Jacobson service office or via the Anderson Jacobson toll free support line.

92205J

(1 unit)	\$625.00 ea.
(2-4)	615.00 ea.
(5+)	605.00 ea.

For powerful telecomputing with your HP Touchscreen Personal Computer, see the new 45640A Internal Modem, page 43.



92205S CompuServe Executive Information Service.

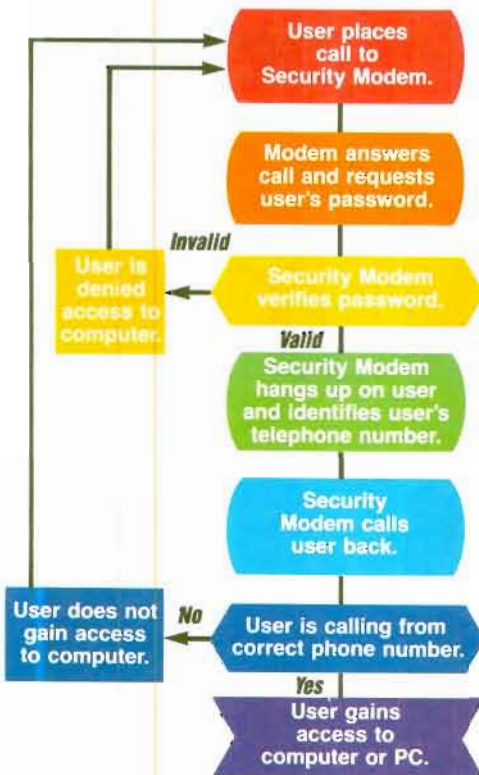
This subscription kit is your gateway to a wide range of financial and investment information, worldwide news, decision support capabilities, business communications, and travel information. CompuServe places valuable on-line Hewlett-Packard support services including HP Coach, product databases, the Communicator and public domain software right at your finger tips. Once signed up, you will be billed directly by CompuServe. This service can be accessed from any personal computer or terminal with a modem.

92205S	\$89.00 ea.
---------------------	-------------

Note: product names followed by * or ™ are trademarks of their respective companies. For a complete listing, see page 158.

Guard your computer against unauthorized access

Security modem offers round-the-clock protection



NEW 92205G Security Modem protects your sensitive computer files by creating a complete electronic security barrier. Only authorized callers can gain access.

When an access call is made, the Security Modem asks the caller for his user ID password. If a password is valid, the modem instructs the caller to hang up and wait to be called back. The modem then calls back the phone number linked with that password in its memory. The Security Modem can store password and call-back numbers for up to 25 users in its non-volatile memory.

Access security can be set at four different levels: no security, password only, password call-back on one telephone line, or password and call-back on a second telephone line. The modem also can be set to require a password to dial out.

In addition to its security features, the Security Modem can be used as a standard Bell 212A or 103 modem and is fully compatible with the Hayes Smartmodem 1200 and 2400. Complete on-line support is available from Cermetek.

92205G	
(1 unit)	\$695.00 ea.
(2-4)	665.00 ea.
(5+)	635.00 ea.

Acoustic couplers

When you're on the road, an acoustic coupler or portable jack can be your lifeline to the office or other distant computers and terminals. They're the ideal way to send and receive data over ordinary telephone lines using non-modular phones.



92205D CompanionPac acoustic coupler allows The PORTABLE to talk to other computers and terminals at 300 baud—even when you're using a pay telephone! See page 40 for details.

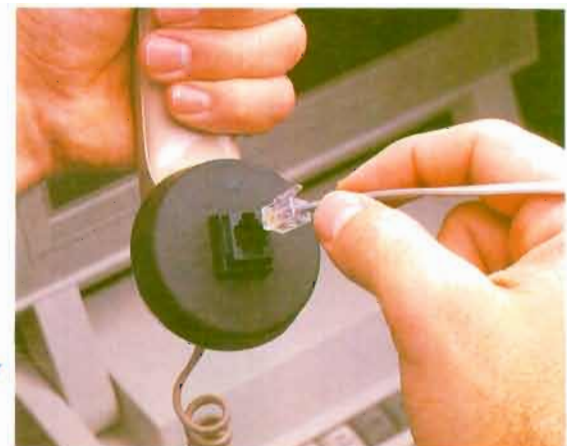
The connection for modems on the road

NEW 92204F The Black Jack™—a portable modular jack that ensures superior telecommunication capability while you're on the road. Hotels and offices generally lack modular jacks for your direct connect modem, and acoustic couplers often can't offer The Black Jack's consistent standard of operation.

The Black Jack, in a worst case situation, results in less than 3 db line sensitivity loss, and transmits data at 0-1200 baud flawlessly. And with The Black Jack's direct connection, environmental noise is eliminated.

92204F \$49.95 ea.★

★ For location of dealer nearest you, call: 800-FOR-HPPC (800-367-4772).



Peripheral sharing

Stretch your dollars! Sharing printers, plotters, and other peripherals is a great way to save money and space. Our convenient RS232C switches allow several workers to share common peripherals with just the twist of a dial. No need to fuss with bothersome cables or excess equipment. And our MicroSpoolers™ (next page) free your computer from slow printing tasks, so you can continue working.

Save time and expense by sharing peripherals

NEW RS232C Dual ABC switch lets you and a co-worker share up to three peripherals and switch easily from one to another. Just twist the dial for easy communication between your Touchscreens or terminals and your modem, printer or plotter. Lightweight and compact, the 3-way switch is convenient for desktop use and eliminates the hassle of plugging or unplugging cables. Meets FCC Class B specifications and features standard female RS232C rear connectors. A typical application is shown in the illustration at right. Other possible applications include:

- Three users sharing two peripherals.
- Two users independently accessing up to three peripherals each.

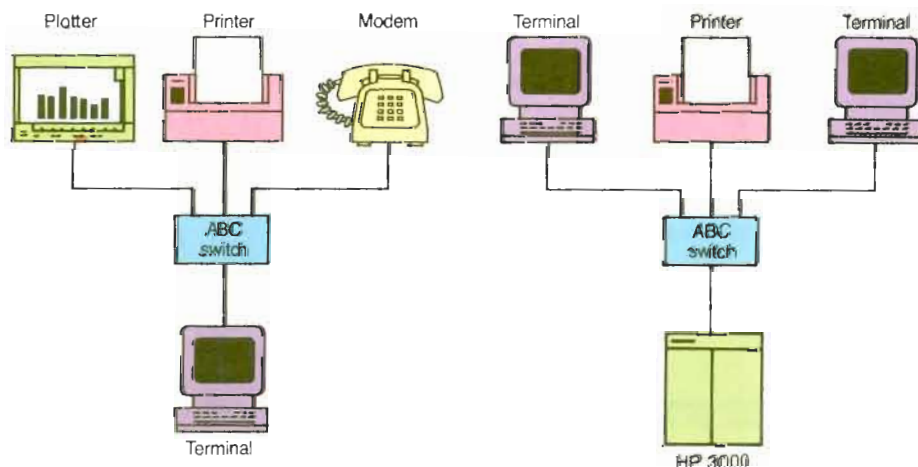
92205T \$399.00★



Alternate between peripherals with the flick of a switch



One user—three peripherals



RS232C ABC switch. An easy way to switch between your peripherals, CPU ports and datacom devices without plugging and unplugging cables. The 92178S switches between three EIA devices (all 24 lines) and your CPU, terminal or printer. Typical applications are shown in the diagrams below.

NOTE: This switch is a customer-installable device and does not qualify as an item which can be included under HP systems contracts.

Features:

- Sealed ceramic gold-plated switch for smooth operation.
- Monitor LED lamps for quick troubleshooting.
- Meets FCC Class B specifications.
- PC board construction for longer life and greater reliability.
- Rear connectors are standard female RS232C.

92178S \$250.00 ea.

Note: product names followed by ® or ™ are trademarks of their respective companies. For a complete listing, see page 158.

★ For location of dealer nearest you, call: 800-FOR-HP (800-367-4772).



Print or plot without the wait

NEW 92205V MicroSpooler™ 64 and 92205W MicroSpooler™ 128 allow you to print or plot without the wait. The MicroSpooler™ accepts data from your computer at up to 5800 characters per second, stores it until the printer, plotter, or modem is ready, and then relays it at the fastest pace those devices will accept—freeing you to work on other jobs!

Easy-to-operate controls allow you to interrupt and resume operations or clear the buffer memory. Standardized switches let you set, and then forget baud rates, protocols, and hardware handshaking parameters for each of the two ports.

Easy-to-understand, the digital readout continually updates and displays the amount of memory in use, and indicates

system status. One command allows you to print up to 256 duplicate copies!

Easy-to-install, all you need are two simple RS232C cable connections. We have the MicroSpooler™ for your high-volume information processing needs. Choose the 64K for your correspondence and short tasks or the 128K if your needs are for more complex and advanced processing applications.

MicroSpooler™ 64 has 64K bytes of memory for storing documents, and MicroSpooler™ 128 has 128K bytes. Requires 31391A cable or equivalent, page 16.

92205V MicroSpooler™ 64 \$395.00 ea★
92205W MicroSpooler™ 128 495.00 ea★



Printing

Without MicroSpooler™ 21 minutes
(CPU time for 20 pgs.; 80 CPS Bidirectional)



With MicroSpooler™ 8 seconds
(CPU time for 20 pgs.; 80 CPS Bidirectional)

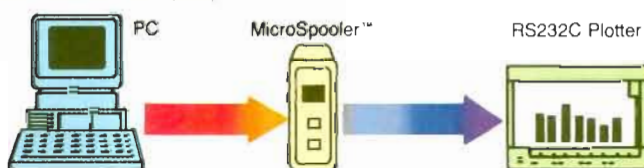


Plotting

Without MicroSpooler™ 4 minutes
(CPU time for one plot)

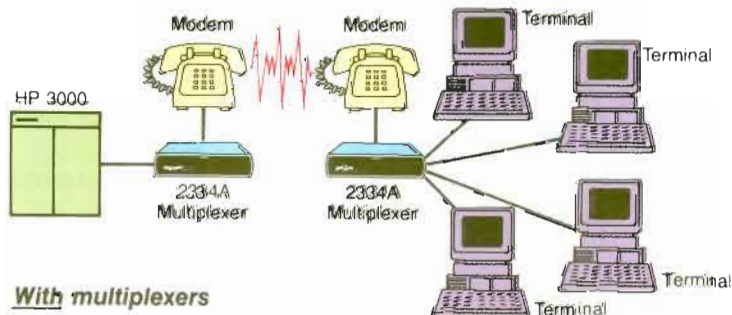
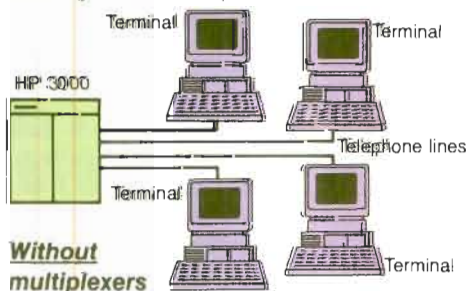


With MicroSpooler™ 1.5 seconds
(CPU time for one plot)



Multiplexers (cont. next page)

If you're sending data from more than one remote terminal to an HP 3000, here's your chance to save BIG on telephone line costs. Our new HP 2334A MULTIMUX compresses data from several workstations so that it can be transmitted over a single leased or dial-up phone line or over an X.25 Packet Switching Network (PSN). You pay for just one line, rather than several. And when the data reaches its destination, the multiplexer quickly and efficiently restores it to its original form for use by the computer. It's that simple!



Multiplexers (cont.)



With the HP MULTIMUX—one line is all you need to make ends meet

NEW HP 2334A MULTIMUX Statistical Multiplexer. Users of HP computer systems can save money and eliminate data transmission errors by using the new HP 2334A MULTIMUX on the telephone lines between their remote workstations and their CPUs. The HP 2334A MULTIMUX allows as many as 16 terminals or printers to share a data communications line, without slowing down any of the workstations or changing any existing hardware or software. See diagram previous page.

The HP 2334A provides each workstation with an apparent direct connection to its host computer, and their low cost makes it possible for HP 2334As to pay for themselves in a matter of months through savings on telephone line charges—even when supporting just one CRT and a printer. All workstations may operate simultaneously at 9600 bps if required.

With the new HP multiplexer, managers have the flexibility to select the least expensive transmission link best suited for their network's data traffic requirements. At any time, the transmission link (a leased line or X.25 PSN, for example) can be changed without having to modify the HP 2334A or the remote workstations.

The HP 2334A combines signals from remote workstations using a single, synchronous X.25 connection, transferring data at speeds of up to 19,200 bps. In many cases, the performance of remote workstation connections, typically limited to 1,200 bps, is increased significantly.

In addition, the reliability of remote workstations is improved by taking advantage of the error-detection capabilities of the X.25 protocol.

As the company's applications grow, remote workstations may be added to the HP 2334A by simply adding an RS232C interface card to the multiplexer on site. Up to four RS232C interface cards may be installed to support up to 16 workstations.

A range of new capabilities for remote workstations are offered by the new HP 2334A:

- By connecting multiple host computers to the HP 2334A, a remote workstation user can access information on the systems, switching from one to the other, by simply entering a command on the remote terminal.
- Having less computer ports than remote workstations results in even more cost savings by reducing the number of host and HP 2334A interfaces.
- Comprehensive diagnostic and self testing performed by the HP 2334A aid in locating network problems and reducing network downtime.

One to four interface cards (HP 40260A or HP 40261A) must be ordered with the HP 2334A.

HP 2334A MULTIMUX	.....	\$1,950.00 ea.
HP 40260A four port direct connect interface	.....	\$870.00 ea.
HP 40261A four port modem interface	.....	\$980.00 ea.

Speed data on its way with 9600 baud modem

NEW 92205H MICOM 9600 bps synchronous modem is the ideal choice to use in applications requiring fast synchronous data transmission.

The 92205H can operate in multipoint or point-to-point configurations at full speed over unconditioned leased telephone lines. Two-wire, half-duplex and four-wire, full- or half-duplex modes are supported. The 92205H has a powerful adaptive equalizer that enables it to tolerate changing line conditions, ensuring 9600 bps operation under conditions that would cause many other modems to fail. The 92205H can also fall back to 7200 bps and 4800 bps.

Simple installation

The 92205H is user-installable and only requires that you set the configuration switches, plug in cables, and turn on the power.

Troubleshooting is a "do-it-yourself" matter. From the host site, the user can initiate remote loopbacks. Integral testing capabilities include both analog and digital loopbacks, plus a pattern generator for use with loopback tests. Front panel indicators also provide status of the modem.

The 92205H is being certified for operation with the HP 2334A multiplexers. At the time of publication the 92205H was not fully supported by HP for operation with the 2334A. Our customer service department can tell you if certification is complete.

92205H

(1 unit)	.....	\$2,450.00 ea.
(2-4)	.....	2,425.00 ea.
(5+)	.....	2,400.00 ea.



We ship within 24 hours

JUST GIVE US A CALL

800-538-8787

California 408-738-4133

Test devices

Test devices are a crucial part of any data communication system. Our convenient troubleshooters allow you to easily identify and solve equipment problems yourself—without having to invest in an expensive repair call. Whether you're installing, expanding, or just monitoring your system, these handy, pocket-size instruments will prove their value again and again. When you want something working fast, rely on our new line of fully-featured, self-contained test devices to help you solve the problem and get back to the real task of data communicating!

Problem Identifiers

NEW DataCheck 1 allows even the most non-technical computer user to diagnose basic computer problems. When placed between the computer/word processor/terminal and another device (such as a modem, a multiplexer, a printer, etc.), this RS232C interface breakout box indicates signal activity. You then can detect problems and identify the faulty device. It needs no batteries and therefore is always ready to use.

DC1 comes with 12 LED indicators, 25 breakout switches, plastic case with accessory storage space, five interface jumpers, RS232C cable, operator's manual, and an instructional booklet.

92204B \$159.00

NEW DataCheck 2 is a more powerful diagnostic tool than DC1. It displays a greater range of computer signal activity and allows you to identify a wider variety of computer problems. Extra features such as a pulse trap for detecting signal glitches, voltage output pins and battery saving devices make DC2 an easy tester to use. It comes with 24 LED indicators, 25 switches for easy identification, an RS232C cable, patch jumpers, score pins, two 9-volt batteries, storage areas for batteries and accessories, an operator's manual, and an instructional booklet.

92204C \$259.00



Problem Solvers

NEW Activity Monitor. The compact, in-line RS232C activity monitor makes possible a quick check of the signal activity between your computer/terminal and modem.

Ten red indicators represent the 10 primary signals. An illuminated indicator means a positive signal is present.

92204D \$79.00

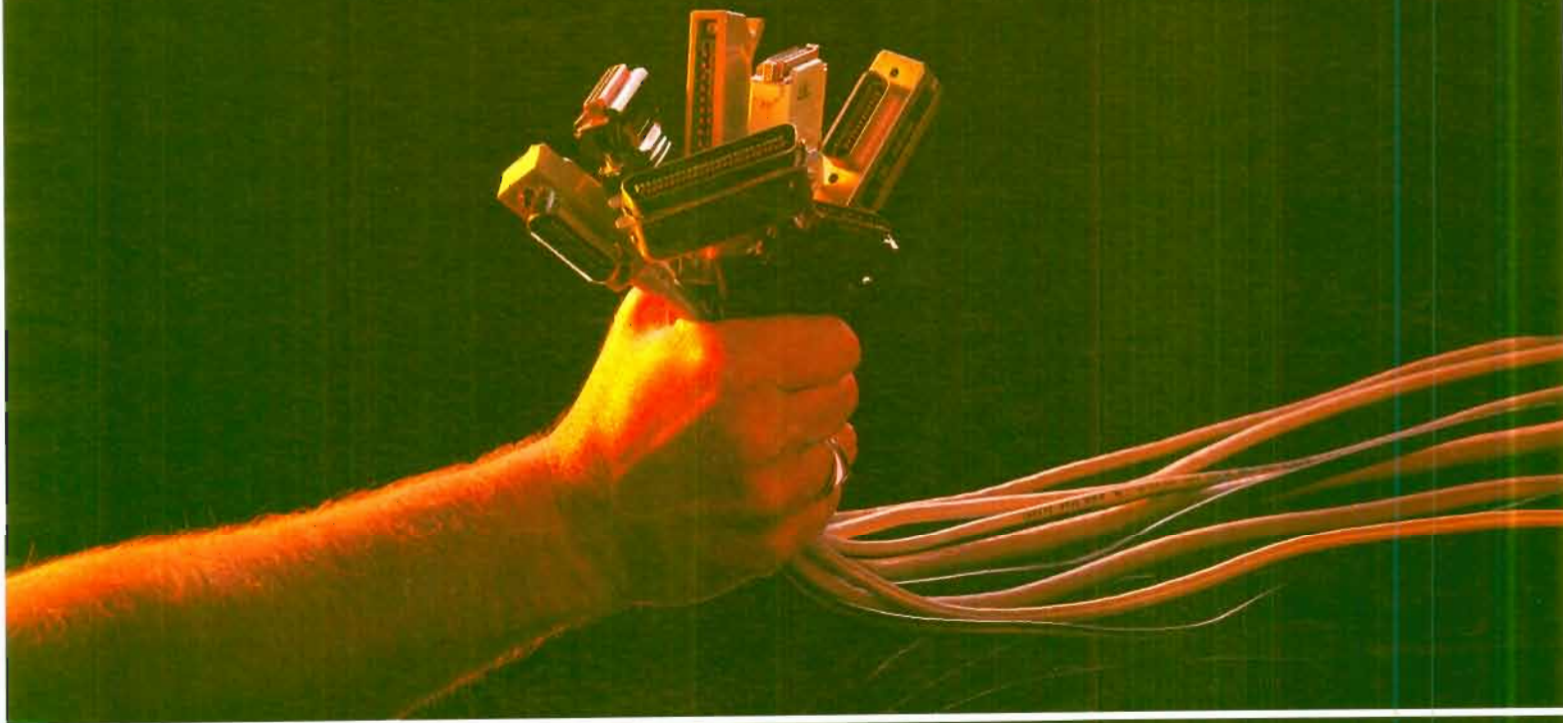
NEW Interface Reconfiguration Device (IRD). After using a DataCheck 1 or DataCheck 2 to identify a problem between two of your RS232C devices, use this compact adapter to custom-configure your RS232C cabling interface and allow your incompatible devices to be connected together. With this compact adapter, any two of the 25 pins of the interface can be cross-patched. After the conversion is completed, open the case and solder the conversion into place. Twelve patch wires are provided and no batteries are required.

92204E \$79.00



CALL US WITH YOUR PURCHASE ORDERS AND





Productivity, convenience and reliability.

Browse through the following pages and discover items for everyone; service technicians, computer operators, and computer users.

HP-IB cables	page 11
HP-IL cables	page 11
Shared Resource Management	page 11
LAN 3000	page 12
EtherSeries/150	page 15
Gender converters and extensions	page 16
Personal computer cables	page 17
Printer cables	page 18
Plotter cables	page 18
Terminal cables	page 19
RS422 cables	page 22
Power cords	page 22
Connector kits and raw cables	page 23
Power line conditioners	page 24
Cable management kit	page 26
Multiple outlet strip	page 26

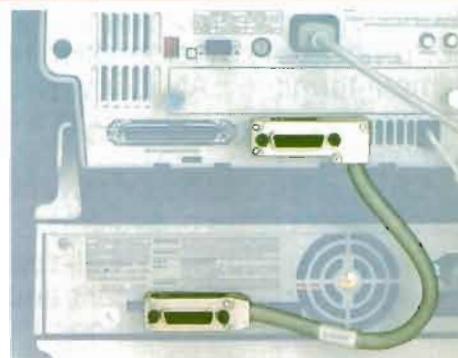
HP-IB

HP-IB/IEEE-488 cables



HP-IB cables can be used to connect two devices (e.g. a personal computer and a disc drive) or can be "daisy-chained" to connect several devices (e.g. printer, plotter, etc.). First make sure the device uses an HP-IB interface. Then check that the total length (in meters) of all the HP-IB cables is no greater than twice the number of devices being connected, up to an absolute maximum of 20 meters.

Because HP-IB cables have a large bending radius, right-angle cables are extra convenient wherever HP-IB devices are stacked. Now, new 1-meter and 2-meter lengths are available with right-angle connectors.



Right-angle design

Straight-angle cables

Order number (identical cables are co-listed)	10833D	10833A (or 31389A) (or 45529A)	10833B (or 31389B) (or 45529B)	10833C (or 31389C)
Length	1.6 ft. (0.5 m)	3.3 ft. (1.0 m)	6.6 ft. (2.0 m)	13.2 ft. (4.0 m)
Price	\$80.00 ea.	\$80.00 ea.	\$90.00 ea.	\$100.00 ea.

Right-angle cables

Order number	92220R	82977A	82977B
Length	1.0 ft. (0.3 m)	3.3 ft. (1 m)	6.6 ft. (2 m)
Price	\$80.00 ea.	\$100.00 ea.	\$110.00 ea.

HP-IL

HP-IL cables

The Hewlett-Packard Interface Loop (HP-IL) is a bit-serial interface for low-cost, battery operated systems. Devices are connected by two-wire cables leading from the output port of one device to the input port of the next until all devices form a closed loop. Use

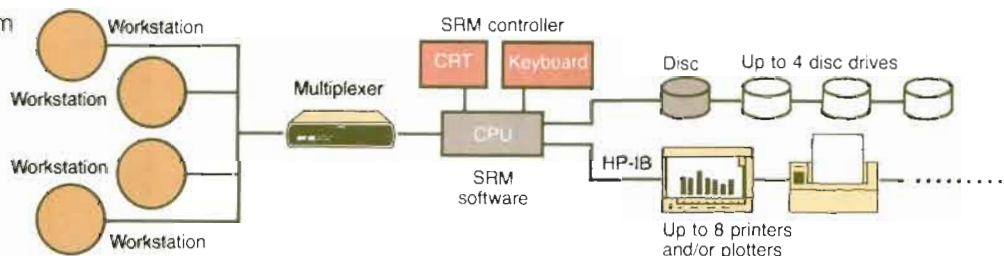
with HP 41, Series 70, Series 80, and The PORTABLE.

For more HP-IL products, see page 34. Also see the book, *HP-IL System: An Introductory Guide to Hewlett-Packard Interface Loop*, page 145.

HP-IL cable no.	82167A	82167B	82167D
Length	1.65 ft. (.5 m)	3.3 ft. (1 m)	16.7 ft. (5 m)
Price	\$6.00 ea.	\$8.00 ea.	\$10.00 ea.

Shared resource management cables

The shared resource management system is a file-server and peripheral manager for BASIC and Pascal-based systems. It allows users to share data, programs, and peripheral equipment such as printers and plotters.



SRM cables

Length	Connectors	Part no.	Price
33 ft. (10 m)		97061A	\$165.00 ea.
82.5 ft. (25 m)		97061B	280.00 ea.
198 ft. (60 m)		97061C	570.00 ea.
198 ft. (60 m)		97061D*	550.00 ea.

*Includes connector kit.

★ For location of dealer nearest you, call: 800-FOR-HPCC (800-367-4772)

SRM interface cards required:

Computer	Interface card
HP Series 200 Models 26 and 36	98629A
HP 9835 and 9845	98029A
HP Series 500 Models 20, 30, and 40	27123A

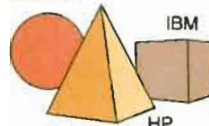
Local area network cables

If your company is like most, local area networks are fast becoming a key part of your plan for productivity in information management. In simple terms, a LAN is a way of connecting multiple systems together in a limited geographic area.

LANs offer significant advantages over the direct connection of systems:

- Flexible topology—a well-designed LAN can accommodate movement and expansion as your organization changes.
- Efficient resource use—sharing of computers, peripherals and software saves expenses.
- Efficient wiring—connecting each computer to one main LAN backbone cable requires less cabling effort and space.

All others



HP AdvanceNet: connecting your HP computers to the rest of the world.

HP AdvanceNet: networking solutions for today and tomorrow.

Because users need to design and implement LANs today which will continue to be effective networking solutions in the future, HP has created HP AdvanceNet.

HP AdvanceNet is Hewlett-Packard's strategy and architecture for data communications and information management. It includes data communication alternatives available today, such as system-to-system communication within product lines and communication links between product families. HP AdvanceNet will build upon current user services and communication links to accommodate your future growth while protecting your investment in software and hardware.

LAN/3000

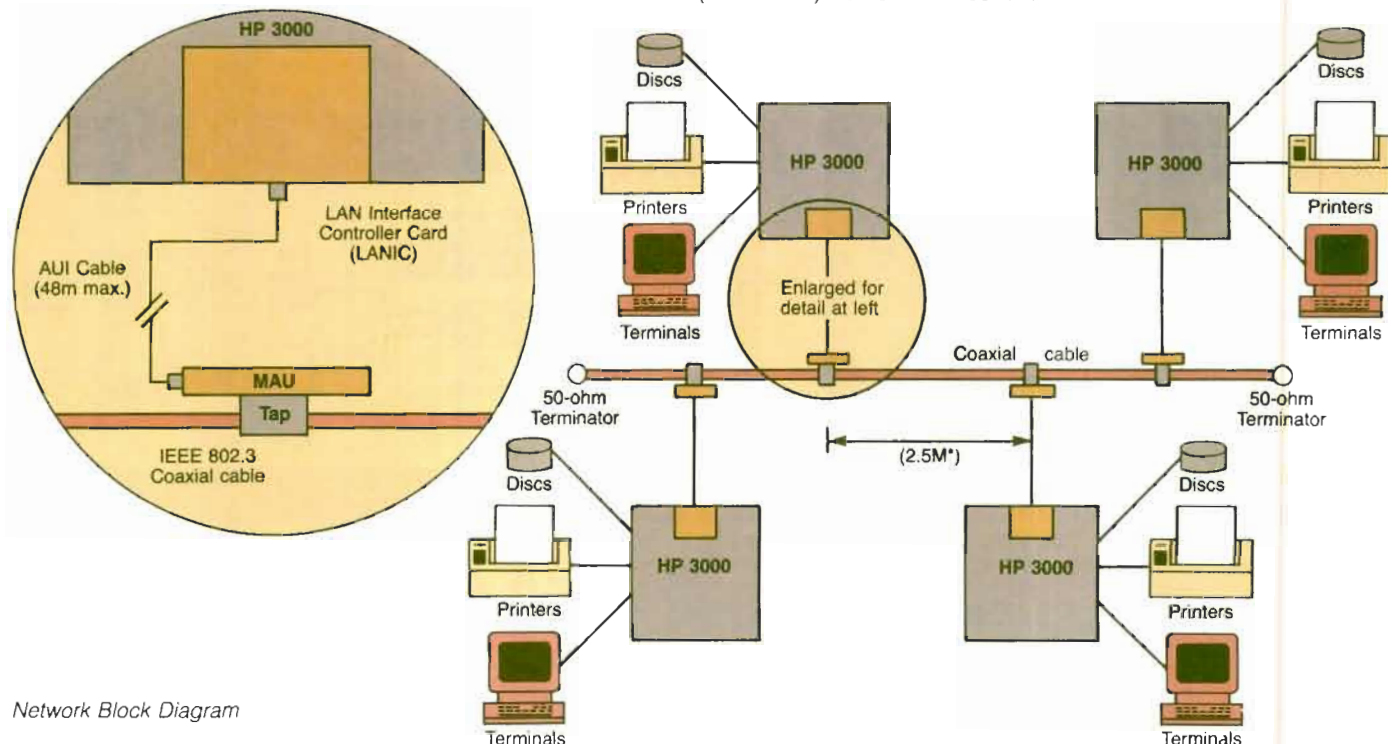
LAN/3000 provides the HP 3000 computer with a high-performance, reliable local communication link to an industry standard IEEE 802.3 compatible local area network. This network offers superior performance for high-speed data communications over a distance of 500

meters or less within a single building (or group of interconnected buildings).

The bus structure of the network allows every node to directly communicate with every other node via a single connection to the network. Each node's access to the network is controlled by the Carrier Sense Multiple Access with Collision Detection (CSMA/CD) contention

scheme designed for efficient use of the network.

On the following pages, you will find the necessary cable, connectors, tools, and manuals to implement the physical network. For software, interface controllers, and especially for planning information, please consult your local HP representative.



Network Block Diagram

*Distance between MAUs must be an even multiple of 2.5 meters.

NEW LAN/3000 coaxial cable kits

LAN coaxial cable is available with an outer layer of PVC or FEP (Teflon®). Local building codes and placement of the cable determine whether PVC may be used or FEP is required.

This is the standard or "thick" coaxial cable with a 0.4-inch diameter. It was specifically designed to meet the strict IEEE 802.3 standard and also meets Ethernet specifications.

Standard lengths are provided to avoid excessive signal reflection and distortion.

Each kit contains: two N-connectors; one terminator; one grounded terminator; one terminal insulator; one ground lug; two 3/8-inch nuts; one barrel connector (female to female); and one barrel insulator. The 500m kits provide additional N-connectors (total of 10) and additional barrels with insulators (total of four each). This allows you to segment the cable for easier fault isolation.

Cable kit number	Jacket material	Length	Connected/unconnected	Price
92253A	FEP	23.4m	unconnected	\$ 400.00 ea.
92253B	FEP	23.4m	connected	\$ 425.00 ea.
92253C	FEP	117m	unconnected	\$1500.00 ea.
92253D	FEP	500m	unconnected	\$6000.00 ea.
92253E	PVC	23.4m	unconnected	\$ 200.00 ea.
92253F	PVC	23.4m	connected	\$ 225.00 ea.
92253G	PVC	117m	unconnected	\$ 500.00 ea.
92253H	PVC	500m	unconnected	\$2100.00 ea.

NEW LAN Medium Attachment Unit (MAU) and coaxial cable tap

The Medium Attachment Unit, or MAU, contains the electronics which send and receive data over the coaxial cable and detect collisions. Its mechanical and electrical connection to the coaxial cable is provided by the tap, which may be installed without interrupting communications on the network.

When a MAU is disconnected from the coaxial cable, the tap should be left in place on the cable.



Product number	Description	Price
30241A	LAN Medium Attachment Unit and coaxial cable tap.	\$400.00
30241B	LAN coaxial cable tap	\$ 45.00

NEW LAN Attachment Unit Interface (AUI) cable

The Attachment Unit Interface or AUI cable interconnects the MAU and the host system, such as an HP 3000. It may be up to 48 meters in length. This cable meets strict IEEE 802.3 specifications.

AUI cable is available with jacket material of PVC or FEP (Teflon®). Local building codes and placement of the cable determine whether PVC may be used or FEP is required.

Connected AUI cable*	Jacket material	Length	Price
92254A	FEP	6m	\$135.00 ea.
92254B	FEP	12m	\$200.00 ea.
92254C	FEP	24m	\$345.00 ea.
92254D	FEP	48m	\$635.00 ea.
92254E	PVC	6m	\$ 85.00 ea.
92254F	PVC	12m	\$110.00 ea.
92254G	PVC	24m	\$160.00 ea.
92254H	PVC	48m	\$250.00 ea.

*Each cable is packaged with six wallplate labels with protective tape.

Cut-to-length AUI cable	Jacket material	Price
92255A	FEP	\$13.00/m
92255B	PVC	\$ 4.50/m

Note: product names followed by * or TM are trademarks of their respective companies. For a complete listing, see page 158.

NEW 92255C AUI cable connector kit. Provides all parts needed for one male and one female D-connector, plus six labels with protective tape.
Price \$47.00

NEW 92256D LAN AUI wallplate kit. Complete kit for a pair of wallplates for AUI cable. Includes:
• Two wallplates with labels and protective tape.
• Two shield funnels.
• Two wallplate locking post assemblies.
Price \$33.00

For more information on LANs, see the book: *A Manager's Guide To Local Networks*, page 145.

We ship within 24 hours

JUST GIVE US A CALL

800-538-8787

California 408-738-4133

LAN 3000 (cont.)

Money-saving tool kits for do-it-yourselfers



Left to right—92229B crimp tool, crimp die, cable stripper, Allen wrench, coring tool, and nut driver.

NEW 92256A LAN coaxial cable installation tool kit for installing N-connectors on LAN coaxial cable. Includes:

- Coaxial cable stripper.
- Hex crimp die, requires use of **92229B** crimping tool, which must be ordered separately.

Price \$185.00 ea.

NEW 92256B LAN AUI cable assembly tool kit for installing and testing LAN AUI cable. Includes:

- Crimping tool for D-connector pin.
- Pin extracting tool for D-connector.
- Loopback hood for AUI cable testing.
- AUI cable breakout box.
- Crimp die, requires use of **92229B** crimping tool, which must be ordered separately.

Price \$900.00 ea.

NEW 92256C LAN MAU and tap installation tool kit for installing tap on coaxial cable and attaching to MAU. Includes:

- Coring tool.
- 1/8-inch Allen wrench.
- 1/2-inch hex nut driver.

Price \$39.00 ea.

NEW 92257B LAN loopback hood. Required for operation of node diagnostic for customer isolation of failures to coaxial cable, AUI cable or MAU.

Price \$140.00 ea.

NEW 92229B Crimp tool for LAN coax and AUI cabling. Shield ferrel crimping tool for N-connector and D-connector. Requires die in **92256A** for N-connector, or die in **92256B** for D-connector.

Price \$199.00

Information please . . .

Reference manuals for LAN/3000

NEW 30242-97801 LAN/3000 Technical Reference Manuals Kit. A complete reference source for installation and operation of the HP AdvanceNet LAN. Includes:

- Local Area Network Cabling and Installation Guide
- LAN/3000 Diagnostic and Troubleshooting Guide
- NS/3000 User Programmer Reference Manual
- NS/3000 Network Manager Reference Manual
- NS/3000 Handbook—User/Programmer Section
- NS/3000 Error Messages and Recovery Manual

Price \$75.00

NEW 30242-90002 Local Area Network Cabling and Installation Guide. For the customer and installer, this guide provides the instructions for installing the HP LAN 802.3 cable, MAU, and AUI components. It includes a glossary of terms, parts list and specific directions for installing the components.

Price \$12.00 ea.

NEW 5957-4624 Making the LAN Connection. A local area network primer covering the basic concepts of LANs and giving some specific information on HP's implementation of the LAN.

Price \$6.00 ea.

NEW 92256E Surge protector for LAN/3000 networks. Does your network plan include segments with different grounds or systems with different power sources? Use the 92256E surge protector to isolate those portions and protect against surges due to lightning or other outside sources.

The 92256E surge protector connects into the coaxial cable by means of N-connectors in the same manner as the barrel connector. A threaded stud is provided for connecting the eight-gauge ground wire. A two-hole mounting plate allows attachment to wall surface.

Price \$90.00 ea.

LAN/9000 users—for coaxial cable designed to strict IEEE 802.3 standards, see the 92253 family of cables on page 13.

We ship within 24 hours

JUST GIVE US A CALL
800-538-8787

California 408-738-4133

CALL US WITH YOUR PURCHASE ORDERS AND



EtherSeries/150

Share data and peripherals via a 10 Mbps coax link

EtherSeries/150 brings the popular EtherSeries local area network from 3Com Corporation to HP Touchscreen users. Based on the standard Ethernet local area network, it's a fast and powerful system that allows communication and information sharing between Hewlett-Packard Touchscreen Personal Computers, as well as IBM PCs and other EtherSeries-compatible computers. The EtherSeries/150 family of integrated hardware and software networking products provide you with a network connection and access to a shared Winchester fixed disc, as well as electronic mail services and shared printers. In addition, you can use MS-DOS commands, application programs and data files just as you usually do. There's nothing new or different when information is accessed across the network. Except, of course, your capabilities and resources are increased!

EtherSeries/150 can link up to seven additional nodes to the file server in the network. Additional servers and user nodes can be added to a network to support up to a total of 100 computers or other devices.

Use this page to select cables and connectors for creating or expanding your network. See your local HP dealer or HP representative for the other members of the EtherSeries/150 family:

45644A EtherLink/150 provides the hardware accessory card that plugs into

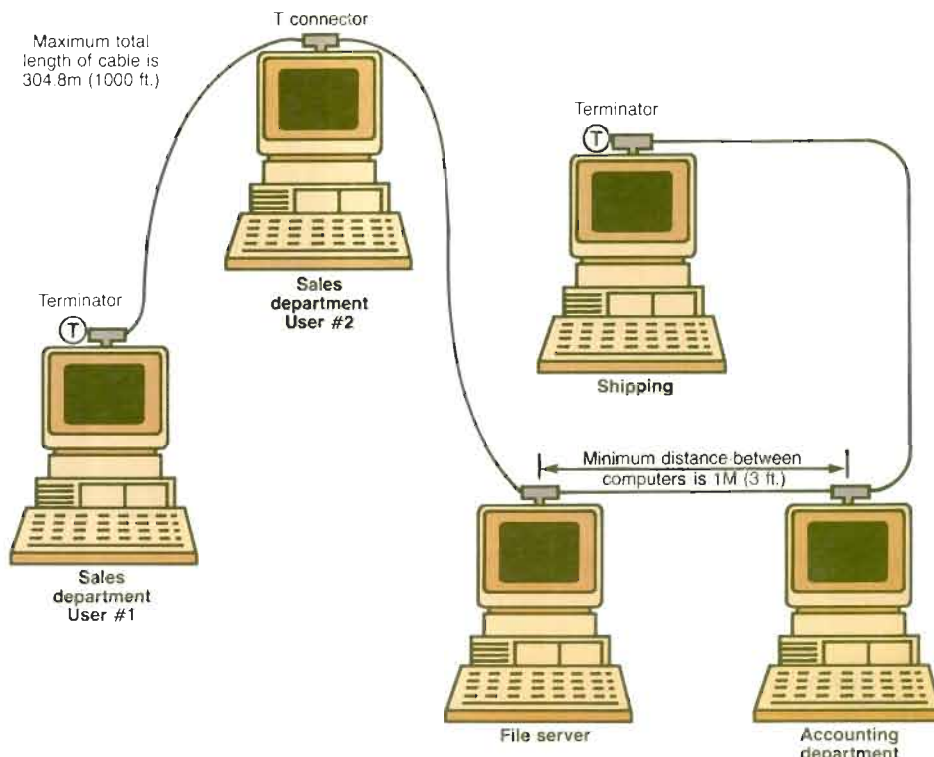
a Touchscreen PC, enabling it to send and receive information through the network at the rate of 10 mbps. It also provides the user software which enables the Touchscreen PC to access network discs and printers.

45645A EtherShare/150 is the software product that allows HP 150 Personal

Computers on an Ethernet network to share a single fixed disc.

45646A EtherPrint/150 lets network users share common printers.

45647A EtherMail/150 allows networked personal computers to communicate via electronic mail.



Touchscreen (HP 150) local area network cables

Description	Length	Product number	Price
Coaxial cable	7m (23 ft.), connected	45691A	\$18.00 ea.
Coaxial cable	15m (50 ft.), connected	45692A	22.00 ea.
Coaxial cable	30m (100 ft.), connected	45693A	32.00 ea.
Coaxial cable	Cut-to-length, connected	45694A*	1.00/m

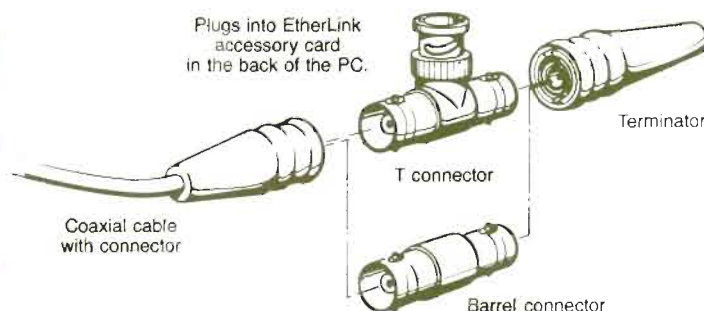
*Minimum length 40m, maximum continuous length 185m.

Touchscreen cable assembly

Description	Product number	Price
Terminator kit**	45695A	\$36.00 ea.
Barrel connector	45696A	14.00 ea.
T connector	45697A	18.00 ea.
Loopback plug	45698A	40.00 ea.

**Contains two terminators, one with grounding lead, one without.

★ For location of dealer nearest you, call: 800-FOR-HPCC (800-367-4772)



Cables and connectors

Cables won't mate? Try the HP connection!










9222F/M Female and male gender converters are designed to provide convenience and therefore, productivity. The male gender converter will allow two female cables to be connected. Conversely, a female gender converter will connect two male cables.

Shielding is 100 percent from metal connector to metal connector and both devices feature all 25 wires wired pin to pin.

9222F Female gender converter \$40.00 ea.

9222M Male gender converter \$40.00 ea.

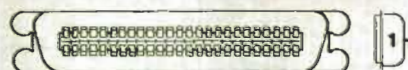
RS232C Extension cables

	Description	Length	Original system cable no.	Order cable no.	Price
Extension cables	 Pins 1–25 wired end-to-end. Shielded.	9 ft. (2.3 m)	—	17355M	\$60.00 ea.
	 Pins 1–25 wired end-to-end. Shielded.	16.7 ft. (5 m)	(30062C)	31391A	\$ 70.00 ea.
		33.4 ft. (10 m)	—	31391B	80.00 ea.
		50 ft. (15 m)	(30062C, Opt 001)	92215F	109.00 ea.
	 Pins 1–25 wired end-to-end. Shielded.	100 ft. (30 m)	(30062C, Opt 002)	92215T	\$169.00 ea.
	 Pins 1–8, 11, 12, 19, 20, 22, 23, 25 wired end-to-end. Shielded.	12.5 ft. (3.8 m)	—	92219G	\$60.00 ea.
	 Hardwire extension; pins 2, 3, 7 wired end-to-end. Shielded.	25 ft. (7.6 m)	(30062D)	30062-60018	\$70.00 ea.
		50 ft. (15 m)	—	92215A	94.00 ea.
	 Adapter cable between HP 3000/64 ATP and existing RS232C terminal cable.	16.7 ft. (5 m)	(30152A)	30152-60001	\$180.00 ea.
	 Extension cable for HP 3000/64 ATP RS232C interface.	50 ft. (15 m)	(30153A)	30153-60001	\$205.00 ea.

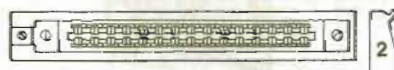
Connectors **3M**, **3F**, **6M**, **6F** see below. *Block RS232C connector.

Be sure to see the book, *The RS-232 Solution*, page 146.

Connector diagrams



1 50-pin male (for 262X Terminals).



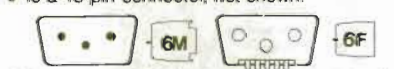
2 30-pin female (for 264X Terminals).
5 is a 48-pin connector, not shown.



3M (male) and 3F (female) standard 25-pin RS232C connectors.



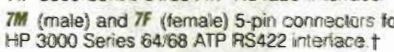
4M (male) and 4F (female) 14-pin multipoint cable connectors.



6M (male) and 6F (female) 3-pin connectors for HP 3000 Series 64/68 ATP RS422C interface.



8M/F (male/female) HP-IB connectors.



7M (male) and 7F (female) 5-pin connectors for HP 3000 Series 64/68 ATP RS422 interface.†



9M (male) and 9F (female) HP-IL connectors.



10M (male) coaxial (video) connector.



11M (male) and 11F (female) 36-pin centronics-type connector.
























12M (male) and 12F (female) 9-pin sub-miniature D connector.

Be sure to see the connector kits and cable guide on page 23.

†Same shape as 6M/F, but with 5 pins

Personal computer cables









System		Description	Length	Original system cable no.	Order cable no.	Price
Touchscreen (HP 150)		HP 1000, 3000 Systems; U.S. modems 103A, 202C/D/S/T, 212A, Vadic 3400 modems: acoustic couplers (signal compatible only). Shielded.	16.7 ft. (5.0 m) 50.0 ft. (15.0 m)	(13242N)	13242-60001 92218A	\$100.00 ea.★ 110.00 ea.★
		European 202C-type modems. Shielded.	16.7 ft. (5.0 m) 50.0 ft. (15.0 m)	(13242M)	13242-60002 92218B	\$100.00 ea.★ 122.00 ea.★
		3-wire cable with EMP protection for terminal from lightning-induced transients.	16.7 ft. (5.0 m) 50.0 ft. (15.0 m)	(13242Y)	13242-60005 92218C	\$ 95.00 ea.★ 140.00 ea.★
		RS232C Interface cable for HP 3000 Series 64 ATP.	16.7 ft. (5 m)	(13242X)	92218D	\$ 80.00 ea.★
		RS422 Interface cable for HP 3000	16.7 ft. (5 m)	13242P	13242P	\$ 79.00 ea.★
		RS232C Interface cable for serial printer requiring male connector such as 2601A, 2602A, 2631, 2686A, 2932A, 2933A, 2934A, 82905B.	16.7 ft. (5 m)	(13242G)	13242-60010	\$ 69.00 ea.★
		RS232C Interface cable for serial printer requiring female connectors.	16.7 ft. (5 m)	(13242H)	13242-60011	\$ 69.00 ea.★
		HP-IB Interface cable for 2602A Opt. 046, 2225A, 2932A Opt. 046, 2933A Opt. 046, 2934A Opt. 046, 82906A Opt. 002, 82905B Opt. 001-004.	3.3 ft. (1.0 m) 6.6 ft. (2.0 m) 13.2 ft. (4.0 m) 1.6 ft. (0.5 m)		10833A 10833B 10833C 10833D	\$ 80.00 ea.★ 90.00 ea.★ 100.00 ea.★ 80.00 ea.★
		HP-IL Interface for 2225B (Requires HP45643A Extended I/O Accessory).	1.6 ft. (0.5 m) 3.3 ft. (1.0 m) 16.7 ft. (5.0 m)	82167B	82167A 82167B 82167D	\$ 6.00 ea.★ 8.00 ea.★ 10.00 ea.★
		Centronics-type parallel interface for 2225C. (Requires HP45643A Extended I/O Accessory).	6.6 ft. (2 m)	13242D	13242D	\$ 50.00 ea.★
		RS232C Interface cable for 7470A Opt. 001 or 7475A Opt. 001 in stand-alone mode.	16.7 ft. (5 m)	13242G	13242-60010	\$ 69.00 ea.★
		RS232C Interface cable for 7470A Opt. 001 or 7475A Opt. 001 in terminal mode (eavesdrop).	3.3 ft. (1 m)	17455A &	17455A &	\$ 75.00 ea.★
			16.7 ft. (5.0 m)	13242N	13242-60001	100.00 ea.★
		HP-IB Interface cable for 7470A Opt. 002, 7475A Opt. 002, or 7550A (dual interface).	3.3 ft. (1.0 m) 6.6 ft. (2.0 m) 13.2 ft. (4.0 m) 1.6 ft. (0.5 m)		10833A 10833B 10833C 10833D	\$ 80.00 ea.★ 90.00 ea.★ 100.00 ea.★ 80.00 ea.★
		Cable for RS232C interface of 7550A in stand-alone mode.	3.3 ft. (1.0 m)		17255D	\$ 40.00 ea.★
		Cable for RS232C interface of 7550A in terminal mode (eavesdrop).	16.7 ft. (5.0 m)	13242N	13242-60001	\$100.00 ea.★
The PORTABLE (HP 110)		U.S. Modems 103A, 212A, Vadic 3400 Modems, European 202C-type Modems, Acoustic Couplers. Shielded. Male RS232C connector.	5 ft. (1.5 m)	92221M	92221M	\$ 40.00 ea.★
		RS232C Interface cable, shielded, male connector, for 2601A Opt. 242, 2602A, 2225D, 2932A, 2934A, 7470A Opt. 001, 7475A Opt. 001.	5.0 ft. (1.5 m)	92221P	92221P	\$ 40.00 ea.★
		HP-IL Interface cable for 2225B, 82905B Opt. 448, 7470A Opt. 003.	1.6 ft. (0.5 m) 3.3 ft. (1.0 m) 16.7 ft. (5.0 m)	82167B	82167A 82167B 82167D	\$ 6.00 ea.★ 8.00 ea.★ 10.00 ea.★
HP 86		36-pin cable for use with 82905B printer options 242, 342, 442.	4 ft. (1.2 m)	82957A	82957A	\$ 60.00 ea.★
		Monitor cable: coax connector both ends.	25.4 in. (0.6 m)	92220M	92220M	\$ 5.00 ea.★
Series 200 Model 216		RS232C cable with male DTE connector.	16 ft. (4.9 m)	5061-4215	5061-4215	\$100.00 ea.
		RS232C cable with female DCE connector.	16 ft. (4.9 m)	5061-4216	5061-4216	\$ 95.00 ea.

 Identifies RFI Filter on cable



*Piggyback male and female RS232C (y-cable) supports eavesdrop mode

★ For location of dealer nearest you, call: 800-FOR-HPCC (800-367-4772)

Printer cables

Printer		Description	Length	Part no.	Price
ThinkJet 2225A (HP-IB)		Touchscreen (HP 150), HP 120/125, HP 85, 86B, 87, Series 200	3.3 ft. (1.0 m)	10833A	\$ 80.00 ea.★
			6.6 ft. (2.0 m)	10833B	90.00 ea.★
			13.2 ft. (4.0 m)	10833C	100.00 ea.★
			1.6 ft. (0.5 m)	10833D	80.00 ea.★
ThinkJet 2225B (HP-IL)		The PORTABLE (HP 110), HP 41, Series 70	1.6 ft. (0.5 m)	82167A	\$ 6.00 ea.★
			3.3 ft. (1.0 m)	82167B	9.00 ea.★
			16.7 ft. (5.0 m)	82167D	10.00 ea.★
ThinkJet 2225C (Centronics)		Touchscreen (HP 150)	6.6 ft. (2 m)	13242D	\$ 50.00 ea.★
		HP 86	4.0 ft. (1.2 m)	82957A	\$ 60.00 ea.★
		IBM PC	9 ft. (2.7 m)	92219K	\$ 50.00 ea.★
ThinkJet 2225D (RS232C)		Touchscreen (HP 150)	16.7 ft. (5.0 m)	13242-60010	\$ 69.00 ea.★
		The PORTABLE (HP 110)	5.0 ft. (1.5 m)	92221P	\$ 40.00 ea.★
LaserJet 2686A		Touchscreen (HP 150)	16.7 ft. (5.0 m)	92219H	\$ 59.00 ea.★
		IBM PC	16.7 ft. (5.0 m)	92219J	\$ 59.00 ea.★
2601, 2602, 2631 (RS232C)		Touchscreen (HP 150)	16.7 ft. (5.0 m)	13242-60010	\$ 69.00 ea.★
		The PORTABLE (HP 110)	5.0 ft. (1.5 m)	92221P	\$ 40.00 ea.★
82905B Opt. 242, 342, 442		HP 86 (36-pin)	4.0 ft. (1.2 m)	82957A	\$ 60.00 ea.
82906A (HP-IB)		Touchscreen (HP 150), HP 120/125, HP 85, 86B, 87, Series 200	3.3 ft. (1.0 m)	10833A	\$ 80.00 ea.★
			6.6 ft. (2.0 m)	10833B	90.00 ea.★
			13.2 ft. (4.0 m)	10833C	100.00 ea.★
			1.6 ft. (0.5 m)	10833D	80.00 ea.★

Plotter cables★

System		Description	Length	Part no.	Price
7470A Opt. 001 7475A Opt. 001 (RS232C)		Touchscreen (HP 150) Texas Instruments* PRO, Wang	16.7 ft. (5.0 m)	13242-60010	\$ 69.00 ea.
		IBM* PC, Kaypro*, Compaq**	4.0 ft. (1.2 m)	17255D	\$ 40.00 ea.
		Apple*, DEC PRO*, DEC Rainbow*, Osborne*, Zenith Z- 100*	9.0 ft. (2.3 m)	17355M	\$ 60.00 ea.
		HP 3000 Terminal (Eavesdrop mode)	3.3 ft. (1.0 m)	17455A & Terminal Cable	\$ 75.00 ea.
		Touchscreen (HP 150) as terminal (eavesdrop mode)	3.3 ft. (1.0 m) 16.7 ft. (5.0 m)	17455A & 13242-60001	\$ 75.00 ea. \$100.00 ea.
		The PORTABLE (HP 110)	5.0 ft. (1.5 m)	92221P	\$ 40.00 ea.
7470A Opt. 002 7475A Opt. 002 (HP-IB)		HP 85, 86B, 87, 120, 125, Touchscreen (HP 150), HP Series 200, (all HP-IB)	3.3 ft. (1.0 m)	10833A	\$ 80.00 ea.
			6.6 ft. (2.0 m)	10833B	90.00 ea.
			13.2 ft. (4.0 m)	10833C	100.00 ea.
			1.6 ft. (0.5 m)	10833D	80.00 ea.








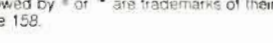
*Proxxback male and female RS232C (y-cable) supports eavesdrop mode.

Note: product names followed by * or ** are trademarks of their respective companies. For a complete listing, see page 158.

★For location of dealer nearest you, call: 800-FOR-HP-PC (800-367-4772).







Chart continues next page

Plotter cables (cont.)★

System		Description	Length	Part no.	Price
7470A Opt. 003 (HP-IL)		The PORTABLE (HP 110), HP 41, Series 70	1.6 ft. (0.5 m) 3.3 ft. (1.0 m) 16.7 ft. (5.0 m)	82167A 82167B 82167D	\$ 6.00 ea. 8.00 ea. 10.00 ea.
		Touchscreen (HP 150)	3.3 ft. (1.0 m)	17255D	\$ 40.00 ea.
		Texas Instruments® PRO, Wang	3.3 ft. (1.0 m)	17255F	\$ 40.00 ea.
7550A RS232C Stand-alone mode		IBM® PC, Kaypro®, Compaq™	3.3 ft. (1.0 m)	17355D	\$ 60.00 ea.
		Apple®, DEC PRO®, DEC Rainbow®, Osborne®, Zenith Z-100®	16.7 ft. (5.0 m)	17355D	\$ 60.00 ea.
		Touchscreen (HP 150)	3.3 ft. (1.0 m) 16.7 ft. (5.0 m)	17455A & 13242-60001	\$ 75.00 ea. 100.00 ea.
7550A RS232C Terminal mode (eavesdrop)					
					
		Touchscreen (HP 150), HP 85, 86B, 87, Series 200	3.3 ft. (1.0 m) 6.6 ft. (2.0 m) 13.2 ft. (4.0 m) 1.6 ft. (0.5 m)	10833A 10833B 10833C 10833D	\$ 80.00 ea. 90.00 ea. 100.00 ea. 80.00 ea.

Note: product names followed by ® or ™ are trademarks of their respective companies. For a complete listing, see page 158.

Terminal cables

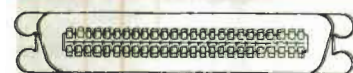
System		Description	Length	Original system cable no.	Order cable no.	Price
Modem cables		Connects HP 3000 to modem types 103 and 202S. Shielded.	25 ft. (7.6 m) 50 ft. (15 m)	(30062B) (30062B Opt. 001)	30062-60022 30062-60023	\$ 72.00 ea. 80.00 ea.
		Bypasses modem and connects 13232P to HP 1000, HP 3000 or another terminal. Unshielded.	5 ft. (1.5 m)	(13232U)	5061-2403	\$ 54.00 ea.
2392A		U.S./European modem cable	16.7 ft. (5 m)	40242M	40242-60004	\$ 95.00 ea.
		RS232C extender cable	16.7 ft. (5 m)	40242C	40242-60003	\$ 95.00 ea.
		RS232C direct connect to HP 3000 Series 44, 64, 68, and Series 37 systems with ATP interface.	16.7 ft. (5 m)	40242X	40242X	\$ 95.00 ea.
		RS232C direct connect, terminal to computer, protected against lightning-induced transients.	16.7 ft. (5 m)	40242Y	40242Y	\$ 95.00 ea.



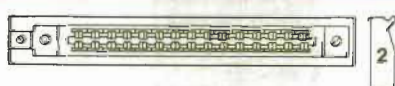
Identifies RFI Filter on cable

Chart continues next page

Connector diagrams



1 50-pin male (for 262X Terminals).



2 30-pin female (for 264X Terminals).
5 is a 48-pin connector, not shown.



3M (male) and 3F (female) standard 25-pin
RS232C connectors.



4M (male) and 4F (female) 14-pin multipoint
cable connectors.



6M (male) and 6F (female) 3-pin connectors for
HP 3000 Series 64/68 ATP RS422C interface.



8M/F (male/female) HP-IB connectors.



9M (male) and 9F (female) HP-IL
connectors.



10M (male) coaxial (video)
connector.



11M (male) and 11F (female) 36-
pin centronics-type connector.





















12M (male) and 12F (female) 9-pin sub-
miniature D connector.

Be sure to see the connector kits and cable guide on page 23.

†Same shape as 6M/F, but with 5 pins.





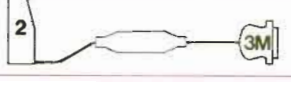


Terminal cables (cont.)

System		Description	Length	Original system cable no.	Order cable no.	Price
2392A		RFI filtering modem by-pass cable used with HP 12966 interface PCA.	16.7 ft. (5 m)	40242Z	40242-60002	\$ 95.00 ea.
		RS422 direct connect to HP 3000 Series 44, 64, 68, and 37 systems with ATP interface.	16.7 ft. (5 m)	40242P	40242P	\$ 95.00 ea.
		Centronics-type interface cable to parallel printer such as 2225C.	3.3 ft. (1 m)	40242D	40242D	\$ 95.00 ea.
		RS232C interface cable to serial printer such as 2601, 2602, 2631, 2686A.	16.7 ft. (5 m)	40242G	40242G	\$ 95.00 ea.
262X (port 1) HP 125 (port 1) (Not for 2621 or 2382A)		U.S. modems 103A, 202C/D/S/T, 212A, Vadic 3400 signal-compatible acoustic couplers. Also HP 1000 & 3000 System multiplexers.	16.7 ft. (5 m) 50 ft. (15 m)	(13222N) —	13222-60001 92217A	\$ 95.00 ea. 110.00 ea.
		European 103- or 202C-type modems. Shielded.	16.7 ft. (5 m) 50 ft. (15 m)	(13222M) —	13222-60002 92217B	\$ 95.00 ea. 110.00 ea.
		Standard RS232C communications.	6.6 ft. (2 m) 50 ft. (15 m)	(13222C) —	13222-60003 92217C	\$ 95.00 ea. 100.00 ea.
		3-wire cable with EMP protection for terminal from lightning-induced transients.	16.7 ft. (5 m) 50 ft. (15 m)	(13222Y) —	13222-60005 92217D	\$ 95.00 ea. 110.00 ea.
		RS232C interface cable for HP 3000/64 ATP.	16.7 ft. (5 m)	(13222X)	92217E	\$ 95.00 ea.
262X (port 2) 2621 2382A HP 125 (port 2) HP 120 Touchscreen (HP 150)		HP 1000, 3000 Systems; U.S. modems 103A, 202C/D/S/T, 212A, Vadic 3400 modems; acoustic couplers (signal compatible only). Shielded.	16.7 ft. (5 m) 50 ft. (15 m)	(13242N) —	13242-60001 92218A	\$100.00 ea. 110.00 ea.
		European 202C-type modems. Shielded.	16.7 ft. (5 m) 50 ft. (15 m)	(13242M) —	13242-60002 92218B	\$100.00 ea. 122.00 ea.
		3-wire cable with EMP protection for terminal from lightning-induced transients.	16.7 ft. (5 m) 50 ft. (15 m)	(13242Y) —	13242-60005 92218C	\$ 95.00 ea. 140.00 ea.
		RS232C interface cable for HP 3000/64 ATP.	16.7 ft. (5 m)	(13242X)	92218D	\$ 80.00 ea.
		RS232C-compatible serial printer such as 2601/2631/2635. Shielded.	16.7 ft. (5 m)	(13242G)	13242-60010	\$ 69.00 ea.
		RS232C-compatible serial printers. Shielded.	16.7 ft. (5 m)	(13242H)	13242-60011	\$ 95.00 ea.
		RFI-filtering modem bypass cable for 2621B and 2629L terminals.	16.7 ft. (5 m)	(40242Z)	40242-60002	\$ 95.00 ea.
		RFI-filtering extender cable for 2621B and 2629L terminals.	16.7 ft. (5 m)	(40242C)	40242-60003	\$ 95.00 ea.
		RFI-filtering modem cable for 2621B and 2629L terminals.	16.7 ft. (5 m)	(40242M)	40242-60004	\$ 95.00 ea.
2625 (port 1) 2628 (port 1)		RS422 cable for connecting 262X terminals to HP 3000 systems. Series 44, 48, 64, 68, with an ATP interface.	15.0 ft. (4.5 m)	13242P	13242P	\$ 79.00 ea.
		Multipoint daisy chain cable for connecting 2625A or 2628A terminals into a multipoint environment.	15.0 ft. (4.5 m)	13242Q	13242Q	\$ 79.00 ea.
		First multipoint synchronous cable with receive clock for 2625A and 2628A terminals. For connecting the first terminal in a daisy-chained group of multipoint terminals to the modem or computer. For applications in which the terminal provides the receive clock.	100.0 ft. (30.0 m)	13242R	13242R	\$ 79.00 ea.

 Identifies RFI Filter on cable

Chart continues next page

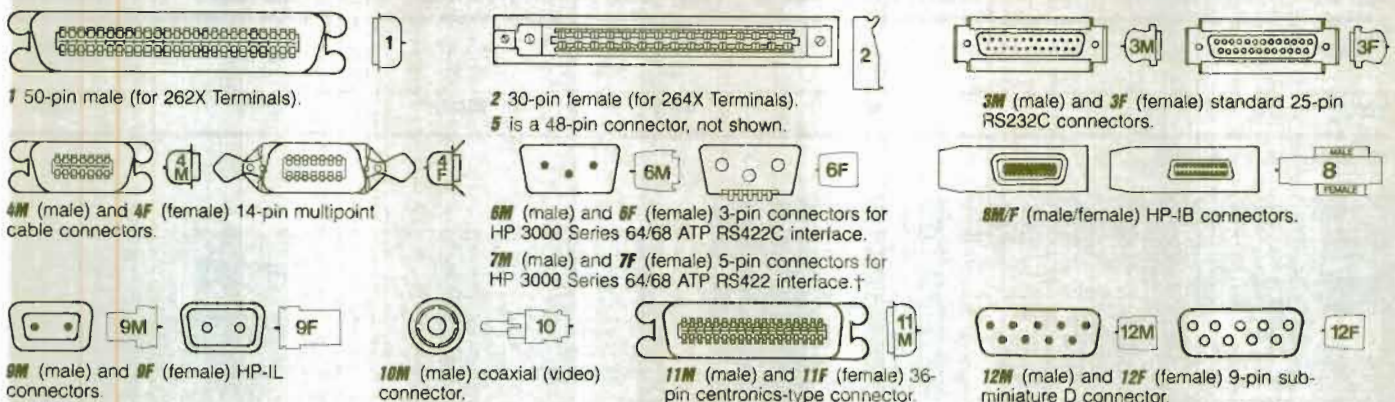
Terminal cables (cont.)

System		Description	Length	Original system cable no.	Order cable no.	Price
2625 (port 1) 2628 (port 1)		First multipoint synchronous cable without receive clock for use with 2625A and 2628A terminals. Connects the first terminal in a daisy-chained group of multipoint terminals to the modem or computer. For applications in which the modem or computer provides the receive clock.	6.0 ft. (1.8 m)	13242S	13242S	\$ 79.00 ea.
		First multipoint asynchronous cable for use with 2625A or 2628A terminals. Connects the first terminal in a daisy-chained group of multipoint asynchronous terminals to the modem or computer.	30.0 ft. (9.0 m)	13242T	13242T	\$ 79.00 ea.
264X		U.S. modems 103A, 202C/D/S/T; signal-compatible acoustic couplers. Also HP 1000, 2000 & 3000 System multiplexers.	15 ft. (4.5 m) 50 ft. (15 m)	(13232A) —	02640-60043 92219A	\$ 54.00 ea. 110.00 ea.
		U.S. modems 103A, 202C/D/S/T, 212A, Vadic 3400; signal-compatible acoustic couplers. Also HP 1000 & 3000 System multiplexers.	15 ft. (4.5 m) 50 ft. (15 m)	(13232N) —	02640-60131 92219B	\$ 90.00 ea. 125.00 ea.
		European 202C-type modems.	15 ft. (4.5 m) 50 ft. (15 m)	(13232M) —	5061-2409 92219C	\$ 90.00 ea. 122.00 ea.
		HP 1000/21MX computers with HP 12531D or 12880A Interfaces.	50 ft. (15 m)	(13232B)	02640-60058	\$105.00 ea.
		Standard Async D.C. to non-HP computer.	5 ft. (1.5 m) 50 ft. (15 m)	(13232C) —	02640-60059 92219D	\$ 54.00 ea. 110.00 ea.
		3-wire cable with EMP protection for terminal from lightning-induced transients.	15 ft. (4.5 m) 50 ft. (15 m)	(13232Y) —	02640-60218 92219E	\$ 75.00 ea. 120.00 ea.
		RS232C interface cable for HP 3000/64 ATP.	16.7 ft. (5 m)	(13232X)	92219F	\$ 80.00 ea.
Multi-point 1st terminal		U.S. Modems 103A, 202C/D/S/T; signal-compatible acoustic couplers. Also HP 1000, 2000 & 3000 multiplexers.	15 ft. (4.5 m)	(13232P)	02640-60132	\$120.00 ea.
		To 2nd HP 264X terminal.	15 ft. (4.5 m)			

 identifies RFI Filter on cable

Chart continues next page

Connector diagrams



Terminal cables (cont.)

System		Description	Length	Original system cable no.	Order cable no.	Price
Multi-point 2nd + terminals		Preceding 264X terminal.	15 ft. (4.5 m)	(13232Q)	02640-60133	\$125.00 ea.
		Next 264X terminal (or open). Power protect cable. If power fails on terminal to which connected, the terminals which follow can still operate.	15 ft. (4.5 m)	(13232T)	02640-60151	\$200.00 ea.
		Preceding 264X terminal.				
		Next 264X terminal.				
		Multi-point extension cable.	100 ft. (30 m)	(13232R)	02640-60134	\$125.00 ea.
			250 ft. (76 m)	—	92220A	290.00 ea.
			500 ft. (152 m)	—	92220B	515.00 ea.
			1000 ft. (305 m)	—	92220C	910.00 ea.

2* modified connector to include power protect relays on **02640-60151** only.

RS422 cables

System		Description	Length	Original system cable no.	Order cable no.	Price
2687A		ATP cable	16 ft. (5 m)	92216C	92216C	\$ 60.00 ea.
Extension cable		Extender cable for connecting HP 3000/64/68 ATP and RS422 interface cable.	100 ft. (30 m)	(30154A)	30154-60001	\$205.00 ea.
262X Terminals		5-wire cable for terminal to HP 3000/64/68 ATP, RS422	16 ft. (5 m)	(13222P)	92216A	\$ 95.00 ea.
264X		5-wire cable for terminal to HP 3000/64/68 ATP, RS422	16 ft. (5 m)	(13232I)	92216B	\$ 80.00 ea.
2392A Terminals		RS422 direct connect to HP 3000 Series 44, 64, 68 and 37 systems with ATP interface.	16.7 ft. (5 m)	40242P	40242P	\$ 95.00 ea.

Identifies RFI Filter on cable

Power cords

Power cords

Part no.	8120-1348 Black \$7.50 8120-1378 Gray \$6.75	8120-1351*	8120-1369*	8120-1689*	8120-2104*
Plug					
Voltage rating	125V	250V	250V	250V	250V

*Order from HP sales office.

CALL US WITH YOUR PURCHASE ORDERS AND



Maximum cabling distances

To ensure proper performance, be sure to consult the manual/s for equipment you are connecting via cable. Check closely the specification for maximum cable length.

Do-it-yourself cabling

Connector kits and cables

We offer unterminated cables and connector kits so you can custom fit your installations. Use this guide to match the cables and connectors described below.

Illustration (page 21)	Description	Connector kit	Raw cable
1	For 262X Terminal (port 1) (except 2621B)	5061-2412	92179A/B
2	For 264X Terminal	5061-1340	92179A/B
3M	Universal RS232C	92178A/C	92179A/B
3F	Universal RS232C	92178B/C	92179A/B
4M, 4F	Multipoint connectors for 264X	5061-2401	92179A/B
5	No kit available		
6M	3000-series 64/68 ATP for RS232C	92224A ¹	92179C/D
6F	3000-series 64/68 ATP for RS232C	92224B ¹	92179C/D
7M	3000-series 64/68 ATP for RS422	92225A ¹	92179C/D
7F	3000-series 64/68 ATP for RS422	92225B ¹	92179C/D
BNC, male	For HP-IB extenders	92226A	92179G
12m	For 3081 to 92922A or 40253A	5061-3858	92179H

1) Requires 92229A crimp tool for assembly.



92229A Crimp tool for ATP connectors. This precision-machined hand crimp tool is needed to crimp the RF shield included in the 92224A/B and 92225A/B connector kits to the cable shield. A safety release is located inside the handle.

Price \$290.00 ea.

Connector kits

Each kit contains all parts necessary for a complete assembly.

Illustration (See page 21)	Description	No. of male connectors	No. of female connectors	No. of pins	Part no.	Price
3M	RS232C	2	—	25	92178A	1-4 \$22.00 ea.
3F	RS232C	—	2	25	92178B	5-9 \$20.00 ea.
3M/3F	RS232C	1	1	25	92178C	10+ \$18.00 ea.
2	For 264X Terminals	—	1	30	5061-1340	\$14.00 ea.
4M/4F	Multipoint connectors for 264X Terminal	1	1	14	5061-2401	\$14.00 ea.
1	For 262X port 1 (except 2621B)	1	—	50	5061-2412	\$ 7.50 ea.
6M	3000-series 64/68 ATP RS232C	4	—	3	92224A ¹	1 Kit \$52.00 ea.
6F	3000-series 64/68 ATP RS232C	—	4	3	92224B ¹	2-3 \$46.00 ea.
						4+ \$42.00 ea.
7M	3000-series 64/68 ATP RS422	4	—	5	92225A ¹	1 Kit \$56.00 ea.
7F	3000-series 64/68 ATP RS422	—	4	5	92225B ¹	2-3 \$50.00 ea.
						4+ \$46.00 ea.
BNC, male	For HB-IB extenders	1	—	1 (coaxial)	92226A	\$ 5.00 ea.
12m	For 3081 to 92922A or 40253A	1	—	9	5061-3858	\$75.00 ea.

1) Requires 92229A crimp tool for assembly.

Unterminated cables

Please specify lengths in meters.

Shielded	Unshielded	No. of wires	Gauge	Part no.	Min. order	Max. cont.* length	Price per meter
	X	12	22	92179A	10 m	400 m	10-19 m \$2.70/m 20-99 m \$2.35/m 100+ \$2.10/m
	X	25	26	92179B	10 m	400 m	10-19 m \$4.10/m 20-99 m \$3.65/m 100+ \$3.25/m
X		3	24	92179C	30 m	300 m	30-99 \$1.20/m 100+ \$.85/m
X		5	24	92179D	30 m	300 m	30-99 \$1.50/m 100+ \$1.13/m
X		1 (coaxial)	18	92179G	100 m	1000 m	\$0.79/m
	X	4	20/22	92179H	50 m	1000 m	\$1.00/m

*Longer continuous lengths are available on special order. Delivery time may be increased.



Power line conditioners—why your system may need one

Why do I need a power line conditioner?

The technology of delivering electrical energy to you was developed prior to the advent of the 1980 computer systems (some as long as 40 years ago).

Your electrical utility was established to provide power for existing devices, such as lights and motors. And frankly, they do an excellent job. Most electric companies provide AC power that far exceeds established quality standards. But what is good enough for a light bulb or a motor is not adequate for today's high-speed computer electronics.

What is so special about modern electronic circuitry?

Electricity travels at an almost unbelievable speed. Yet, designers continuously seek additional ways to increase the working speed of computers. One alternative is to shorten the path the electricity has to travel. Another is to make the circuitry sensitive to very small changes in the electricity flow. Consequently, sudden changes in the power line will influence the logic within your computer.

If this is true, why isn't protection designed in?

Simply because electrical environments differ widely from one place to another. In some places, your computer will operate reliably year after year—in another place, power line conditioning is necessary. These places can be separated by half a world or half a block! Some areas have weather disturbances, such as lightning, which cause anomalies. Others have man-made disturbances, such as electrical motors and utility switching relays.

It is virtually impossible to design against all these influences—especially if computer manufacturers wish to bring their customers the best computing power at the best possible price. Building total power line protection into all computers is like forcing every person in the world to buy skis—even if they live in the Sahara Desert! Hewlett-Packard, therefore, makes power conditioning available on an "as needed" basis: If you don't need it, you don't pay for it; if you do need it, it is available.

Can I watch my system and determine if I need conditioning?

Probably not! You can get an indication that something is wrong by observing your system, but erratic behavior can be caused by many factors. Static electricity, for example, is very destructive to computers.

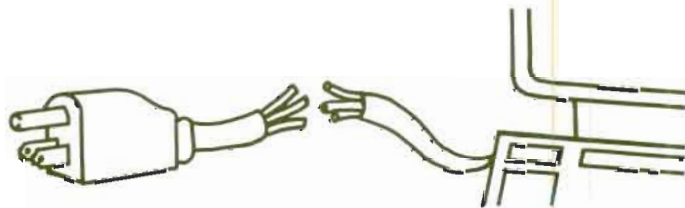
More often the system will exhibit behavior that is more frustrating than catastrophic: a momentarily stuck cursor, garbled printouts, ignored commands. The system may correct itself but after a few of these incidents, you will probably question your wisdom in selecting that particular system. This is understandable but not correct.

How do I know if I need conditioning?

The best way is to ask your HP service engineer. They can analyze your power situation and recommend the best way to proceed.

There are so many types of conditioners. Which should I choose?

It is confusing. However, before we investigate the different choices, let's look at one of the many concepts which must be understood before we can discuss power conditioning intelligently: Normal mode versus common mode. Typically, the power line consists of three wires:



The terminology varies, but in essence two wires carry the AC power and the third wire is connected to ground. Not only is the ground reference essential to your computer's logic circuitry, but the National Electric Code requires this ground reference in order to protect people. Yet, many power conditioner manufacturers virtually disregard this wire!

The term voltage describes the difference in electrical potential (measured in volts) between two points. The difference between the two AC power carrying wires is called normal mode voltage; the difference between any one of these two wires and ground is called common mode voltage.

Since we have established that all three are important, the first question to ask when considering power line conditioners is: Does the power conditioner protect both in normal mode and common mode? HP conditioners do.

Makes sense, but there are still many different types available!

Yes, typical types of line conditioning devices are Surge Suppressors, Isolation Transformers, Tap Switchers, and Ferro-Resonant devices. These can be further divided into regulating and non-regulating devices. A regulating device typically maintains a constant output with a changing line input. Non-regulating devices typically do not adjust for a changing line input. Tap switchers and Ferro-Resonant devices are typically line regulation devices. The HP line conditioners do not regulate for changing line input, but do maintain a constant output with varying loads.

The specification for HP units is that output voltage (RMS) will change no more than plus or minus 2 percent for any resistive load from 10 percent to 100 percent of fully rated load. The unit will respond to a 50 percent change in load current within 2 milliseconds. Furthermore, no voltage overshoot or undershoot will result from load change.

Are there other considerations?

A major consideration is that the conditioner carry a safety approval by a recognized laboratory, such as UL in the U.S. and CSA in Canada.

Another major consideration is reliability. Some components, especially some voltage-clamping devices, exhibit recognized aging characteristics, so that a finite life can be predicted. This aging depends heavily upon how often a voltage spike occurs and how large it is. It is therefore impossible to calculate when the component will begin to fade and provide decreased protection. HP conditioners are warranted for five years.

What is IEEE Standard 587?

This is a guide published by the International Society of Electrical and Electronic Engineers in 1980. It describes the nature of transient over-voltages as they can occur in normal power.

One important fact to keep in mind is this: HP conditioners comply with IEEE-587. This means the power conditioner will not be destroyed by the recommended test, and it will continue to protect the computer! And protection is what you are paying for.

How do I know which size to choose?

It's easy. Each conditioner size is expressed in KVA (1000 Volt Amperes). Look at the rear label on your equipment to determine which size conditioner you need. It may be necessary to convert Amperes to 1000 Volt Amperes. Let's take an example:

	On label	Conversion	KVA
Computer	3A	$3A \times 120V^* = 360VA$	0.36
Disc	2A	$2A \times 120V^* = 240VA$	0.24
Printer	2A	$2A \times 120V^* = 240VA$	0.24
Total KVA			0.84

*These are 120V, 50/60 Hz, single phase units

A conditioner must be able to handle the entire load, so select the closest unit upwards. In this case it would be the 92199N at 1.0 KVA.

What do I do if the conditioner fails to work?

Unlike many other conditioners, the 92199 Series conditioners have no semiconductors in the power path, no fans to fail, no filters to clog, and no adjustments to be misaligned. Therefore, they are extremely reliable.

If they refuse to work, the most likely problem is the built-in fuse—either a common fuse or a specially designed protective link for the larger units. Check your instruction manual for the correct part. The protective link is available from Hewlett-Packard as part number **92199X** at \$55.

In the unlikely event that replacement of the fuse does not correct the problem, the conditioner is covered under a one-year warranty. Just return the unit to the address in your instruction manual.

HP power line conditioners offer:

- **Power line protection**
HP power line conditioners will meet the IEEE-587 testing guidelines (6000 volts with 200 Amperes) and continue working.
Also, HP power line conditioners operate independent of the quality of ground reference to eliminate high frequency disturbance (noise) in the power ground wire.
- **Safety**
All HP power line conditioners are listed by UL in the U.S. and CSA in Canada.
- **Efficiency**
Starting a disc drive or charging the power supply of an information processing system requires more current in the first few seconds than needed for normal operation. As an example, starting a disc drive may require 50 Amperes. Yet, the normal operation may need only 8 Amperes.
To meet this current differential with most power conditioners you must specify—and pay for—a substantially larger device just to start your equipment than you need to keep it running.
This oversizing is *not* necessary with HP power conditioners because they have an inrush capacity 10 times their power rating.
- **Reliability**
HP power line conditioners are designed for long-term, trouble-free performance. There are no adjustments to be set improperly.
These units run cool because of their efficiency: Less than 10 percent of the energy is lost as heat. Consequently, there are no fans, which can fail and cause the unit to overheat. And there is no filter, which requires periodic cleaning.

Power line conditioners

Model no.	Input voltage	KVA	Dimensions	Shipping weight	Input connector	Outlet connector	Price
92199K	120	0.2	4.44 in. H x 4.64 in. W x 6.41 in. D	9 lbs.	5 - 15P	2 (5-15R)	\$285.00 ea.
92199L	120	0.5	5 in. H x 6 in. W x 7 in. D	14 lbs.	5 - 15P	4 (5-15R)	\$450.00 ea.
92199N	120	1.0	5.7 in. H x 8.5 in. W x 15.75 in. D	37 lbs.	5 - 15P	4 (5-15R)	\$950.00 ea.
92199Q	120	2.0	8.12 in. H x 9 in. W x 17.87 in. D	71 lbs.	5 - 20P	6 (5-15R)	\$1600.00 ea.
92199R*	120	2.8	10.5 in. H x 10.25 in. W x 18 in. D	93 lbs.	L5 - 30P	6 (5-15R)	\$2100.00 ea.
92199T*	120	4.8	10.5 in. H x 10.25 in. W x 18 in. D	115 lbs.	5 - 50P	6 (5-15R)	\$3100.00 ea.

Key to connectors

5-15R



5-15P



5-20P



L5-30P



5-50P



*Ship by truck.



★ **Buy these products at your local HP dealer.**
Or order direct: 800-538-8787 (CA 408-738-4133).



Cable accessories

Out of sight—out of mind

Tired of tangled cables? Worried about expensive equipment accidentally being pulled to the floor? Frustrated when cables invade your workspace? Then tame your cables with HP's new Cable Management Kit.

Each kit contains a 6-foot (1.8 m) flexible plastic tube, which is slit to provide convenient cable entrance and exit. Also included are five snap-together straps that can be used to attach the tube to any clean, nonporous surface. Velcro-like squares allow the straps to be mounted on a wall, desk, under a bookcase or other convenient location.

The tube is 1 inch in diameter so that several cables can be routed together; if data transmission problems occur, remove the power cord(s) and route separately.

92199F \$23.00



Protect your people and your equipment

Use these handy cable covers to eliminate costly accidents. These covers are made of long-lasting, flexible vinyl and come complete with double-faced adhesive tape for quick installation.

The 15-foot (4.8m) lengths can be trimmed to size with a sharp knife or butted for longer lengths. Beige or brown colors will match your office decor. The pre-slit channel accepts a cable up to .44 in. (7/16 in) (11mm) diameter.

92199C Beige, 15-foot (4.8m) roll

92199D Brown, 15-foot (4.8m) roll

(1-4) \$32.00 ea.

(5-9) 30.00 ea.

(10+) 28.00 ea.

Note: HP does not recommend placing a power cord and a data communications cable in the same channel.

May be permanently attached using epoxy cement.

Organize power cords for convenience and safety

For your convenience, HP now offers two U.S. power strips. Both cases are made of seamless steel with a baked-on finish for durability.

Mounting hardware is provided with both, and each features a 6-foot (1.8m) power cord with molded U.S. connector.

Electrical rating: 15A, 125 VAC, 60 Hz, 1875 W. continuous duty.

Price	92199A	92199B
(1-4 power strips)	\$35.00 ea.	\$36.00 ea.
(5-9)	\$32.00 ea.	\$33.00 ea.
(10+)	\$30.00 ea.	\$31.00 ea.

Multiple outlet strip comparison

	92199A	92199B
Suggested use	Office/Home	92211R or other system rack
Electrical approval	UL	UL/CSA
Number of outlets	6	5
Master switch	Yes	No
Grounding	"U" duplex	Individual "U"
Color	Beige	HP Pearl Gray
Length	12 in. (305 mm)	8.75 in. (222 mm)
Width	2.5 in. (64 mm)	2 in. (51 mm)
Height	1 in. (25 mm)	1.5 in. (38 mm)



92199A Multiple outlet strip



92199B Multiple outlet strip

We ship within 24 hours
JUST GIVE US A CALL
800-538-8787

California 408-738-4133

Maximum cabling distances

To ensure proper performance, be sure to consult the manuals for equipment you are connecting via cable. Check closely the specification for maximum cable length.

★ For location of dealer nearest you, call: 800-FOR-HP (800-367-4772).

HANDHELD CALCULATORS & COMPUTERS

27



HP-IL products page 34



Series 40 advanced programmable calculators page 30

HP-97A programmable desktop calculator supplies .. page 33



Series 70 handheld computers page 36



Series 10 professional calculators .. page 28



Series 10 Professional Calculators

HP's SLIM-LINE Series 10 Professional Calculators—all the necessary computing power, in a pocket-sized package.



HP-12C Advanced Programmable Financial Calculator for professionals and students in business, finance, and real estate.

The HP-12C saves you time! Solve simple and compound interest problems with a few short key strokes. Or quickly calculate amortization schedules, discounted cash flows, bond prices and yields, depreciation schedules and trend analyses. Determining contract and option expiration dates also takes only seconds. Just enter two dates, press a single key and wait for the number of intervening days to appear.

Track uneven discounted cash flows. Rely on built-in net present value (NPV) and internal rate of return (IRR) functions to accurately determine the state of your investment.

Price and market analyses—the easy way. Three percentage functions simplify your calculations for markups, margins, growth rates and market share.

Calculate depreciation three ways. Straight-line, sum-of-the-years' digits, or declining balance—you choose the method!

Mathematics functions and programmability. Your HP-12C can also find reciprocals, square roots, logarithms or exponentials at the touch of a key. 99 program lines available.

Price \$120.00 ea.



HP-16C Advanced Programmable Calculator for computer scientists. The HP-16C is just the tool to help free you of many laborious number-crunching activities.

Convert number bases, instantly. Press a key and your 16C converts numbers into one of four number bases: binary, octal, decimal, hexadecimal. You can even perform arithmetic in any of the four bases. The HP-16C also provides three different representations of negative numbers: one's complement, two's complement and unsigned.

Quick and easy bit juggling. Another advantage of the HP-16C is the shift-bit and rotate-bit functions that stimulate the multiplication and division operations in a microprocessor.

Boolean-fast logic. Operators AND, OR and XOR compare bits in corresponding positions of two numbers. The NOT operator automatically inverts the value of bits in the binary quantity.

Sophisticated programmability lightens your load. The HP-16C can hold 203 program lines or 101 16-bit data storage registers. The insert/delete editing keys help you debug your programs.

Four-function arithmetic too! Not only is your HP-16C a microprocessor simulator, but it also performs ordinary calculator arithmetic.

Price \$120.00

Handbooks for your HP-12C



00012-90009 HP-12C Solutions handbook .. *Reduced Price* \$15.00 ea.

92233F HP-12C Quick Reference Guide 6.95 ea.

00012-90015 HP-12C Real estate handbook 15.00 ea.

00012-90021 HP-12C Leasing applications
handbook 15.00 ea.

00012-90022 HP-12C Training Guide 15.00 ea.

Be sure to see *An Easy Course in Using the HP-12C*,
page 144.

★ For location of dealer nearest you, call: 800-FOR-HPPC (800-367-4772).



Leather calculator cases

You and your Series 10 Professional Calculator deserve the finest in leather calculator cases. Crafted of rich cowhide, each of these cases has a soft leather lining and is designed to fit easily into your pocket or briefcase.

92169A Black leather case \$15.00 ea.

92169B Brown leather case 15.00 ea.

92169C Burgundy leather case 15.00 ea.

82174A Soft vinyl replacement case 5.00 ea.



HP-11C Advanced Programmable Scientific Calculator

provides a comprehensive package of advanced tools and built-in functions to solve your day-to-day problems in science and engineering.

Programming features simplify repetitive calculations. Cut through repetitive calculations with programming tools such as: conditional tests, flags, branching, controlled looping, user-definable keys and program labels. You can take advantage of up to 203 program lines, and memory can be allocated between 63 program lines and 20 data registers. Other editing features let you review your program one line at a time.

Solve problems with the extensive function set. Find the answers you need to trigonometric problems, hyperbolics, inverses, logarithms, exponentials, factorials, gamma functions and probability functions by simply pressing a key. Your HP-11C can also make conversions between degrees and radians or between rectangular and polar coordinates.

Price \$75.00

HP-15C Advanced Programmable Scientific Calculator

with special functions. You get fast results for advanced mathematical calculations with the technically sophisticated HP-15C.

An array of matrix calculations. Store and recall up to five matrices in the HP-15C's memory. You can perform operations such as addition, subtraction, multiplication, inversion, transposition and more.

Complex functions—the real and the imaginary. Handle complex numbers as easily as real numbers with the HP-15C's complex mode. Two parallel stacks, one for the real part and the other for the imaginary part of a complex number, let you perform operations on the contents of both stacks.

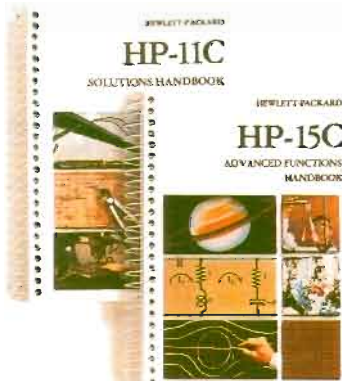
Getting to the root of an equation. Use the SOLVE key to find the real roots of an equation, instead of plodding through algebraic manipulations by hand.

Streamline numerical integration. To calculate the integral of a function, enter the equation, and the limits of integration. Your HP-15C solves the problem effortlessly.

Advanced programming capability? Of course! Your HP-15C offers 67 storage registers that you can allocate to a maximum of 448 program lines as needed.

Price \$120.00

Handbooks for your HP-11C and HP-15C



00011-90009 HP-11C Solutions handbook *Reduced Price!* \$15.00 ea.

00015-90011 HP-15C Advanced functions handbook *Reduced Price!* 15.00 ea.

NEW Be sure to see *An Easy Course in Programming Your HP-11C & 15C*, page 144.



Desktop calculator stand

Keep sight of your Series 10 Calculator with the help of this sturdy smoked acrylic stand. The 92177S holds your professional calculator at just the right angle for easy display reading and efficient data entry. The stand size is 5.5 inches (140mm) wide x 4.5 inches (114mm) deep and has rubber feet for firm footing on any work surface.

92177S

(1-2) \$15.00 ea.
(3-5) 14.00 ea.
(6+) 12.50 ea.

Series 40 Advanced Programmable Calculators

Series 40 Advanced Programmable Calculators come in two varieties tailored to meet individual needs. The HP-41CV has 2233 bytes of built-in memory. The HP-41CX combines the extra memory of the HP-41CV with improved text file capabilities and also features built-in extended function and timer modules. With memory modules, both models are expandable to 6,433 bytes.

They speak your language

With HP-41 Advanced Programmable Calculators you can communicate in friendly words or in numbers. Alphanumeric capability lets you name and label programs, functions and even results. And it can prompt you for data with words and phrases. Status annunciators indicate mode conditions. Messages pinpoint calculation errors and 10 different tones let you aurally keep track of your operations.



Customize to suit your needs. Almost any key can be assigned an operation from the HP-41's large function library, an application module, or a program you've written. In normal mode, the standard HP-41 keyboard is functional. User mode lets you modify the keyboard, with new assignments you indicate on a keyboard overlay.

Enhanced programmability. You don't have to learn a complicated language to use the HP-41. Just enter the keystrokes as you would enter them on a calculator. Alphanumeric capability lets you label programs with easy-to-remember names. Each program is autonomous, and each can have up to 100 different local labels for branching within a program. The HP-41 also features up to six levels of subroutines, 10 conditional tests, 56 internal flags, powerful loop control, indirect addressing and both local and global branching.

Simple, logical, effective RPN. The HP-41's RPN logic system economizes programming time and the amount of program memory occupied. And it's easy to use. You only work with one or two numbers at a time and see intermediate results.

Continuous memory saves everything. Continuous memory preserves everything from stored data to user-defined keyboard assignments, even though your computer is turned off. You enter frequently needed calculations once, then perform them as often as necessary without having to re-enter your program.

Crystal-clear display. Glare won't be a problem for you with the HP-41's easy-to-read, liquid crystal display. And its low-power operation minimizes battery drain.

★ For location of dealer nearest you, call: 800-FOR-HPCC (800-367-4772).



Series 40 Advanced Programmable Calculators come complete with:

- HP-41 Owner's Handbook
- Rugged, pliable carrying case
- Four type N batteries
- Overlay packet
- HP-41 Quick reference card
- Users' Library subscription form

Be sure to see *An Easy Course in Programming the HP-41*, page 144.

HP-41CV Advanced Programmable Calculator

With 5X memory.

Price \$225.00 ea.

HP-41CX Advanced Programmable Calculator

With timer, extended and text file functions.

Price \$325.00 ea.

Be sure to see our wide selection of Series 40 accessories and software, page 32.

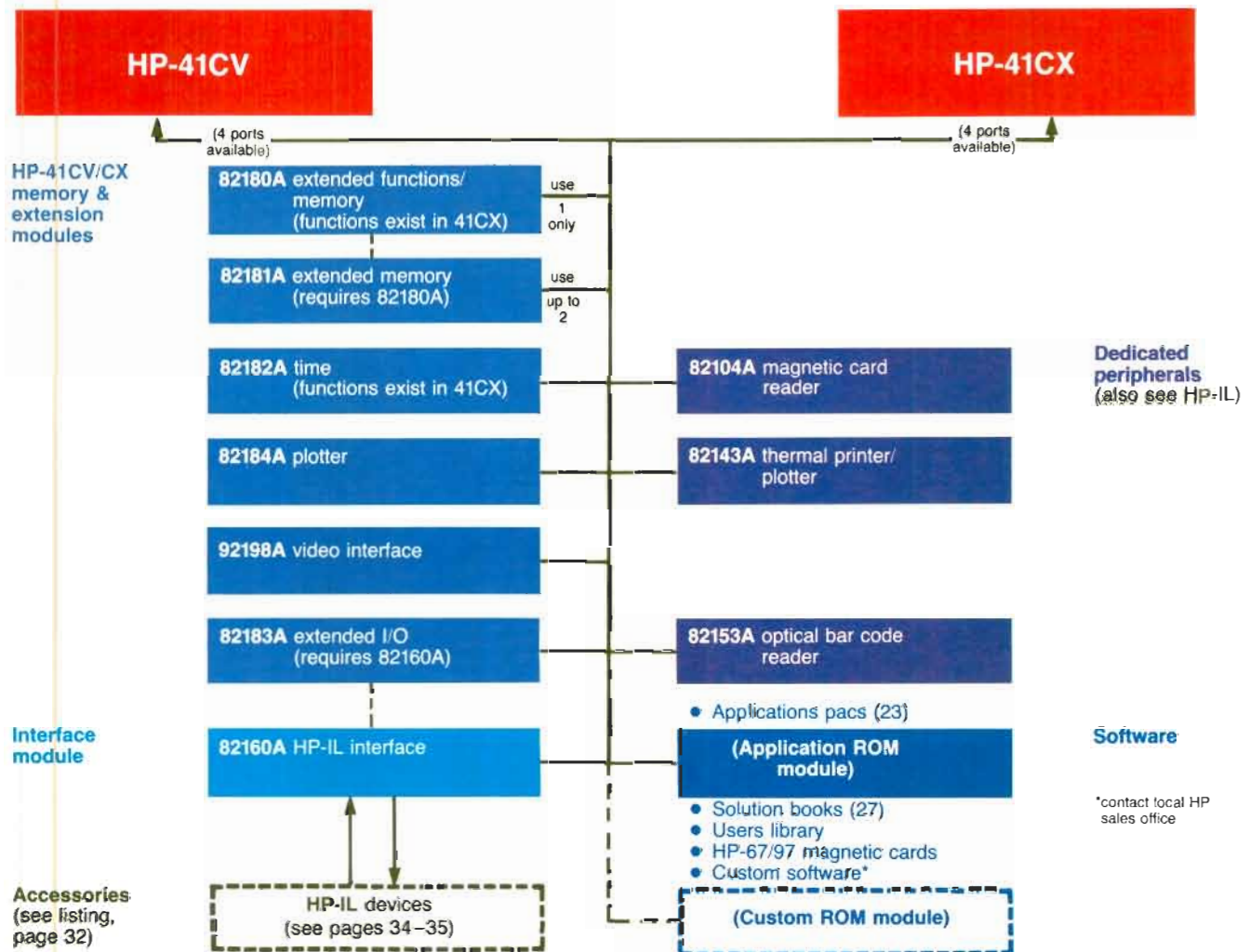
We ship within 24 hours

JUST GIVE US A CALL
800-538-8787

California 408-738-4133

Series 40 products/configuration

The diagram below suggests the great versatility possible with various modules and peripherals which may be plugged into any of four ports on every Series 40 Calculator. Size: 3.1 x .71 x .33 inches. (79 x 18 x 8.4mm)



Dedicated peripherals for Series 40 Computers

Also see HP-IL peripherals on page 34.

82104A Magnetic card reader.

The HP 82104A stores your programs and information on small magnetic cards, giving you an inexpensive and time-saving method for making frequent program modifications and for developing and changing software. 20 mag cards included.

Price \$195.00 ea.

82143A Thermal Printer/Plotter.

This portable, battery-operated thermal printer is a valuable aid in editing programs, checking long calculations, and presenting results in graphic form. The HP 82143A gives you upper- and lowercase alpha with double-wide characters, and it lets you define your own "special" characters. It also gives you plotting capability and intensity control,

so you get optimum contrast and readability.

(Uses same supplies & accessories as HP-IL Printer/Plotter 82162A; see pages 34-35.)

Price \$335.00 ea.

82153A Optical wand.

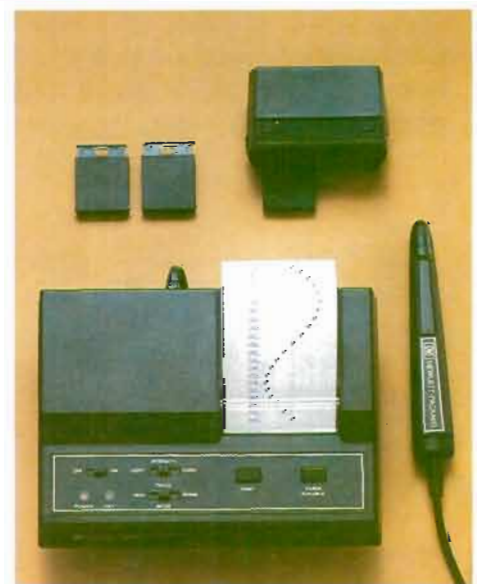
Using your advanced calculator is even quicker and easier with the wand.

Plugged into the HP-41, the wand reads bar code, a convenient and inexpensive means of loading programs and information. Much of Series 40 software is available in bar code, including Users' Library programs and solution books.

Because of their special capabilities, application pac functions are not available in bar code.

Price \$125.00 ea.

★ For location of dealer nearest you, call: AND FOR HPAC (800-367-4772)



Series 40 (cont.)

Series 40 memory, extension & interface modules

82160A HP-IL interface module (Series 40). Allows you to use the HP-IL devices listed on pages 34–35.

Price \$125.00 ea.

82180A Extended functions/memory modules. Adds 889 bytes extended memory and memory management functions; also programmable assign, string functions. (Functions exist in 41CX.)

Price \$75.00 ea.

82181A Extended memory module. Adds 1666 bytes on 238 data registers; use up to two of these modules. 82180A (see above) is required when using an HP41C or HP41CV.

Price \$75.00 ea.

82182A Time module. Expand your HP-41 with time information and time-controlled operations. Clock functions. (Functions exist in 41CX.)

Price \$75.00 ea.

82183A Extended I/O module. Adds flexibility for accessing mass memory device files, and more general I/O capabilities. Requires 82160A.

Price \$75.00 ea.

82184A Plotter module. Adds bar code generation and plotting capabilities.

Price \$75.00 ea.

Series 40 accessories

00097-13143 120 Blank program cards without holders for 82104A card reader \$50.00 ea.

00097-13206 1000 Blank program cards without holders—for 82104A card reader \$250.00 ea.

00097-13142 Three program card holders for 82104A card reader \$15.00 ea.

82044A Security cable for 82143A, 82161A, 82162A \$20.00 ea.

82045A Blue-printing thermal paper for 82143A and 82162A.

Box of six rolls \$10.00 box
2.25 in. (57 mm)

82175A Black-printing thermal paper for 82143A and 82162A.

Box of six rolls \$10.00 box
60 ft. (24 m) roll

82172A 50 Blank overlays \$55.00 ea.

82151A Package of two module holders \$7.50 ea.

82152A Five blank key overlays \$10.00 ea.

92198A HP-IL 80-column interface provides full-screen display of 80 columns by 24 lines. See page 34 for details \$325.00 ea.

82200A HP-41 touchpad \$20.00 ea.

82059D AC adapter/recharger for 82120A, 82143A, 82161A, 82162A, 82163A, 82164A, 82165A, 82168A, 82169A—110 Vac \$20.00 ea.

82066B AC adapter/recharger for 82120A, 82143A, 82161A, 82162A, 82163A, 82164A, 82165A, 82168A, 82169A—Euro. 220 Vac \$25.00 ea.

82111A Soft case holds HP-41 plus card reader 82104A \$10.00 ea.

82120A Multipurpose rechargeable battery pack. Requires the 82059D (U.S.) or the 82066B (Euro.) \$35.00 ea.



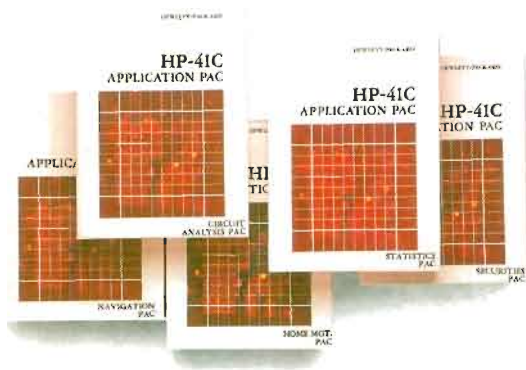
92266A Extended-use battery charger.

92266A Extended-use battery charger. Four full-size nickel cadmium batteries provide twice the life of normal batteries and can be charged outside the HP-41 in charger. For use in U.S. only. . \$50.00 ea.

92266B Spare set of four nickel cadmium batteries provide continuous use of your HP-41 calculator. For use in U.S. only \$14.50/set

Series 40 software application pacs*

Each pac includes a pre-programmed application ROM module to transform your HP-41 into an answer machine for a particular discipline or application. Comprehensive manual included in all pacs, and many also include special keyboard overlays to redesignate keys for the application.



Auto-start duplication ROM	00041-15042	Surveying	00041-15005
Aviation (pre-flight only)	00041-15018	Thermal & transport science	00041-15019
Circuit analysis	00041-15006	Price	\$35.00 ea.
Clinical lab & nuclear medicine	00041-15024	Navigation	00041-15017
Financial decisions	00041-15004	Real estate	00041-15016
Financial decisions (Spanish)	00041-15030	Structural analysis	00041-15021
Games	00041-15022	Price	\$45.00 ea.
Home management	00041-15023	HP-IL development module	00041-15043
Machine design	00041-15020	Petroleum fluids	00041-15039
Mathematics	00041-15003	Price	\$75.00 ea.
Mathematics (Spanish)	00041-15029		
Securities	00041-15026		
Standard applications	00041-15001		
Statistics	00041-15002		
Statistics (Spanish)	00041-15028		
Stress analysis	00041-15027		

★ For location of dealer nearest you, call: 800-FOR-HPHC (800-367-4772).

*Additional languages available. Contact your local authorized HP dealer or HP sales office.

Series 40 solution books*



Programs to help solve general or specialized problems are provided in two forms in every book: step-by-step listings for keystroke entry, and the same information printed in bar code form for fast entry with the HP 82153A optical wand.

Antennas	00041-90093	Geometry	00041-90084	Solar engineering	00041-90138
Business statistics/marketing/sales	00041-90094	Heating, ventilation & air condition	00041-90140	Surveying	00041-90141
Calendars	00041-90145	High-level mathematics	00041-90083	Taxes	00041-90525
Chemical engineering	00041-90100	Home construction estimating	00041-90096	Test statistics	00041-90082
Chemistry	00041-90102	Lending, savings & leasing	00041-90086	Time module solutions I	00041-90395
Civil engineering	00041-90089	Mechanical engineering	00041-90090	Price	\$15.00 ea.
Control systems	00041-90092	Optometry (general)	00041-90143	Structural design (includes cassette)	00041-90441
Electrical engineering	00041-90088	Optometry II (contact lens)	00041-90144	Price	\$35.00 ea.
Fluid dynamics & hydraulics	00041-90139	Physics	00041-90142		
Games I	00041-90099	Real estate	00041-90136		
Games II	00041-90443	Small business	00041-90137		

*Additional languages available. Contact your local authorized HP dealer or HP sales office.

HP-97A Programmable Desktop Calculator supplies

HP-97 application pacs

Each application pac contains 15 to 26 preprinted, pre-recorded magnetic cards, a program card holder and a manual of complete documentation.

Electrical engineering	00097-13131
Business decisions	00097-13144
Clinical lab & nuclear medicine	00097-13165
Civil engineering	00097-13195
Navigation	00097-13205
Surveying	00097-13175
Statistics	00097-13111
Math	00097-13121
Mechanical engineering	00097-13155
Games	00097-13185
Price	\$40.00 ea.

NOTE: HP-97 programs will also work in the HP-41. Lengthy programs may require additional memory modules on the HP-41.



HP-97 accessories

00097-90001 Owner's handbook	\$25.00 ea.	82035A Soft vinyl case	\$12.00 ea.	00097-13142 Program card holders (three)	\$15.00 ea.
82033A Battery pack	\$25.00 ea.	00097-13143 120 Card pac	\$50.00 ea.	00097-13154 Program pad	\$5.00 ea.
82037A Reserve power pack	\$60.00 ea.	00097-13206 1000 Card pac (no holders)	\$250.00 ea.	82045A Blue-print thermal paper (Box of six rolls)	\$10.00 box
82059D AC adapter/recharger—110 Vac	\$20.00 ea.				
82066B AC adapter/recharger—220 Vac	\$25.00 ea.				

★ For location of dealer nearest you, call: 800-FOR-HPCC (800-367-4772).

HP-IL products



The Hewlett-Packard Interface Loop (HP-IL) is a bit-serial interface for low-cost, battery-operated systems. Devices on the loop are connected by two-wire cables leading from the output port of one device to the input port of the next until all devices form a closed loop.

HP-IL Video Interface

92198A HP-IL 80-Column Video Interface

Now you can team your HP-IL controller with one of HP's video monitors (or even a standard television) to take advantage of a full-screen display through the use of this 80-column HP-IL video interface. Monitors can display information in twenty-four 80-character lines. The video interface can also switch to a 40 by 20 format for use with standard television. Features include: large, readable display, powerful screen-editing features, two software selectable character sets (ASCII with inverse video or ROMAN 8) and three cursor types (none, block and insert).

For use with the HP-41 Calculator and the HP 71B and HP 75C/D Handheld Computers.

Price \$325.00 ea.

HP-IL peripherals

82161A Digital Cassette Drive

With 128K bytes of on-line mass storage packed into each mini-cassette, you have power for information collection and management applications which previously required a larger computer.

Price \$550.00 ea.★

82162A HP-IL Thermal Printer/Plotter

This portable, battery-powered printer provides hard copy of information, program listings, bar code, and graphics. A

large 101-character buffer provides fast printing and plotting. You get numeric, upper- and lower-case alpha, double-wide characters and intensity control for optimum contrast and readability. With the handy FORMAT function, you can center or justify your copy to left and right margins.

Price \$450.00 ea.★

7470A Graphics Plotter Opt. 003

For description, see page 118.

Price \$1095.00 ea.★

82168A Acoustic Coupler

Using this acoustic coupler with an HP-IL controller allows for communication with a distant computer over ordinary telephone lines. The Bell 113 acoustic coupler transmits data at 300 Baud. With this portable, battery-powered machine, distant computer information is as near as your telephone. Can be used with the 82004A reserve power pack (page 38) and the 82059D adapter/recharger (page 38).

Price \$495.00 ea.★

HP-IL accessories

82160A HP-IL/Series 40

interface \$125.00 ea.★

82912A 9" Video monitor \$295.00 ea.★

82913A 12" Video monitor \$325.00 ea.★

HP 2225B ThinkJet Printer (HP-IL interface, DC battery power). See pages 78-79 for details \$495.00 ea.★

82164A HP-IL/RS232C

interface \$295.00 ea.★

82165A HP-IL/GPIO

interface \$295.00 ea.★

82166C HP-IL interface

kit \$395.00 ea.★

82167A HP-IL cable (0.5m) \$6.00 ea.★

82167B HP-IL cable (1m) \$8.00 ea.★

82167D HP-IL cable (5m) \$10.00 ea.★

82169A HP-IL/HP-IB

interface \$395.00 ea.★

82938A HP-IL/Series 80

interface \$295.00 ea.★

82401-90001 HP-IL interface

manual \$15.00 ea.★

Be sure to see *The HP-IL System: An Introductory Guide to the Hewlett-Packard Interface Loop*, page 145.

★ For location of dealer nearest you, call 800-FOR-HP-PC (800-357-4772)

HP-IL accessories (cont.)

82045A Blue-printing thermal paper for 82143A, 82162A.

Box of six rolls \$10.00 box

82175A Black-printing thermal paper for 82143A, 82162A.

Box of six rolls \$10.00 box

82033A Battery pack for 82161A.

82162A \$25.00 ea.

82037A Reserve power pack for 82161A, 82162A, 82168A \$60.00 ea.

82044A Security cable for 82143A,

82161A, 82162A \$20.00 ea.

82059D AC adapter/recharger for

82120A, 82143A, 82161A, 82162A,

82163A, 82164A, 82165A, 82168A.

82169A—110 Vac \$20.00 ea.

82066B AC adapter/recharger for

82120A, 82143A, 82161A, 82162A,

82163A, 82164A, 82165A, 82168A,

82169A—Euro. 220 Vac \$25.00 ea.

82176A Box of 10 mini cassettes each with own protective plastic box. Each cassette can hold up to 128K bytes of information.

Box of 10 cassettes \$95.00 ea.

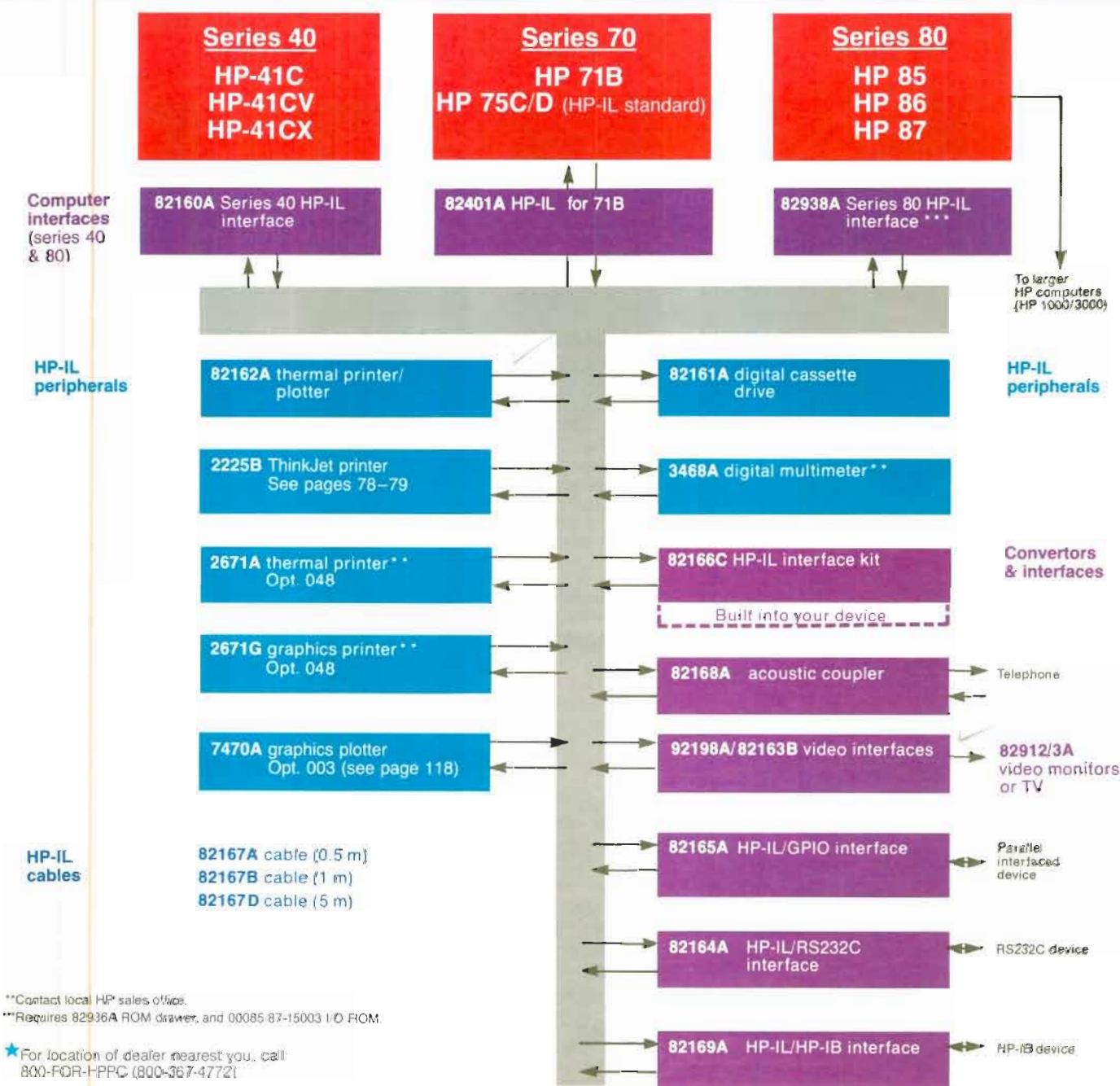
82177A Blank labels for mini data cassette (20 sheets = 420 labels)

Price \$12.50 pkg.



HP-IL products/configurations

This diagram summarizes HP-IL products, as well as indicates how HP-IL products can be interconnected. The smallest configuration would typically be one computer and one other HP-IL device.



**Contact local HP sales office.

***Requires 82936A ROM drawer, and 00085 87-15003 I/O ROM.

★ For location of dealer nearest you, call
800-FOR-HP (800-367-4772).

Series 70 Handheld Computers

Complex calculations have never been so easy . . .

The HP 71 is the solution to your everyday computational requirements. This BASIC language handheld computer combines the power of a computer and the size of a calculator to give you the computational strength you demand. Yet, it's small enough to be the perfect travelling companion. Computational power and portability are available now—in the same distinctive package.

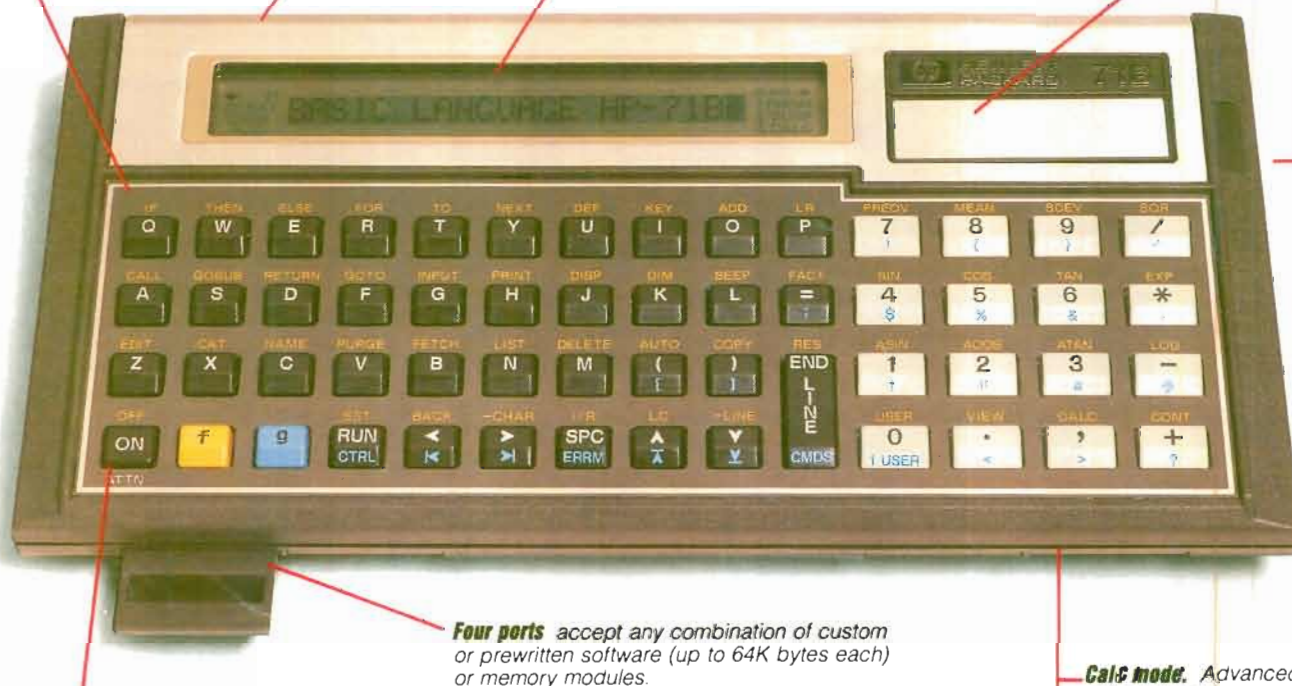
Redefinable keyboard.
Keys are redefinable using custom keyboard overlays.

HP-IL Interface option for connecting to other devices.

22-Character LCD with scrolling to 96 characters, upper- and lower-case letters.

Battery power. Four 1.5V, AAA-size batteries, or optional ac adapter.

Card reader option.



Continuous memory. Turn your HP 71 off without losing information.

BASIC Language.
Powerful programming language.

Four ports accept any combination of custom or prewritten software (up to 64K bytes each) or memory modules.

Dimensions: 7.5 × 3.8 × 0.5 inches.

Weight: 12 ounces.

Calc mode. Advanced calculator operating mode.

Five-level command stack.
Recall any of your last five commands for editing and re-use.

10-digit key pad.

The HP 71 solution.

The HP 71 grows as your needs grow. Expand it with memory modules, accessories, peripherals, an HP-IL (Hewlett-Packard Interface Loop) interface, and applications software for even greater computational muscle.

Put 17.5K bytes of built-in user memory (RAM) at your disposal. And expand it to 21.5K bytes by plugging in one 4K byte memory module. But, don't stop there—keep adding memory modules. Up to four modules will boost accessible user memory to 33.5K bytes. And continuous memory makes sure your data will be there when you need it.

Be sure to see our wide selection of Series 70 accessories and solution books, page 38.

Language and operating system.

The powerful 64K byte built-in BASIC operating system assures you of fast solutions to your complex, repetitive, computational problems. The expanded BASIC language gives you more than 240 functions, statements and operators to simplify your programming. Advanced statistics functions let you perform computations on up to 15 independent variables. A complete set of trig functions lets you solve complex equations. Or you can tap the resources of pre-written HP software to save yourself time.

BASIC makes it easy; the powerful HP 71 makes it possible.

HP 71B Handheld Computer \$525.00 ea.

★ For location of dealer nearest you, call: 800-FOR-HPPC (800-367-4772).

HP 71 extensions and accessories

Expand your capabilities without increasing the outside dimensions of your HP 71. These extensions and accessories are designed to fit compactly inside the HP 71 to give you extra computing power in the palm of your hand.

82400A Hand-pull card reader will enable you to store and retrieve data off line using magnetic cards. Each card provides 1.3K bytes of storage. The 82400A plugs into a specially designed port in

the upper right-hand corner of the HP 71B.

82400A \$165.00 ea★

82401A HP-IL Interface plugs into a specially designed port at the upper left of your HP 71, establishing a link with the expansive HP-IL family. Create a system that can print, plot, store, retrieve, and display information. Or, control instruments and peripherals, in addition to communicating with larger computers.

82401A \$125.00 ea★

82420A 4K RAM memory module. Plug in a maximum of four of these modules to increase memory and storage capacity by 16K bytes. Each memory module contains 4K bytes of user memory (RAM).

82420A \$75.00 ea★

92198A HP-IL 80 column interface provides full-screen display of 80 columns by 24 lines. See page 34 for details.

92198A \$325.00 ea.

HP 71 software

For ready-made solutions, take advantage of HP-written software. Each application pac comes with a plug-in module and complete documentation.

NEW Software Development Utilities 82440A \$35.00 ea★

FORTH/Assembler. The FORTH/Assembler ROM provides you with an extended software development environment for your HP 71. The FORTH operating system lets you write application programs in FORTH that execute faster than programs written in BASIC. HP 71 FORTH enhances the FORTH 1983 Standard word capability set with string manipulation words, floating point words and HP-IL words. The FORTH operating system is compatible with the HP 71 BASIC operating system so you can switch between FORTH and BASIC environments without program or data loss; reconfiguring the HP 71 is not necessary. Programs written in one language can execute routines written in the other language. FORTH also provides you with an RPN calculator capability.

An assembler, written in FORTH, provides the same command set as the assembler used to develop the HP 71 operating system. Use it to create FORTH primitives, HP 71 binary files, or language extension (LEX) files to extend the BASIC language.

82441A \$150.00 ea★

Math. Convenient, flexible BASIC keywords provide you with a set of powerful tools to solve a wide range of math, science, and engineering problems. Take advantage of the following: complex variables and arrays, advanced real- and complex-valued functions, real and complex array operations, solutions to systems of equations, roots of polynomial equations and user-defined functions, numerical integration, finite Fourier transform.

82480A \$95.00 ea★

AC Steady State Circuit Analysis. A convenient, menu-driven program helps you construct and analyze circuit models using resistors, capacitors, inductors,

transmission lines, voltage-controlled current sources, and open or shorted stubs as circuit elements. Print or display ac voltage, phase, and group delay at any node in the circuit at any frequency, using linear or logarithmic frequency increments. Circuit descriptions can be stored, printed, and edited. You can quickly simulate and analyze circuits such as passive filters, active filters, operational amplifiers, and transistor amplifiers in a portable environment. Circuit size is limited only by available memory; an HP 71 with three-memory modules can solve a circuit with 72 branches and 24 nodes.

82481A \$75.00 ea★

Finance. Preprogrammed functions let you unravel your financial problems quickly and easily. Get fast, accurate answers to your loan, amortization, internal rate of return, and net present value problems. Calculate, display, print, and store depreciation schedules. Five different methods are available for your depreciation calculations. A special HELP file in the module lists functions for your reference.

82482A \$75.00 ea★

Surveying. One large, integrated program lets you arrange, balance, and adjust a traverse of your points in files. Apply them in traversing, inverting, curve layout, intersection, radial staking, and area computation. An easy-to-use, menu-driven data entry system lets you choose your input mode regardless of the mode of output you desire.

82483A \$150.00 ea★

Curve Fitting. Take advantage of the power of this pac to fit a general (and even non-linear) model function with up to 20 unknown parameters to a set of data. Use the powerful data entry routine and numerous built-in models for fast, accurate solutions. Or, determine local minima or maxima to a large class of real valued functions with up to 20 variables.

82484A \$75.00 ea★

Text Editor. Simple commands let you enter, manipulate, and list your text files quickly and easily. Modify your text with search and replace commands. And use text formatting commands to control the appearance of your text. A built-in HELP file lists functions to make your editing even easier.

82485A \$75.00 ea★

NEW Data Communications. A versatile menu-driven program that gives you the ability to send incoming or outgoing data, transfer text files that have been written "off-line" to another host computer, and store incoming data into a text file for later review or printing. It also has a 500-character input buffer for reviewing information, special code-word creation capability that simplifies log-on procedures, and command files that allow easy implementation of repetitive operations. Access most operations by typing a single key.

82488A \$150.00 ea★

NEW Stat Pac. AMPI has provided a powerful statistics library for use in statistical testing and evaluation of data. Included in the AMPI pac are 18 programs—Means and Moments, Histogram, Multiple Linear Regression, Paired T-test, Unpaired T-test, One- and Two-way ANOVA, Contingency table, Mann-Whitney U test, Kruskal-Wallis test, Student's T-distribution, F-distribution, Chi-square distribution, Normal distribution, Weibull-Distribution, Exponential distribution, Binomial distribution, and Poisson distribution.

82489A \$125.00 ea★

NEW Translator. This pac emulates the keyboard operation and runs HP-41 Advanced Calculator programs. Programs may be transferred automatically from the HP-41 to the HP-71 via HP-IL. Additionally, HP-41 programs may be entered and edited directly from the HP-71 keyboard.

82490A \$125.00 ea★

Series 70 Handheld Computers (cont.)

The portable computer for bar code applications

The HP 75D is HP's first portable bar code reader to read major industrial bar codes. Together with the 82725A and a compatible bar code wand, the HP 75D combines the power of a portable computer and an optical scanning wand to create a fast, accurate data collection system.



HP 75D Portable Computer . . .	\$1145.00 ea.
82725A Bar code reader module	\$75.00 ea.
92267A High resolution bar code wand	\$160.00 ea.
92267B Medium resolution bar code wand	\$150.00 ea.

HP 75 plug-in application ROMs

00075-15014 VisiCalc®	\$195.00 ea.	00075-15015 Math	\$145.00 ea.	00075-15012 Surveying	\$295.00 ea.
00075-15019 Textformatter	95.00 ea.	00075-15001 I/O ROM	75.00 ea.	92198A HP-IL 80 Column Interface	325.00 ea.
00075-15035 Data Communications	175.00 ea.				

Series 70 solution books*

Electronics	00075-13008	Math II	00075-13004	Graphics	00075-13016
Finance	00075-13009	Math III	00075-13005	Price	\$45.00 ea.
Games I	00075-13006	Real Estate	00075-13010	Math HP 71B	00071-90064
Games II	00075-13007	Statistics	00075-13011	Games HP 71B	00071-90065
I/O utilities	00075-13013	Test statistics	00075-13012	Price for above items	\$12.50 ea.
Math I	00075-13003	Mass media duplication/privacy	00075-13015	General Utilities HP 71B	00071-90066
		Price for all items above	\$45.00 ea.	Price	\$15.00 ea.

*Magnetic program cards are included.

Series 70 accessories

00075-90001 HP 75 owner's manual	\$25.00 ea.	82004A Reserve power pack (requires an HP 82002C)	\$40.00 ea.	82707A 30 blank magnetic card pac	\$25.00 ea.
00075-90004 HP 75 reference manual	\$10.00 ea.	82059D AC adapter/recharger—110 Vac	\$20.00 ea.	82708A 100 blank magnetic card pac	\$70.00 ea.
82001B Rechargeable battery pack	\$15.00 ea.	82700A HP 75 8K memory module	\$195.00 ea.	82710A Five blank key overlays	\$15.00 ea.
82002C Recharger—110/220 Vac (for 82004A power pack only)	\$35.00 ea.	82701A HP 75 security cradle	\$55.00 ea.	82713A ROM emulator for HP 75	\$495.00 ea.
		82703A HP 75 Field case	\$40.00 ea.	82715A Five notebook card holders	\$10.00 ea.
				82717A 50 blank key overlays	\$95.00 ea.

Note: product names followed by ® or ™ are trademarks of their respective companies. For a complete listing, see page 158.

★ For location of dealer nearest you, call: 800-FOR-HP (800-367-4772).



The PORTABLE accessories	pages 40-41
Touchscreen accessories	pages 42-43
Series 80 modules and accessories	pages 44-46
Software ordering information	pages 48-53
Software package descriptions	pages 54-73
PC books	pages 144-147
Software-related publications	page 152

Series 100 Personal Computers

The PORTABLE (HP 110)—at home in the office . . .

The PORTABLE offers everything you need to start computing in a compact 9-pound package! And that's only the beginning. You can plug The PORTABLE into a ThinkJet Printer, HP's new portable microfloppy drive, one of our plotters, the revolutionary Touchscreen PC, or even an IBM PC. Glance over these two pages for a closer look at The PORTABLE's wide array of peripherals and accessories.

1. HP PORTABLE—Desktop Link. It talks! At the office The PORTABLE can share data files and peripherals with the Hewlett-Packard Touchscreen Personal Computer, the IBM PC, and the IBM XT (see photo #10). The PORTABLE-Desktop Link equips the personal computer with a plug-in card and the software necessary to quickly transfer a memo or spread sheet from The PORTABLE-to-desktop, desktop-to-The PORTABLE, or even The PORTABLE-to-printer!

45643A Extended I/O card for the Touchscreen . . . \$175.00 ea.
82973A HP-IL Interface card for the IBM PC and IBM XT . . . \$150.00 ea.

Acoustic coupler brings distant computer information as close as your telephone. On the road, HP's new acoustic coupler allows The PORTABLE to communicate with other computers over ordinary telephone lines. This portable, battery-powered device fits over the telephone receiver, eliminating the need for a modular telephone set.

92205D . . . \$79.00 ea.

2. ThinkJet paper. HP ThinkJet printer paper has been carefully manufactured and selected to meet rigid HP quality standards. See the difference on page 113.

3. ThinkJet Printer. At just 5 pounds, HP's battery-powered ThinkJet printer completes the portable picture. The ThinkJet is quiet, fast, and a wiz with graphics! For more exciting details, see pages 78–79.

2225B . . . \$495.00 ea.

4. ThinkJet stand. This smoked acrylic specialty is custom designed for your ThinkJet. Inconspicuously stores fanfold paper that feeds to rear of printer. For more details on this and other ThinkJet accessories, see page 113.

92261S . . . \$49.00 ea.

5. The PORTABLE. Powerful computing capabilities are yours when and where you need them with this HP personal computer. See The PORTABLE at your authorized local HP dealer.

6. Entertainment software entertains while it teaches. Unleash your imagination, chal-

lenge your intellect. Enter a realm of fantasy and test your mettle against skillful adversaries. You'll need more than luck to emerge the victor! See pages 68–73.

7. PORTABLE software—business, programming, Personal Solutions, and much more! See pages 50–51 for a complete listing.

8. Double-sided microfloppy discs. Unsurpassed floppy disc storage value for your PC. 133 percent more formatted storage than our double-sided 5.25-inch flexible discs, at a savings of 55 percent per kilobyte. See page 131 for details.

92192A . . . \$69.00/box of 10

9. PORTABLE microfloppy drive. Battery-powered, 5.5-pound drive uses the new double-sided microfloppy disc, providing The PORTABLE with 710K bytes of formatted storage. Also:

- Operates on one 6-volt lead-acid dry cell battery
- Stores larger files



... or on the move!

- Provides additional memory for loading programs, large data manipulation, and/or media compatibility with the Touchscreen.
- Works with the HP 41, HP 71B, and HP 75 Handheld Computers in addition to The PORTABLE.
- Will stay up and running (with the help of the 88014A replacement battery) during long sessions away from AC power. The replacement battery gives you another eight hours maximum life. Actual life will depend upon the application.
- Fits easily into your briefcase or our System SLIMLINE case (see below right).

9114A Disc drive \$795.00 ea.
88014A Replacement battery \$55.00 ea.

10. HP PORTABLE-Desktop Link for IBM PC and IBM XT. See #1 for description.

Series 100 Communicator—HP's magazine for HP 120/125, PORTABLE, and Touchscreen users. See page 152.

45530A \$24.00/year

NEW Hewlett-Packard Software Catalog. HP's complete software directory for The PORTABLE and the Touchscreen. See page 65.

More PORTABLE accessories ★

92221P RS232C printer cable \$40.00 ea.
92221M RS232C modem cable 40.00 ea.
82167A .5 meter HP-IL cable 6.00 ea.
82167B 1 meter HP-IL cable 8.00 ea.
92222F Female gender converter 40.00 ea.
92222M Male gender converter 40.00 ea.
92189A Keyboard overlay (pkg. of five) 25.00 ea.



It's a briefcase and a computer case!

The ATTACHÉ

Start with a stylish Italian-leather attaché case. Add a special compartment for The PORTABLE and some essentials—discs, manual and rechargeable battery. Now you've got the ATTACHÉ, the classiest way to travel with your PORTABLE!

Swing up (or remove) the desk; your PORTABLE is secure with Velcro strips and a rear brace. When you don't need access to your PORTABLE, the desk provides a rigid writing surface. The elegance and functionality of this briefcase is complete with a silk-lined calfskin file folder, four-pen file belt and gusseted storage pouches—even one to fit your HP 12C!

13269V \$350.00 ea.★

The System SLIMLINE

When you travel and need the power of a desktop, our System SLIMLINE is the way to go. Slip in your PORTABLE, micro drive and ThinkJet, plenty of discs, a rechargeable battery or two, and some printer paper—you've got an easily managed 26-pound system. Made of 1000 denier cordura nylon, this bag has a tensile strength much tougher than ordinary nylon. Light padding separates each component and protects your valuable equipment against the scrapes and bangs of normal travel. Custom styled at only 7 1/4 inches wide, 18 inches long, and 12 inches high, the SLIMLINE fits under an airline seat with ease.

13269V \$110.00 ea.★

Leather conformal case

Soft, dark brown leather case fits your PORTABLE like a glove! Well-padded interior ensures protective transport. Comes with a removable shoulder strap and convenient carry handle.

13269U \$75.00 ea.★

Note: see page 17 or consult your PORTABLE owner's manual for specifics on cables.

★For location of dealer nearest you, call: 800-POR-HPCC (800-367-4772).



Series 100 Personal Computers (cont.)

Accessories to enhance your Touchscreen (HP 150)

1. Touchscreen Internal Printer. In just minutes, you can install this add-on thermal printer. Unlike peripheral printers, the 2674A Printer fits right inside the Touchscreen, freeing up valuable desktop space. And, best of all, this high resolution printer produces quality text and graphics at a very affordable price.

At 120 characters per second, the 2674A also will print in a compressed mode (allowing 132 columns), making it ideal for spreadsheets.

2674A \$295.00 ea.★

2. ThinkJet Printer. Fast—150 characters per second, the average letter in seconds! Quiet—under 50 decibels; carry on a normal conversation next to it! Graphics—charts, graphs, graphics; it paints your picture onto the page! For more details, see pages 78–79.

2225A \$495.00 ea.★

3. ThinkJet Stand. This smoked acrylic specialty is custom designed for your ThinkJet. Inconspicuously stores fanfold paper that feeds to rear of printer. For more details on this and other ThinkJet accessories, see page 113.

92261S \$49.00 ea.★

4. CompuServe Executive Information Service. Your gateway to a wide range of financial

and investment information, world-wide news, Hewlett-Packard support services, business communications, and travel information. See page 4 for details.

92205S \$89.00 ea.

5. High-performance bar code reader for the Touchscreen and HP's new 2392A Terminal. See page 77.

92915A \$495.00 ea.

6 & 7. Adjustable tilt and swivel helps you work in comfort. See page 96.

92240A Tilt unit \$49.00 ea.★

92240B Swivel unit \$40.00 ea.★

8. Improved keyboard park features a new lower profile and a new color to further complement HP's computer equipment. See page 95.

92171J \$75.00 ea.★

9. Touchscreen software—business, graphics, engineering, entertainment, Personal Solutions, and much, much more! See pages 50–51 for a complete listing.

10. Series 100 Communicator—HP's magazine for HP 120/125, PORTABLE, and Touchscreen users. Page 152.

45530A \$24.00/year

11. Thermal paper, see pages 114–116.

The Touchscreen. See it at your authorized local HP dealer



12. Paper tray attaches directly behind the 2674A Printer and holds a full pack of thermal fanfold paper. It lets you enjoy the convenience of flat 8.5" x 11-inch sheets of thermal paper.

92173A \$20.00 ea.★

★ For location of dealer nearest you, call: 800-FOR-HP (800-367-4772).





13. Touchscreen—PORTABLE link. Now your Touchscreen PC can talk to The PORTABLE and vice versa! All you need is this easily installed accessory. It sets the stage for two-way communication and the sharing of peripherals, see page 40.

45643A Extended I/O \$175.00 ea.★

14. RAM memory boards. As your needs grow so does the Touchscreen Personal Computer. In just minutes, you can easily increase the amount of random access memory (RAM) from the standard 256K bytes to 512K or 640K bytes by simply installing one of these memory board accessories in a Touchscreen expansion slot. Only one expansion slot can be used for additional memory.

45631A 256K RAM memory board \$660.00 ea.★

45632A 384K RAM memory board \$910.00 ea.★

NEW Hewlett-Packard Software Catalog. HP's complete software directory for the Touchscreen and The PORTABLE. See page 65.

NEW The HP Touchscreen. Recommended reading for HP Touchscreen users. See page 65.

15. IBM 3278 Emulation accessory. Now you can have the best of both worlds: the speed and power of the HP Touchscreen, plus access to your IBM mainframe. The HP Emulation Accessory allows your Touchscreen to tie directly into the software and data bases on your IBM systems.

You'll be able to replace your current terminal system with a Touchscreen and still take advantage of your existing IBM software, plus numerous Touchscreen personal software packages.

Consists of an accessory card, emulation software, a user's guide and keyboard overlays. And while you are using your Touchscreen as a personal computer, the accessory card maintains your IBM connection. You can switch applications simply by touching the screen.

45641B \$1200.00 ea.★

16. Touchscreen Internal Modem fits inside the Touchscreen Personal Computer, adding powerful telecommunications capability. The modem allows Touchscreen users to connect to online information services and transfer data between

Touchscreens, mainframes and other personal computers. The modem provides automatic dialing, automatic answer,

operates at 1200 or 300 baud, and is compatible with virtually all communications software.

Other features include: selectable tone or pulse dialing, full compatibility with long distance services, and complete Bell 212-A compatibility. The modem is easily installed into either of the Touchscreen expansion slots and includes all necessary cables and documentation.

45640A \$475.00 ea.★

17. Micro desktop file. Handy access for up to 50 3.5-inch microfloppies. Clear acrylic divider tabs and hinged, smoke-colored top. See page 132.

92191D \$36.00 ea.★

18. Single-sided microfloppies, page 131.

92191A \$54.00/box of 10★

Double-sided microfloppies, page 131.

92192A \$69.00/box of 10★

More accessories ... ★

- **13269C** Carrying case, page 101 \$140.00 ea.
- **92250F** Dust cover, page 100 \$20.00 ea.
- **92193V** Video cleaning kit, page 97 \$17.00 ea.
- Cables, pages 15-17.



13

The standard access to your HP 150's flexibility!
HP 150 Extended I/O Accessory

The PORTABLE—See it at your authorized local HP dealer.



18

Expand your desktop environment to your mainframe.
HP 150 3278 Emulation Accessory

15

17

14

Here's the 5-minute solution to your growing computing needs.
HP 150 Memory Expansion Accessory Board

Expand your HP 150 to a world of information from Ven-Tel, Inc.
HP 150 Internal Modem Accessory Card

16

Series 80 Personal Computers

Series 80 plug-in modules

These modules expand memory, add CP/M® System or provide mounting for firmware enhancement ROMs. Each plugs into any one of the four ports in the back of the computer. For ordering information, see page 46.

82903A 16K Memory module for HP 85A.

Each HP 85A will only accept one 16K byte memory module.

82908A, 82909A Memory modules for HP 85B, HP 86/87.

The HP 82908A adds 64K bytes. The HP 82909A adds 128K bytes. Up to four modules can be used for a maximum of 544K bytes. (For HP 85B, memory is used for electronic disc memory only.)

82967A Speech synthesis module. This Series 80 plug-in module allows speech output of more than 1500 words/sounds/phrases from your Series 80 Computer. Software is included which allows the user to review, listen and create the needed phrases and store them for later use by an application program. A startup vocabulary of more than 1500 words is provided. Software and vocabulary is provided on both a 3.5-inch and 5.25-inch flexible disc.

HP 85 requires 32K bytes memory, a flexible disc drive and a standard 8-ohm speaker or headphone.

HP 86 requires 64K bytes memory. The monitor speaker can be used with an additional HP 92220M monitor cable.

HP 87 requires 64K bytes memory and a standard 8-ohm speaker or headphone.

82900A CP/M® System. The CP/M System extends the HP 86/87 by providing a

wide variety of software solutions. It adds a Z-80 microprocessor and 64K bytes of dedicated RAM. See note below.

82900A Opt. 001 Term/80 Terminal Emulation System turns the HP 86/87 into an intelligent terminal that communicates with large HP mainframe computers in multiple operating modes, including block and format. Term/80 enables the HP 86/87 to emulate the popular HP 2622A Terminal. Communicates at speeds up to 9,600 baud.

Note: The HP 82900A CP/M System or HP 82900A Opt. 001 Term/80 product includes an Auxiliary Processor Module. Therefore, if you own one of the two products, you can acquire the other's capabilities by buying the proper software product:

CP/M software only:

HP 82848A Opt. 630—3.5-inch disc media

HP 82848A Opt. 650—5.25-inch disc media

Term 80 Software only:

HP 82849A Opt. 630—3.5-inch disc media

HP 82849A Opt. 650—5.25-inch disc media

82928A System monitor. Provides the necessary hardware to aid in developing and debugging assembly language programs for HP Series 80 Personal Computers. The HP 00085-15007 (or 00087-15007), 82928A and 82929A form a complete set of tools.

82929A Programmable ROM drawer. This drawer lets you use the firmware created with the assembler ROM in Series 80 Computers. You can plug in standard EPROMs that you program yourself in your own code.

82929A Option 001 Hybrid ROM Development System. With the Hybrid ROM Development System, you and your HP 85 Personal Computer can produce customized hybrid ROMs. Hybrid ROMs are EPROMs (erasable, programmable read-only memories) that store your Assembly language and BASIC language programming. The development system provides the BASIC programs, binary programs, and documentation necessary to incorporate such programming into hybrid ROMs.

82936A ROM drawer. Provides mounting for up to six of the firmware enhancement ROMs shown below. Plugs into any port on the back of a Series 80 Computer. Only one ROM drawer can be used at a time

Series 80 firmware enhancements (ROMs)

These enhancements are contained in ROM plug-in modules. HP ROMs are used to enhance the capabilities of Series 80 software or integrate peripherals into a Series 80 system. These firmware modules plug into the Series 80 Computer via the 82936A ROM drawer. For ordering information, see page 46.

00085-15001 Mass storage ROM. Provides the capability to interface the HP 85 with the HP 8290X-series Flexible Disc Drive or the HP 9134A/9135A Winchester Disc Drive. Consumes 150 bytes of available user memory. (Mass storage ROM capability is built into the HP 86B/85B/87.)

00085-15002 Plotter/Printer ROM. Provides the capability to interface the HP 85 with HP's high-resolution graphics plotters and full-width line printers. Consumes 373 bytes of available user memory.

00087-15002 Plotter ROM. Allows data to be transferred from the HP 86/87 to an HP plotter. Also provides single commands to dump CRT graphics and alpha screens to any HP dot matrix printer. (Print and graphics commands for transferring data to an HP printer are included in each HP 86/87). Consumes 1392 bytes of available user memory.

00085-15003, 00087-15003 I/O ROM. Provides straightforward input/output commands that enhance the HP Series 80 BASIC

language capability. Consumes 416 bytes of available user memory. (I/O ROM capability is built into the HP 85B.)

00085-15004, 00087-15004 Matrix ROM.

Gives you a powerful set of statements and functions for working with arrays on the Series 80 Personal Computers. Both matrices (two-dimensional arrays) and vectors (one-dimensional arrays). Consumes only 69 bytes (HP 85) or 73 bytes (HP 86/87) of available user memory.

00085-15005, 00087-15005 Advanced programming ROM. Extends your control over data, programs and Series 80 system operations with the functions, statements and commands provided in this ROM. Consumes only 132 bytes (HP 85) or 159 bytes (HP 86/87) of available user memory.

00085-15007, 00087-15007 Assembler ROM.

Provides the capability to write customized assembly language programs that can be executed from Series 80 user memory or burned into EPROMs. Con-

sumes only 124 bytes of available user memory. Use with HP 82928A and 82929A.

00087-15011 MIKSAM ROM. MIKSAM is a powerful software development tool for application programmers and serves as a core around which custom file management can be designed to fill your special needs. With MIKSAM you can even search for more than one category of data at once. Use MIKSAM with your HP-86/87 and a minimum of one disc drive. Consumes 4K bytes of available user memory.

00087-15012 Electronic disc ROM. Structure user RAM as if it were a disc with this powerful electronic disc ROM. A major portion of the HP 86A to HP 86B upgrade, this ROM increases program chaining speed and disc information access. With certain applications, Word/80 runs 16 times faster. Use the electronic disc ROM with the HP 86A/87 (Electronic disc ROM capability is built into the HP 85B and HP 86B.) This product also enables 10 megabyte Winchester disc utilization.

Series 80 interface modules

A variety of useful interface modules is available to connect peripherals and other devices to your Series 80 Personal Computer. The interface modules plug into any one of the four ports in the back of a Series 80 Computer.

92204A COM-80 Communications Interface

Turn your HP Series 80 Computer into an applications oriented intelligent terminal via the COM-80 communications interface. The card interface allows asynchronous and bisynchronous data communications on multiple ports. The added capability to handle three hardware devices per card is standard. Using the interface with your Series 80 Computer, you now have the added advantage of a HASP workstation, allowing you to use major applications software packages via a timesharing service and still retain local control of your data. Along with the other standard features, you now have the capability to collect, edit, store and forward data from an ASCII device to a host computer without re-cabling using the multi-port feature.

Applications

- 2780/3780 RJE Terminal
- Asynchronous Terminal Emulator with file transfer capabilities.
- All applications are function key driven.

The 92204A provides two communication ports and one printer port all on the same plug-in module. The two datacom ports may be configured on either an asynchronous character-oriented ASCII terminal (using 92239B software) or HASP/RJE workstation communicating in 2780/3780 mode (using 92239A software). The 92204A requires either 92239A or 92239B software. Specify option 610, 630 or 650 for software media. 92204A includes one 92221C datacom cable. Order 92221T for a printer cable or 92221C for additional datacom cable.

82169A HP-IL/HP-IB Interface. Interconnection of HP-IL and HP-IB is possible with the HP-IL/HP-IB interface. It operates in either of two modes—translator or mailbox. In translator mode, a controller exists on either the HP-IL or HP-IB side of the interface, and the devices to be controlled may exist on both sides. Control may be passed between HP-IL and HP-IB controllers as long as only one is active at a time. In a mailbox mode, controller systems exist on both sides of the interface, and information may be passed bidirectionally between the two systems through the two resident 110-byte buffers.

82937A HP-IB Interface. The Hewlett-Packard Interface Bus (HP-IB) is an easy-to-use hardware and software interface system that permits bidirectional, asynchronous communication among a wide variety of instruments and peripherals. It implements the IEEE 488-1978 Standard Digital Interface for Programming Instrumentation and allows your HP computer to communicate with up to 14 HP-IB-compatible devices per interface, with a total of no more than 20 meters of cable.

82938A HP-IL Interface. The Hewlett-Packard Interface Loop (HP-IL) is a bit/serial interface that combines low power, small size and low cost. With HP-IL, you can interface as many as 30 devices, with up to 10 meters of cable between each device.

82939A Serial Interface (RS232C). The Serial Interface is the RS232C-compatible interface for the Series 80 Personal Computer. It provides bit-serial asynchronous data communication and is a common means of communicating between a computer and peripherals such as terminals and printers. The standard 82939A is terminated with an RS232C female connector for use with the HP 2601A Printer (with its supplied cable). Option 001 is terminated with an RS232C male connector for use with modems and some non-HP printers. Option 002 is shipped with a 13.1-foot (4m) unterminated interface cable for current loop operation.

82940A GPIO Interface (parallel). This is a general-purpose byte (8-bit) or word (16-bit) oriented interface commonly used with printers, paper tape readers and punches, card readers and special instrumentation. It has two output-only 8-bit ports and two bidirectional 8-bit ports. They can be used as separate 8-bit ports or as 16-bit ports.

82941A BCD Interface (Binary Coded Decimal). This interface supports interfacing with BCD instrumentation, such as voltmeters, multimeters, medical systems and weighing systems. It provides the mainframe with 11 digits of 4-bit BCD input or output data plus 4 sign bits for one or two channels.

82949A Printer Interface. Provides interface for the HP Series 80 Computer to drive printers requiring a standard parallel Centronics-type interface. This output-only interface consists of a plug-in module and a captive cable, terminated with a standard Amphenol-type, 36-pin connector.

82950A Modem. Provides data communications in the United States. It is a serial, asynchronous, full duplex modem which operates at speeds of 110 or 300 baud. It connects directly to the telephone line and is compatible with Bell 103/113 modems. Features automatic answering, automatic dialing and log-on, five sets of special function keys. Order 82950A for modem with data cartridge. Specify either option 650 for modem with 5.25-inch flexible disc or option 630 for modem with 3.5-inch disc.

82966A Data Link Interface. Now you can configure Series 80 Personal Computers with most other HP computer products on a common network. By implementing the Data Link protocol, the new Data Link interface enables Series 80 Personal Computers to connect to an HP 3047A adapter and an I/O ROM to communicate over HP's multi-drop data communications network. The network consists of a group of terminals and/or computers connected to a common data line—where a single HP 1000/3000 host computer is the master of all communications activity.

Note: product names followed by ® or ™ are trademarks of their respective companies. For a complete listing, see page 158.

For ordering information, see chart next page.

Series 80 accessories

82956A Keyboard overlays for HP 86 and HP 87. One printed and five blank overlays per package.

Price \$20.00 pkg.

82935A Three-ring system literature binder ideal for storage of manuals. Instruction books and sales literature. Size: 8 5/8" x 11 in.

Price \$10.00 ea.





HP Series 80 plug-in, ROM and interface modules

Computer		HP 85		HP 86/87	
Plug-in modules	Memory modules	HP 85A 82903A (16K bytes)	\$225.00 ea.*	n/a	
		HP 85B 82908A (64K bytes) (E disc only)	\$445.00 ea.*	82908A (64K bytes)	\$445.00 ea.*★
		82909A (128K bytes)	\$595.00 ea.*	82909A (128K bytes)	\$595.00 ea.*★
	CP/M System module	n/a		82900A	\$495.00 ea.*★
	Term/80	n/a		82900A Opt. 001	\$495.00 ea.*★
	System monitor	82928A	\$345.00 ea.*	82928A	\$345.00 ea.*★
	Programmable ROM drawer	82929A	\$245.00 ea.*	82929A	\$245.00 ea.*★
	Hybrid ROM Development System	82929A Opt. 001	\$200.00 ea.*	n/a	
	ROM drawer	82936A	\$45.00 ea.*	82936A	\$45.00 ea.*★
	Speech synthesis module	82967A	\$395.00 ea.*	82967A	\$395.00 ea.*★
ROM	Mass storage ROM	00085-15001 (HP 85B included)	\$195.00 ea.*	HP 86/87; included.	
	Plotter/printer ROM	00085-15002	\$195.00 ea.*	HP 86/87: Printer ROM included.	
	Plotter ROM	See 00085-15002		00087-15002	\$195.00 ea.*★
	I/O ROM	00085-15003 (HP 85B included)	\$295.00 ea.*	00087-15003	\$295.00 ea.*★
	Matrix ROM	00085-15004	\$195.00 ea.*	00087-15004	\$195.00 ea.*★
	Advanced programming ROM	00085-15005	\$195.00 ea.*	00087-15005	\$195.00 ea.*★
	Assembler ROM	00085-15007	\$295.00 ea.*	00087-15007	\$295.00 ea.*★
	MIKSAM ROM	n/a		00087-15011	\$195.00 ea.*★
Interface modules	Electronic disc ROM	n/a (HP 85B included)		HP 86A/87: 00087-15012 HP 86B: Capability built-in	\$195.00 ea.*★
	HP-IL/HP-IB interface	82169A	\$395.00 ea.*	82169A	\$395.00 ea.*★
	HP-IB interface	82937A	\$395.00 ea.*	HP 86A: 82937A HP 86B/87: included.	\$395.00 ea.*★
	HP-IL interface	82938A	\$295.00 ea.*	82938A	\$295.00 ea.*★
	Serial (RS232C) interface	82939A Opt. 001 Opt. 002	\$395.00 ea.* n/c n/c	82939A Opt. 001 Opt. 002	\$395.00 ea.* n/c n/c
	GPIO interface	82940A	\$545.00 ea.*	82940A	\$545.00 ea.*★
	BCD interface	82941A	\$545.00 ea.*	82941A	\$545.00 ea.*★
	Printer interface	82949A	\$295.00 ea.*	HP 86A: included. HP 86B/87: 82949A	\$295.00 ea.*★
	Series 80 Modem†	82950A†	\$395.00 ea.*	82950A	\$395.00 ea.*★
	Data Link interface	82966A	\$595.00 ea.*	82966A	\$595.00 ea.*★
	COM80 communications interface**	92204A	\$575.00 ea.*	92204A	\$575.00 ea.*★
	2780/3780 RJE software	92239A	\$270.00 ea.*	92239A	\$270.00 ea.*★
	—Media: tape cartridge	Opt. 610	n/c	Opt. 610	n/c
	—Media: 3.5-in. disc	Opt. 630	n/c	Opt. 630	n/c
	—Media: 5.25-in. disc	Opt. 650	n/c	Opt. 650	n/c
	Async. terminal emulator software	92239B	\$270.00 ea.*	92239B	\$270.00 ea.*★
	—Media: tape cartridge	Opt. 610	n/c	Opt. 610	n/c
	—Media: 3.5-in. disc	Opt. 630	n/c	Opt. 630	n/c
	—Media: 5.25-in. disc	Opt. 650	n/c	Opt. 650	n/c
	Datcom cable	92221C	\$ 70.00 ea.*	92221C	\$ 70.00 ea.*★
	Printer cable	92221T	\$ 70.00 ea.*	92221T	\$ 70.00 ea.*★

* Sorry, but quantity, contract, or other discounts do not apply to this special off-the-shelf price.

** Requires either 92239A or 92239B software.

† Order 82950A for modem with data cartridge. Specify either Option 650 for modem with 5.25-inch disc or Option 630 for modem with 3.5-inch disc.

★ For location of dealer nearest you, call: 800-FOR-HP (800-367-4772).

For product descriptions, see pages 44-45.

Welcome to the Software Section!

All the information you need to order software for your computer is listed in the following charts. More detailed product descriptions can be found by referring to the page numbers listed in the far right column of each table. Also, be sure to see our upgrade information and other software related products:

Ordering informationpages 48-53
Upgrade information page 48
Software package descriptionspages 50-73
Software related products pages 152-153



pfs: file & pfs: report

Series 100/123

context
MANAGEMENT SYSTEMS

Your greatest challenge
lies ahead-and downwards.

SERIES 80

PLANET

The WITN

BPI
General
Accounting

Chang
Labs
GraphPlan

diagraph

Series 100-CW-BASIC
by Microsoft





HP 85 Personal Computers

	Software package name	Product number*	Data cartridge	3.5-in. disc.	5.25-in. disc.	Required for operation†	Price	For description see
Business planning & analysis	Financial Decisions	82803A	Opt. 610	Opt. 630	Opt. 650		\$ 95.00 ea.	Page 55
	Portfolio Management	82814A	n/a*	Opt. 630*	Opt. 650*	D	250.00 ea.	Page 57
	VisiCalc® PLUS	82800A	Opt. 610	Opt. 630	Opt. 650	A,B,D,E,G	240.00 ea.	Page 57
Data base management	File Manager	88103A	n/a	Opt. 630	Opt. 650	B,D,G,J,L,M	\$200.00 ea.	Page 58
	Information Management	82817A	n/a	Opt. 630	Opt. 650	B,D,G,J	115.00 ea.	Page 58
Data communications	Data Communications	82821A	Opt. 610	Opt. 630	Opt. 650	A,C,D,F,K	\$200.00 ea.	Page 59
	Professional Communications	82850A	n/a	Opt. 630	Opt. 650	B,C,F, or K,J,L	200.00 ea.	Page 59
Entertainment	Games	82818A	Opt. 610	Opt. 630	Opt. 650		\$ 95.00 ea.	Page 69
	Games II	82819A	Opt. 610	Opt. 630	Opt. 650		95.00 ea.	Page 69
Engineering	AC Circuit Analysis	82810A	Opt. 610	Opt. 630	Opt. 650		\$ 95.00 ea.	Page 59
	Electronics Engineering Multi Pac (AC Circuit Analysis, Waveform Analysis, Math)	82812A	Opt. 610	Opt. 630	Opt. 650		225.00 ea.	Page 59
	Surveying	82813A	Opt. 610	Opt. 630	Opt. 650		95.00 ea.	Page 59
	Waveform Analysis	82809A	Opt. 610	Opt. 630	Opt. 650		95.00 ea.	Page 59
Graphics	Graphics Presentations	82801A	Opt. 610	Opt. 630	Opt. 650	A,B,D,E,G	\$240.00 ea.	Page 61
Programming	BASIC Training	82802A	Opt. 610	Opt. 630	Opt. 650		\$115.00 ea.	Page 64
	Standard Pac	82820A	Opt. 610	n/a	n/a		95.00 ea.	Page 65
Statistics/mathematics	Basic Statistics & Data Manipulation	82805A	Opt. 610	Opt. 630	Opt. 650		\$ 95.00 ea.	Page 66
	General Statistics	82804A	Opt. 610	Opt. 630	Opt. 650		95.00 ea.	Page 66
	Linear Programming	82808A	Opt. 610	Opt. 630	Opt. 650		95.00 ea.	Page 66
	Math	82811A	Opt. 610	Opt. 630	Opt. 650		95.00 ea.	Page 66
	Regression Analysis	82806A	Opt. 610	Opt. 630	Opt. 650	H	95.00 ea.	Page 66
	Statistical Analysis Multi Pac (Basic Statistics, General Statistics, Regression Analysis)	82807A	Opt. 610	Opt. 630	Opt. 650		225.00 ea.	Page 66
Word processing	Text Editing	82816A	Opt. 610	Opt. 630	Opt. 650		\$115.00 ea.	Page 67

* Must also include Option 610, 630 or 650.

* Data cartridge included in 3.5-inch and 5.25-inch disc versions of Portfolio Management package.

n/a not available

Note: product names followed by ® or ™ are trademarks of their respective companies. For a complete listing, see page 156.

† Additional system elements, if required to operate the software package, are:

- A ROM drawer (HP 82936A)
- B Plotter/printer ROM (HP 00085-15002)
- C I/O ROM (HP 00085-15003)
- D 16K byte memory module (HP 82903A)
- E HP-IB interface (HP 82937A)
- F Serial interface (HP 82939A)
- G Plotter (HP 7225B w/HP 17601A module HP 9872C, or HP 7470A)

H Basic statistics and data manipulation software (HP 82805A)

J Items A, E, N and Q

K Modem (HP 82950A, Opt. 630 or 650)

L Advanced programming ROM (00085-15005)

M Dual disc drive

N Mass storage ROM (HP 00085-15001)

O Disc memory (HP 82900 Series, 9121D/S, 9134A, 9135A or 9895A)

Hewlett-Packard offers low-cost software upgrades and replacement media

North American customers who have either damaged their software media or who wish to upgrade their software to the latest revision can do so by sending in their original media, along with a check or credit card number to:

Hewlett-Packard
Mail Order Dept.
P.O. Box 60008
Sunnyvale, CA 94088

Accompanying this media should be a software update order form which can be obtained from the *HP Series 100 Communicator* or by calling 800-538-8787 (in CA, HI, or AK call 408-738-4133).

International customers should take their original media to their local HP

sales office. The sales office will in turn order the replacements or upgrades.

Information on the most up-to-date software revisions is published in each issue of the *HP Series 100 Communicator*, see page 152.



HP 86 and HP 87 Personal Computers††

	Software package name†	Product number*	3.5-in. disc.	5.25-in. disc.	Required for operation††	Price	For description see
Business planning & analysis	DATEBOOK™ II (CP/M) HP +	45581A	Opt. 630	Opt. 650	N	\$295.00 ea.	Page 55
	Financial Decisions	82833A	Opt. 630	Opt. 650		95.00 ea.	Page 55
	Home Budget Manager	92248EA	Opt. 630	Opt. 650	96K bytes	69.00 ea.	Page 56
	MicroPlan™ (CP/M) HP +	45502A	standard	Opt. 650	N	500.00 ea.†††	Page 56
	MicroPlan Consolidation™ (CP/M) HP +	45503A	standard	Opt. 650	N	300.00 ea.†††	Page 56
	MILESTONE™ (CP/M) HP +	45580A	Opt. 630	Opt. 650	N	295.00 ea.	Page 56
	MultiPlan™ (CP/M) HP +	82855A	Opt. 630	Opt. 650	N	295.00 ea.	Page 56
	PERSONAL DATEBOOK™ (CP/M) HP +	45582A	Opt. 630	Opt. 650	N	150.00 ea.	Page 57
	Personal Productivity Pac	82846A	Opt. 630	Opt. 650	128K bytes A,B,G	615.00 ea.	Page 57
	Portfolio Management	82844A	Opt. 630	Opt. 650	96K bytes	250.00 ea.	Page 57
	VisiCalc™ PLUS	82830A	Opt. 630	Opt. 650	64K bytes A,B,G	275.00 ea.	Page 57
Data base management	dBase II* (CP/M) HP +	45583A	Opt. 630	Opt. 650	N	\$700.00 ea.	Page 58
	FILE/80	82824A	Opt. 630	Opt. 650	128K bytes, P	270.00 ea.	Page 58
	File Manager	88104A	Opt. 630	Opt. 650	D,G,K,M,P	200.00 ea.	Page 58
Data communications	Data Communications	82821A	Opt. 630	Opt. 650	A,C,E,L	\$200.00 ea.	Page 59
	Professional Communications	82851A	Opt. 630	Opt. 650	A,C,E,L	200.00 ea.	Page 59
	Term/80 (software only)	82849A	Opt. 630	Opt. 650	E,O	200.00 ea.	Page 59
Entertainment	Action Games	92248DA	Opt. 630	Opt. 650	64K bytes	\$ 39.00 ea.	Page 68
	Galaxy Patrol	92248FA	Opt. 630	Opt. 650	64K bytes	39.00 ea.	Page 68
Engineering	AC Circuit Analysis	82840A	Opt. 630	Opt. 650		\$ 95.00 ea.	Page 59
	Electronics Engineering Multi Pac (AC Circuit Analysis, WaveForm Analysis, Math)	82842A	Opt. 630	Opt. 650		225.00 ea.	Page 59
	Surveying	82843A	Opt. 630	Opt. 650		95.00 ea.	Page 59
	Waveform Analysis	82839A	Opt. 630	Opt. 650		95.00 ea.	Page 59
	Graphics Presentations	82831A	Opt. 630	Opt. 650	128K bytes A,B,G	\$275.00 ea.	Page 61
Programming	BASIC Training	82832A	Opt. 630	Opt. 650		\$115.00 ea.	Page 64
	CP/M* System (software only)	82848A	Opt. 630	Opt. 650	O	200.00 ea.	Page 64
Statistics/mathematics	Basic Statistics & Data Manipulation	82835A	Opt. 630	Opt. 650		\$ 95.00 ea.	Page 66
	General Statistics	82834A	Opt. 630	Opt. 650		95.00 ea.	Page 66
	Linear Programming	82838A	Opt. 630	Opt. 650		95.00 ea.	Page 66
	Math	82841A	Opt. 630	Opt. 650		95.00 ea.	Page 66
	Regression Analysis	82836A	Opt. 630	Opt. 650	J	95.00 ea.	Page 66
	Statistical Analysis Multi-Pac (General Statistics, Basic Statistics, Regression Analysis)	82837A	Opt. 630	Opt. 650		225.00 ea.	Page 66
Word processing	MailMerge™ (CP/M) HP +	45587A	Opt. 630	Opt. 650	N	\$125.00 ea.	Page 67
	Spellstar™ (CP/M) HP +	45588A	Opt. 630	Opt. 650	N	125.00 ea.	Page 67
	WordStar™ (CP/M) HP +	45584A	Opt. 630	Opt. 650	N	350.00 ea.	Page 68
	WORD/80	82823A	Opt. 630	Opt. 650	128K bytes	275.00 ea.	Page 68

* Must also include Option 630 or 650.

† HP Series 80 software marked with the **HP PLUS** logo (HP+) is developed by independent companies. This software has been checked through customer reference and by a Hewlett-Packard evaluation team for quality, ease of use and installation.

†† HP 86 and HP 87 Computers all require an external printer and disc memory (items F & H). Additional system elements, if required to operate the software package, are:
A ROM drawer (HP 82936A)
B Plotter/printer ROM (HP 00087-15002)

C I/O ROM (HP 00087-15003)
D 16K byte memory module (HP 82903A)
E Serial interface (HP 82939A)
F Disc memory (HP 82900-series: 9121D/S: \$134A, 9135A, or 9895A)
G Plotter (HP 7225B w/HP 17601A module, HP 9872C, or HP 7470A)
H Printer (HP 82905A/B or HP 2671A/G)
J Basic statistics and data manipulation software (HP 82305A)
K Items A, F, G and H
L Modem (HP 82950A, Opt. 630 or 650)

M Advanced programming ROM (00087-15005)
N CP/M System (HP 82900A)
O Auxiliary Processor Module
P Dual disc drive
Q HP-IB interface (HP 82937A)
R Mass storage ROM (HP 00087-15001)

††† Add \$25.00 to the listed price when ordering option 650 for 5.25-in. discs.

n/a: not available

Note: product names followed by * or † are trademarks of their respective companies. For a complete listing, see page 158.

★ For location of dealer nearest you, call:
800-FOR-HPPC (800-367-4772).



Touchscreen (HP 150) and The PORTABLE (HP 110)

	Software package name	Product number*	Available for:		Price	For description see
			Touchscreen	The PORTABLE		
Accounting	BPI Accounts Payable	45457A	•		\$425.00 ea.	Page 54
	BPI Accounts Receivable	45456A	•		425.00 ea.	Page 54
	BPI General Accounting	45455A	•		425.00 ea.	Page 54
	BPI Inventory Control	45460A	•		425.00 ea.	Page 54
	BPI Job Cost	45461A	•		425.00 ea.	Page 54
	BPI Payroll	45458A	•		425.00 ea.	Page 54
	BPI Personal Accounting System	45459A	•		195.00 ea.	Page 55
	Rags to Riches Ledger™	45520C		•	99.00 ea.	Page 55
	Rags to Riches Payables™	45523C		•	99.00 ea.	Page 55
	Rags to Riches Receivables™	45522C		•	99.00 ea.	Page 55
	Rags to Riches Sales™	45521C		•	99.00 ea.	Page 55
Business planning & analysis	The Calendar	35151D	•	•	\$ 49.95 ea.	Page 62
	Context MBA™	45481A	Touchscreen		495.00 ea.	Page 55
	Deluxe VisiCalc: (see VisiCalc:)	45405A	•		250.00 ea.	Page 57
	ExecuDesk	45444A	Touchscreen		95.00 ea.	Page 55
	Financial Calculator	45423A	Touchscreen		39.95 ea.	Page 56
	GraphPlan™	45467A	Touchscreen		300.00 ea.	Page 56
	MicroPlan™	45465A	Touchscreen		400.00 ea.	Page 56
	MicroPlan™ Consolidation Module	45466A	Touchscreen		200.00 ea.	Page 56
	MultiPlan™	45473D	Touchscreen	•	195.00 ea.	Page 56
	The Planner	35155D	•	•	49.95 ea.	Page 62
Data base management	1-2-3™ by Lotus™	45482A	•	built-in	495.00 ea.	Page 57
	Condor™ 1	45415A	Touchscreen		\$300.00 ea.	Page 57
	Condor™ 3	45416A	Touchscreen		700.00 ea.	Page 57
	Condor™ 1 to 3 Upgrade Kit	45417A	Touchscreen		500.00 ea.	Page 57
	DataFax™	45408C		•	299.00 ea.	Page 58
	dBase II™	45468D	•	•	500.00 ea.	Page 58
	The List Manager	35152D	Touchscreen	•	49.95 ea.	Page 62
	Personal Card File	45422A	Touchscreen		160.00 ea.	Page 58
	PFS: FILE & PFS: REPORT	45489A	Touchscreen		265.00 ea.	Page 58
Data communications	Advancelink™	45431A™	Touchscreen		\$295.00 ea.	Page 58
	Dow Jones Spreadsheet Link™	45511D	Touchscreen	•	250.00 ea.	Page 59
	MONITOR/IBM PC™	45439A™	for IBM PC		95.00 ea.	Page 59
	Transend COMPLETE™	45414A	Touchscreen		230.00 ea.	Page 59
	VT 100 Terminal Emulator	45412A	Touchscreen		180.00 ea.	Page 59
Entertainment	Adventure	92243D	Touchscreen	•	\$ 39.95 ea.	Page 70
	Baron™	92243KA	Touchscreen		59.95 ea.	Page 73
	CUTTHROATS™	92244AA	Touchscreen	•	39.95 ea.	Page 70
	Cyborg	92243NA	Touchscreen		39.95 ea.	Page 70
	DEADLINE™	92243VA	•	•	49.95 ea.	Page 70
	ENCHANTER™	92243UA	•	•	39.95 ea.	Page 71
	Hitchhiker's Guide™	92244BA	•	•	39.95 ea.	Page 71
	INFIDEL™	92243WA	•	•	44.95 ea.	Page 71
	Milky Way Merchant	92243BA	Touchscreen		39.95 ea.	Page 73
	Millionaire™	92243JA	Touchscreen		59.95 ea.	Page 73
	PLANETFALL™	92243PA	•	•	39.95 ea.	Page 71
	Ricochet™**	92243GB**	Touchscreen		39.95 ea.	Page 69
	Sargon III	92243MA	Touchscreen		49.95 ea.	Page 73
	SEASTALKER™	92243ZA	•	•	39.95 ea.	Page 71
	SORCERER™	92243YA	•	•	44.95 ea.	Page 71
	SpellBound™**	92243SA**	Touchscreen		69.95 ea.	Page 69
	STARCROSS™	92243DA	•	•	49.95 ea.	Page 72
	SUSPECT™	92244CA	•	•	44.95 ea.	Page 72
	SUSPENDED™	92243FA	•	•	49.95 ea.	Page 72
	Temple of Apshai™**	92243GA**	Touchscreen		39.95 ea.	Page 69
	Touch Games I**	92248AA**	Touchscreen		39.00 ea.	Page 69
	Tycoon™	92243HA	Touchscreen		59.95 ea.	Page 73
	Type Attack™	92243EA	•	•	39.95 ea.	Page 69
	Winning Deal	92248CA	Touchscreen		39.00 ea.	Page 73
	The WITNESS™	92243OA	•	•	39.95 ea.	Page 72
	ZORK™ I	92243CA	•	•	39.95 ea.	Page 72
	ZORK™ II	92243RA	•	•	44.95 ea.	Page 72
	ZORK™ III	92243TA	•	•	44.95 ea.	Page 72

	Software package name	Product number*	Available For: Touchscreen | The PORTABLE	Price	For description see
Graphics	Charting Gallery	45513A	•	\$265.00 ea.	Page 60
	Drawing Gallery	45411A	•	345.00 ea.	Page 60
	Diagraph™	45463A	•	435.00 ea.	Page 60
	Gallery Collection	45437A	•	585.00 ea.	Page 60
	Gallery Picture Library, Vol. II	45433A	•	95.00 ea.	Page 60
	Graphwriter™ Basic Set	45484A	•	395.00 ea.	Page 61
	PFS: GRAPH	45490A	•	140.00 ea.	Page 61
	Picture Perfect™	45462A	•	325.00 ea.	Page 61
Personal solutions	The Calendar	35151D	•	\$ 49.95 ea.	Page 62
	The List Manager	35152D	•	49.95 ea.	Page 62
	Mind Prober™	35161C	•	59.95 ea.	Page 63
	Personal Correspondence Pack	35156D	•	125.00 ea.	Page 63
	Personal Organizer Pack	35157D	•	125.00 ea.	Page 63
	The Planner	35155D	•	49.95 ea.	Page 62
	The Speller	35154D	•	49.95 ea.	Page 63
	The Writer	35153D	•	49.95 ea.	Page 63
Programming	BASIC Programmer's Library	45310A	•	\$110.00 ea.	Page 64
	COBOL by Microsoft™	45448A	•	750.00 ea.	Page 64
	Compiled BASIC by Microsoft™	45446D	•	395.00 ea.	Page 64
	Cross Reference Utility	92248BA	•	49.00 ea.	Page 64
	Forms Master	45443A	•	295.00 ea.	Page 64
	FORTRAN by Microsoft™	45449A	•	350.00 ea.	Page 64
	GW™-BASIC by Microsoft™	45450D	•	395.00 ea.	Page 64
	Icon Design System	45311A	•	99.00 ea.	Page 65
	Lattice C Compiler	45452D	•	495.00 ea.	Page 65
	PASCAL by Microsoft™	45447D	•	350.00 ea.	Page 65
	Programmer's Tools (The PORTABLE)	45419C	•	325.00 ea.	Page 65
	Series 100/BASIC by Microsoft™	45445D	•	300.00 ea.	Page 65
	Touchscreen Programmer's Tools	45435A	•	295.00 ea.	Page 65
Word processing	Executive MemoMaker	45418A	•	\$245.00 ea.	Page 67
	Microsoft Word	45474D	•	375.00 ea.	Page 67
	MultiMate™†	45424A†	•	495.00 ea.	Page 67
	PFS: WRITE	45489A	•	140.00 ea.	Page 67
	The Speller	35154D	•	49.95 ea.	Page 63
	The Writer	35153D	•	49.95 ea.	Page 63
	Type-a-Line	45680A	•	69.00 ea.	Page 68
	WordStar™	45400D	•	350.00 ea.	Page 68
	WordStar Professional™††	45427D††	•	550.00 ea.	Page 68
	WordStar Professional™†††	45429D†††	•	250.00 ea.	Page 68
	Options				

* All applications, except MONITOR IBM PC and where noted, are compatible with any HP 3.5-in. disc drive.

** A touch screen is required to operate this program.

*** Software for The IBM® PC. Standard 5.25-in. floppy disc in IBM format.

† Requires 384K bytes of memory, minimum.

†† Requires a dual-sided or hard disc system with 384K bytes of memory, minimum.

††† Requires WordStar version 3.3B or later and a dual-sided or hard disc system with 384K bytes of memory, minimum.



HP Series 200: Models 216, 220, 226 & 236 Personal Technical Computers*

	Software package name	Product number***	HP 216/220 3.5-in. disc.	HP 216/220 5.25-in. disc.	HP 226/236 5.25-in. disc.	Required for operation**	Price	For description see
Business planning & analysis	Context MBA™††	45481B	Opt. 630	Opt. 650	Opt. 655†	512K**	\$795.00 ea.	Page 55
	Forecasting	98818A	Opt. 630	Opt. 650	Opt. 655	180K, B2.0	500.00 ea.	Page 56
	Project Management	98817A	Opt. 630	Opt. 650	Opt. 655	130K, B3.0	500.00 ea.	Page 57
	VisiCalc®	98810A	Opt. 630	Opt. 650	Opt. 655	320K	275.00 ea.	Page 57
Entertainment	Adventure	92244GA	Opt. 630	na	na	B2.0 or B3.0	\$ 39.95 ea.	Page 70
	Games 200	45475B	Opt. 630	na	na	512K**	49.00 ea.	Page 68



HP Series 200: Models 216, 220, 226 & 236 Personal Technical Computers* (cont.)

	Software package name	Product number***	HP 216/220 3.5-in. disc.	HP 216/220 5.25-in. disc.	HP 226/236 5.25-in. disc.	Required for operation**	Price	For description see
Engineering	AC Circuit Analysis	98825A	Opt. 630	Opt. 650	Opt. 655	100K, B2.0	\$500.00 ea.	Page 59
	Digital Filter Design	98828A	Opt. 630	Opt. 650	Opt. 655	256K, B2.0	500.00 ea.	Page 59
	Linear Systems Analysis	98826A	Opt. 630	Opt. 650	Opt. 655	180K, B2.0	500.00 ea.	Page 59
	Waveform Analysis	98827A	Opt. 630	Opt. 650	Opt. 655	320K, B2.0 HP-IB printer	500.00 ea.	Page 59
Graphics	Data Grapher/200†	45480B	Opt. 630†	Opt. 650†	Opt. 655	512K**,	\$295.00 ea.	Page 60
	Graphics Editor/200	45537B	Opt. 630	Opt. 650	Opt. 655	512K**, D,E	445.00 ea.	Page 60
	Graphics Presentations	98815A	Opt. 630	Opt. 650	Opt. 655	230K, B3.0 plotter	750.00 ea.	Page 61
	Picture Perfect™ ††	45462B	Opt. 630††	n/a	Opt. 655††	512K**	595.00 ea.	Page 61
Programming	User Definable Softkeys†††	45472B	Opt. 630†††	n/a	Opt. 655	Pascal Workstation 2.1 or 3.0	\$ 79.00 ea.	Page 65
Statistics/mathematics	Numerical Analysis Library	98821A	Opt. 630	Opt. 650	Opt. 655	100K, B3.0	\$500.00 ea.	Page 66
	Statistics Library, Complete	98820A	Opt. 630	Opt. 650	Opt. 655	260K, B3.0	1500.00 ea.	Page 66
	Statistics Library, Part I	98820B	Opt. 630	Opt. 650	Opt. 655	260K, B3.0	925.00 ea.	Page 66
	Statistics Library, Part II	98820C	Opt. 630	Opt. 650	Opt. 655	260K, B3.0	750.00 ea.	Page 66
Word processing	HP TechWriter	98819A	Opt. 044	Opt. 043	Opt. 042	512K**, A	795.00 ea.	Page 67
	Text Editor/200	45538B	Opt. 630	Opt. 650	Opt. 655	512K**, B2.0 or B3.0	275.00 ea.	Page 67

* Originally Models 9816, 9920, 9826 & 9836. Also referred to in this catalog as HP 216, HP 220, HP 226, and HP 236.

** Memory requirements are stated in terms of additional read/write memory needed except for those items with a double asterisk (**). All packages require either BASIC version 2.0 (B2.0) or 3.0 (B3.0) except Context MBA™, VisiCalc® and HP TechWriter. The versions of BASIC are not interchangeable.

*** For all products **except** HP TechWriter, you must order one of the following options to specify the HP Series 200 computer model and disc size:

Opt. 630 Model 216 or Model 220 3.5-in. flexible disc.
Opt. 650 Model 216 or Model 220 5.25-in. flexible disc.
Opt. 655 Model 226 or Model 236 5.25-in. flexible disc.
For **HP TechWriter** order one of the following options:
Opt. 044 Model 216 or Model 220 3.5-in. flexible disc.
Opt. 043 Model 216 or Model 220 5.25-in. flexible disc.
Opt. 042 Model 226 or Model 236 5.25-in. flexible disc.

† Context MBA and Data Grapher are not available for model 226.

†† Picture Perfect is not available for models 220 and 226.

††† User Definable Softkeys is not available for model 220.

A Requires 10 PROMs

D Supports color on model 236

E 768Kb required for model 236 C

Note: product names followed by * or ** are trademarks of their respective companies. For a complete listing, see page 158.



HP Series 200: Models 217 and 237 Personal Technical Computers

	Software package name	Product number*	HP 217/237 3.5-in. disc.	HP 217/237 5.25-in. disc.	Required for operation**	Price	For description see
Business planning & analysis	Context MBA™	45481B	Opt. 630	Opt. 650	512K**	\$795.00 ea.	Page 59
	Project Management	98817A	Opt. 630	Opt. 650	130K, B3.0	500.00 ea.	Page 57
Entertainment	Adventure	92244GA	Opt. 630	n/a	B3.0	\$ 39.95 ea.	Page 70
	Games/200***	45475B	Opt. 630***	n/a	512K**	49.00 ea.	Page 68
Graphics	Data Grapher/200***	45480B	Opt. 630***	Opt. 650***	512K**	\$295.00 ea.	Page 60
	Graphics Editor/200	45537B	Opt. 630	Opt. 650	512K**, B	445.00 ea.	Page 60
	Graphics Presentations	98815A	Opt. 630	Opt. 650	230K, B3.0 plotter	750.00 ea.	Page 61
	Picture Perfect™****	45462B	Opt. 630***	n/a	512K**	595.00 ea.	Page 61
Statistics/mathematics	Numerical Analysis Library	98821A	Opt. 630	Opt. 650	100K, B3.0	\$500.00 ea.	Page 66
	Statistics Library, Complete	98820A	Opt. 630	Opt. 650	260K, B3.0	1500.00 ea.	Page 66
	Statistics Library, Part I	98820B	Opt. 630	Opt. 650	260K, B3.0	925.00 ea.	Page 66
	Statistics Library, Part II	98820C	Opt. 630	Opt. 650	260K, B3.0	750.00 ea.	Page 66
Word processing	HP TechWriter	98819A	Opt. 044	Opt. 043	512K**, A	795.00 ea.	Page 67
	Text Editor/200	45538B	Opt. 630	Opt. 650	512K**, B3.0 C	275.00 ea.	Page 67

* Except for HP TechWriter, one of the following options must be ordered with the product number:
Opt. 630 Model 217 or Model 237 3.5-in. flexible disc.
Opt. 650 Model 217 or 237 5.25-in. flexible disc.
For HP TechWriter order either of the following options:
Opt. 044 Model 217 or Model 237 3.5-in. flexible disc.
Opt. 043 Model 217 or Model 237 5.25-in. flexible disc.

** Memory requirements are stated in terms of additional read/write memory needed except for those items with a double asterisk (**).

*** Games/200, Data Grapher, and Picture Perfect are not available for model 237.

Note: product names followed by * or ** are trademarks of their respective companies. For a complete listing see page 158.

A Requires 10 PROMs

B Model 237 customers may require additional memory for complex drawings.

C Basic 3.0 customers may desire more memory when creating large documents.



HP Series 200 HP-UX: Models 217, 220, 236 and The Integral PC

	Software package name*	Product number	3.5-in. disc.	.25-in. Linus tape†	Required for operation	Price	For description see
Business planning & analysis	Calculator/HP-UX (SU)	45413G	standard	Opt. 022	A	\$ 75.00 ea.	Page 55
	Calculator/HP-UX (MU)	45413H	standard	Opt. 022	B	150.00 ea.	Page 55
	Management Solution (SU)	45438G	standard	Opt. 022	A	1,118.00 ea.††	Page 56
	Management Solution (MU)	45438H	standard	Opt. 022	B	2,159.00 ea.††	Page 56
	MicroTrak™ (SU)	45524G	standard	Opt. 022	A	775.00 ea.	Page 56
	MicroTrak (MU)	45524H	standard	Opt. 022	B	1550.00 ea.	Page 56
	MultiPlan: (SU)	45473G	standard	Opt. 022	A	345.00 ea.	Page 56
	MultiPlan (MU)	45473H	standard	Opt. 022	B	595.00 ea.	Page 56
Data communications	DataComm**	82815J**	standard	n/a	**	\$195.00 ea.	Page 58
Programming	HP-UX BASIC**	82860J**	standard	n/a	**	\$295.00 ea.	Page 64
	HP-UX C Compiler**	82857J**	standard	n/a	**	295.00 ea.	Page 64
	HP-UX Development System**	82856J**	standard	n/a	**	495.00 ea.	Page 65
Statistics/mathematics	TK!Solver® (SU)	45515G	standard	Opt. 022	A	\$499.00 ea.	Page 66
	TK!Solver (MU)	45515H	standard	Opt. 022	B	999.00 ea.	Page 66
	TK!Solver Packs:						
	Building Design & Construction***	45518G	standard	Opt. 022	C	125.00 ea.	Page 66
	Financial Management***	45516G	standard	Opt. 022	C	125.00 ea.	Page 66
	Introductory Science***	45519G	standard	Opt. 022	C	125.00 ea.	Page 66
Word processing	MemoMaker (SU)	45420G	standard	Opt. 022	A	\$195.00 ea.	Page 67
	MemoMaker (MU)	45420H	standard	Opt. 022	B	395.00 ea.	Page 67

† Add \$125.00 per application to listed price when ordering option 022 for Linus tape.

†† This product contains MemoMaker, MicroTrak and MultiPlan. Add \$375.00 (\$125.00 per application) when ordering option 022.

* SU designates single-user version
MU designates multi-user version

** Available only for The Integral Personal Computer

*** TK!Solver Pack templates require the TK!Solver program for operation

A Single-User Version. Requires HP-UX version 2.1 or 2.2

B Multi-User Version. Requires HP-UX version 2.1 for models 220 and 236 only

C Will operate with either single-user or multi-user version of TK!Solver

For our HP customers with IBM® PCs

	Software package name	Product number*	Price	Required for operation	For description see
Data base management	Personal Card File	45422E	\$160.00 ea.		Page 58
Data communications	AdvanceLink MONITOR/IBM PC	45431E	\$295.00 ea.	A	Page 58
		45439A	95.00 ea.	B	Page 59
Entertainment	Baron™	92245AA**	\$ 59.95 ea.		Page 73
	Millionaire™	92245BA**	59.95 ea.		Page 73
	Tycoon™	92245EA**	59.95 ea.		Page 73
Personal solutions	The Calendar	92245NA**	\$ 49.95 ea.		Page 62
	The List Manager	92245DA**	49.95 ea.		Page 62
	The Planner	92245PA**	99.95 ea.		Page 62
	The Speller	92245QA**	49.95 ea.		Page 63
	The Writer	92245RA**	49.95 ea.		Page 63
Word processing	MemoMaker	45420E	\$160.00 ea.	B	Page 67

* Standard 5.25-in. floppy disc in IBM® format

** Please note: This IBM® software is not an HP product and therefore is not supported by the HP-COACH organization. These products are available only in the U.S.A.

A Requires 256K minimum memory and PC-DOS 2.0 or later

B Requires 128K RAM memory and PC-DOS 2.0 or later

Note: product names followed by ® or ™ are trademarks of their respective companies. For a complete listing, see page 158

accounting



BPI Accounts Payable

• Touchscreen

BPI Accounts Payable computerizes vendor control, check writing, and cash requirements management. It eliminates much of the time spent determining the amount of payments and when they are due. These calculations are performed automatically, based on each of your vendor's specific terms. With Accounts Payable you can select the method of accounting, maintain detailed vendor files, edit invoices, select check disbursements, write checks automatically, and maintain multiple bank accounts. You can print flexible aging and cash requirement reports along with

check registers, voucher registers, ledgers and journals.

BPI Accounts Payable can stand alone or merge with BPI General Accounting, BPI Inventory Control, and BPI Job Cost.

BPI Accounts Receivable

• Touchscreen

BPI Accounts Receivable can grow with your company. It expands in capacity with the execution of a single command. If you have a large number of customer accounts, you'll appreciate the flexibility of this system. With this system, you can:

- Set up your accounts receivable ledger based on either the balance forward or the open item method of maintaining accounts.
- Use four kinds of customer accounts, including nonrevolving and revolving accounts, those with fixed, required payments, and customer accounts with periodic, repetitive charges.
- Set up two levels of finance charges, specify the rate and the minimum balance for each, and still waive finance charges for specific customers.
- Determine the number of days in a billing period and the month that marks the end of your fiscal year.

The system prints customer statements, past due notices, mailing labels, current period journal activity, and both customer and general ledgers. You can print detailed analyses of customer accounts showing the following: balance forward, last transaction date, aged balances, charges year-to-date, finance charges year-to-date, times billed for the year-to-date and for the life of the account, and the number of times the account has been past due.

You can set up a stand-alone accounts receivable system, or you can design it to merge with General Accounting.

BPI General Accounting

• Touchscreen

BPI General Accounting System is designed to simplify bookkeeping by offering a series of computerized accounting procedures. You can automatically record a single transaction as a double entry to designated control accounts, merge the system with other books with a single entry for each account, or use it independently as a stand-alone system.

Print up to 10 profit-and-loss sub-statements for various branches or departments, plus a consolidated profit-and-loss statement. Trial balance, profit-and-loss statements, and balance sheet may be printed at any time during the month. Up to 2,000 accounts are available to be divided among general ledger, accounts receivable, accounts payable, payroll, and cash disbursements.

BPI Inventory Control

• Touchscreen

Whether you need a system to track back orders or a method to cost existing inventory, BPI Inventory Control can help. Choose one of three accounting methods to cost your inventory: FIFO, LIFO, or average; establish up to 10 departments for your company or 10 branch locations; produce a single or consolidated income and expense statement, or multiple statements for various departments; create back orders automatically; track low balance inventory items; or list your inventory items 12 different ways. With BPI Inventory Control, you can print purchase orders, sales invoices, journal activity, price labels, packing lists, and end-of-period reports.

And the list goes on . . . set up a stand-alone inventory system or merge BPI Inventory Control with three other BPI accounting systems: Accounts Receivable, Accounts Payable, or General Accounting.

BPI Job Cost

• Touchscreen

BPI Job Cost allows you to report job income either by completed job or by percentage of completion. You can put together and print a job estimate simply by establishing and entering job codes, work codes, and combinations of quantities, rates, and dollar amounts. You can also compare actual and estimated costs and quantities on a percentage of completion basis. You can produce numerous reports such as job status, job profit and loss, job cost general ledger and journal, and monthly cost summary reports.

BPI Job Cost can stand alone or merge with BPI Accounts Payable and BPI General Accounting.

BPI Payroll

• Touchscreen

This full-function system provides for automatic payroll processing, check printing and transfer of data to the optional BPI General Ledger.

Using standard double-entry accounting, the Payroll system will calculate all taxes and deductions, track vacation days and pay, sick days and pay, tips, advances and reimbursements. It also allows for an employer-sponsored IRA (Individual Retirement Account). Employees may be salaried, hourly or commissioned. They can live in different states or even be on different pay cycles.

You can subscribe, at a nominal charge, to an update service from BPI which provides employment tax table changes affecting the states and localities you operate in.

The system can handle up to 100 employees.

BPI Personal Accounting System

• Touchscreen

BPI Personal Accounting System lets you take advantage of the speed and accuracy of computerized accounting in managing your own finances. Quickly and easily, you can: unravel snags in your checking account while reconciling your monthly statement; get a handle on your credit cards by recording your charges in up to 10 accounts; plan a budget for income and expense accounts; and print checks automatically on your computer printer.

You set up your own set of accounts within these five categories: assets, liabilities, net worth, income and expenses. Personal Accounting will calculate the balance of each account and print reports describing your current financial status.

Printed reports from the system can include: a list of checks written and deposits made for each of 10 checking accounts; a list of outstanding checks and deposits in transit; a general journal; an amortization schedule, in which the system calculates the interest and principal portions of each loan or mortgage payment; and two different statements of net worth that summarize your assets.

You can also receive profit and loss statements, lists of your accounts, and lists of your payees and payors.

Rags to Riches Ledger™

• The PORTABLE

An easy-to-use general ledger program for small businesses, Rags to Riches Ledger constantly displays the business bottom line—income, expenses, assets, liabilities, estimated profits and net worth. The screen is updated each time a transaction is posted. The Ledger can integrate with Rags to Riches Sales™, Payables and Receivables modules.

Rags to Riches Payables™

• The PORTABLE

This easy-to-use accounting package keeps track of purchases, credit/debit memos and payments to vendors. As invoices and payments are recorded, the totals immediately accumulate on the screen.

You can even obtain a cash requirement summary for a given period or customize a payment schedule based on due dates and discount dates. The program also integrates with Rags to Riches Ledger.

Rags to Riches Receivables™

• The PORTABLE

Easy-to-use and perfect for small businesses, Rags to Riches Receivables keeps track of purchases, payments and credit/debit memos by customer. It shows the exact status of any customer account at the touch of a key. Order history, payment history and aging reports are available on screen or in printed reports. It integrates with Rags to Riches Ledger.

Rags to Riches Sales™

• The PORTABLE

Rags to Riches Sales provides record keeping, sales analysis, and point-of-sales applications for small retail businesses, as well as automatically calculates tax and change. Individual keyboard keys can be assigned to record the sales of a specific item or to identify a type of payment. Receipts and invoices can be easily customized to the individual retailer. It integrates with the Ledger program.

Note: product names followed by * or ™ are trademarks of their respective companies. For a complete listing, see page 158.

business planning and analysis

Calculator/HP-UX

• Series 200 HP-UX • Integral

Calculator combines the power, simplicity, and ease-of-use found on all HP calculators with HP's most popular calculator functions. The functions provided include: mathematical and scientific calculations, trigonometric calculations and coordinate conversions, statistical and trend analysis, and business and financial solutions.

Context MBA™

• Touchscreen • HP216/220/236
• HP217/237

For managers and other professionals who need to analyze data for decision-making, and then summarize the results for reports or presentations.

Context MBA helps you: generate reports analyzing current sales data; predict and describe budget requirements based on current year expenses; create a model to compare planned inventory with actual inventory on hand and then report the findings; and write executive memos and reports.

Context MBA software includes spreadsheet, graphics, word processing, database management, and telecommunications. These five MBA functions all work with the same information—once

information is entered, all parts of the program have access to it. So a change in a spreadsheet immediately causes a change in a displayed graph.

The windowing feature allows more than one function at a time to appear on the screen so data can be analyzed in several different ways. For instance, when changing a spreadsheet value, you can immediately see the change in a graph that is displayed concurrently.

The Calendar

(See page 62.)

DATEBOOK™ II

• HP86/87

This program gives an individual or clerical staff a more efficient way to manage time than with an appointment book. It is useful where time management is critical to efficiency: in doctors' offices, legal firms, and other professional offices. Appointments can be scheduled, cancelled, modified, moved or held until they can be rescheduled. Openings can be searched by time of day, day of week, or day of year. Print the appointments for the day, display all scheduled appointments for any person, or schedule a conference at a convenient time for all attendees.

ExecuDesk

• Touchscreen

ExecuDesk integrates selected HP software into a single solution. Its data transfer capabilities allow you to type data once and transfer that information from application to application quickly and easily. As you switch, each application remembers and displays the last screen used, positioning the cursor in the same place you left it.

ExecuDesk integrates these HP software packages: Deluxe VisiCalc® (version B.01.02), MemoMaker (B.01.02), and Personal Card File (B.01.02). It also integrates any version of Charting Gallery, Drawing Gallery, Executive MemoMaker, Financial Calculator and Series/100 Graphics. A free copy of Financial Calculator is included with every copy of ExecuDesk.

Financial Decisions

• HP85 • HP86/87

An easy-to-use aid in evaluating financial decisions. Programs include: compound interest, loan amortization, discounted cash flow, depreciation, interest conversions, bonds, notes, breakeven analysis, and odd-days interest.

For software prices and product numbers, see pages 48–53.

business planning and analysis (cont.)



Financial Calculator

- Touchscreen

Financial Calculator is a program that simulates the HP-12C Business Calculator. You use the calculator displayed on the screen just as you would use the HP-12C by touching its keys and functions. The familiar display comes with an impressive level of functionality. In addition to the HP-12C's full computing and programming power (see page 28), you can copy all your programs and registers onto files and recall them at will. This enables you to build your own program library. You can also transfer results to VisiCalc® or Lotus 1-2-3™ spreadsheets, and print calculations on a printer.

Forecasting

- HP216/220/226/236

Allows time-series data to be analyzed, smoothed, forecasted and plotted using a variety of statistical techniques.

GraphPlan™

- Touchscreen

GraphPlan is an integrated package for people who need a powerful financial spreadsheet and graphics combination at a reasonable price.

GraphPlan, developed by Chang Laboratories, features an outstanding implementation of HP Touch. The spreadsheet capabilities, which are particularly strong for modeling sophisticated problems, are easily invoked via a single-stroke command menu. GraphPlan features "One Touch" graphics capabilities, whereby the user can create high-quality graphics directly from the spreadsheet with a single touch-driven command.

GraphPlan also has a report generator, ranking and sorting capabilities, and integrates with MicroPlan™, (see next column).

Home Budget Manager

- HP86/87

Written for the HP86/87, Home Budget Manager helps you monitor and control your household budget. Enter income, expense, and budget information in detailed categories, then compare and analyze the data with reports and graphics. With Home Budget Manager you can record income and expenses in your own format; create a budget which corresponds to your customized expenses, then compare your outlays against your budget; enter checks into multiple expense categories; record autoteller, bank charge and cash expense entries; flag and track tax exempt income and expenses; and create reports and graphs.

The Management Solution/HP-UX

- Series 200 HP-UX
- Integral

Includes HP-UX versions of MemoMaker, Multiplan® and MicroTrak™ at a 15% savings over the combined list price of the individual products described on this page and page 67.

MicroPlan™

- HP86/87
- Touchscreen

MicroPlan is a financial planning package designed for the serious business user. Formulas are built in, and no replication is required. On-screen commands are referenced by numbers, so typing skills are not needed.

As you develop a spreadsheet with MicroPlan, the commands used are automatically documented so that continuity is assured. To find out how a worksheet was developed, you press the command for "show rows," and the sequence of commands will be shown, with their prompted values.

"Programming" in MicroPlan does not mean COBOL or BASIC. It can be thought of as a command stack or keystroke memory. In the program mode, MicroPlan remembers all commands you are executing, and puts them in a file for later execution. With the program mode, a manager can set up a complex table that needs to be updated periodically; an assistant can then do the updating by following the prompt messages which the manager has supplied.

MicroPlan's report generator includes features such as variable column width, \$ and % signs for rows and columns, automatic pagination, and <> for negative numbers. Financial commands include depreciation, loan amortization, discounted cash flow, internal rate of return, and tax scheduling. Statistical commands include variance, delta, sigma, and mean.

An add-on consolidation module (see below) is used for calculations across tables, sensitivity analysis, and drawing outside data directly into MicroPlan.

MicroPlan Consolidation Module™

- HP86/87
- Touchscreen

MicroPlan Consolidation Module is an add-on to MicroPlan for consolidation of different reports, and for drawing data into MicroPlan from outside sources such as spreadsheets, general ledgers, and databases.

Reports from different departments, individuals, services, regions, or time periods can be consolidated for variance analysis or other management summaries. MicroPlan's built-in variance command will tally the differences between an actual and projected budget, and supply the percentage of variance for the items selected, or for the whole report.

MicroTrak™/HP-UX

- Series 200 HP-UX
- Integral

MicroTrak is a professional project management system. With just a few keystrokes, you can easily plan project requirements. Define the time required for various tasks and MicroTrak will show when each task must be completed to ensure the success of your project. With MicroTrak, you can plan projects, coordinate resources, track costs, compare "what if" scenarios, generate up-to-date reports, and print time-scaled schedules.

MILESTONE®

- HP86/87

A project management and time scheduling product that uses PERT/CPM techniques to increase productivity and management of small projects. It helps project leaders and small business owners clarify the tasks at hand and communicate schedules and priorities.

Stresses interactivity and comprehensive reporting. The list of associated activities provides a thread used to link all jobs together into an overall project schedule. Adding or changing activities will be recomputed into the schedule and the results are immediately displayed on the screen.

Multiplan®

- HP86/87
- Touchscreen
- The PORTABLE
- Series 200 HP-UX
- Integral

An electronic worksheet that is designed to help you get fast answers to many planning, modeling, and forecasting questions. It starts by presenting you with a blank grid of rows and columns. You build your worksheet on this grid, just as you would on ledger paper. You enter numbers and connect them with the formulas you ordinarily use. After that, you do the brain work and the computer does the calculations.

MultiPlan's features include the ability to build formulas by highlighting cells, command prompting, full English words for commands, on-line reference guide, and up to eight display windows. Its cell referencing methods include naming, relative reference, and absolute reference.

There are a variety of built-in functions, such as arithmetic, trigonometric, conditional (if-then, and, or), table (lookup, index), net present value, and standard deviation. MultiPlan also offers variable column width, a user-assignable decimal point, text calculation, and alphabetical and numerical sorting. Popular report options include variable margins, automatic pagination, and print formulas.

1-2-3™ by Lotus™ Development Corporation

• Touchscreen

1-2-3 from Lotus combines three powerful tools for decision making: data base management, spreadsheet and graphics. Its easy-to-use, yet powerful, capabilities will allow you to organize important information in different formats and display the results with attractive graphics. All of this can be done without switching discs or learning new commands. With its menu-driven structure, on-line help facility (more than 250 screens of information tied to your current activity), and disc tutorial (six lessons), 1-2-3 is unmatched in its convenience for both the novice and the expert.

1-2-3's generous worksheet—2,048 rows by 256 columns—provides ample space for even the largest spreadsheets. Its graphic capabilities also are extensive, and make it possible to create line,

bar, stacked-bar, pie and scatter charts with only a few keystrokes. The data base management function will allow up to 2,047 records that can be extracted and printed as full or partial reports.

A macro capability is included, along with numerous mathematical functions, for advanced applications. 1-2-3 also will allow you to exchange ASCII text files with other programs.

PERSONAL DATEBOOK™

• HP86/87

Offers many of the advantages of DATEBOOK II, but is designed for the individual who keeps a personal calendar. PERSONAL DATEBOOK can maintain appointments for up to nine people; the group feature is not included. The overall capacity is the same as DATEBOOK II with a similar configuration, but PERSONAL DATEBOOK shows more of one person's schedule on the screen at one time.

Personal Productivity Pac

• HP86/87

Personal Productivity Pac contains VisiCalc®, WORD/80 and FILE/80 at a reduced price.

The Planner

(See page 62.)

Portfolio Management

• HP85 • HP86/87

A software package that helps individual investors and professional investment advisors monitor their portfolios. Softkey and prompt-driven commands make it easy to enter investments for net worth

valuation and tax planning. A connection with the Dow Jones News/Retrieval® Service lets you automatically update the current market value of your portfolio of stocks, bonds, warrants, T-bills and mutual funds. You can also handle cash, real estate, liabilities, and other investments in your portfolio. Handles up to 100 investment items, with an unlimited number of portfolios (35 portfolios stored on each data cartridge or disc).

Project Management

• HP216/220/226/236 • HP217/237

Analyzes project networks using CPM, PERT and MPM techniques. The output is in GANTT chart form.

VisiCalc®

• HP85 • HP86/87 • Touchscreen • HP216/220/226/236

HP85/86/87 VisiCalc PLUS: The "PLUS" is an ability to produce line, bar, and pie charts from row and column information without entering new data.

Touchscreen Deluxe VisiCalc with *Touch*. This enhanced version of VisiCalc is an important planning tool for managers and professionals. Deluxe VisiCalc features an expanded row range of 500 lines while offering consolidation, command files, and block replicating in addition to calendar, business and statistical functions.

Note: product names followed by ® or ™ are trademarks of their respective companies. For a complete listing, see page 158.

data base management

Condor™ database packages

Powerful and user-friendly data management products that allow you to manage your business instead of your data. You can set up a useful database quickly and easily and transfer data to other Series 100 applications. With WordStar® and MailMerge®, create vendor and client lists, form letters, and mailing labels. Generate customer applications using help menus and English-like commands.

Two versions of Condor are available. Condor 1 is a low-cost entry-level system for simple databases. Condor 3 features

relational, advanced reporting, and indexing capabilities. An upgrade kit is available to take you from Condor 1 to Condor 3.

Condor 1

• Touchscreen

HELP menus let you use databases for daily applications with minimal training. Create a database quickly and easily by typing a form on the screen. Enter, update, and list the data using the same form. You can sort your data, compute simple statistics, and produce simple row and column reports.

Can be upgraded to Condor 3.

Condor 3

• Touchscreen

Provides all the capabilities of Condor 1 plus relational database functions, allowing you to retrieve, sort and print information from databases. Commands which allow you to join, project, post and combine multiple files are included. Condor 3 has a report generator that allows you to create customized reports in a wide variety of formats. Its indexing features give you more rapid access to the database; eliminate the need to presort before printing; and, create indexes for existing, non-indexed databases.

For software prices and product numbers, see pages 48-53.

data base management (cont.)

DataFax™

• The PORTABLE

DataFax is an unstructured data management system which offers a tremendous amount of power for the organization of non-numeric information. This is an ideal program to organize all the notes that accumulate on your desk, during sales calls, or during telephone conversations. DataFax does not require the use of the formatted structure of most data management systems. Therefore it operates in a very flexible manner to manage written data and to cross-reference information in a variety of ways.

dBASE II®

• HP86/87 • Touchscreen • The PORTABLE

dBase II is a data management tool for constructing and manipulating numeric and character information files.

A special feature of dBase II is its own English-style program-building language. You may sort, edit, or display a database directly from the keyboard, or write menus and programs to support your specific applications. Use the full-screen editing facility to prompt operator input or to format data output into orderly, attractive reports.

Applications that dBase II has been used for include: general ledger, journal of accounts, accounts receivable, accounts payable, sales tax records, payroll, check management and writing, time billing, inventory control, job costing, tax computation, and document cross-referencing.

FILE/80

• HP86/87

Solution-oriented file management system designed to provide user with an efficient method of managing files and producing output (records, labels, letters) from information in the files.

File Manager

• HP85 • HP86/87

Create and enter data into a file structure and then perform searching, sorting, reporting and plotting functions. Report results in one of three versatile formats, or create attention-getting line, curve, bar and pie charts. Softkeys allow you to select and initiate a command by pressing a single key which is labeled on the screen. A HELP key will guide you through each procedure. It can handle up to 1000 records of 1000 bytes each (file size dependent on the capacity of your mass storage). Data can be translated to a string data file for use with other software such as VisiCalc® PLUS.

Information Management (IMPac)

• HP85

Provides a powerful, flexible system for list management. Each record can be 20 to 1024 bytes long. Fields can be defined as alphanumeric, numeric-only and dollars. Has create, update, search and extend programs; plus a querying system, report writer and extensive graphics.

The List Manager

(See page 62.)

Personal Card File

• Touchscreen • IBM® PC

Personal Card File works and even looks like a Rolodex card file. Browsing through the cards is as easy as touching the screen. To create a new card file, you simply design the card to your specifications by painting the fields on the screen. PCF's flexibility gives you access to a limitless number of business and personal applications such as vendor and customer lists, employee lists, inventories, payroll, personal collections, and all the information that you want to keep and access easily.



Also, at a mere touch of the "auto-dial" labels, PCF will automatically dial up your card-file contacts.* Your PCF cards can be used with WordStar® and MailMerge® to print mailing labels and generate custom form letters. You can also transfer your PCF card files to and from Condor™ and dBase II® applications, giving you an easy-to-use path to powerful data bases.

*Hayes-compatible modem required.

PFS:® File & PFS:® Report**

• Touchscreen

Now you can get two of Software Publishing Corporation's popular programs, PFS:File & PFS:Report, as one package on the Touchscreen Personal Computer. PFS:File & PFS:Report is an extremely useful and inexpensive file management and reporting system designed for people who want easy-to-use, functional, programs. PFS:File & PFS:Report has most features found in sophisticated and more expensive file management systems, but is substantially easier to learn and use. This product is ideal for the first-time user.

**PFS:File and PFS:Report are not available separately for the Touchscreen PC.

data communications

AdvanceLink

• Touchscreen • IBM® PC

AdvanceLink transfers data files between your personal computer and the HP 3000 system, IBM PCs, Touchscreens, public data bases, and more.

Users of the previous DSN/LINK Touchscreen package may upgrade to AdvanceLink with an upgrade kit.

AdvanceLink/Touchscreen's new CREATE REMOTE capability allows applications that run on remote hosts to be installed into PAM.

MONITOR/IBM® PC (see next page) is included in the AdvanceLink/IBM PC product.

AdvanceLink. Because no PC is an island.

DataComm Software

• Integral

The DataComm software provides several essential data communications features that enable you to: 1) Operate your computer as a remote terminal (full-duplex) of another computer system. 2) Commu-

nicate through public telephone lines with commercial information services.

3) Transfer files between your computer and host computers that have file transfer capabilities.

Note: product names followed by ® or ™ are trademarks of their respective companies. For a complete listing, see page 158.

For software prices and product numbers, see pages 48-53.

data communications (cont.)

Data communications

• HP85 • HP86/87

Turn your Series 80 Computer into an intelligent remote terminal that will communicate with other asynchronous computers and terminals. Transmission rates range from 50 to 9600 baud. You can transfer data files to a remote device (uploading) or from a remote device to your HP Series 80 Computer (downloading). Print reports, store and retrieve data and use other Series 80 peripherals while you are on line.

Dow Jones Spreadsheet Link™

• Touchscreen • The PORTABLE

The Dow Jones Spreadsheet Link easily and efficiently connects Dow Jones News/Retrieval®, the world's leading interactive information service, to your Lotus™ 1-2-3™, Multiplan® or Visicalc® spreadsheet.

With your HP Touchscreen or PORTABLE, a modem, and just a few keystrokes, you can move information from Dow Jones directly into your customized spreadsheet. The automated log-on to Dow Jones News/Retrieval can save valuable time and eliminate tedious data entry tasks. Once this information has been received, it can be processed as you choose. Investors, credit and money managers, financial analysts and strategic planners will find the Dow Jones Spreadsheet Link an easy-to-use, time saving tool in their daily analyses.

MONITOR / IBM PC

• IBM® PC

This file transfer monitor for the IBM PC is designed to work with AdvanceLink on the Touchscreen PC. In conjunction, AdvanceLink and MONITOR/IBM PC

enable fast, easy, error-free transfer of ASCII or Binary files between the two systems. Both programs and data files may be transferred, but compatibility of data formats or program instructions is not guaranteed. Files may be transmitted either using full duplex modems and telephone lines (with the appropriate modem cables) or using an HP 13242H cable to connect the HP system and the IBM PC. MONITOR/IBM PC includes an IBM formatted 5.25-inch floppy disc and a manual. It requires 128K of RAM memory on the IBM PC and the 2.0 or later version of the PC-DOS operating system.

Professional Communications

• HP85 • HP86/87

Advanced software for communication via telephone lines, either with the 300 baud Series 80 modem or an external 300 or 1200 baud modem. With Professional Communications the user can do all of the following within a single software environment: create, edit and merge text files; transfer files/keystrokes to another personal computer; receive and store text from another personal computer; set up the Series 80 Computer as a "bulletin board" system; audit all communications activity; and secure or encrypt files and communications.

Term/80

• HP86/87

When combined with Auxiliary Processor Module, Term/80 converts the HP86/87 into an intelligent terminal that communicates with large HP mainframe computers in multiple operating modes, including block and format. Term/80 enables the HP86/87 to emulate the popular HP

2622A Terminal. If you don't own the Auxiliary Processor Module, order the HP 82900A Opt. 001. (See page 46)

Transend COMPLETE

• Touchscreen

Turn your Touchscreen into a high-powered communications workstation. Transend lets you exchange electronic mail with other Transend users (on the IBM® PC too!), or with users of mail services like THE SOURCE™, Quik-Comm, and HPMail. Files are transferred reliably using the industry standard protocol, XMODEM. You also get easy access to information services like Dow Jones and Dialog, powerful macro and "learning" capabilities for general purpose communications, and VT-100 terminal emulation.

And Transend works the way you do. Use the message baskets of its desktop user interface to organize your work into file folders that make sense to you. Transend already "knows" how to communicate with most major electronic mail and information services—you won't have to be a programmer to get going.

VT 100 Terminal Emulator

• Touchscreen

Allows the Touchscreen to emulate a DEC VT 100 Terminal. Supports most VT100 (and VT 52) features, with comparable speed and performance. (132 column mode is not supported.)

With the Emulator, you can keep a host terminal session in the background so you can return, at the touch of a key, to run programs like Lotus™ 1-2-3™ or WordStar®. It also allows incoming text to be copied to a local disc file or printer attached to the Touchscreen, and permits error-checked file exchange with a host supporting the XMODEM protocol.

engineering

AC Circuit Analysis

• HP85 • HP86/87 • HP216/220/226/236

Model your circuit and examine its AC performance quickly and accurately. Determine steady-state AC behavior of electrical networks including resistors, capacitors, inductors, voltage-controlled and independent current sources.

Note: The HP85/86/87 versions of AC Circuit Analysis are a subset of the Series 200 package.

Digital Filter Design

• HP216/220/226/236

Provides the tools necessary for designing digital filters. Includes routines for designing both infinite impulse response (IIR) and finite impulse response (FIR) digital filters. Also included are routines for transforming analog filter functions, $H(s)$, to digital transfer functions, $H(z)$. Once the program has computed the

filter coefficients, both magnitude and phase plots are available to measure the actual performance of these filters.

Electronics Engineering Multi Pac

• HP85 • HP86/87

Contains AC Circuit Analysis, Waveform Analysis and Math packages at a bundled discount price.

Linear Systems Analysis

• HP216/220/226/236

Provides "classical" tools needed for analyzing single-input/output linear systems. The following analysis plots are available: root locus, Nyquist, step response, impulse response and bode. Linear systems can be in the form of a control system block diagram or a simple transfer function in Laplace (S) notation.

Surveying

• HP85 • HP86/87

Programs to aid surveyors in many of their most often encountered computations. Fast, easy calculations and maintenance of coordinate points for easy recall.

Waveform Analysis

• HP85 • HP86/87
• HP216/220/226/236

Performs fast Fourier transforms on either frequency or time domain data. Computes correlation function and power spectrum, plus Fourier series coefficients. Double data block entry for cross-correlation, power spectrum and convolution. Plot or print output.

Note: The HP85/86/87 versions of Waveform Analysis are a subset of the Series 200 package.

graphics

DATA GRAPHER/200

• 216/220/236 • 217

Function plotting is no longer a multistep process done by hand. You can specify the function—not the points—and Data Grapher does the calculations and plotting for you. You can also take data from the keyboard or a file and plot a scattergram of it with a smooth curve drawn between the points. Other functions include bar charts (clustered or stacked, positive or negative), pie charts and histograms.

You can include graphs and charts from Data Grapher in documents created by HP TechWriter (see page 67) document processor, as well as in diagrams created with the HP Engineering Graphics System.

Diagraph™

• Touchscreen

Diagraph is an interactive graphics software product designed to simplify the production of flow diagrams, organization charts, schematics, network design, forms, text slides, and presentation aids. Your diagram can be printed, plotted, saved as a file, and later retrieved.

Titles, labels, and blocks of text can be placed anywhere on a chart. Key words or phrases can be highlighted using a bold or italic font. Use block letters (outline or solid) for titles and captions.

Symbols are organized by type and application: geometrics, arrows, highlights, pointers, junctions, primitives, pictorials, data processing, etc. They can be enlarged or reduced in size, rotated to any angle, and/or re-created as a mirror image. Many symbols have a three-dimensional representation.

With the help of the touch screen you can modify diagrams by touching symbols on the screen, then select the function (move, connect, text, delete, etc.). To add a symbol, touch the screen where you want the symbol placed, then use the size, rotate, mirror, and perspective functions to adjust the composition.

Graphics Editor/200

• 216/220/226/236

• 217/237

Create anything you can think of by combining graphics with text. Presentation-quality charts and diagrams, organization charts, block diagrams and text charts are just a few examples. Use a keyboard, mouse or digitizer for input. Output can be directed to HP TechWriter document processing software (see page 67) as well as printers and plotters.

Its advanced user interface is organized into a "drawing board" of multiple windows: one to draw on, one for a command menu and more for status and prompting, so you never have to memorize a command.

THE GRAPHICS GALLERY



The Graphics gallery brings professional-quality presentation graphics to personal computers. Included in the collection are Drawing Gallery, Charting Gallery, and on permanent exhibition, Executive MemoMaker (see page 67).

Individually or together, these packages help you create a variety of high-quality visuals for reports and presentations. It's easy to create a pie or bar chart with Charting Gallery, add a special font or border from Drawing Gallery, then make a full-color overhead transparency with an HP plotter. Or you can use Drawing Gallery by itself to create word-and-picture graphics such as organization charts, flow charts, and text charts. And any graphics you produce with charting Gallery or Drawing Gallery can be merged with Executive MemoMaker documents.

Charting Gallery

• Touchscreen

Charting Gallery transforms numerical data into professional-quality line, pie and bar charts, and scattergrams. Its ease of use and built-in graphic design expertise help you produce polished, up-to-the-minute charts—right up to the last minute. Information can be transferred from existing spreadsheets, such as those generated by Lotus™ 1-2-3™ or Deluxe VisiCalc®, or simply entered manually. And you can enhance charts with the help of Drawing Gallery, or merge them into Executive MemoMaker documents to add impact to your written communications.

Charting Gallery helps you make powerful statements with its thoughtful layout and solid legible text. It all adds up to clean, distinctive and very readable charts.

Drawing Gallery

• Touchscreen

Drawing Gallery helps you create word and picture graphics, such as organization charts, process-flow diagrams and text charts.

It provides electronic templates and other on-screen drawing aids, for perfect alignment and symmetry. Its library of ready-made pictures and crisp, clean text, add to the professional quality of your graphics. All of which frees you to focus not on drawing, but on making your ideas look as good as they are.

Because Drawing Gallery works with other Graphics Gallery products, it's easy to enhance Charting Gallery charts, or to simply merge an image with an Executive MemoMaker document. And since all of The Graphics Gallery products support both printers and full-color HP plotters, you can create a wide range of output.

Gallery Picture Library, Vol. II

• Touchscreen

Gallery Picture Library, Vol. II expands Drawing Gallery's selection of pictures by providing more than 200 ready-made drawings for enhancing charts and drawings. These pictures include buildings, vehicles, cartoons, and a wide range of other images. Also included are two additional electronic templates—Floorplan and Mapping. These images also can be used directly with Executive MemoMaker to add character to your written communications.

The Gallery Collection

• Touchscreen

The Gallery Collection combines the capabilities of Charting Gallery, Drawing Gallery, and Gallery Picture Library, Vol. II to meet your presentation graphics needs. It helps you transform numerical data into professional quality line, pie and bar charts, and scattergrams. You can create polished word and picture graphics, such as organization charts, flow charts, and text charts, so your presentations can be more distinctive, informative and powerful.

Graphics Presentations

- HP85 • HP86/87 • HP216/220/226/236
- HP217/237

Prepare professional-quality charts and overhead slides for management, meetings, customer presentations, sales meetings, management reports, and much more. Text and illustrations can be easily prepared without programming. Simply respond to a series of easy-to-answer questions to generate text and pie, bar or line charts.

Graphwriter® Basic Set

- Touchscreen

Graphwriter Basic Set produces high-quality presentation graphics through simple, pre-defined formats. You can produce pie, bar, line text, scatter, regression and bar-line charts—either on paper or transparencies. A context sensitive HELP key makes it simple!

Each chart type gives you many choices:

Bar: horizontal or vertical bars; flexible axes placement; segmented or clustered bars with up to 36 bars total.

Pies: up to four pies/chart and 16 segments/pie; exploded pie segments and automatic segment labels.

Line: up to eight lines and 100 data points per line; four marker types. And much more!

PFS:® GRAPH

- Touchscreen

PFS: GRAPH is a member of the integrated PFS family of software products for the HP Touchscreen. GRAPH is an easy-to-use graphics package that works alone or directly with PFS: FILE, DIF and Multiplan® SYLK files. This means GRAPH can accept data directly from the keyboard or it can retrieve data from

PFS, Multiplan or VisiCalc® files. GRAPH charts can be used in PFS: WRITE documents as well.

GRAPH produces bar, line or pie charts of presentation quality in minutes. Like all the PFS products, GRAPH uses HP Touch, so you can design your charts with the touch of a finger.

Picture Perfect™

- Touchscreen
- 216/236
- 217

An interactive graphics software package. With Picture Perfect you can transform your data into pie, vertical bar, horizontal bar, or line charts. Formatting flexibility allows you to control the appearance of your chart. Data values may be windowed or on top of bars. Bars may be simple, stacked, comparative, or overlapping with up to 24 bars. Legends may be windowed or placed at any location. Blocks of annotations may be placed as desired. Two independent Y axes allow comparison of different data sets in the same chart. Pie charts may have up to 16 segments with variable explosion of any or all pie segments. In addition, 58 shading patterns allow you to control the final appearance of your charts.

With its easy-to-follow menu driven approach, Picture Perfect gives non-technical users enhanced graphics flexibility for producing more sophisticated presentations.

Touchscreen: Added features include a help facility which eliminates the need to refer to external documents for informa-

tion about the use of the system. Touch any field on the menu to refresh your understanding of the available options.

Note: product names followed by ® or ™ are trademarks of their respective companies. For a complete listing, see page 158.

For software prices and product numbers, see pages 48-53.



CALL US WITH YOUR PURCHASE ORDERS AND



We ship within 24 hours

**JUST GIVE US A CALL
800-538-8787**

California 408-738-4133

personal solutions

Work Smarter,

Hayden's Personal Productivity Family. Put the power of personal computing at your fingertips with Hayden Software's family of personal productivity products. Easily compose a form letter with *The Writer*, check it for spelling errors with *The Speller*, insert spreadsheets created with

The Planner, or merge your letter with a list of addresses organized by *The List Manager*. You can even print out your daily schedule by using *The Calendar*. Together or alone, Hayden's products work with ease and with no strain on your wallet!

 *the Calendar*

- The PORTABLE
- Touchscreen
- IBM® PC

Turn your personal computer into a convenient, efficient appointment calendar and keep important meetings and other appointments on schedule. Simple keystrokes let you move between daily, monthly, and yearly calendar screens. Easily scan for available times; enter, change, or delete appointments; maintain notes for each appointment; print copies of any calendar; or write reminder notes to yourself throughout the day.

With *The Calendar*, juggling your busy schedule will be much easier.

 *the List Manager*

- The PORTABLE
- Touchscreen
- IBM® PC

Maintain a variety of "listable" data with this easy-to-use, yet sophisticated organizing tool. Collate mail lists for organizations or personal lists for phone directories, account numbers or other related data.

You won't have to define input formats, output formats or data structures. A pre-defined data input screen prompts you for the correct data. Other features include user-defined and fixed-format report generation, data retrieval, and sorting and printing capabilities.

Best of all, you can create mail merge output files for use with *The Writer*.

 *the Planner*

- The PORTABLE
- Touchscreen
- IBM® PC*

Create your own spreadsheet with this easy-to-use program that offers extended "Help" screens to assist the occasional user. Enter, manipulate, and save information such as expenses, checking accounts, and balance sheets. Change a number and instantly see how it affects other figures. A workspace with up to 16,384 cells is arranged as 64 columns by 256 rows. A full set of features includes naming or protecting cells or blocks, copying blocks, joined spreadsheets, windows, extensive formatting capability, variable column widths, titles, and numerous math and trig functions.

Let *The Planner* help you make more informed decisions.

CALL US WITH YOUR PURCHASE ORDERS AND



We ship within 24 hours

**JUST GIVE US A CALL
800-538-8787**

California 408-738-4133

not harder

only \$49.95 each*

SAVE
\$25

with HP's
three-in-one
value packs

the
Speller

- The PORTABLE
- Touchscreen
- IBM® PC

Eliminate spelling errors in your Writer, MemoMaker, Wordstar®, or other ASCII text files. The Speller's menu-driven format makes finding and correcting errors quick and efficient.

Included are more than 20,000 of the most frequently used English words, accounting for 97 percent of total word usage. Examine a 15-page document in less than a minute, then display or print either suspect or valid words. Accept or change suspect words individually or in context without returning to your word processor. Review changes before saving them to your document file or create your own special dictionaries. And, The Speller can be merged with The Writer and executed directly from The Writer's menu.

Make incorrect spelling a thing of the past with The Speller.

the
Writer

- The PORTABLE
- Touchscreen
- IBM® PC

This easy-to-use word processor provides the occasional user with an interactive tutorial and easily accessible "Help" screens to make word processing a snap.

Revise the content and organization of your document while viewing it on the screen. Add, move, or delete words, sentences, or entire paragraphs. The Writer's many features include word wrap, centering, boldface, underline, search and replace, file chaining, headers and footers, right justification, and a mail merge capability.

Try the Writer. You may never use your typewriter again.

Product support for the above products is provided by Hayden Software Company in North America only. A toll-free support number is supplied with the software.

*IBM®PC version of The Planner is \$99.95.

Note: product names followed by ® or ™ are trademarks of their respective companies. For a complete listing, see page 158.

The Personal Correspondence Pack

• Touchscreen • The PORTABLE
Personalize form letters for your favorite organizations with this Hayden Software value pack. Compose a letter with The Writer, check for spelling errors with The Speller, then merge your letter with a list of addresses organized with The List Manager. Plus, you can use each package individually to take advantage of the many additional features included in each product.

The Personal Organizer Pack

• Touchscreen • The PORTABLE
This three-in-one pack will help you rid yourself of excess paper and organize your personal life. While The Calendar helps to keep your busy life on schedule you'll be able to track and evaluate home finances and personal investments with The Planner's extensive spreadsheet features and still have time to organize address lists, phone lists, and account information with The List Manager. All for only \$125!

For software prices and
product numbers, see pages 48-53.

Probe someone's mind

Mind Prober™

- The PORTABLE

Now you can have a secret look at the ideas and attitudes hidden inside another person. In just 10 minutes you can understand the range of someone else's feelings, thoughts, and values—better than if you spent hours or even days with that individual.

What does Mind Prober do?

It enables you to:

- Read others like a book.
- Understand why someone behaves as he/she does.
- Accurately predict what someone will do in a given situation.
- Learn to interpret another's nonverbal cues.
- Discover the things that most people are afraid to tell you about themselves.

- Have an accurate personality profile of anyone—in minutes.

- Sharpen your perceptions and communication style.

Using the Mind Prober is simple. The program presents you with a list of words that may describe the person you want to get to know. You either agree or disagree with the words, then your computer accesses the Mind Prober database to give you a comprehensive report.

The report covers:

- First Impressions
- Relationships
- Attitudes toward work
- Ability to cope with stress
- Personal interests
- Attitudes toward sex (under 18 years-old, attitudes toward school)
- What makes them tick

programming



BASIC Programmer's Library

- Touchscreen

BASIC Programmer's Library is a collection of subroutines, variable definitions and functions designed to make you immediately productive in BASIC. Integrate BPL into your BASIC program, and all the features of the HP Touchscreen become as simple to use as calling a subroutine. Use BASIC by Microsoft*, or Compiled BASIC by Microsoft for the same quick results.

With BPL, you can access the following features on the Touchscreen:

- Screen Control functions
- Keyboard Control
- Control of the User Defined Function Keys
- Line and Math Character Sets
- Access to BIOS Routines via AGIOS Calls
- Access to Datacomm and Plotter Devices

BASIC Training

- HP85
- HP86/87

Self-teaching BASIC language course for novice users. Proceed at your own pace. Prerecorded media provides guide to operation and programming. Prepares users for more advanced operations.

COBOL by Microsoft*

- Touchscreen

COBOL by Microsoft provides part of a complete development environment on the Touchscreen PC for users whose applications are written in COBOL, and who would prefer to further develop their applications in the same language and methodology. This system features a 2-pass compiler and four levels of overlays, and complies with the ANSI X3.23-1974 standard at the low intermediate level for all the level-1 and some level-2 ANSI-74 standard features.

Compiled BASIC by Microsoft*

- Touchscreen
- The PORTABLE

Compiled BASIC by Microsoft is an optimizing compiler designed to complement HP's Series 100/BASIC. This creates an extremely powerful BASIC programming environment for your Touchscreen. You can develop and debug your BASIC programs using the Series 100/BASIC interpreter, then streamline program execution by using Compiled BASIC. This package allows you to create programs that, in most cases, execute faster than the same interpreted programs, require less memory, and provide source-code security.

CP/M* System

- HP86/87

When combined with Auxiliary Processor Module, the CP/M System extends the HP86/87 by providing a wide variety of software solutions. If you don't already own the Auxiliary Processor Module, order the HP 82900A. (See pages 44-46.)

Cross Reference Utility

- Touchscreen

Cross Reference Utility is designed as a productivity aid to programmers using Series 100/BASIC on the Touchscreen. Using your standard BASIC program file you can generate a complete cross-reference listing, which includes variable names, BASIC function names, and mathematical operators, all referenced by line number, and resolved and unresolved line references. This utility is easy to operate and its performance has been optimized for fast execution. Output can be directed to a printer or to a disc file.

Forms Master

- Touchscreen

Designed for programmers who care how their applications look, Forms Master can be used with Microsoft* Pascal, Compiled BASIC, or FORTRAN to create sophisticated application interfaces with ease.

A special Forms Editor allows you to create the screens with useful enhancements such as **boldface**, inverse video, italics, blinking, and underlining. Protection, setting tab order, and acceptable characters can be defined for any fields. Mapping the keyboard is easy too. The Forms Editor uses labeled function keys rather than escape sequences.

The Forms Master library provides a set of powerful procedures that the application calls to utilize the defined forms—forms may be displayed for data entry, reporting and other activities. If desired, forms can be created or modified programmatically.

FORTRAN by Microsoft*

- Touchscreen

FORTRAN by Microsoft provides part of a complete program development environment on the Touchscreen. It allows users who desire a high-level language to implement compute-bound applications while maintaining code transportability and ease of programming. This package is a subset implementation of the ANSI X3.1978 standard and features a 3-pass compiler.

GW™-BASIC by Microsoft*

- Touchscreen
- The PORTABLE

GW-BASIC by Microsoft gives you all the features you've been looking for in a BASIC interpreter. Like Advanced BASIC on the IBM® PC, GW-BASIC gives you all the standard Microsoft BASIC commands and, in addition, includes graphics commands, data communication, access to sub-directories, keyboard and timer event trapping, and a full screen editor. All this makes GW-BASIC a valuable addition to your Series 100 software library.

HP-UX BASIC

- Integral

HP's powerful and friendly interpretive BASIC is available on The Integral PC. Compatible with our HP86/87 BASIC, this version has all the flexibility and power you have come to expect from HP. This BASIC interpreter will let you take advantage of the graphics and I/O capability of The Integral PC. You can also call routines written in C for further expandability.

HP-UX C Compiler

- Integral

This is the standard C compiler found throughout the industry in the UNIX™ Operating System environment. The compiler has been adapted to operate with The Integral PC's built-in Micro Flexible disc, while maintaining all its power and compatibility. The MC68000 Assembler, libraries, and on/off documentation also are included.

HP-UX Development System

• Integral

The HP-UX Development System completes the HP-UX offering on The Integral PC. This product provides the capabilities and features one normally expects with a single-user UNIX™ operating system. File system management, program preparation, text processing, and communication. They're all there.

Icon Design System

• Touchscreen

Developed by HP especially for programmers, Icon Design System is a powerful tool for all these languages: Pascal, BASIC by Microsoft®, GW™-BASIC by Microsoft®, and Lattice® C.

You can use Icon Design System by itself, or with an optional 9111A Graphics Tablet to create complex pictures.

For instant productivity, IDS features HP Touch function key menus, on-line help, and pre-written routines to integrate your icons into Pascal, BASIC or Lattice-C programs.

And for simple graphics editing, IDS features free drawing and powerful graphics commands to create and refine icons; polygon fill available in nine patterns; grid overlays for touch field programming; and the ability to move, scale and mirror your icons.

Lattice® C Compiler

• Touchscreen • The PORTABLE

The Lattice C Compiler is the industry standard C language for programmers interested in performance. Software includes: compiler, linker, librarian, four memory modules, numerous library functions, the Terminal Independence Package, and more. Included with the software

is a comprehensive reference manual and *The C Programming Language* by Kernighan and Ritchie.

PASCAL by Microsoft®

• Touchscreen • The PORTABLE

Microsoft PASCAL is an optimizing 2-pass compiler with an optional third pass to produce object listings. It accepts and compiles programs written according to the ISO standard as well as the full Microsoft syntax extensions. It generates native machine code instead of intermediate P-code in order to provide the advantage of faster execution while maintaining the ISO standard of high level code transportability.

Programmer's Tools

• The PORTABLE

Programmer's Tools is designed to provide the necessary documentation and tools for assembly language programmers on The PORTABLE. Programmer's Tools consists of documentation including MS™-DOS user's manual, programmer's manual, macro-assembler, and The PORTABLE system reference manual. It also has utilities including MASM, DEBUG, LINK, CREF, EDLIN, EXE2BIN, and others.

Series 100/BASIC by Microsoft®

• Touchscreen • The PORTABLE

Even the most casual programmer can now quickly write a program to solve a problem. The Series 100 BASIC interpreter provides one of the most extensive implementations of BASIC available on a microcomputer. Included are features and performance found in languages operating on large minicomputers. Series 100 BASIC meets the requirements for the ANSI subset standard for BASIC.

Standard Pac

• HP85

Replacement data cartridge with the standard programs and utilities. One Standard Pac is provided with each HP85 Personal Computer.

Touchscreen Programmer's Tools

• Touchscreen

For advanced programmers who are working in assembly language, Touchscreen Programmer's Tools offers:

- The HP 150 Programmer's Reference Manual
- The Intel iAPX 8088 Reference Manual
- Three Microsoft® publications: *The MS-DOS User's Guide*, *The MACRO-86 Macro Assembler Manual*, and *The MS-DOS Programmer's Reference Manual*.
- A 3.5-inch diskette containing the following utilities: the MACRO-86 assembler, the linker, the library, the debugger, the cross-reference utility, and a line editor, as well as the file-comparison, file-conversion, SORT, and FIND utilities.

User Definable Softkeys

• 216/226/236

User Definable Softkeys lets Pascal Workstation (2.0 or later) users define their own softkeys—a feature until now missing from the Series 200 environment. Softkeys are displayed at the bottom of the screen.

Note: product names followed by ® or ™ are trademarks of their respective companies. For a complete listing, see page 158.

For software prices and product numbers, see pages 48–53.

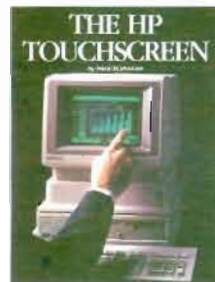
Valuable information for HP Touchscreen and PORTABLE users!

NEW Hewlett-Packard Software Catalog: The Complete Collection of Software for the Touchscreen Personal Computer and The PORTABLE Hewlett Packard 1985 With hundreds of Touchscreen and PORTABLE programs to choose from, locating the right one can be like looking for a needle in a haystack. Unless, of course, you have the latest edition of HP's quarterly software catalog for the Touchscreen and The PORTABLE Personal Computers.

Seconds are all you will need to find the right solution for any of your software needs—from business management to programming tools to entertainment.

Products listed in the catalog are developed either by Hewlett-Packard or independent software vendors. Product summaries include a complete description, required system configuration, support and training information, suggested retail price and ordering information.

5953-5880 \$12.95 ea.



NEW HP Touchscreen D. Flanagan/Que Corp. 1984

Get the most from your HP 150 Touchscreen PC, and Touchscreen MAX. This book contains more than 200 pages of valuable information, including:

- a comprehensive Touchscreen overview.
- descriptions of hardware features.
- what to look for when buying software.

- descriptions of unique Touchscreen software including P.A.M., File Manager, PCF, and MemoMaker.
- easy BASIC programs that illustrate Touchscreen's special features.
- valuable information to help select the best printer for you.

92235A \$21.95 ea.

[illegible]

word processing

Executive MemoMaker (including MemoSpeller) • Touchscreen

Executive MemoMaker, word processing software for the business professional, enables you to create polished letters, memos, and reports.

Its merged graphics feature helps you give your reports an eye-catching advantage for strong and immediate impact. When you present key ideas to a report, you can support those ideas with charts and drawings. Executive MemoMaker lets you position the graphics right next to the ideas—without cutting and pasting (see "The Graphics Gallery", p. 60 for more details.)

And because misspellings can detract from the content of your reports and correspondence, Executive MemoMaker features MemoSpeller spelling correction.* Unlike simple spelling checkers, MemoSpeller finds misspellings and suggests corrections.

*Spelling Correction Software developed by Houghton Mifflin Company, publishers of the *American Heritage Dictionary*.

HP TechWriter

• HP216/220/226/236 • HP217/237

HP TechWriter is a low-cost document editor for the Series 200 that eliminates the need for technical professionals to "cut and paste" pictures into memos and documents.

The key feature of HP TechWriter is its ability to accept pictures from any graphics editor capable of producing plot files. You must provide your own graphics program, however, since HP TechWriter includes pictures, but does not produce them. With HP TechWriter you can reference these processed plot files from a document, view both text and pictures on a screen as they should appear in the document, and produce a hard copy of the document.

Supported graphics editors include the following Series 200 software:

- Project Management (Revision B)
- Graphics Presentations (Revision D)
- Statistics Library (Revision B)
- EGS/200 (all revisions)
- User Programs that plot to a file on Basic and Pascal
- And many more coming . . .

MailMerge®

• HP86/87

A multipurpose merging program, which can be used with WordStar® to produce a list of names and addresses; form letters; and letters that have special words and phrases unique to each addressee. It can also be used to print mailing labels and envelopes.

MemoMaker

• Series 200 HP-UX • Integral
• IBM® PC

With the help of MemoMaker, you can use your IBM PC to create and revise documents—without having to learn complicated word processing commands. Hewlett Packard designed MemoMaker for people who don't need sophisticated word processing. It is perfect for writing memos, business letters or reports. And since MemoMaker creates WordStar® compatible files, documents created in either program can be edited in the other.

Now, it's easy to organize your ideas in their most powerful form. And that not only increases productivity . . . it improves the quality of your writing.

And while MemoMaker was designed with simplicity in mind, it also provides many sophisticated features like **bold** and underline print enhancements.

Microsoft® Word

• Touchscreen • The PORTABLE

From simple memos to complete manuals, Microsoft Word can handle all of your written communications needs.

Microsoft Word lets you see what your document will look like while you are creating it, like **bold**, *italics* and underline.

The on-screen command menu and extensive use of softkeys make Microsoft Word easy and fast to use. Need some help? A context-sensitive, on-line HELP facility is available to you simply by pressing a softkey.

Microsoft Word gives you those extra features you've always needed, like automatic page numbering and footnoting, subscript and superscript, windowing which allows you to transfer text between as many as eight documents on the screen simultaneously, multi-columnar text, glossary, support of documents of up to 255 characters wide, automatic printer configuration, and up to 64 fonts to choose from. And it works with the HP LaserJet PC printer, so you can produce near-typeset quality documents right in your home or office.

MultiMate™

• Touchscreen

The popular Wang look-alike word processor. Enhanced on the Touchscreen Computer to put the power of MultiMate at your fingertips with softkeys. Makes word processing easier than ever! Full function word processing with training lessons, a spelling checker and merge-printing capabilities included. Reformats texts as you edit, provides in-document math capability and much, much more.

PFS:® WRITE

• Touchscreen

Designed for the manager or professional who wants to produce written documents quickly and easily, PFS: WRITE is ideal for people who want to make their writing time more productive.

Maybe you want to send the same basic letter to 42 different people. But you don't want to change the names and addresses 42 different times. Or perhaps you want to insert tables or graphs in the middle of a document, so your reader can see exactly what you're talking about. Because it is part of the integrated PFS Family of Software, PFS: WRITE can help! You can create personalized form letters with PFS: FILE, include data tables in your documents with PFS: Report (see page 58), and include graphs in your documents with PFS: Graph (see page 61). You can also include output from other software programs in WRITE documents.

The Speller

(See page 63.)

SpellStar®

• HP86/87

SpellStar is a spelling checker program that works with WordStar® to correct misspellings by comparing text with a 20,000-word dictionary. You can add words to the main dictionary or create your own supplemental dictionary.

Text Editing

• HP85

Write memos, outlines and reports on the display screen. Edit copy, save it on tape or disc, or print it. Variable input/output of text files. Tab, add, delete, replace, renumber and move lines. Matched string search and replace.

Text Editor/200

• 216/220/226/236 • 217/237

A straightforward, easy to use text editor which can be used by anyone from secretaries to the technical professional. Helps you to easily create reports, memos, or high quality letters because almost all of the commands are executed from either menus or softkeys.

Features include the linking of multiple files for printing, alphabetic and numeric sorting, and superscripts and subscripts. Editing features include right and left justification, word wrap, auto-find of words or phrases, and re-forming paragraphs to declared margins.

Note: product names followed by ® or ™ are trademarks of their respective companies. For a complete listing, see page 158.

word processing (cont.)

Type-a-Line

- Touchscreen

Type-a-Line makes it easy to type standard forms and envelopes using your HP Touchscreen and a character mode printer. Type text from the keyboard directly to a form in your printer. Touch the screen to scroll the paper up and down in the printer. Use the space bar and cursor arrow keys to position the print head to the correct box or space to fill out forms, invoices and other blanks.

You can use Type-a-Line with the HP 2601 and 2602 printers, as well as the Diablo 620/630 and Qume 1140 printers.

WORD/80

- HP86/87

Complete software product for the generation of memos, letters and reports. Consists of an editor to create, type, print and store documents—and a formatter to format and print files created with the editor.

WordStar*

- HP86/87
- Touchscreen
- The PORTABLE

WordStar is the most popular microcomputer word processing system today. Text is displayed directly on the screen as it is entered, and most formatting takes place immediately. Block and column move commands allow the movement of text within the document. With SpellStar* documents can be checked for misspellings, and with MailMerge* they can be used to create custom form letters and boiler plate letters.

—Touchscreen: This is the easiest-to-use version of WordStar because you enter all the commands through the touchscreen or softkeys.

WordStar Professional™

- Touchscreen
- The PORTABLE

Contains WordStar, MailMerge* (see previous page), Star Index™ and

CorrectStar™*. Star Index allows you to quickly and easily create an index, lists of figures and table of contents from your document. CorrectStar works with WordStar to check for spelling errors and provide you a choice of possible alternatives. It uses an 80,000 Houghton-Mifflin dictionary and allows you to create optional personalized dictionaries.

WordStar Professional—the product to fill all of your word processing needs!

WordStar Professional Options™

- Touchscreen
- The PORTABLE

Contains MailMerge, CorrectStar and Star Index (see previous descriptions in this section). Companion products for WordStar V3.3b or later.

The Writer

(See page 63.)

*MailMerge, Star Index, and CorrectStar are not available as separate products for the Touchscreen and PORTABLE PCs.

entertainment

Action games



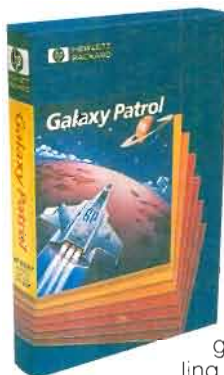
Action Games

- HP86/87

Action Games turns your HP86 or HP87 into an electronic amusement center. You play six challenging arcade-style video games.

- Criss-Cross: A galactic shooting gallery that pits you against enemy space ships in a fight to the death.

- Dodge Ball: Just like the schoolyard game! Dodge speeding and ricocheting balls at one of three skill levels.
- Race: Test your nerve at the wheel of a Formula 1 car as you career through an obstacle-strewn course.
- Mouser: You are a mouse trapped inside a three-dimensional maze with giant predators that relentlessly track you.
- Spools: Hop your way from one side of the screen to the other by jumping from spool to spool. There's one problem. The spools are moving!
- Heebie-Geebies: The Heebie-Geebies will destroy you unless you trap them. How will you get them? By leaving a trail.



Galaxy Patrol

- HP86/87

Galaxy Patrol turns your HP86 or HP87 into the cockpit of a sleek interceptor craft on the fringes of the galaxy. As the captain of this powerful starship, you're patrolling the galactic border, repelling any alien incursions you discover.

Suddenly, your tactical map shows aliens infiltrating several key sectors in your area! As you come out of warp drive, you see the menacing forms of the aliens drawing near. They swoop across your screen, daring you to stop them. You dive after them, plasma cannons blazing. An explosion appears as you zero in on the target. But in a split second you see another alien approaching—much larger, closer and deadlier. You throw the interceptor into a tight turn, narrowly missing the alien bomb, and start breathing again.

But now the gauges on your control panel show that fuel and shield power levels are dropping. You must get to the base and refuel... Are you up to the challenge?



Games/200

- 216/220/226/236

- 217

Challenge your computer with two games:

Robot Tank: Can your tank survive the attacking army of enemy tanks? Blast the enemy robot tanks with your laser cannon while dodging their shots. Multiple difficulty levels keep you eager to play.

Cribbage: Play the computer in one, two, three or four-handed games. A realistic cribbage board displays your progress against the computer. You can even use its Tutor, which suggests discards and gives insights into the computer's strategy.

entertainment (cont.)

Action games (cont.)

Games

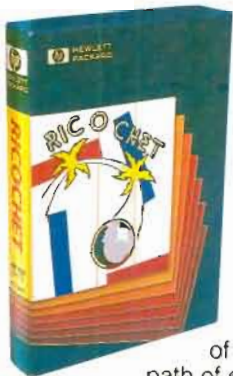
• HP85

Games provides an entertaining way to become familiar with the keyboard and operation of the the HP85 Personal Computer.

Games II

• HP85

Graphic, arcade-type games to provide both entertainment and familiarization with the keyboard and general operation of the HP85 Personal Computer.



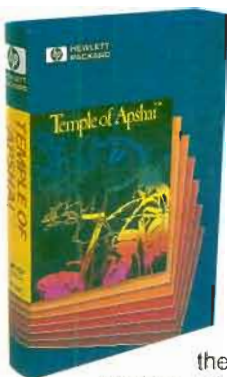
Ricochet

• Touchscreen

Ricochet is a powerful, strategic game in which you test your wit against the computer or against another opponent. The screen is reminiscent of a billiards table, with additional barriers which increase the difficulty of judging the ultimate path of each projectile. The action really begins when you shoot your launcher against your opponent's barriers (and hopefully bumpers and launchers).

Each projectile causes the barriers to turn 90 degrees causing an entirely new board layout for each shot. You can choose to alter the layout of your barriers in exchange for a launch at any point in the game. These changes are made merely by touching the screen.

And that's only the beginning. Several variations and levels of difficulty are available to offer continuing challenge and excitement.



Temple of Apshai™

• Touchscreen

This game of adventure is for those of you who long for the days of armor-clad warriors and sword-wielding soldiers. The Temple of Apshai offers the opportunity to live out your fantasies. It takes you back to the days of yore to

explore unknown depths crawling with monsters and laced with treasures. If you are an experienced dungeon adventurer, you can even bring along characters from other games.

Temple of Apshai has been converted especially for the Touchscreen PC to take advantage of the HP Touch features. When you encounter a giant mantis, swamp rat or zombie, you can simply touch the screen to activate a sword parry, shoot a magic arrow or slip through the secret door.

The suspense, danger and action that await you inside the dungeon of the Temple of Apshai will beckon you again and again.



Touch Games I

• Touchscreen

Touch Games I livens up your leisure time with novel and strategic diversions, plus some old favorites presented with new twists.

Touch Games I includes:

- 3D Tic-Tac-Toe
- Blackjack
- Wumpus XIV: The deadly Wumpus dragon lives in a cave system of 20 rooms. You must terminate him or die.
- Biorhythms: Chart the ups and downs of your physical, emotional and cognitive cycles.

Educational games



SpelBound™

• Touchscreen

This collection of nine challenging word games will captivate children (ages 10+) and adults alike. The HP Touch features add a new dimension to such classics as concentration and hangman.

A true edu-tainment package. SpelBound is designed to improve vocabulary,

spelling, and memory skills in the guise of your favorite word games:

- Concentration—Match wits with other players in this classic memory game.
- Crossword Puzzle—Sharpen your skills before you tackle the N.Y. Times!
- Hangman—You have eight chances to save the man in the gallows.
- Maze—Find up to 50 words in a character maze.
- Misspell—Correctly spell the displayed words.
- Define—Guess the word from the definition(s) shown.

You can even include your own words and definitions for unique applications such as a technical vocabulary or foreign language.

TYPE ATTACK™

• Touchscreen

Is it a game? Is it a typing tutor? Yes! As alien combinations of letters and words attack the planet of Lexicon, you can defend your planet by quickly typing the correct letters or words, and zapping them out of the sky.

This fast action game provides hours of fun, increases productivity and is a wonderful way to reduce computer anxiety. Various skill levels and groupings have been designed by a professional typing teacher to improve touch typing skills. The pace of the game can be varied from 1–99 wpm and additional "lessons" can be created by the user.

Each game is timed and mistakes subtract energy points. The top five scores are saved so you can continually sharpen your skills or compete with a friend.

Note: product names followed by * or ™ are trademarks of their respective companies. For a complete listing, see page 156.

For software prices and product numbers, see pages 48–53.

We ship within 24 hours

JUST GIVE US A CALL

800-538-8787

California 408-738-4133

entertainment (cont.)

Interactive Fiction Games

With Interactive Fiction Games, you don't just read the story, you make it happen.

Here's a guide to help you choose the right Interactive Fiction Game for you.

Interactive Fiction Games guide

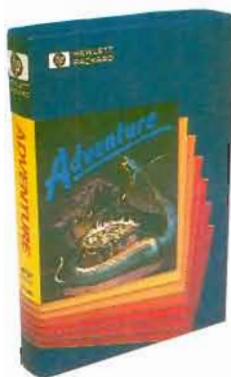
Subject	Skill Level			
	Junior	Standard	Advanced	Expert
Fantasy		ENCHANTER™ ZORK® I	SORCERER™ ZORK® II ZORK® III	
Mystery		The WITNESS™	SUSPECT™	DEADLINE™
Science Fiction		Hitchhiker's Guide to the Galaxy™ PLANETFALL™	Cyborg	STARCROSS™ SUSPENDED™
Adventure	SEASTALKER™	Adventure CUTTHROATS™	INFIDEL™	

Junior: Written for everyone age 9 and up.

Standard: Good introductory level for adults. The most popular level.

Advanced: Recommended for those who have already experienced interactive fiction.

Expert: For diehards seeking the ultimate in adventure games.



Adventure—The Original by Crowther and Woods

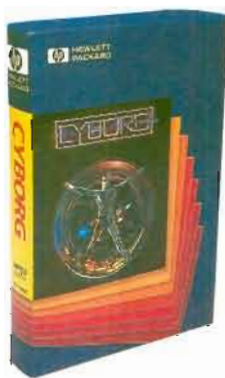
- The PORTABLE
- Touchscreen
- HP216/220/226/236
- HP217/237

"Somewhere nearby is Colossal Cave, where others have found fortunes in treasure and gold, though it is rumored that some who enter are never seen

again. Magic is said to work in the cave. I will be your eyes and hands. Direct me with commands of one or two words."

So begins one of the most popular computer games of our time. The original Adventure was written at the artificial intelligence laboratories of MIT and Stanford and offers you more than 100 rooms to explore, 15 treasures to collect, and many objects to locate and use during your journey through the cave.

You will find that this classic game is not only challenging for adults, but will also capture the imagination of children. So embark on this adventure of a lifetime. But, be prepared to encounter many dangers as you venture into the fascinating world of Colossal Cave!



Cyborg

- Touchscreen

Do you enjoy science fiction? If so, this one is for you! Cyborg was the first text adventure game to feature a true plot. Its puzzles logically add up to the equivalent of a short science fiction story.

Just imagine being unlike the rest of your peers—half man, half machine. Shunned by society, you escape your mental anguish by accepting a mission that will take you through 122 locations and force you to locate and determine the use of 28 movable objects. Unlike traditional adventure games, your goal in Cyborg is not to collect treasures or achieve the highest possible score. Instead, your sole objective is to complete your assigned mission.

Cyborg will challenge your wit and reward your logic skills. Once you get the hang of it, you'll be hooked. It's like reading a good book—you just can't put it down!

What do you think—are YOU Cyborg material?

The Infocom Interactive Fiction Series

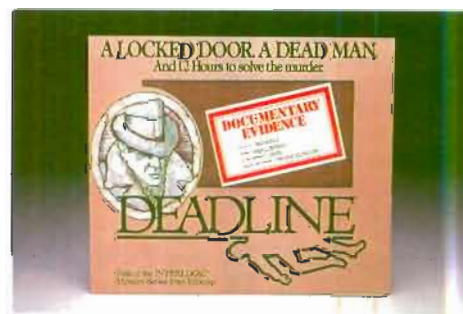
Load Infocom's interactive fiction into your computer and enter a world packed with surprising twists, unique characters and original puzzles.

With Infocom games you actually shape the course of events through your choice of actions, because you talk to the story in full English sentences. And the story talks back in vividly descriptive prose.

CUTTHROATS™

- Touchscreen
- The PORTABLE

CUTTHROATS places you on an isolated island populated by disreputable characters. You're a diver for hire, and as decent, competent and stalwart as they come. When a motley band of local salts gets wind of a shipwreck laden with sunken treasure somewhere in the surrounding waters, they offer you a piece of the action in exchange for your diving skills and knowledge. Now you must survive the perils of the deep—and the even greater danger that your crew may harbor a cutthroat—if you are to recover the treasure and save your neck



DEADLINE™

- Touchscreen
- The PORTABLE

A locked door. A dead man. And 12 hours to solve the murder.

An "amazing feat of programming" (The New York Times) and the "Best Adventure of 1983" (Electronic Games), DEADLINE literally puts the case in your hands with a dossier containing lab reports, police findings, and more. To track down the killer, you will sift through a myriad of clues and motives. No easy feat, for all your six suspects possess minds of their own—coming and going, scheming and maneuvering independently of your actions. And some of them are so treacherous that, should you make the wrong move, one may do you in.

**ENCHANTER™**

- Touchscreen
- The PORTABLE

ENCHANTER, says *Creative Computing*, is "a special treat . . . full of the delightful little touches we have come to expect from Infocom." You are an apprentice magician whom Fate has chosen to combat a dark and fierce power. Worldly weap-

ons will avail you naught, for your foe is the Evil Warlock who holds sway over the land. To defeat him, you will have to match your skills as a necromancer against his, using spells you have learned from your masters in the Circle of Enchanters and others you will acquire as you proceed on your quest. If you succeed, you will be elevated to a seat in the illustrious Circle; if you fail . . . but one does not speak of such things.

(Be sure to look up the sequel, SORCERER, further below.)

**The Hitchhiker's Guide to the Galaxy™**

- Touchscreen
- The PORTABLE

Don't panic! The Hitchhiker's Guide to the Galaxy, Douglas Adams' phenomenal best seller, is now a mind-boggling hilarious Infocom story. The incorrigible Mr. Adams has written new material and designed problems especially for this interactive work of fiction. Now you are Arthur Dent, and a bulldozer is preparing to level your house even as an alien space fleet is preparing to level your planet. So what else is left but to grab a pint of blitters for the road and join Ford Prefect, Trillian, Zaphod Beeblebrox and Marvin on a cosmic jaunt into the outer reaches where anything can—and does—happen. And don't forget your towel!

Note: product names followed by ® or ™ are trademarks of their respective companies. For a complete listing, see page 158.

INFIDEL™

- Touchscreen
- The PORTABLE

INFIDEL finds you marooned by your followers in the heart of the deadly Egyptian Desert. A soldier of fortune by trade, you've come here in search of a great lost pyramid and its untold riches. Now alone, you must locate and gain entry to the tomb, decipher its hieroglyphs, and unravel its mysteries one by one.

Through the Antechamber, the Barge Room, the Chamber of Ra, death will lick at your heels as you race to the shattering climax of this match of wits between you and the most ingenious architects, builders, and assassins of all time—the ancient Egyptians.

**PLANETFALL™**

- Touchscreen
 - The PORTABLE
- PLANETFALL, *Infoworld* magazine's "Best Adventure of 1983," teleports you forward roughly one hundred centuries to a Stellar Patrol ship. Starting at the bottom as an Ensign 7th Class, you are confined to swabbing decks aboard the Feinstein. Suddenly, your ship explodes, and you are jettisoned away to a mysterious deserted world. True, the planet is plagued by floods, pestilence, and a mutant Wild Kingdom. But there's also Floyd, a mischievous multi-purpose robot and the ideal companion with whom to brave your new world. Explore its secrets, dare its dangers, and find a means of saving it.

**SEASTALKER™**

- Touchscreen
- The PORTABLE

Tailored for the younger set (ages 9 and up), SEASTALKER is a totally interactive story that encourages logical thinking, planning, and organization. It also stimulates players to develop creative strategies for problem solving, while encouraging reading.

The alarm sounds. You know there's something terrifying in the depths of the ocean below. You've got to face up to it: only you can save the Aquadome, the world's first underwater research station. Your specially equipped submarine, the Scimitar, is ready. But wait—you haven't even tested the sub in deep water, and the crew of the Aquadome may have a traitor in its ranks. You'll find help in your SEASTALKER package, and you'll need every last scrap of it, because if you challenge the deep without charting the right course, you might wind up as shark bait!

**SORCERER™**

- Touchscreen
- The PORTABLE

Belboz the Necromancer, your friend and mentor, has vanished, leaving behind only a cryptic diary. There are signs that the grand and powerful leader of the

Guild of Enchanters is in threat to evil sorcery. The freedom of the land and the very existence of the Circle of Enchanters, of which you have become a full-fledged member, could be in jeopardy. Can you rescue the kingdom and locate your mentor amid the treacherous mists of Time? Gaze now into the Amulet of Aggthora and let be revealed the one valiant enough to earn the title of Sorcerer.



CALL US WITH YOUR PURCHASE ORDERS AND



For software prices and product numbers, see pages 48-53.

entertainment (cont.)



STARCROSS™

- Touchscreen
- The PORTABLE

STARCROSS launches you headlong into the year 2186 and the depths of space, where you are destined to rendezvous with a gargantuan starship from the outer fringes of the galaxy. *PC World* describes STARCROSS as "a great game in which to lose yourself," and justly so. For upon docking with the strange craft you must succeed in gaining entry to its mysterious interior. Once within, you will explore a startling, complex and engaging world peopled with the strangest beings. But the great starship serves a far larger purpose than mere cultural exchange. It conveys a challenge that was issued eons ago, from light years away—and only you can meet it.



SUSPECT™

- Touchscreen
- The PORTABLE

In SUSPECT you're a reporter who gets the scoop on the society event of the year—the murder of a Maryland Blue Blood aristocrat at a fancy costume ball. And you couldn't have a closer inside source for your story. Because you're the prime suspect. You know you're not guilty, but the evidence is stacked against you. Now you must prove your innocence and find the real killer—or risk being framed and face the consequences.

SUSPENDED™

- Touchscreen
- The PORTABLE

You are buried alive in a cryogenic capsule deep inside an alien world. When an earthquake disrupts the systems of the Underground Complex you inhabit—systems that surface life depends on—you must stabilize conditions. However, you can only do so by commanding your six robots, each of which perceives the world differently. If you save your world from utter destruction, you have just begun. SUSPENDED is designed to be replayed numerous times as you learn to optimize your strategies. You can also go on to more levels of play, and there's even an option that lets you customize the story. All of this helps explain why *TIME* magazine calls SUSPENDED "perhaps the best computer thriller to date." *Rolling Stone* puts it more succinctly, labeling SUSPENDED the "Best Computer Game." Period.



The WITNESS™

- Touchscreen
- The PORTABLE

It's the "Best Adventure of 1984," according to *Electronic Games*, February 1988. A cold and dreary Friday evening in a quiet neighborhood on the outskirts of Los Angeles. Why should you, the Chief Police Detective, give up your precious spare time to work on this case—battling a 12-hour deadline? Could it be the self-centered soldier of fortune who asked you so urgently? Was his wife's death really a suicide? What makes his daughter so intriguing? And what about the Asian butler, or the lover who looks like a film star? Armed with a packet of crucial physical evidence, you face a tangled web of clues, motives, and alibis. The only testimony you can trust is that of your own eyes because . . . you are the WITNESS.



The ZORK Trilogy

The Washington Post, *The New York Times*, and astronaut Sally Ride have raved about the Zork Trilogy. Evidently, the public agrees, for the *Softalk* Readers' Poll named ZORK I its "All-Time Most Popular Adventure" two years running, and all three ZORK adventures are among the best-selling computer products in history.

This classic odyssey plunges you into the extraordinary world of the Great Underground Empire. ZORK I, II, and III all share a common thread, yet each is a complete and separate story unto itself. You don't have the master one episode in order to venture into the next, but why not experience the full adventure?



ZORK I

- Touchscreen
- The PORTABLE

This is the introduction to the Great Underground Empire, challenging you to find and explore the subterranean ruins of an ancient civilization. The object is to plunder whatever treasures remain in the catacombs and live to tell the tale. But you aren't the only explorer. A hungry-looking thief is after the same rich bounty, and he's a formidable enemy.

ZORK II

- Touchscreen
- The PORTABLE

This chapter takes you further into the deepest recesses of the earth to discover the secrets of sorcery. Confront the Wizard of Frobozz and his evil spells. He will attempt to impede your quest with his capricious powers.

ZORK III

- Touchscreen
- The PORTABLE

The final chapter in the trilogy, by far the most difficult, is the test of your wisdom and courage. Your odyssey culminates in an encounter with the Dungeon Master himself, and your destiny hangs in the balance.

Note: product names followed by * or ™ are trademarks of their respective companies. For a complete listing, see page 158.

For software prices and product numbers, see pages 48-53.

Financial Simulation games

Do you have what it takes to make millions in the stock market? Acquire real estate beyond your wildest fantasies? Achieve unimaginable wealth as a commodities trader? Now with Blue Chip Software's Financial Simulations you can find out . . . without the Risk! Whether you're a novice or experienced investor, have fun and increase your knowledge of investment opportunities with **BARON: The Real Estate Simulation™**, **MILLIONAIRE: The Stock Market Simulation™**, and **TYCOON: The Commodities Market Simulation™**. All three games feature a built-in program generator that creates an endless stream of economic scenarios to challenge you each time you play.

BARON: The Real Estate Simulation™

• Touchscreen • IBM® PC

Imagine yourself a real estate baron with vast holdings around the country. Buy a high rise in New York, sell a cattle ranch in Texas, invest a quarter million in second mortgages or exercise an option on that manufacturing plant in Texas.

You start with \$35,000 and have 60 simulated months to parlay it into a fortune by buying, selling and developing different kinds of properties in five U.S. states.

BARON is a realistic economic simulation based on a complex historical model of the real estate market. The actual headlines from major financial publications may indicate upward or downward price trends, and a wide array of data allows you to research property price trends around the country.

MILLIONAIRE: The Stock Market Simulation™

• Touchscreen • IBM® PC

Enter the high-powered financial world of the New York Stock Exchange where strategic decisions can make or lose a fortune. In **MILLIONAIRE**, you'll begin with \$10,000 and invest in stocks from five different industry groups. As stock prices respond to dynamic market forces, you'll become involved in sophisticated trading like buying-on-margin, call options and put options.

The market trends of the games are based on actual stock market trends. Headlines from major financial publications yield clues about price trends. You'll have access to information about the profitability of the corporations, the number of shares traded on the exchange, stock price trends, industry trends and daily price changes.



TYCOON: The Commodities Market Simulation™

• Touchscreen • IBM® PC

If you thrive on the abrupt twists and turns of a highly volatile marketplace, you belong in the intensely competitive commodities arena of **TYCOON**. Imagine having financial control over vast quantities of the world's most important raw materials. In **TYCOON** you'll be trading gold, oil, foreign currencies, T-Bills, pork bellies, and other valuable commodities. Imagine buying 500,000 barrels of oil just before an embargo, or holding 100,000 ounces of gold when the price drops \$100 an ounce?

TYCOON is a complete Financial Simulation of the commodities market, based on actual market events and price trends. News headlines, and a wide variety of price-trend data allow both novice and expert traders to search for that perfect opportunity to make a fortune.

Strategy games

Winning Deal

• Touchscreen

With the Touchscreen as your challenger, card playing has never been more fun. **Winning Deal** combines your favorite card games with the magic of *Touch*, so moving a card is as easy as pointing your finger. And **Winning Deal's** "learn-as-you-play" feature won't let you make illegal moves. Try out your skill and luck on these single-player games:

- Blackjack
- Concentration
- Accordion Solitaire
- Streets and Alleys Solitaire
- Klondike Solitaire

And that's only the beginning. Several variations and levels of difficulty are available to offer continuing challenge and excitement.



Milky Way Merchant

• Touchscreen

Become a galactic merchant! Sharpen your trading skills as you try to beat your opponents to the best deals. **Milky Way Merchant** provides you with the opportunities and the barriers in a strategy game that spans the galaxy.

The year is 2200 and interstellar development has begun. Across the Milky Way galaxy, trading centers are opening in several planetary systems, including our own solar system.

The Interstellar Federation has granted you—and your competition—a license to transport, buy, and sell supplies to settlements across the federation. If you plan and bargain well, the sky's the limit for profits. If not, your failure could lead to the collapse of stellar economies.

The opportunities—and obstacles—are never the same. Game conditions continually evolve as star systems change their demands and new centers join the federation. **Milky Way Merchant** with HP *Touch* offers an unlimited array of planetary environments that will keep you racing to outmaneuver your opponents for hours.

For one to four merchants.



SARGON III

Computer Chess

• Touchscreen


Experience the ultimate in computer chess with HP *Touch* and Hayden Software's renowned **SARGON III**. The HP Touchscreen PC brings a whole new dimension to this classic game as you move chess pieces by simply touching the screen.

Both beginners and experts will enjoy **SARGON III**. The novice will find **SARGON** to be an excellent chess tutor while the chess master will appreciate the sophisticated algorithm that allows **SARGON** to search many moves ahead at higher levels of play. Plus, **SARGON III** is packed with play-enhancing features!

Learn the strategy of chess or sharpen your tactics by solving one of the 45 brain-teasing chess problems. Or, review one of the 107 historical chess games played by the greatest players of all times.

Whether you consider yourself a chess expert or have never played chess before, remember, **SARGON III** and the Touchscreen PC—it's the best move you can make!





HP 2392A Display Terminal, page 75.

82906A Impact Printer, available through your local HP sales office.

92205J Anderson Jacobson Modem, page 4.

7475A Six-pen plotter, page 119.

92205A Hayes Smartmodem 1200, page 4.

HP 2225 ThinkJet Printer, pages 78-79.

92015A Bar code reader, page 77.

Meet the HP 2392A— a compact display terminal at an unbeatable price

Compact is the perfect word to describe the HP 2392A's surprisingly small size and even smaller price. Occupying just over a cubic foot of space, the 12-inch terminal fits easily into even the busiest workspace. And at just \$1375, the 2392A is the most affordable HP terminal in its class!

But don't let the small size and low price fool you. The new HP 2392A Display Terminal has virtually all the capabilities of the HP 2622A, 2621B and 2382A Block Mode Terminals—at up to a 40 percent cost savings! Designed with the most demanding user in mind, the HP 2392A offers: character or block mode operation, up to four pages of memory, smooth scrolling, integrated tilt and swivel, a detachable low-profile keyboard, an optional printer port, data transmission rates up to 19,200 bits per second, ANSI compatibility, and more!

First and foremost—a user-oriented terminal.

An integral tilt and swivel unit allows the terminal to be positioned at just the right angle. Power and brightness controls are located conveniently on the front panel, within easy reach. Eight function keys can be used to simplify the terminal's operation. And local edit keys allow text or data to be reviewed and edited before transmission.

Sophisticated Alphanumerics make your work easier. The terminal's precisely defined characters, formed in a high-density 9 x 14 dot cell with half dot shifting, are displayed on a full 12-inch diagonal green phosphor screen. Smooth scrolling allows you to easily view up to eight pages of data on the 24-line by 80-character display.

Display enhancements can be used in conjunction with the 64-character line drawing set to emulate existing paper forms.

State-of-the-art data communications conserve time and resources. The full duplex point-to-point asynchronous transmission on



the HP 2392A's standard systems port allows you to talk to your host computer at speeds of up to 19,200 bits per second. This means faster response times and increased savings due to reduced computer time. With RS232C or HP 422 capabilities, the 2392A can talk to a wide variety of computer systems.

Optional printer port gives you on-the-spot hard copy. An optional user-installable port offers a choice between an RS232C serial or a Centronics-type parallel printer interface. With this option, you can utilize any of a variety of printers for on-the-spot printing.

A no-cost ANSI option lets you talk to ANSI-speaking systems too! When equipped with this option, the HP 2392A can also interface with ANSI "speaking" systems—such as DEC computers.

Reliability and serviceability. Using state-of-the-art VLSI technology, the HP 2392A has been engineered to provide years of trouble-free service. For support services, Hewlett-Packard has a worldwide network of sales and service offices dedicated to serving you. See page 164 for a complete listing.

One of the most comprehensive terminals in its price range. The clincher is that even with all these outstanding features and the same Hewlett-Packard quality you are used to, the HP 2392A is priced at only \$1375.00.

HP 2392A Display Terminal ... \$1,375.00 ea.

Printer Interfaces

HP 40210R Port 2: 25-pin RS232C Interface \$210.00 ea.

HP 40210P Port 2: 8-bit parallel Centronics-type Interface \$210.00 ea.

Cables

40242M U.S. modem cable ... \$95.00 ea.

40242C Extender cable \$95.00 ea.

40242X HP direct connect type 232 cable \$95.00 ea.

40242Y EMP (Electro-Magnetic Pulse) protect cable \$95.00 ea.

40242P HP direct connect type 422 cable \$95.00 ea.

40242D Parallel printer cable . \$95.00 ea.

40242G Serial (RS232C) printer cable \$95.00 ea.

Accessories

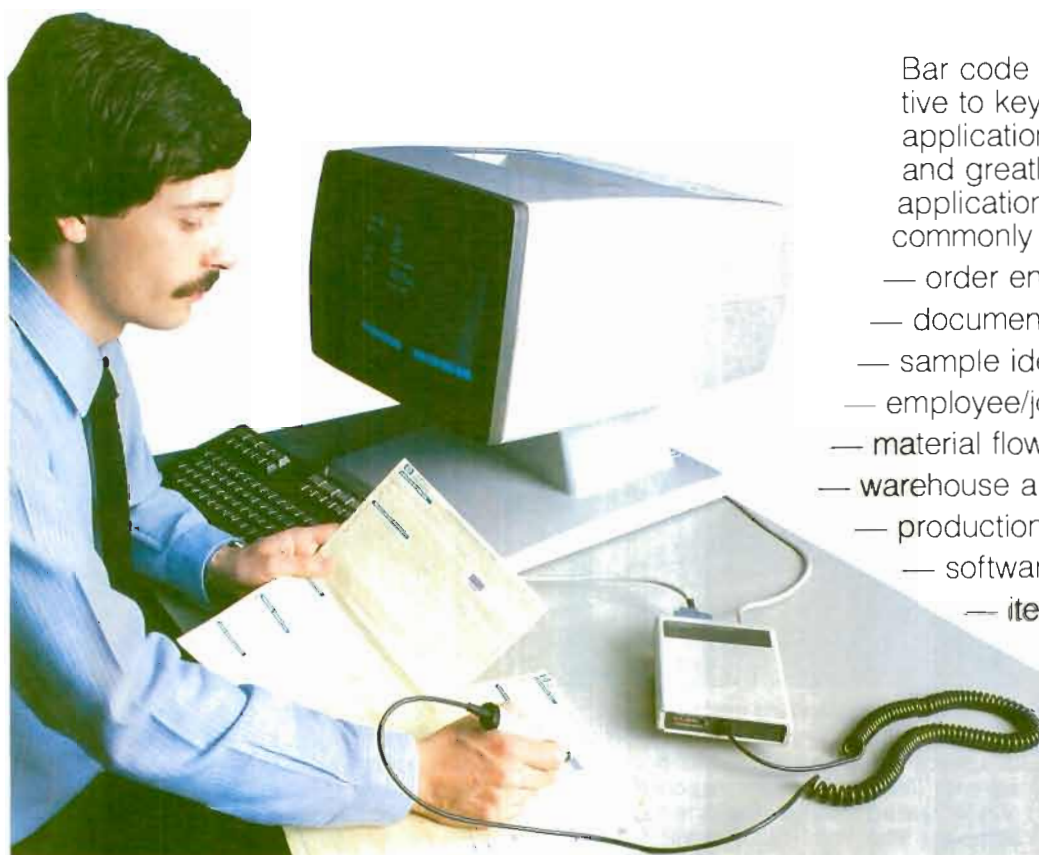
92171J Keyboard park. See page 95. \$75.00 ea.

92251E Dust cover. See page 100 \$25.00 ea.



The HP 2392A Display Terminal with a built-in tilt and swivel unit provides all the power of other HP terminals (right) in a compact package.

Bar code readers— the fast, simple, accurate alternative to keystroking.



Bar code readers are an effective alternative to keyboards for many data entry applications. They speed up data entry and greatly improve accuracy in clerical applications where video terminals are commonly found, for example:

- order entry
- document tracking
- sample identification
- employee/job identification
- material flow
- warehouse applications
- production tracking and control
- software distributions
- item tracking

The benefits are:

- Speed—three times faster than typing
- Accuracy—error rate reduced by a factor of 1000



Preprinted bar code labels

Part numbers	Description	U.S. list price
Interleaved 2 out of 5 code 25.4 mm x 15.9 mm	3 of 9 code 63.5 mm x 15.9 mm	set of 10,000 labels*
92911-90111	92911-90101	numbered from 00000 to 09999
92911-90112	92911-90102	numbered from 10000 to 19999
92911-90113	92911-90103	numbered from 20000 to 29999
92911-90114	92911-90104	numbered from 30000 to 39999
92911-90115	92911-90105	numbered from 40000 to 49999
		\$350.00 per set of 10,000 labels

*Labels numbered 50000 and above, available upon request.

Bar code accessories

Description	Product number	Price**
Medium resolution general purpose wand (12 mils)	5061-3855	\$ 215.00 ea.
High resolution general purpose wand (6 mils)	5061-3856	250.00 ea.
Low resolution industrial wand (15 mils)	0950-1663	490.00 ea.
High resolution industrial wand (7.5 mils)	0950-1662	490.00 ea.
Low resolution slot reader (15 mils)	0950-1681	650.00 ea.
High resolution slot reader (5 mils, infrared)	0950-1665	525.00 ea.
Cable connector kit for 92922A or 40253A	5061-3858	38.00 ea.
General purpose (plastic) wand holder	03075-40006	3.30 ea.
General purpose (plastic) wand replacement tip	5040-9906	.95 ea.
Industrial (metal and sealed) wand holder	03075-40010	1.80 ea.
Industrial (metal and sealed) replacement tip	1535-4474	50.00 ea.

**Sorry, but quantity, contract, or other discounts do not apply to the special off-the-shelf service.

92911A Bar code reader consists of a bar code wand attached to a decoder pod by a coiled cable. The decoder pod is connected in series with the terminal's keyboard cable, and is powered through it. The 92911A is ready to use whenever the terminal is powered-on.

When a correct read has been completed, the terminal beeper sounds, and the data is displayed on the CRT in the same way as keyboard-originated data. When all the characters have been displayed, the terminal beeper sounds a second time.

The standard configuration comprises a medium-resolution wand (12 mils) recommended for general use and for

use with bar codes generated on good quality dot matrix printers (e.g. HP 2933A, 2934A). Option 053 features a high-resolution wand (6 mils) for use with high-density bar codes (pre-printed labels, specialized serial impact printers, etc.).

Features:

- Compatible terminals: HP 2622A, 2623A, 2624B, 2626A/W, 2627A, HP 125 Computers
- Compact, easily installed
- No modifications to host terminal/system
- Choice of wands
- Two most popular industrial codes:
 - Interleaved 2 out of 5 (USD 1)
 - Code 3 of 9 (USD 3)



92911A† \$650.00
92911A w/ Opt. 053 high resolution wand† \$650.00

HP 75D Portable bar code reading system—the first portable computer to read major industrial and retail bar codes. Its main application is remote data collection and the transmission of data from remote locations. The HP 75D can be used any time there is a need for a lightweight, small size, true portable bar code reader.

It features a 32 alphanumeric characters display (scrolls to 96 characters), a 48K byte ROM BASIC language operating system, and 16K bytes of built-in RAM, expandable to 24K with optional plug-in memory modules. Also, a built-in HP-IL interface allows communicating with peripherals, instruments or other

computers (using an acoustic coupler or a modem). A built-in card reader allows programs, text or data to be read or written, and is a convenient off-line mass storage medium.

The 75D reads codes 3 of 9, Interleaved 2 out of 5, Code 11, CODABAR and UPC/EAN.

HP 75D Portable Computer† ... \$1145.00 ea★
82725A Bar code reader module† \$75.00 ea★
92267A High resolution bar code wand† \$160.00 ea★
92267B Medium resolution bar code wand† \$150.00 ea★



92915A Bar code reader for HP 2392A Display Terminals and Touchscreen Personal Computers. This simple-to-use reader provides an alternative to the keyboard for many data entry applications including: order entry material flow, warehousing applications, and item tracking.

The 92915A consists of a bar code reader that is attached to a decoder pod by a coiled cable. The decoder pod is connected in series with the terminal's keyboard cable, and is powered by it. The 92915A is ready to use whenever the terminal is powered on. When the bar code reader is in use, the keyboard is still

in the active state, and bar code and keyboard entries can be mixed in the same application.

Features:

- Very high read rate
- No modifications to host terminal or system
- Powered from the terminal
- Bidirectional scanning
- Accommodates all popular industrial codes
- Audible feedback for correct readings

92915A† \$495.00 ea.



Miscellaneous terminal accessories

	Description	Part #	Price †
262X Terminals	Battery	1420-0259	(1-2) \$10.00 ea.
			(3+) 8.50 ea.
264X Terminals	Individual blank key overlay (Minimum order 5). Label template fits around user-defined "soft" keys on terminal.	7120-5525	\$1.50 ea.
3092/93 Industrial Terminals	Customizing keyboard template	03090-90010	\$40.00 ea.

†Sorry, but quantity, contract, or other discounts do not apply to the special off-the-shelf service

CALL US WITH YOUR PURCHASE ORDERS AND



We ship within 24 hours
JUST GIVE US A CALL
800-538-8787
California 408-738-4133

The HP 2225 ThinkJet Printer ushers in the future . . . quietly



The HP 2225 ThinkJet Printer's compact size makes it ideal for the home or office. Exterior dimensions: height 3.5 inches (89 mm); width 11.5 inches (292 mm); depth 8.1 inches (206 mm).

The powerful HP 2225 ThinkJet Printer lets your words speak louder than your printer. HP has refined ink-jet printing and now offers it to you in a lightweight printer priced under \$500. Ink-jet printers direct ink through a print head onto the paper. Since the print head never touches the paper, there is no impact noise and no wear on the head mechanism. With the HP 2225, the whole print mechanism is contained in a small, disposable cartridge that simply snaps into place.

Quiet. The HP 2225 is ideal for the office or home because it is so quiet. With a

noise level under 50 dB you can carry on a normal conversation while the printer is working beside you.

Fast. Print speed of 150 characters per second means you can print an average letter in a matter of seconds. And print speed is not affected by switching to bold-face type.

Graphics. When words can't express everything you want to say, the HP 2225 makes graphics a breeze. The ink-jet head literally paints your picture onto the page. A wide variety of character sizes is also available.

HP 2225A (HP-IB interface)† .. \$495.00 ea.

HP 2225B (HP-IL interface, DC battery power)† \$495.00 ea.

HP 2225C for use with IBM® and Apple® personal computers (Centronics interface)† \$495.00 ea.

NEW HP 2225D (RS232C interface)† \$495.00 ea.

ThinkJet accessories

ThinkJet supplies page 113

Printer stand page 113

HP 2225: Computer compatibility guide

Computer	HP 41	HP 71B	HP 75	HP 85	HP 86A	HP 86B/87	Series 100/200
Printer model	2225B	2225B	2225B	2225A/D	2225C/D	2225A/D	2225A/B/D
Graphics printing	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ROM/driver required	Included	Included	Included	82936A ROM drawer 00085-15002 Plot/Print ROM 2225D requires 82939A serial interface	Included 2225D requires 82939A serial interface	Included 2225D requires 82939A serial interface	Included
Computer interface required	82160 HP-IL	82401A HP-IL	HP-IL included	82937A HP-IB	Parallel included	HP-IB included	HP-IB included
Cable required	82167 A/B/D	82167 A/B/D	82167 A/B/D	10833 A/B/C/D	82957A	10833 A/B/C/D	10833 A/B/C/D

†Sorry, but quantity, contract, or other discounts do not apply to the special off-the-shelf service.

Note: product names followed by ® or ™ are trademarks of their respective companies. For a complete listing, see page 158.

★For location of dealer nearest you, call: 800-FOR-HPDC (800-367-4772).

"We love our ThinkJet Printer!"

Vera Allen Composition

Typography • Data Communications



Thought you'd like to know how one of your products has made things much more convenient for me and my staff.

After watching a very convincing demo, I purchased a ThinkJet printer and put it to work that very same day at a negotiation session. With my portable computer I typed a four-page contract right before a dinner meeting and had six high-quality originals printed out and ready for signature within minutes after the meeting. Afterward, I just placed my portable and ThinkJet in an overnight case and was on my way.

In the eight months that I've owned a ThinkJet, I've really come to depend on it. At the office, I keep it on my desk as it enables me to quickly print out important sales information while I'm talking with a client over the phone.

It's so quiet that my callers often are not aware that during our conversation, I'm taking down notes (sometimes full job descriptions) and having all the information printed out right on the spot.

When it's not in my office, it's in the telecommunications department where large volume-type books or magazines are telecommunicated to us frequently. My ThinkJet prints out large files of text with tremendous speed and clarity. And no matter which of my four microcomputers it is hooked up to, the quality is absolutely the same.

Just so you know, we love our ThinkJet printer!

Sincerely,

Vera Allen Smith

Vera Allen
President, Vera Allen Composition

P.S.

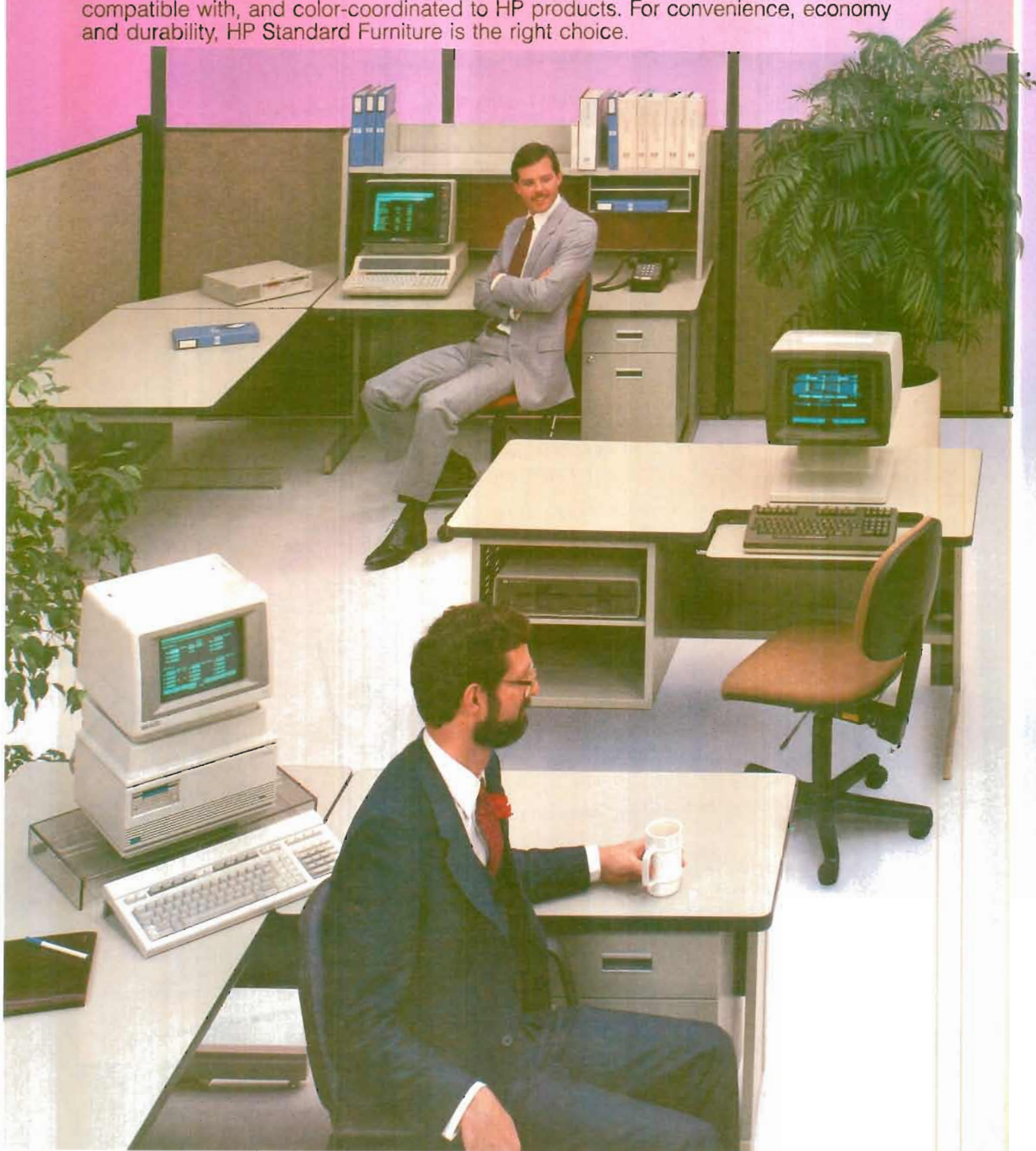
Two executives at that first negotiation meeting now each own a ThinkJet and I have requisitions for two more.



HP Standard Furniture—the practical solution

Efficiently designed, HP Standard Furniture lets you build the workstation you initially need on a modest scale at a modest price—while making it easy for you to add accessory pieces as you expand or change floorplans.

HP Standard Furniture is solidly built to handle terminals, printers, plotters, personal computers and disc drives as well as conventional office equipment. All the furniture pieces are compatible with, and color-coordinated to HP products. For convenience, economy and durability, HP Standard Furniture is the right choice.



Design Plus—the finishing touch

Design Plus is the setting we've designed and built specifically for HP computers and peripherals. It's more than just a place to set your equipment—it's the finishing touch to your new HP system. It's a rugged, high-quality, modular furniture system custom-designed to help you work with your computers and expand as your system grows.

But even beyond its pleasing design aesthetics and restful colors, you'll find conveniences such as cable management, and ample work and storage space. For comfort, efficiency, custom design and full compatibility with HP's newest computer systems, *Design Plus* is the best!



Ergonomics. . . .

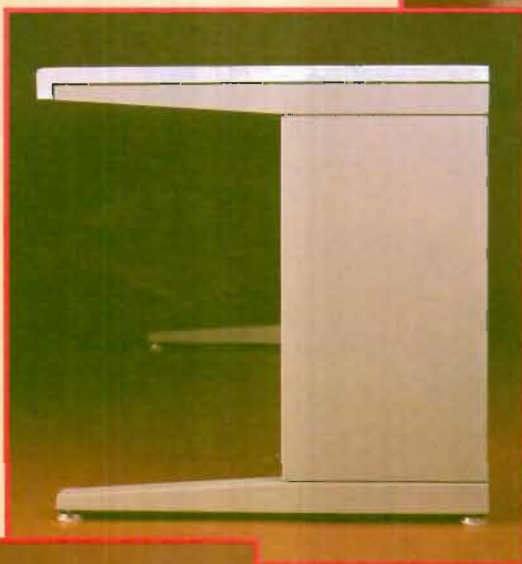
Ergonomics is the science that seeks to adapt working conditions to suit the worker rather than the worker to the work environment. It takes into account differences in people, type of work and time spent at a particular task. Correctly chosen, ergonomic products can increase morale and productivity, as well as money savings due to increased productivity. Our ergonomic products are featured in the following pages. Helpful information regarding the ergonomic attributes of some of our products will appear as Exclusively Ergo notes.

Design Plus



The 92211R mobile mini-rack sits neatly next to all Design Plus system tables, expanding your desktop workspace.

Cast aluminum and steel legs provide solid construction, as well as functional design. A 3mm gap between the tabletop and leg allows you to mount extensions like our 90° corner turn quickly and easily—without tools!



The 92211L/M mobile support cabinets, specifically designed for the Model 217, Model 237, and Model 550 Computers, can be stored conveniently under all Design Plus system tables.



Tabletop slides on and locks into position in just minutes—no tools necessary!



Safe and simple! Our wire-mesh cable management system neatly routes cables and power cords along back side of tables and allows you to drop them at any convenient point.

Buy a Design Plus system—and SAVE!

Now you don't have to figure out what pieces to buy. We did it for you! Choose from one of our *Design Plus* furniture systems and add the finishing touch to your new HP computer system. If you don't find the perfect match, you still can save by starting with one of our systems and adding other *Design Plus* components to customize your workstation.

NEW 92214AA Design Plus One. This large workstation system is ideal for your HP 3000 Series 37 Computer. Provides space for your terminal, printer, files and documentation. The Series 37 system cabinet is a perfect height and design match for the *Design Plus One* workstation. System One package includes:

- **92214A Design Plus** terminal support stand
- **92214B Design Plus** medium system table
- **92214J Design Plus** 90-degree corner turn
- **92211N Design Plus** mobile drawer unit.

You save \$155 over the combined cost of buying each furniture component separately. Available July 1, 1985.

Price \$1375.00 ea.



NEW 92214BB Design Plus Two. This basic package is just right for your HP 9000 Series 200 (Models 217, 226, 237) and HP 9000 Series 500 (Model 550) computers. Offers a roomy work surface for a terminal and keyboard, plotter and small printer. The mobile support cabinet holds your cpu and disc/tape peripherals and rolls under the system table for convenient storage. The mobile drawer unit holds your files and documentation. System Two includes:

- **92214C Large Design Plus** system table.
- **92211N Design Plus** mobile drawer unit.
- **92211L Design Plus** mobile support cabinet.

You save \$120 over the combined cost of buying each furniture component separately. Available July 1, 1985.

Price \$1095.00 ea.

See below and page 84 for all available *Design Plus* system furniture components.










Remember! Our prices include the cost of truck/UPS shipment to you (see inside front cover for details).

HP Design Plus system tables (see photo page 81) ★

	Part number	Description	Height	Width	Depth	Price
	92214A	<i>Design Plus</i> Mobile terminal support and transport system table. Designed to safely move terminals and small systems. Comes with cable management, locking casters, and is same height as 92211R mobile rack system cabinet.	28.4 in. 720 mm	29.5 in. 750 mm	28.0 in. 711 mm	(1-2 tables) \$390.00 ea. (3+) 360.00 ea.
	92214B	Medium <i>Design Plus</i> system table. Comes with cable management, locking casters, and is same height as 92211R mobile rack system cabinet.	28.4 in. 720 mm	44.3 in. 1125 mm	28.0 in. 711 mm	(1-2 tables) \$440.00 ea. (3+) 415.00 ea.
	92214C	Large <i>Design Plus</i> system table. Comes with cable management, adjustable leveling glides, and is same height as 92211R mobile rack system cabinet.	28.4 in. 720 mm	59.0 in. 1500 mm	28.0 in. 711 mm	(1-2 tables) \$495.00 ea. (3+) 465.00 ea.
	92214J	90-degree <i>Design Plus</i> corner turn. Used for joining two system tables together for a larger work area.	Each side	28.0 in. 711 mm		(1-2 units) \$175.00 ea. (3+) 160.00 ea.

HP Design Plus system storage and support furniture

	Part number	Description	Height	Dimensions Width	Depth	Price
	92211L	<i>Design Plus</i> mobile support cabinet. Rolls easily under the 92214B/C <i>Design Plus</i> system tables. Can be used as a stand-alone system cabinet for the Series 200, Model 217, and Series 500, Model 550 Computer Systems. Comes with two sets of mounting rails for HP modular equipment mounting, a cable routing kit (92199F), and a storage shelf. Internal width is 12.8 in. (325 mm).	24.4 in. (620mm)	16.7 in. (425mm)	20.7 in. (525mm)	(1-2 units) \$195.00 ea. (3-9) 185.00 ea. (10+) 175.00 ea.
	92211M	<i>Design Plus</i> small mobile support cabinet. Rolls easily under the 92214B/C <i>Design Plus</i> system tables. Can be used as a stand-alone system cabinet for the Series 200, Model 237 Computer System. Comes with one set of mounting rails for HP modular equipment mounting, a cable routing kit (92199F), and a pad to put under the Model 237. Internal width is 12.8 in. (325 mm).	17.1 in. (435mm)	16.7 in. (425mm)	16.7 in. (425mm)	(1-2 units) \$165.00 ea. (3-9) 155.00 ea. (10+) 145.00 ea.
	92211N	<i>Design Plus</i> mobile drawer unit. Rolls easily and sits next to all <i>Design Plus</i> system tables (also same height as tables). Comes with three drawers, 4 in., 6 in. and 12 in. (104 mm, 156 mm, and 312 mm).	28.4 in. (720mm)	14.8 in. (375mm)	28.0 in. (711mm)	(1-2 units) \$525.00 ea. (3-9) 499.00 ea. (10+) 485.00 ea. Available July 1, 1985
	92211R	<i>Design Plus</i> Mobile mini-rack system cabinet for HP modular peripherals and systems 12.8 in. (325 mm) wide such as the HP 9121 disc drive. Comes fully assembled with casters. Back is key lockable and opens for easy access to mounted equipment. Accessories available are the 92211S mounting rail and module lock kit, 92211T filler panel kit, and 92199B power strip (see page 26.)	28.4 in. (720mm)	14.8 in. (375mm)	28.0 in. (711mm)	(1-2 racks) \$550.00 ea. (3-9) 520.00 ea. (10+) 500.00 ea.
	92211S	Rail kit for 92211R mobile mini-rack cabinet. Comes with four sets of rails and 10 module locks. Used to mount up to four HP computer and peripheral equipment modules.		Rail length—25.1 in. (638mm)		(1-2 kits) \$45.00 ea. (3-9) 40.00 ea. (10+) 35.00 ea.
	92211T	Filler panel kit for 92211R mobile mini-rack cabinet. Kit contains 20 snap-in panels used to fill empty space not occupied by computer equipment modules.	0.9 in. (23mm)	12.8 in. (325mm)	0.9 in. (23mm)	(1-2 kits) \$38.00 ea. (3-9) 33.00 ea. (10+) 30.00 ea.
	92214P	<i>Design Plus</i> universal support stand. For use with HP 2932/33/34, HP 2563A printers and small HP plotters. Comes with printout catcher shelf, casters and leveling glides. Has slot in top for bottom feeding and slot in door top for front feeding. Also has sound control pad on door, two interior walls, and comes color compatible with HP printers and plotters.	28.4 in. (720mm)	23.6 in. (600mm)	17.7 in. (450mm)	(1-2 units) \$275.00 ea. (3+) 245.00 ea.

Design Plus furniture compatibility guide

	Equipment	Recommended cabinet
HP computer	HP 260	92211R Mini-rack system cabinet.
	HP 3000 Series 37	Series 37 comes mounted in 92211R cabinet. For larger configurations of disc and tape support, order an additional 92211R cabinet.
	HP model 217 HP model 550	92211L Mobile support cabinet. Computers mount in cabinet. Has space for two additional disc or tape peripherals.
	HP model 237	92211M Small mobile support cabinet. Computer sits on top of cabinet. Two additional disc or tape peripherals will mount in cabinet.
HP disc/tape peripherals	9121D 3.5-in. floppy disc drive (single-sided) 9122D 3.5-in. floppy disc drive (dual-sided) 9133V 5m-byte Winchester floppy drive 9133XV 15m-byte Winchester/floppy drive 9134XV 15m-byte Winchester drive 9144A cartridge tape drive 7941A 24m-byte Winchester drive 7942A 24m-byte Winchester disc/tape drive 7945A 55m-byte Winchester drive 7946A 55m-byte Winchester disc/tape drive	Depending on height, two or more disc and/or tape peripherals will fit in each 92211L/M/R cabinet. Cabinet heights shown in chart above. For peripheral heights, consult appropriate data sheets.

Exclusively Ergo

The 92171A clamp-on copy holder maximizes workspace by keeping the copy holder and the source document off the table surface. The source document should

be located between the display and the keyboard for frequent use, or next to the display for occasional use. The clamp-on copy holder is featured on page 94.

★ For location of dealer nearest you, call: 800-FOR-HPCC (800-367-4772).

Remember! Our prices include the cost of truck/UPS shipment to you (see inside front cover for details).

HP Standard Furniture

Buy a bundle—and SAVE!

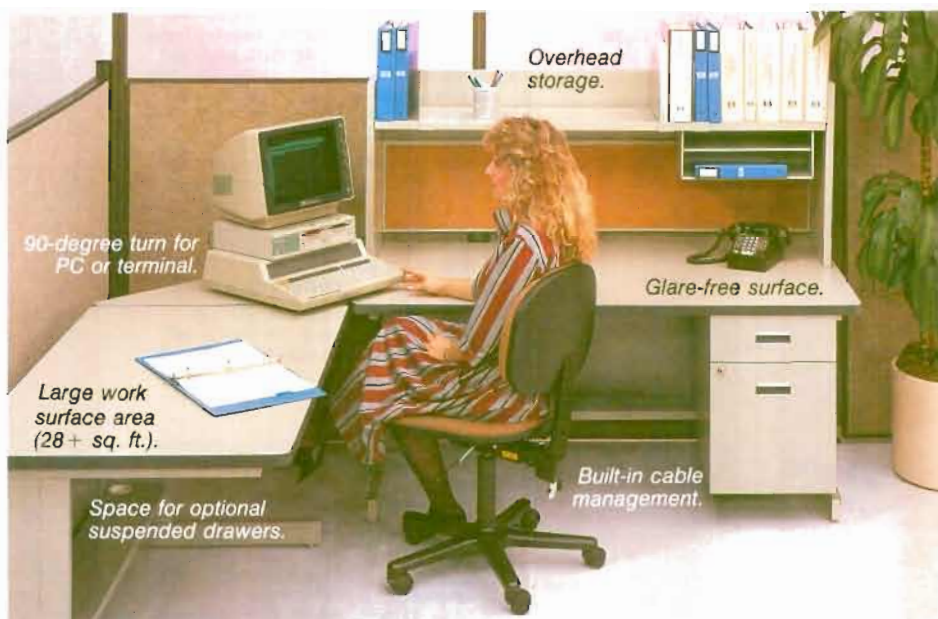
Choose a workstation bundle and save up to \$100 off the total price of combined HP Standard Furniture components. Or, start with one of our bundles and add other components to customize your own personal workstation. *The choice is yours!*

NEW 92210AA Professional workstation. For maximum work and storage space, choose this and save \$100!

- 92210A Compact table.
- 92210B Standard table.
- 92210G Desktop storage shelf for 92210B standard table.
- 92210Q Suspended drawer unit.
- 92210V 90-degree tabletop connector.

Drawer unit will mount on either side of table. Desktop storage unit mounts on 92210B table. See chart page 86 for complete component descriptions. Also see page 80.

Price \$1090.00 ea.



Remember! Our prices include the cost of truck/UPS shipment to you (see inside front cover for details).

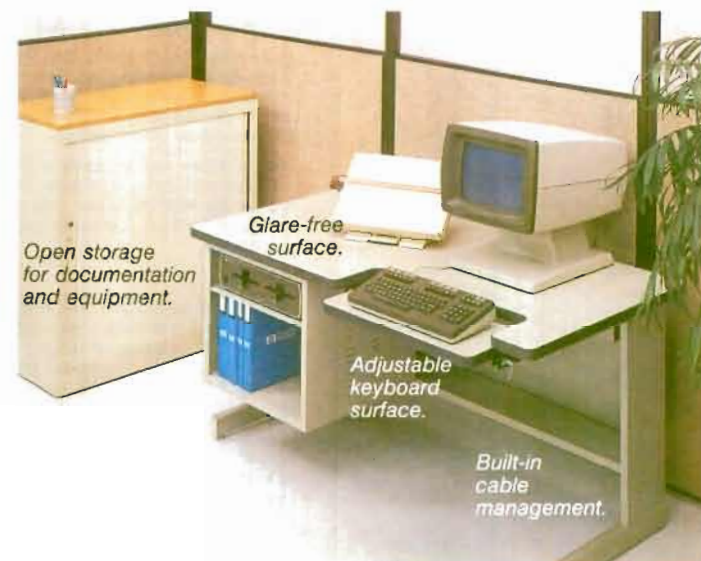


NEW 92210BB Administrative support workstation. Help support your staff with this space-saving selection and save \$50!

- 92210B Standard table.
- 92210E Workstation return.
- 92210Q Suspended drawer unit.

Return can be mounted on either side of table. Suspended drawer will mount either on table or return. See chart page 86 for complete component descriptions. Also see photo page 80.

Price \$675.00 ea.



NEW 92210CC Team workstation. For sharing computers and peripherals within your department, choose this economical workstation bundle and save \$40!












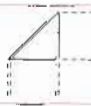

- 92210C Standard table with right-hand adjustable keyboard section.
- 92210R Storage module.

Keyboard section of table manually adjusts. Storage module is convenient for equipment or documentation storage. See chart page 86 for complete component descriptions. Also see photo, page 80.

Price \$445.00 ea.

For bundled Design Plus furniture, see page 83.

HP Standard Furniture (see photo pages 80, 85)

	Product no.	Description	Height	Width	Depth	Price
	92210A (see photo page 85)	Compact workstation table, with leg levelers and modesty panel. 7-in. (178-mm) shelf standard.	27.0 in. 686 mm	48.0 in. 1220 mm	30.0 in. 762 mm	(1-2 units) .. \$295.00 ea. (3+) 275.00 ea.
	92210B (see photo page 85)	Standard workstation table, with leg levelers and modesty panel. 7-in. (178-mm) shelf standard.	27.0 in. 686 mm	60.0 in. 1524 mm	30.0 in. 762 mm	(1-2 units) .. \$345.00 ea. (3+) 325.00 ea.
	92210C (see photo page 85)	Workstation table with right-hand adjustable keyboard section. Leg levelers, modesty panel and 7-in. (178-mm) shelf standard. Keyboard section starts 3 in. (76 mm) from the right side, adjusts down a total of 2.1 in. (53 mm) from table top and can be tilted 10 degrees from the horizontal. Manual adjustments.	29.0 in. 736 mm	60.0 in. 1524 mm	30.0 in. 762 mm	(1-2 units) .. \$390.00 ea. (3+) 350.00 ea.
		Adjustable keyboard dimensions	1.2 in. 30 mm	24.0 in. 610 mm	10.0 in. 254 mm	
	92210D	Workstation table with left-hand adjustable keyboard section. Leg levelers, modesty panel and 7-in. (178-mm) shelf standard. Keyboard section starts 3 in. (76 mm) from the left side, adjusts down a total of 2.1 in. (53 mm) from the table top and can be tilted 10 degrees from the horizontal. Manual adjustments.	29.0 in. 736 mm	60.0 in. 1524 mm	30.0 in. 762 mm	(1-2 units) .. \$390.00 ea. (3+) 350.00 ea.
		Adjustable keyboard dimensions	1.2 in. 30 mm	24.0 in. 610 mm	10.0 in. 254 mm	
	92210E (see photo page 85)	Work surface extension (return), with leg levelers and modesty panel. Fits right or left side of 92210B table, left side of 92210C, right side of 92210D. Requires use of 'Z' bracket (included) when mounting on 92210C/D. Not for 92210A.	27.0 in. 686 mm	40.0 in. 1016 mm	24.0 in. 610 mm	(1-2 units) .. \$185.00 ea. (3+) 170.00 ea.
	92210F	Desktop storage shelf for 92210A workstation table. Includes two book supports and back-wall message board. 11 in. (279 mm) storage shelf adjusts from 15 in. (381 mm) to 21 in. (533 mm) above work surface of table. Convenient paper/storage shelf included.	23.0 in. 584 mm	47.0 in. 1194 mm	12.0 in. 305 mm	(1-2 units) .. \$215.00 ea. (3+) 195.00 ea.
	92210G (see photo page 85)	Desktop storage shelf for 92210B/C/D workstation table. Includes three book supports and back-wall message board. 11 in. (279 mm) storage shelf adjusts from 15 in. (533 mm) to 21 in. above work surface of table. Convenient paper/storage shelf included.	23.0 in. 584 mm	59.0 in. 1499 mm	12.0 in. 305 mm	(1-2 units) .. \$235.00 ea. (3+) 215.00 ea.
	92210M	Top access mobile media file. Stores legal, letter, data processing printout as required. Full suspension. Locking top panels slide to each side to provide easy access and handy work surfaces. Dual wheel casters.	25.3 in. 643 mm	20.5 in. 521 mm	23.3 in. 592 mm	(1-2 units) .. \$280.00 ea. (3+) 255.00 ea.
	92210N	Mobile drawer unit, on casters. Two drawers, with identical key lock all units. Deep bottom drawer like 92210Q below. Unit rolls easily to any workstation; top same height as 92210A/B.	27.0 in. 686 mm	15.4 in. 391 mm	20.0 in. 508 mm	(1-2 units) .. \$295.00 ea. (3+) 280.00 ea.
	92210Q (see photo page 85)	Suspended drawer unit. Two drawers, with identical key lock units. Deep bottom drawer can store three types of hanging files: letter-size, legal-size, and computer printout binders. Fits right or left side of 92210A/B/C/D tables.	21.0 in. 533 mm	14.8 in. 375 mm	19.4 in. 493 mm	(1-2 units) .. \$195.00 ea. (3+) 178.00 ea.
	92210R (see photo page 85)	Storage module unit, with three-position adjustable shelf. Rear of module is open for ventilation and access to 92210A/B/C/D cable management system, when module used to hold electronic equipment. Fits right or left side of 92210A/B/C/D tables.	19.0 in. 483 mm	21.0 in. 534 mm	19.4 in. 493 mm	(1-2 units) .. \$95.00 ea. (3+) 87.00 ea.
		Inside module dimensions	17.0 in. 432 mm	19.4 in. 493 mm	19.4 in. 493 mm	
	92210V (see photo page 85)	Workstation tabletop connector. 90-degree triangle. Joins two 92210A/B/C/D tables together.	Each side	30.0 in. 763 mm		(1-2 units) .. \$120.00 ea. (3+) 110.00 ea.
	92210L	Set of four heavy-duty, double-wheel casters. Use in place of leg levelers on 92210A/B/C/D tables or 92210H/P stands where mobility is desired. Caster height 1.75 in. (45 mm).				(1-2 units) .. \$26.00 set (3+) 21.00 set

EASY ASSEMBLY! A Phillips screwdriver is the only tool needed to assemble HP Standard Furniture. All mounting holes are pre-drilled/tapped, and all hardware and brackets are included.

Remember! Our prices include the cost of truck/UPS shipment to you (see inside front cover for details).

★ For location of dealer nearest you, call: 800-FOR-HP-PC (800-367-4772).

Tables and printer stands



Above left to right—92210H standup printer/terminal stand, 92210T mobile workstation table, 92210P printer stand. Also shown is the 2624A Terminal and the 2602A Printer.







92170G Tables—standalone at right, and at left configured with a 7912 Disc Drive, HP 1000 System.

The 92210H/P/T printer stands and table above have the same design lines and color as the various components in our modular workstation system, as well as the built-in cable management feature.

The HP 92170G, left, is of a different style, and matches the design lines of the HP 7908/11/12 disc drives.

Standard tables and stands

	Product number	Description	Height	Dimensions Width	Depth	Price
	92170G (See photo above)	Custom designed workstation table. Matches color, form and dimensions of HP 7908/11/12 disc drives. Steel construction with wood-laminate top. Hex-head wrench included for easy assembly.	28.3 in. (720 mm)	36.6 in. (930 mm)	28 in. (712 mm)	(1–2 units) \$310.00 ea. (3+) 290.00 ea.
	92210H (See above photo)	Standup printer/terminal stand. Design matches HP 92210-series workstation system. Same slotted top and rear printout catcher as 92210P (see above). Height is 38 in. (965 mm), ideal for walk up operation of equipment. Cable management slots, 7-in. (178 mm) shelf standard.	38 in. (965 mm)	Work surface 30 in. (762 mm)	24 in. (610 mm)	(1–2 units) \$265.00 ea. (3+) 250.00 ea.
	92210P (See above photo)	Printer stand. Design matches HP 92210 series workstation system. Convenient paper feed slot (4 × 19 in., 102 × 483 mm) in top allows bottom paper feed. Also features rear printout catcher with 1.5-in. (38 mm) slot to allow paper transport to rear feed printers. Cable management slots, 7-in. shelf standard.	29.5 in. (749 mm)	Printout catcher 17 in. (432 mm)	13.5 in. (343 mm)	
	92210T (See above photo)	Mobile workstation table for terminals. Design matches HP 92210 series workstation system. Features a dropped, pull-out keyboard surface. Cable management slots, locking casters and 7-in. (178 mm) shelf standard.	27 in. (686 mm)	Work surface 30 in. (762 mm)	24 in. (610 mm)	(1–2 units) \$255.00 ea.★ (3+) 240.00 ea.
			18.5 in. (470 mm)	Printout catcher 17 in. (432 mm)	13.5 in. (343 mm)	
			26.4 in. (670 mm)	Keyboard surface 23.5 in. (597 mm)	12 in. (305 mm)	(1–2 units) \$290.00 ea.★ (3+) 270.00 ea.

Remember! Our listed prices include the cost of UPS/truck shipment to you (see inside front cover for details).

★ For location of dealer nearest you, call 800-FOR-HPDC (800-367-4772)

HP Ergonomic Chairs



Left to right—92209G/E/F Ergonomic workstation managerial chair, 92209M Ergonomic executive chair, 92209S Ergonomic workbench chair.

HP ergonomic chairs— extra comfort at exceptional value

HP Ergonomic executive chair. Ultimate comfort is yours with this chair which features:

- Thickly padded seat.
- Back support (lower lumbar, mid- and upper-back).
- Synchro-sit mechanism (as the back is tilted backward or forward, seat moves in same direction.)
- Gas cylinder height and back tilt adjustments.
- Seat/back adjusts with body movement and can be locked into floating position.
- Self-braking casters.

Comes in rust, dove blue and beige.

NEW HP Ergonomic workstation/managerial chair. Maintain your budget while improving your comfort and productivity with this new line of ergonomic chairs. Its value-packed features include:

- Gas cylinder height- and back-tilt adjustments.
- Mechanical back-height and seat-tilt adjustments.
- Self-braking casters.
- Optional set of arms.

With the easily-installable set of arms you can convert this workstation chair into the elegant but affordable managerial chair. Comes in rust, dove blue and beige.

HP Ergonomic workbench chair. Perfect for those who sit at graphics workstations, CAD/CAM stations or other areas that have elevated work surfaces. Features include:

- Gas cylinder back-tilt and seat-cushion height adjustments.
- Mechanical back-height and seat-tilt adjustments.
- Foot ring adjustments.
- Optional casters.

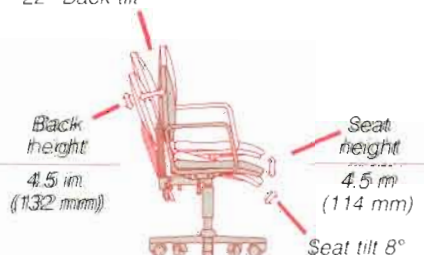
Available in dove blue.

20° Back tilt



92209 M/N/P Executive chair

22° Back tilt



92209G/E/F Workstation/managerial chair

19° Back tilt



Chair shown with optional casters.

92209S Workbench chair

"If you're like me, you probably spend more time than you'd like seated at your desk, conference table or workstation.

And if you do spend much of your workday in a chair, your productivity and end-of-day fatigue relate directly to the comfort of your chair.

That's why I want you to know that this office chair I've used over the past three years is the best chair I've ever had.

Staying comfortable in a chair is not, for me, a simple matter. I'm tall (6 feet 5 inches) and like many of you, my lower back gives me trouble. The lumbar support in this chair certainly relieves lower spinal pressures, while the high chair back provides support to my upper spine and shoulder area during long phone calls or meetings.

And it's so easy to change the seat height and back angle that I probably do it 10 times a day. Like stretching or taking a stroll, it just seems to relieve tension and loosen up my muscles.

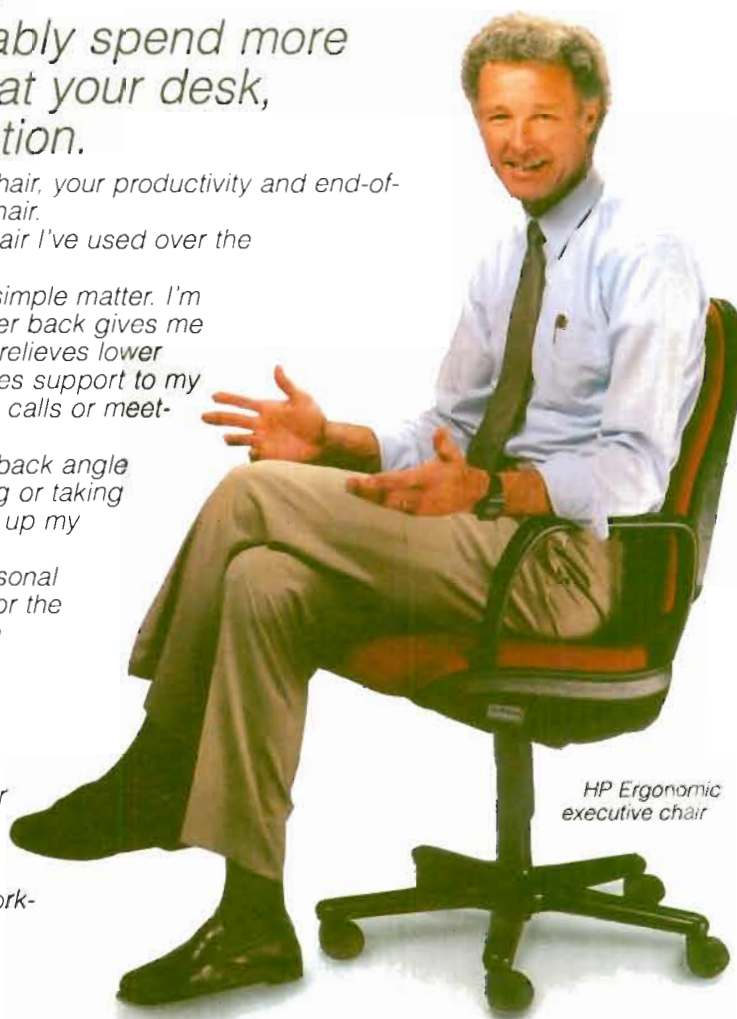
I'm so convinced that these chairs increase personal productivity that I have made them our standard for the entire Supplies Division—including our conference rooms.

They're that good!"

Will Carleton

...Will Carleton, General Manager
HP Supplies Division

P.S. By the way, comfort does not have to mean premium prices. Check out our new ergonomic workstation chairs.



HP Ergonomic executive chair

HP Ergonomic executive chair with arm support

Part no.	Color	Seat	Chair back	Weight	Price
92209M	Rust	Height 16.8–21.5 in. (430–550 mm)	Height 38.2–42.9 in. (980–1100 mm)	30.8 lbs. (14 kg.)	(1–2) \$545.00 ea. (3+) 515.00 ea.
92209N	Dove blue	Depth 17.2 in. (440 mm)	Depth 23 in. (590 mm)		
92209P	Beige	Width 17.6 in. (450 mm)	Width 17.9 in. (460 mm)		

HP Ergonomic workstation/managerial chair

Part no.	Color	Seat	Chair back	Weight	Price
92209E	Rust	Height 17.0–21.5 in. (432–546 mm)	Height 34.0–38.5 in. (846–978 mm)	35.2 lbs. (19.1 kg.)	(1–2) \$215.00 ea. (3–9) 198.00 ea. (10+) 190.00 ea.
92209F	Dove blue	Depth 17.0 in. (432 mm)	Depth 24.0 in. (610 mm)		
92209G	Beige	Width 18.0 in. (457 mm)	Width 18.2 in. (462 mm)		
92209K	Dark brown	Arm set		5 lbs.	(1–2) \$65.00 ea. (3–9) 57.00 ea. (10+) 53.00 ea.

In addition to adjustable seat height, the 92209E, F, and G chairs also feature a mechanically adjustable seat back.

HP Ergonomic workbench chair

Part no.	Color	Seat	Chair back	Weight	Price
92209S	Dove blue	Height 22.2–32.2 in. (564–818 mm) Depth 17.6 in. (447 mm) Width 18.9 in. (480 mm)	Height 34.9–43.75 in. (886–1111 mm) Depth 19.5 in. (495 mm) Width 18.9 in. (480 mm)	30 lbs. (13.6 kg)	(1–2) \$425.00 ea. (3–9) 395.00 ea. (10+) 385.00 ea.
92209L	Dark brown	Caster set		5 lbs.	(1–2) \$35.00 ea. (3–9) 30.00 ea. (10+) 8.00 ea.

Storage cabinets

"Remember—Our listed prices include UPS/truck shipment to you! Check the inside front cover for details."



New storage cabinets offer versatility and convenience plus!

We're introducing a new line of cabinets with a more versatile, preconfigured system that will help you save time and better organize your filing and storage needs.

They come pre-assembled in five common configurations so you don't have to build them—they arrive ready to use.

Another outstanding feature is the side-opening tambor door. No more bending or reaching to open and close your cabinet door. It glides open easily and when closed, locks to protect your stored data and media.

Other standard features:

- All steel construction.
- Three cabinet heights to fit your storage needs.
- Fixed and roll-out shelves for three-ring binders, disc cartridges and packs.
- Hanger bars for data binders and mag tape in-seals.

- Optional oak woodgrain top for small and medium height cabinet tops.
- Extra accessories for special storage requirements.

With an attractive cream-gray finish, these cabinets are a perfect complement to HP Design Plus and HP Standard furniture, or any other office environment.

Also available are small and large data binder handles that convert standard data binders to single point suspension units. All hanger bars in the 92272 Series cabinets require a single or center point suspension capability for data binders. HP data binders, 92174A-H (page 93) already support single/center point suspension.

Finally, we pay the freight! That's right, we pay the freight to your location. No freight bill surprise when your cabinet arrives. Call and order today. Do allow extra time for delivery as these cabinets are shipped by truck.

Media and documentation storage cabinet guide (ordering information page 92)

Part no.	Cabinet description	Dimensions			Weight	Installed components		
		Height	Width	Depth		Fixed shelf	Hanger bars	Roll-out shelves
92272A	Workstation storage	Outer: 38.5 in. (98 cm) Inner: 33.0 in. (84 cm)	36.5 in. (93 cm) 31.0 in. (79 cm)	21.0 in. (53 cm) 18.6 in. (47 cm)	148 lbs. (67.3 kg)	1		2
92272B	Medium storage	Outer: 60.0 in. (152 cm) Inner: 54.8 in. (139 cm)	36.5 in. (93 cm) 31.0 in. (79 cm)	21.0 in. (53 cm) 18.6 in. (47 cm)	227 lbs. (103.2 kg)	1	1*	2
92272C	*Printout/documentation storage	Same as 92272B above			198 lbs. (90.0 kg)	1	2*	
92272D	Mag tape storage	Outer: 84.0 in. (213 cm) Inner: 78.5 in. (199 cm)	36.5 in. (93 cm) 31.0 in. (79 cm)	21.0 in. (53 cm) 18.6 in. (47 cm)	249 lbs. (113.2 kg)		5*	
92272E	Large storage	Same as 92272D above			292 lbs. (132.7 kg)	1	2*	2
92272F	Library storage rack	79.5 in. (200 cm)	48.5 in. (123 cm)	13.2 in. (33 cm)				

*Mag tape-in-seals hang directly on bars. Printout documentation requires 92174-series HP data binders or 92272K L data binder handles to hang on bars.

Cabinet accessories

NEW 92272G Hanger bar for data binders and mag tape. Holds 34 tapes-in-seals.

(1 bar) \$43.00 ea.
(2+) 38.00 ea.

NEW 92272H Fixed shelf for documentation binders and miscellaneous items.

(1 shelf) \$55.00 ea.
(2+) 49.00 ea.

NEW 92272J Oak top for 92272A/B/C cabinets. (Top is simulated oak wood-grain)

(1 top) \$65.00 ea.
(2+) 55.00 ea.

NEW 92272K Data binder handles. Converts 12 x 8.5-inch data binders to single-point or center-point suspension for hanging on hanger bars. Handle length is 14 inches. Not needed if using HP data binders 92174E/F/G/H unless you want to convert to center-point suspension. Comes in box of 10.

(1 box) \$42.00 ea.
(2+) 36.00 ea.

NEW 92272L Data binder handles. Converts 14.8 x 11-inch data binders to single point or center point suspension for hanging on hanger bars. Handle length is 17 inches. Not needed if using HP 92174A/B/C/D data binders unless you want to convert to center point suspension. Comes in box of 10.

(1 box) \$42.00 ea.
(2+) 36.00 ea.

Exclusively Ergo

Vertical filing system in our new storage cabinets reduces the risk of back injuries (you need not lift items, you pull) and of stacked items falling on you while you're removing specific supplies from a shelf. It also allows you easier visual identification of filed items, thus, eliminating unnecessary waste of time. Detailed descriptions of our new cabinets appear on page 92.

For more cabinet accessories, see page 93.

Remember! Our prices include the cost of truck/UPS shipment to you (see inside front cover for details).

New storage cabinets . . . pre-assembled and space-efficient



NEW 92272A Workstation storage cabinet.

Comes with one fixed shelf and two installed roll-out shelves. See chart page 91 for dimension details.

(1 cabinet) \$825.00 ea.
(2+) 780.00 ea.



NEW 92272B Medium storage cabinet.

Comes with one fixed shelf, two roll-out shelves, and one installed hanger bar. See chart page 91 for dimension details.

(1 cabinet) \$990.00 ea.
(2+) 940.00 ea.



NEW 92272C Printout/documentation storage cabinet.

Comes with one fixed shelf and two installed hanger bars. See chart page 91 for dimension details.

(1 cabinet) \$825.00 ea.
(2+) 785.00 ea.



NEW 92272D Mag tape storage cabinet.

Comes with five installed hanger bars. Holds 170 tapes-in-seals. See page 91 for dimension details.

(1 cabinet) \$900.00 ea.
(2+) 855.00 ea.



NEW 92272E Large storage cabinet.

Comes with one fixed shelf, two roll-out shelves, and two hanger bars. See chart page 91 for dimension details.

(1 cabinet) \$1125.00 ea.
(2+) 1050.00 ea.



NEW 92272F Library tape storage rack for high-density tape storage at minimum cost.

Up to 300 tape reels in seals may be stored in any combination of 600-foot, 1200-foot or 2400-foot reels. Some assembly is required.

(1 rack) \$335.00 ea.
(2+) 308.00 ea.

Remember! Our prices include the cost of truck/UPS shipment to you (see inside front cover for details).

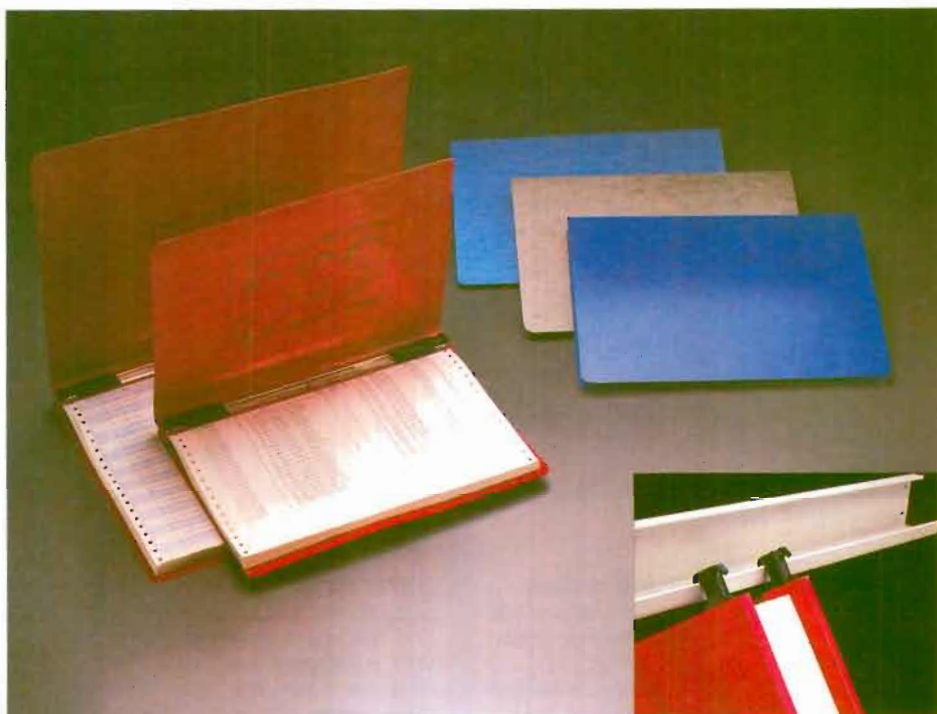
Store, protect laser and standard printouts in HP binders.

92174E/F/G/H Data binders are made specifically to accommodate your 12- by 8.5-inch laser printouts. Their compact design will keep your frequently used printouts intact, neatly organized and protected from rips, tears and rough handling. See chart below.

These binders feature:

- Loading from the top or bottom for easy updating.
- Special slide-out suspension hooks for easy adaptation to drop filing.
- Specially coated 20-point pressboard covers which provide more resistance to moisture, stain and wear than regular pressboard.
- Unbreakable plastic-coated steel posts that hold up to 6 inches of unburst printouts.

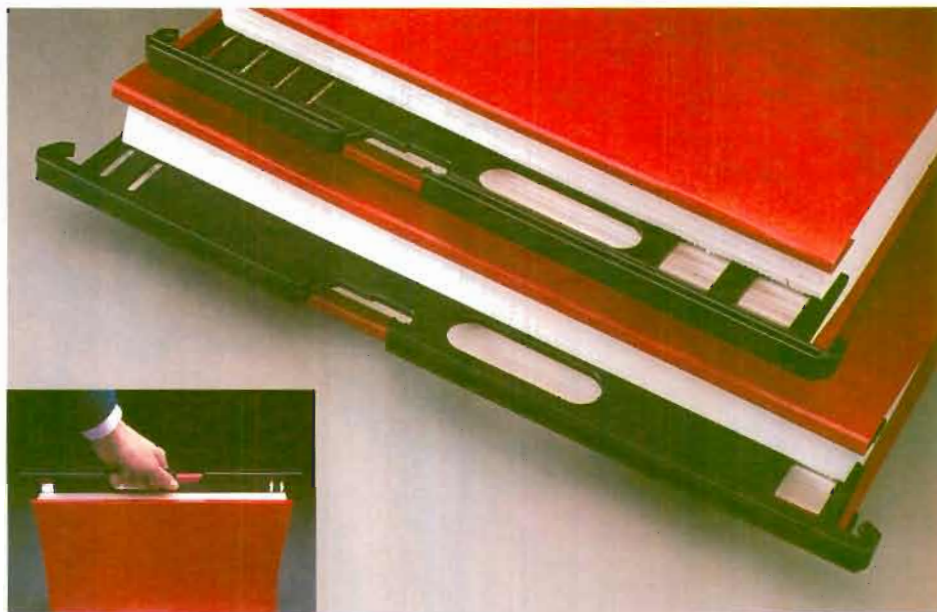
92174A/B/C/D Data binders. The same sturdy binders described above are also available in a larger size to house your standard 14.8- x 11-inch printouts. See chart below.



NEW 92272K/L Data binder handles convert binders which do not have slide-out suspension hooks like our 92174-series to single point suspension featured in the 92272 storage cabinets. Both handles have the additional capability of center point suspension which will help increase space in your 92272 cabinets.

These handles are made of tough, durable plastic, have a hand slot for easy carrying and can be used in a drop filing situation. They also can be used with the 92174-series binders to serve as convenient carrying handles for larger printouts.

92210M Mobile file for printout storage, see page 86.



HP Data binders

Part no.	Color	Description	Price per box of 10 binders*
92174A	red	14.8 x 11-in. binder.	(1-4 boxes) .. \$34.00 ea.
92174B	gray		(5-9) 32.00 ea.
92174C	light blue	Holds up to 6 in. of unburst forms.	(10+) 30.00 ea.
92174D	dark blue		
92174E	red	12 x 8.5-in. binder.	
92174F	gray		
92174G	light blue	Holds up to 6 in. of unburst forms.	
92174H	dark blue		

*Quantity discounts apply to purchase of single color only.

HP Data binder handles

Part no.	Color	Description	Price per box of 10 handles*
92272K	Black	14-in. data binder handle. Converts 12 x 8.5-in. data binders not having slide-out suspension hooks to single point suspension.	(1 box) \$42.00 ea. (2+) 36.00 ea.
92272L	Black	17-in. data binder handle. Converts 14.8 x 11-in. data binders not having slide-out suspension hooks to single point suspension.	(1 box) \$42.00 ea. (2+) 36.00 ea.

*Quantity discounts apply to purchase of single color only.

Workstation accessories



Left—92171A, Right—92171B

92171A Clamp-on copy holder is easily adjusted; you can position it where you need it to most conveniently reference your copy.

It clamps to vertical or horizontal surfaces up to 1.25 inches (32mm) thick, and has a maximum reach of 30 inches (762mm). The line guide is movable, and friction locks securely hold the position you have selected.

(1–2 holders) \$53.00 ea.
(3+) 48.00 ea.



92171U Tilting turntable

92171U Tilting turntable provides a tilting range of up 5 degrees and down 5 degrees from horizontal with nine different positions. Different operators can easily position the display to an ideal viewing angle to minimize glare and reduce neck, back and eye strain. Turns 360 degrees (limited by cabling). Slight turning resistance keeps display in the desired position and turns only when you want it to turn. Exterior dimensions: height 3.75 inches (95mm); width 19.5 inches (495mm); depth 24 inches (610mm).

(1–2 turntables) \$130.00 ea.
(3+) 120.00 ea.

92171B Easel copy holder. Placing this copy holder between detached keyboard and display means less eye strain for your data entry operators. The holder will tilt at the push of a button from zero to 90 degrees. The line guide mechanism is fingertip adjustable and can be used either on the left or right side of the holder, or may be completely removed.

This sturdy plastic copy holder is designed for page sizes up to 14.87 (14 $\frac{7}{8}$) × 11 inches. Cream-gray color. Order several and save.

(1–2 holders) \$59.00 ea.
(3+) 53.00 ea.



92171T Display turntable

92171T Display turntable for properly positioning and sharing terminals. Turns 360 degrees on a strong, positive-position ball-bearing mechanism (limited by cabling). Color matches HP's standard workstation furniture (92210). Exterior dimensions: height 1.25 inches (32mm); width 20 inches (508mm); depth 24 inches (610mm).

(1–2 turntables) \$67.00 ea.
(3+) 64.00 ea.



92171H Display tray

92171H Display tray. The solution to workstation clutter is here. This smoked acrylic display tray allows work documents to be neatly stacked on top of your HP 262X- and 264X-Series Terminals.

Rubber feet keep the display tray securely in place on top of your terminals. The curved front lip of the tray also hooks over the edge of work surfaces to organize the inflow and outflow of paperwork around terminals.

The tray has an open front and a hand-thumb notch for easy access to contents, and holds up to 132-column printout. Exterior dimensions: height 2.5 inches (6.4cm); width 16 inches (41cm); depth 12 inches (30.5cm).

(1–2) \$17.00 ea.
(3+) 15.00 ea.



92171E Footrest

92171E Footrest. Reduce lower back fatigue and circulation-restricting lower thigh pressure—raise your feet off the ground and onto our angled footrest. This is especially helpful for those who sit all day and do data entry or other desk work. Constructed of steel, these footrests also have ribbed rubber facings and non-slip rubber feet. Order several and help others take a load off their feet.

(1–2) \$43.00 ea.
(3+) 36.00 ea.



92171F Printer/plotter stand

92171F Printer/plotter stand for 264X-series terminals. Save valuable workstation surface area with this platform, which provides a level surface for your terminal printer or plotter. There are many other uses for this versatile terminal accessory. (Slots are provided for the front feet of the 2671-series printer.)

(1-2) \$51.00 ea.
(3+) 45.00 ea.

92171R Extended keyboard palm rest. Just the right size for the extended keyboards (16.7 inches long/425mm) used on HP 120/125 Personal Computers. Also can be used with the extended keyboards on HP 262X Terminals. Foam molded for

extra comfort. Cocoa brown color.
(1-2 units) \$35.00 ea.
(3-9) 30.00 ea.
(10+) 26.00 ea.



92171R Palm rest

Build up—not out with space-saving keyboard parks

When not in use, simply slide your keyboard into one of these parks to free up valuable desktop space and protect it from spills and other accidental damage.



92171C Keyboard drawer park for HP's 120, Touchscreen (150), and Model 16 Computers, and 262X Terminals.



92171J Improved keyboard park for extended keyboards on the HP 120 and Touchscreen (150) Personal Computers and HP's 2392A Terminal.

92171C Keyboard drawer park. Is your work surface too narrow to accommodate both a computer or terminal and its keyboard? We have the perfect solution for HP 262X Terminals and HP 120/125/Touchscreen (150) and Model 16 Computers. The 92171C park features a drawer mounted on industrial strength ball bearing glides that can be pulled out a full 11 inches from the support stand. Constructed of 14 gauge steel, the drawer will support up to 100 pounds and can be locked in the open position for stability. Also features a built-in palm rest. Color is pearl gray. Support platform dimensions are: 5 inches (127mm) H x 23 inches (584.2mm) W x 18 inches (457.2mm) D. Keyboard drawer size is 22 inches (558.8mm) W x 9.75 inches (247.7mm) D.

(1-2 units) \$89.00 ea.★
(3-9) 82.00 ea.
(10+) 79.00 ea.



92171J Keyboard park features a lower profile—only 2.6 inches (65mm) high—and will support HP's 2392A Terminal as well as the 100 Series Personal Computers. The color is a translucent gray to further complement and enhance HP's computer equipment. Constructed of sturdy formed and bonded acrylic plastic. Exterior dimensions are: 2.6 inches (65mm) H x 19 inches (483mm) W x 11.2 inches (285mm) D. See 92171J keyboard park with HP's 2392A Terminal (photo page 75) and the Touchscreen Personal Computer (photo page 96).

(1-2 units) \$75.00 ea.★
(3-9) 66.00 ea.
(10+) 60.00 ea.

Exclusively Ergo

Almost all chairs are designed to accommodate the physical dimensions of only 90% of the population (the fifth to 95th percentile). With a footrest, those under the fifth percentile can be just as comfortable as tall people in any particular chair. See the 92171E footrest on page 94.



Adjustable tilt and swivel help you work in comfort

At the touch of your fingertips, tilt and rotate the display for optimum, glare-free viewing. Or swing the display around to share with a co-worker.

For your HP 120, Touchscreen (150) and Model 16 Personal Computers:

92240A Display tilt unit lets you easily adjust the screen's viewing angle up or down 10 degrees for greater keying and scanning comfort. See below.

9121D Disc Drive. Be sure to see our single-sided 3.5-inch microfloppies on page 131.

And for those of you with the new 9122D Disc Drive, we also offer *double-sided* microfloppies. Each features 133 percent more formatted storage than our double-sided 5.25-inch flexible discs, at a savings of 55 percent per kilobyte. See page 131.

92240B Swivel unit rotates a full 360 degrees, letting two or more operators share the same screen with ease. See below.

92171J Low profile keyboard park for extended keyboards on the HP 120, and Touchscreen (150) Personal Computers, and the 2392A Terminal. Features a space-saving profile and a translucent gray color that further complements and enhances HP's computer equipment. See page 95.

Tilt/swivel accessories

Part number	For use with computer/terminal	Description	height	Dimensions width	depth	Price
92240A	Touchscreen (150) HP 120* Model 16* HP 2382*	Display tilt unit. 20-degree viewing angle adjustment (up or down 10 degrees from horizontal). Tilt adjusts easily with pushbutton. Color is light gray.	2.8 in. 70mm	12.8 in. 324mm	12.0 in. 305mm	(1-2 units) \$49.00 ea.★ (3-9) 45.00 ea. (10+) 40.00 ea.
92240B	Touchscreen (150) HP 120* Model 16* HP 2382*	Swivel unit. Placed under disc drive so entire equipment stack (disc drive, tilt unit, display) can be rotated right or left. Color is light gray.	0.9 in. 25mm	12.8 in. 324mm	11.2 in. 284mm	(1-2 units) \$40.00 ea.★ (3-9) 35.00 ea. (10+) 31.00 ea.
92171Y	HP 2382 (Requires 92240A)	Swivel adapter. This adapter snaps directly into the base of the 92240A. Imparts 360-degree rotation capability to the tilt unit. Ideal for shared terminal applications. Not needed when purchasing a 92240B.	height 0.4 in. 10mm	diameter 9.5 in. 241mm		(1-2 adapters) ... \$25.00 ea. (3-9) 21.00 ea. (10+) 18.00 ea.

*These computers/terminals are darker in color than the tilt/swivel products.

★ For location of dealer nearest you, call: 800-FOR-HP (800-367-4772).

Exclusively Ergo

The Touchscreen keyboard was designed to perform many functions in a variety of applications while keeping its space requirements to a minimum. Elements taken into account include:

- Grouping together of keys with similar functions in order to minimize keying errors; separation of keys with dissimilar functions.

- Redundant use of color coding with spatial grouping to enhance ease of use and performance.
- Testing of colors to maximize legibility of symbols against backgrounds in high and low light conditions.
- Designing the keyboard to minimize finger travel.
- Adjustable keyboard profile to meet user preferences.

Anti-glare filters

New and special problems are facing computer and terminal users every day. As the problems are researched, computer manufacturers and supply houses continue to offer a myriad of solutions—all claiming to be the best. HP hopes the following frank discussion on anti-glare filters will help you make an enlightened choice.

We all know what glare is—we all have experienced it. We also understand that it robs computer operators of productivity as they try to compensate for visual annoyances.

A simple solution is to avoid or move sources of interference. When that is not possible, an anti-glare filter is often used. No filter is perfect; each has its advantages and disadvantages.

While trying to find the best product available, HP funded an independent study* using an HP 2622A Terminal. The study concluded that HP's optically coated 92207 series filter was the best choice when compared across three display-quality criteria: resolution, reflection, and transmissibility.

Four different types of retrofit filters were examined:

- Etched Panels. Rough surface scatters light away from eye.
- Mesh Screen. Depending upon the angle, light either will be absorbed going in or diminished going out, when bounced off the "shelves" in the mesh.



- Circular Polarizers. Light becomes polarized when traveling through the coating the first time. The polarized light is turned around when bounced off the CRT and cannot pass through the coating a second time.
- Anti-reflective Optical Coating (HP 92207 series filters). The coating permits very little reflection by allowing most of the light to transmit through the filter. Neutral density filter increases contrast.

Our goal was to find a rugged, virtually maintenance-free filter with the highest resolution possible. The first two choices, therefore, did not meet our criteria. HP computers and terminals already feature an etched surface. To place another obstacle between the eye and the characters on the screen causes the characters to become "fuzzy."

The same two filters also failed to meet a second criterion—that devices used daily must be easy to care for and be somewhat damage resistant.

The circular polarizer worked well in theory, but the etched surface of HP's CRTs hindered the effectiveness of the necessary 180 degree polarizing condi-

tion. Some reflected light was allowed to pass through the filter and into the operator's eyes.

Through the process of elimination, we have arrived at HP's number one choice: the anti-reflective optically coated filter. Under severe conditions, glare may still occur, but it is greatly diminished. And the only other apparent drawback, finger prints, also is easily overcome. Ordinary household strength glass cleaner is all it takes. No special cleaner is necessary, but for your convenience the 92193V cleaning kit is offered below.

This filter's optical coating was selected by NASA to be used on the Space Shuttle windows. Withstanding the mechanical and thermal shocks of launch and re-entry is proof of the coating's ruggedness.

The before and after photo at top right further demonstrates the coating's effectiveness. You can actually see the difference!

*Robert J. Beaton and Harry L. Snyder, Department of Industrial Engineering and Operations Research, Virginia Polytechnic Institute and State University. "The Display Quality of Glare Filters for CRT Terminals."

Optically coated filters reduce annoying glare—increase productivity

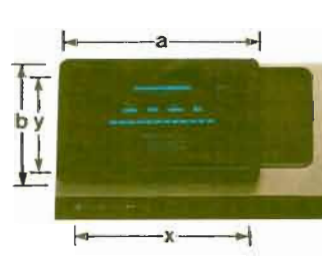
HP's anti-glare filters put nothing between you and your data except a distortion-free, optically coated safety glass which actually increases contrast. There is no blurring of the image, nothing to obstruct your view.

Each filter is easily mounted in seconds with Velcro® strips. No tooling is required.

These filters will fit other terminals and computers, as well. The Velcro® mounting requires a .75-inch (2 cm) wide, flat surface on at least two sides. The accompanying illustrations will allow you to select the correct size.



92207A Anti-glare filter.
For use with 262X-series terminals and the HP 125 Personal Computer.



92207B Anti-glare filter.
For use with 264X-series terminals.



92207C Anti-glare filter.
For use with the HP 86 Personal Computer.

92193V Video clean kit. Clean your CRT terminal screens and other glass surfaces with two 4-ounce bottles of screen-cleaning solution, fifty 3 x 5-inch lint-free wipes and one easy-pour dispensing cap.

(1 kit)	\$17.00 ea.
(2-4)	16.00 ea.
(5+)	15.00 ea.

Now with anti-static coating and convenient grounding wire!

92207A

a.	12.71 in.	32.28cm
b.	10.45 in.	26.49cm
c.	12.93 in.	32.84cm
d.	10.82 in.	27.48cm
x.	11.66 in.	29.61cm
y.	8.70 in.	22.09cm

92207B

a.	12.68 in.	32.22cm
b.	7.77 in.	19.75cm
x.	11.21 in.	28.48cm
y.	6.10 in.	15.50cm

92207C

a.	12.00 in.	30.48cm
b.	9.50 in.	24.13cm
x.	10.53 in.	26.74cm
y.	7.83 in.	19.88cm

92207A/B/C Anti-glare filters:

(1-2)	\$110.00 ea.
(3-6)	99.00 ea.
(7+)	95.00 ea.

Anti-static accessories

Facts about static protection

If your work area contains electronic circuitry, such as computers and measurement devices, protection against damaging static electricity is a must. HP's static-control products come in a variety of shapes and sizes. To help you make the right choice, we have collected some important facts about static.

Cause and effect

Static electricity is generated when two different materials come into contact and then are separated. Common actions such as walking (shoes leaving floor), sitting (clothes rubbing against upholstery), and standing (clothes rubbing against the body), cause static energy buildup.

When you consider that modern electronic circuitry can operate using levels of 5 volts or less, you can easily see how static discharge through the circuitry can be extremely damaging. (For typical static buildup levels see box on right.)

Nature tends to balance itself. Just as hot and cold water blend to become lukewarm, static charges must become equalized. Therefore, built-up energy continuously seeks a path to ground (neutral charge).

This is one of many reasons HP designs its computers with a ground connection from the chassis to the wall socket. The charge will then have an easy path to balance itself. We suggest you check the building wiring, especially in older buildings, to ascertain that the ground path really exists.

However, even if the discharge path bypasses all the sensitive circuitry, electromagnetic waves (similar to radio or TV waves) will still be generated by the discharge. Because these waves travel through the air, they are able to reach the circuitry with a very high charge.

HP's answer to static

The solution is simple: prevent the damaging charge from reaching the equipment. Hewlett-Packard offers a complete line of products to do just that. The static control mats drain the charge via a ground cord within fractions of a second after you step on the mat; the anti-static carpet mats distribute the charge over a large area, reducing built-up static in any one area (use only where conditions for static buildup are unfavorable); the tabletop mat affords the same protection as the static control mats, but is

more convenient and aesthetically pleasing (operator *must* touch the mat before touching the equipment); the Staticide spray and wipes are for use on areas not protected by anti-static carpets and mats.

Static facts

Static damage is described in two ways:

- **Catastrophic**—when the component is dead; the board/unit will not work.
- **Degrading**—when a discharge weakens a component, possibly causing premature failures within days, weeks or months after the incident, or characteristic changes such as intermittent failures (usually with temperature shifts, vibrations, or load variations).

	Most common static reading	Highest static reading
Walking across carpet	12,000 volts	39,000 volts
Walking across vinyl tile floor	4,000 volts	13,000 volts
Working at desk	500 volts	3,000 volts

Institute of Electrical and Electronics Engineers Inc. (IEEE) from 12th Annual Proceedings of IEEE Reliability Physics.

The static charge level is:	When you:
3,500 volts	feel
15,000 volts	see



Use Staticide Spray and Wipes on areas not protected by anti-static carpets and mats.

Staticide™ Spray and Wipes complete the protection your equipment deserves.

Non-toxic, non-flammable, biodegradable Staticide™ from ACL is the only EPA-registered anti-static solution and is now available in convenient spray bottles and handy wipes.

Use the spray on large areas, such as walls and floors, and the wipes on CRTs and keyboards. Since static attracts dust, you will be delighted with the wipes' cleaning ability, as well.

92176S Spray 1-quart (0.95 l) bottle w/spray trigger

(1-11) \$10.95 ea.
(12+) 9.95 ea.

92176W Wipes 24 individually packaged wipes per box

(1-11) \$6.50 ea.
(12+) 6.00 ea.

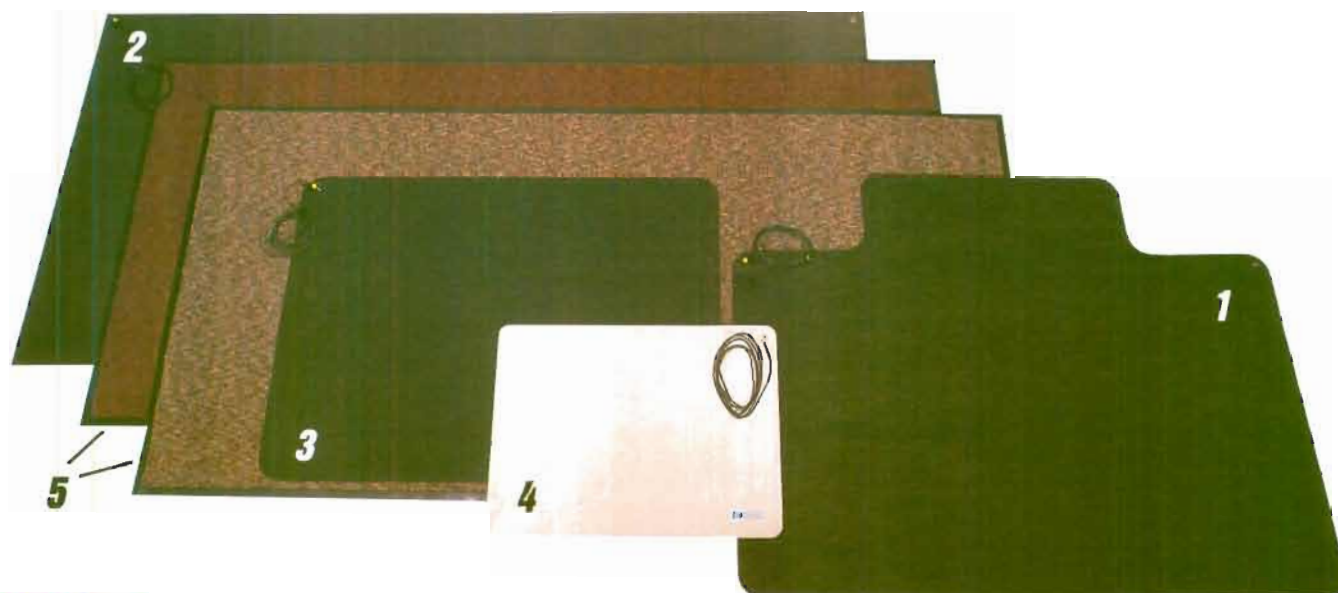


Protection that goes where you go!

92175S Shoe grounding strap. Today's non-leather shoe material "insulates" the operator from anti-static carpets. In highly sensitive areas, such as computer rooms, this convenient shoe strap is recommended. Easily attached and disposable, it protects your equipment by providing a conductive path to the mat. Boxes of 100 straps include instructions.

(1-2 boxes) \$39.00 ea.
(3-5) 34.00 ea.
(6+) 29.00 ea.

Note: product names followed by "™" or "®" are trademarks of their respective companies. For complete listing, see page 158.



Static control mats

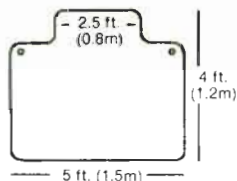
1 92175A Black hard-surface mat

• For sit-down applications—casters will roll easily on mat

- Shaped to fit most desks/workstations
- Anti-shock
- 10-foot (3.05m) ground wire

NOTE: Shipped by truck.

(1–2 mats) \$195.00 ea.
(3+) 175.00 ea.

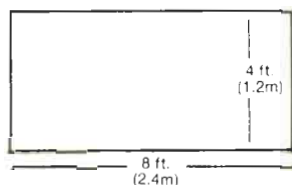


2 92175B Chocolate brown soft-surface mat • For

stand-up application

- Cut-to-fit space requirements
- Anti-shock
- Foam backing has both anti-skid and anti-fatigue characteristics

NOTE: Shipped by truck.
(1–2 mats) \$285.00 ea.
(3+) 255.00 ea.



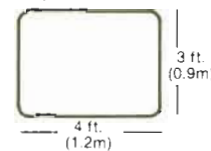
3 92175C Small black hard-surface mat

• For sit-down applications—casters will roll easily on mat

- Ideal for terminal and processing data entry
- Anti-shock
- 10-foot (3.05m) ground wire

NOTE: Shipped by truck.

(1–2 mats) \$100.00 ea.
(3+) 91.00 ea.



Tabletop static mat

4 Now an alternative to floor mats is here! 92175T Tabletop mat

When anti-static carpets and floor mats are impractical or aesthetically unappealing, tabletop mats are the answer to static protection. Simply touch the mat before using your equipment and any charge you have generated will drain via the 10-foot ground wire.

For peripheral equipment positioned off the mat, the procedure is the same. Just touch the mat before handling the equipment and static charge is dissipated.

Our desktop mats are cushioned, skid-resistant and easily cleaned with deter-

gent and warm water. For a custom fit, they can be cut to size with heavy scissors.

Size: 23 × 30 inches (58 × 76 cm)
(1–2) \$89.00 ea.
(3+) 80.00 ea.

Anti-static carpets

5 Carbon-impregnated filaments woven into the carpet automatically drain off static. This protection remains even after washing. Our exclusive non-skid backing prevents the mat from shifting or curling. And to complement all types of workstation furniture, our nubby-weave mats are offered in two warm hues.

Size: 4 × 6 foot (1.2 × 1.8m)

92176A Natural color

92176C Russet color

(1–2 mats) \$120.00 ea.
(3+) 110.00 ea.

Size: 4 × 8 foot (1.2 × 2.4m) shown in photo above

92176B Natural color

92176D Russet color

(1–2 mats) \$150.00 ea.
(3+) 135.00 ea.

Dust covers



Protection with a perfect fit and professional look

Safety and efficiency. These custom cloth covers prevent dust, dirt, food and liquids from affecting the vital internal components and performance of your computer equipment.

Professional look. Each cover is made of a

durable, water-resistant, washable polyblend that complements your office equipment and enhances your office environment.

Perfect fit. Each cover is custom-designed to snugly fit a particular computer

or peripheral. Rear cutouts provide convenient power cord and cable routing. And our new Integral jacket even offers access to the computer handle for easy transport, along with two handy side pockets for accessories.

For terminals and computers

HP product model no.	Dust cover part no.	Price
HP 83/85	82948A	\$15.00
HP 86	92250J	\$22.00
HP 87	82955A	\$20.00
HP 120 ¹	92250D	\$20.00
HP 125 ¹	92250B	\$25.00
Touchscreen (150) ¹	92250F	\$20.00
Touchscreen "stacked" (150, 9121, 92240A/B) ¹	92251P	\$35.00★
2382A ¹	92250A	\$20.00
2392A ¹	92251E	\$25.00
262X ¹	92250B	\$25.00
264X ¹	92250C	\$25.00
Integral Personal Computer (9807A)	92251F	\$59.00★
9816 ¹ (Series 200 Model 16)	92250P	\$20.00
9825A/B/S/T, 98358	92251H	\$20.00
9826A	92251J	\$20.00
9835A	92251K	\$20.00
9845B Opt. 1XX	92251M	\$25.00
9845B Opt. 2XX	92251N	\$35.00

¹Separate covers for keyboard and CRT.

For plotters, printers, and disc drives

HP product model no.	Dust cover part no.	Price
2225A/B	92250V	\$15.00★
2631	92251C	\$20.00
7220C, 7221C, 9872C	9222-0742	\$17.00
7470A	92250N	\$15.00★
7475A	07475-60010	\$15.00★
7550A	07550-60210	\$18.00★
82901M	92251A	\$15.00
82902M	92251B	\$15.00
82905A/B	92250T	\$15.00
9121S/D, 9114A	92251D	\$12.00

Exclusively Ergo

Placing the 92171B easel copy holder (see page 94) between the keyboard and the display is advisable during frequent use. This practice decreases the tendency/necessity to turn the head sideways while viewing the source document, thus, reducing neck and shoulder muscle strain. It also reduces the range of eye movements from the source document to the display and the keyboard, thus, decreasing the probability of eye movement fatigue.

★For location of dealer nearest you, call: 800-FOR-HPPC (800-367-4772).

Carrying cases



STYLE A



STYLE D



STYLE C

STYLE B



Protect your computer equipment when you're on the go!

Quality and convenience. These durable, well-constructed carrying cases insure you have computational power and information wherever and whenever you need them.

Design. Styles A-D are made of scuff and water-resistant soft vinyl, and feature resilient foam padding to cushion your computer equipment while you're on the road.

Caution. These quality cases are well-padded to protect your computer equipment, however, they are not intended for shipment or as checked airline luggage.

For terminals and computers

HP product model no.	Carrying case part no.	Carrying case style	Price
The PORTABLE (HP 110)*			
Vinyl replacement	13269K	NA	\$ 29.00
Leather	13269U	NA	75.00
System	13269V	NA	110.00
Attaché	13269W	NA	350.00
HP 120¹	13269P	D	\$125.00
Touchscreen 150 and 9121S/D	13269C	D	\$140.00
HP85/86/87 (86 monitor must be carried separately)	13269A	B	\$ 98.00
HP 83/85 (Contoured foam insert)	82933A	A	\$125.00
2382A	13269P	D	\$125.00
Integral Personal Computer (9807A)	13269Y	NA	\$110.00
9816²	13269P	D	\$125.00
9825A/B/S/T	13269M	C	\$130.00
9835 (Computer only)	13269M	C	\$130.00
9835 (CRT)	13269R	C	\$175.00
9845B/C Opt. 1XX, 2XX (Computer only)	13269Q	C	\$300.00
9845B Opt. 1XX (CRT)	13269R	C	\$175.00
9845B/C Opt. 2XX (CRT)	13269S	C	\$270.00

¹A separate carrying case for the disc drive must be used if the HP 120 features the extended keyboard.

²Use 13269C for 9816 with extended keyboard.

*See page 41 for a complete description of all The PORTABLE carrying cases.

For plotters, printers, and disc drives

HP product model no.	Carrying case part no.	Carrying case style	Price
7225B, 7240A, 7245B, 7470A	07470-60001	D	\$175.00
7475A	07475-60001	D	\$175.00
9121S/D, 9114A	13269T	D	\$40.00

Integral Carrying Case. Convenient, one-piece custom-fit dark gray cordura nylon case protects the Integral from bumps, scrapes, and spills. The padded shoulder strap is wrapped around the bag for reinforced strength, while the convenient zippered top provides easy access to the computer handle.

Two zippered pouch pockets (each measuring 8 in. H x 8 in. W x 3/4 in. D) keep your mouse, cables, floppy discs, and power cord close at hand. Interior or exterior flaps allow for flat storage of your ThinkJet paper.

This compact carrying case fits easily under an airline seat!
13269Y \$110.00

For location of dealer nearest you, call: 800-FOR-HPPC (800-367-4772).





Impact printers page 103
Laser page printers page 110
ThinkJet printer page 113
Thermal printers page 114

Impact printers

Impact printer accessories

Automatic sheet feeder saves you time and effort

92177Q/R PersonalFeeder™ for your 2601A/2602A Daisywheel Printers offers the professional look of single-sheet stationery and the convenience of continuous forms! Manual paper handling is practically eliminated. You no longer have to align each sheet by hand or arrange them in order. The feeder does it for you—automatically.

However, a manual override feed slot is available for insertion of odd-sized sheets, labels and envelopes.

This lightweight ergonomically designed PersonalFeeder™ allows for quick and simple operator installation on either HP 2601A or HP 2602A Daisywheel Printers.

Programs supported by the PersonalFeeder™ for the HP 150: MemoMaker, 1,2,3™ by Lotus™, and WordStar.

Paper bin capacity: 175 sheets

Paper sizes: 6 × 7 inches to 14 × 14 inches (152.4 × 177.8mm to 355.6 × 355.6mm)

Paper weights: 18 to 24 pounds basis weight

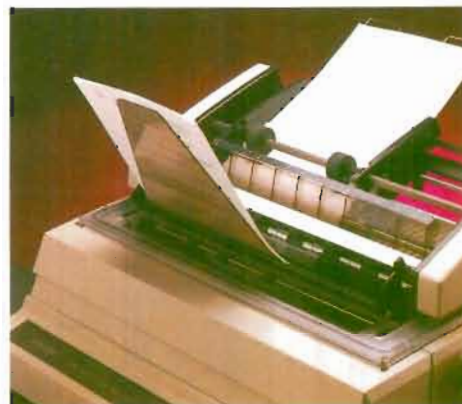
Manual feed slot: Maximum width 14 inches (355.6mm)

Interface: Direct drive from platen gear

Feed: a single sheet for every 90 lines of copy

Size: 5 inches (127mm)H × 20.5 inches (520.7mm)W × 12 inches (304.8mm)D

92177Q PersonalFeeder™ for
2601A \$495.00 ea.★
92177R PersonalFeeder™ for
2602A \$495.00 ea.★



Note: product names followed by ★ or ™ are trademarks of their respective companies. For a complete listing, see page 158.

Run continuous forms on your printer

26010A Multi-part forms tractor. Add the convenience of continuous forms to your HP 2601A Printer. The tractor installs easily over existing platen and is advanced as the platen turns. The tractor wheels are adjustable to accept up to 16-inch form widths. With the forms tractor installed, the HP 2601A will fit completely inside the 92177C sound enclosure.

See impact printer paper, page 107.

Price \$565.00 ea.★

26020A Bidirectional forms tractor. Add this lightweight, durable forms tractor to your 2602A Printer. Easy to install and simple to use. The tractor can be used with the standard sound panel in place on the printer and adjusts to accept up to 15-inch form widths. With the forms tractor installed, the 2602A will fit inside the 92177D sound enclosure.

See impact printer paper, page 107.

Price \$285.00 ea.★



26010A-26020A Multi-part forms tractors

Restore life to your platen

NEW 92193T Platen Cleaner Pak™ puts the "Papergrip" back in worn and used platens. Regular usage eliminates roller glaze, white masking paint, paper tars and clays. Saves money on platen replacements too!

Simply squeeze the cleaning pak to release the solution and you're ready to clean your platen quickly and easily.

For use with your HP 2601A/2602A Printer.

Contains 10 disposable Platen Cleaner Paks (use one pak per cleaning)

Price \$16.00 ea.

The inset photograph at right clearly illustrates the difference our Platen Cleaner Pak™ can make. Just a few quick strokes removes built-up dirt and residue that otherwise might shorten the life of your platen.

★ For location of dealer nearest you, call: 800-FOR-HPPC (800-367-4772)



Impact printer accessories (cont.)

What's good for your printer—is also great for your plotter



92171S Desktop printer stand makes handling fanfold paper a snap! For your 82905A/B and 82906A Printers.

92171S Desktop printer stand. Versatile acrylic printer stand is perfect for HP's 82905A/B and 82906A Printers, as well as the 7470 Plotter.

Fanfold and cut-sheet paper fit conveniently inside—providing organization and improved paper flow. Stand can accommodate paper 4 inches (102mm) to 10 inches (254mm) wide.

Exterior dimensions: height 3.37 inches (85mm); width 16.5 inches (419mm); depth 14 inches (355mm). The right size for personal/office workstations.

(1-2) \$59.00 ea.
(3+) 53.00 ea.



Save desktop space and store your plotter paper in the most convenient place—right below your HP 7470 Plotter!

On your mark—get set—go!

Get off to a good start with HP's 2602 starter kits. Each one contains 13 high-capacity multistrike ribbons (92151H, box of 12 plus one extra) and four 98-character plastic printwheels. A custom storage binder to hold the wheels and one ribbon is also included.

92265A U.S. kit. USASCII printwheels in this kit are: 92262B Prestige Pica 10, 92262E Prestige Elite 12, 92262F Letter Gothic 12, and 92262G Bold P.S.*

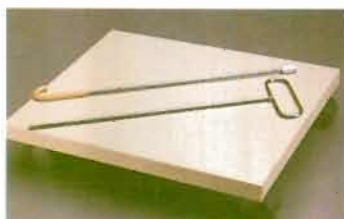
92265B United Kingdom kit. U.K. printwheels in this kit are: 92263B Prestige Pica 10, 92263C Prestige Elite 12, 92263D Courier 12 and 92263E Bold P.S.*

(1-2 kits) \$185.00 ea.
(3+) 170.00 ea.

*Proportional-spaced wheels are designed to work best with HPWORD software.



Move up to 100 pounds of paper with ease



92173P Paper transporter. Tired of lifting and carrying heavy boxes of printer paper to and from your computer area? Solve that problem with HP's paper transporters. They provide an easy way to move boxes of blank forms and finished printouts from one place to another. The transporters are made of durable steel with non-mar, double-wheel casters and come with their own pull handles. Exterior dimensions: width 13 inches (330mm); depth 16 inches (406mm). Color is gray. Order several and save.

See page 107 for impact printer paper.

(1) \$60.00 ea.
(2-4) 54.00 ea.
(5+) 50.00 ea.

Word processing ruler

This handy ruler can help you create the perfect documents using your word processing system. Specially recommended for use with HPWORD. Design your documents for any size printer up to 132 columns wide (14 $\frac{1}{8}$ -inch forms).

- 10 and 12 pitch spacing guides (positions/inch)
- 6 and 8 lines/inch spacing scales (reverse side)
- See-through windows for easy reading
- Convenient 15-inch length

5957-8407 \$4.00 ea.

★ For location of dealer nearest you, call 800-FOR-HP (800-367-4772).

Reduce printer noise up to 80% with our whisper-print sound enclosures

Reduce unwanted printer noise in your work area or office now! Our sound enclosures are specifically designed to quiet the HP 2601A and HP 2602A Daisywheel Printers. The construction of the enclosures allows use of continuous forms and access to platen knobs. The tops are easy-to-open acrylic plastic which hold in any open position.

All enclosures have a dual-voltage fan module (120 Vac, 60 Hz/220 Vac, 50 Hz). When the printer is installed in the enclosure, its power cord is removed and used to plug in the fan

module and connect it to the main. A jumper power cord from the fan module then plugs into the printer. With this arrangement, the fan module on-off switch will control the power to the printer. This safety feature protects your printer from overheating.

All enclosures come complete with a bottom section which is padded to further assist in isolating printer noise and vibration.

Order one today and keep things on the quiet side. Remember, the price includes truck freight to your door.



1 92177D Sound enclosure. For HP 2602A Daisywheel Printer with or without forms tractor. Exterior dimensions: height 16.1 inches (409mm); width 27.7 inches (704mm); depth 23.25 inches (591mm).

(1 enclosure) \$435.00 ea.
(2-5) 420.00 ea.
(6+) 410.00 ea.

2 92177G Sound enclosure for HP 2601 or HP 2602 with a sheet feeder. Pullout drawer acts as the base and allows easy access to sheet feeder trays.

Exterior dimensions: height 24.25 inches (616mm); width 31.75 inches (806mm); depth 32 inches (813mm).

(1 enclosure) \$595.00 ea.
(2-5) 575.00 ea.
(6+) 560.00 ea.

3 92177C Sound enclosure (replaces 92177E/F). For HP 2601A Daisywheel Printer with or without forms tractor. Not for use with 26010D sheet feeder option. Exterior dimensions: height 14.9 inches (378mm); width 25.6 inches (650mm); depth 25.1 inches (638mm).

(1 enclosure) \$435.00 ea.
(2-5) 420.00 ea.
(6+) 410.00 ea.



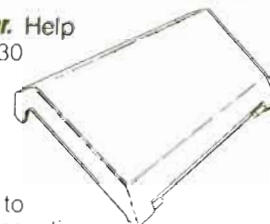
HP 2602A Printer with 92177A sound pad

92177A Sound absorbing pad. Help quiet your HP 2601A/2602A or other printers. The main body is made of high-quality felt, treated with a stiffening agent which allows continuous lateral motion without fiber breakdown. The non-skid rubber bottom holds the pad firmly on your stand or desk, thus preventing "printer creep." The top corners are impregnated with a layer of latex to hold your printer firmly on the pad. Size is 18 inches (457mm) x 22 inches (559mm). Order several and save.

(1 pad) \$31.00 ea.
(2-4) 25.00 ea.
(5+) 21.00 ea.

26090A Sound cover. Help

quiet your HP 2630 family printers with this easily installed sound abatement cover. It will reduce printing noise up to 10 dB. Includes mounting clips, paper intake shield and instructions. Price \$105.00 ea.


















★ **For location of dealer nearest you, call:**
800-FOR-HPPC (800-367-4772)







Reduced Price!

Impact printer supplies



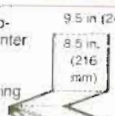
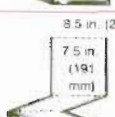
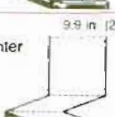
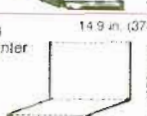
Impact printer ribbons

Impact printer model number	Part number/ description	Dimensions & measurements	Unit of measure	Price	Cross-reference to other supplies & accessories
2563A Dot Matrix Printer	92158A Ribbon cartridges, mobius loop construction, continuous feed. Blue/black print.	 .75 in. (3/4) ribbon, 100 yards, 30 million characters	Box of 3	(1-2 boxes) \$77.00 ea. (3-7) 69.50 ea. (8+) 62.00 ea.	See: Paper pg. 107 Printer stand pg. 84
	92158M Ribbon cartridges, for optical mark recognition applications. Blue/black print.	 .75 in. (3/4) ribbon, 100 yards, 3 million characters	Box of 3	(1-2 boxes) \$77.00 ea. (3-7) 69.50 ea. (8+) 62.00 ea.	
2565A/2566A High Speed Dot Matrix Printers	9282-0545 Wide nylon ribbon. Blue/black print.	 15 in. ribbon, 20 yards, .004 in. thick	Each	(1-3 ribbons) \$49.00 ea. (4+) 35.00 ea.	See: Paper pg. 107
2601A Daisywheel Printer	92151C Multistrike, high-capacity, reel-to-reel ribbon cartridges. Black print.	 .31 in. (5/16) ribbon, 235,000 characters	Box of 12	(1 box) \$78.00 ea.★ (2-3) 72.00 ea. (4+) 69.00 ea.	See: Multi-part forms tractor pg. 103 Paper pg. 107 Paper transporter pg. 104 Printer stand pg. 87 Printwheel cleaning kit pg. 109 Printwheels, plastic & metal pg. 109 Printwheel storage album pg. 108 Sound absorbing mat pg. 105 Sound enclosures pg. 105
	92151D Fabric, continuous cycle feed ribbon cartridges. Black print.	 .31 in. (5/16) ribbon, 1 million characters	Box of 12	(1 box) \$80.00 ea.★ (2-3) 72.00 ea. (4+) 68.00 ea.	
2602A Daisywheel Printer	92151H Multistrike, high capacity reel-to-reel ribbon cartridge. Black print.	 .31 in. (5/16) ribbon, 450,000 characters	Box of 12	(1 box) \$98.00 ea.★ (2-5) 94.00 ea. (6+) 90.00 ea.	See: Paper pg. 107 Printwheels pg. 109 Printwheel storage album pg. 108 Sound enclosure pg. 105 Starter kits pg. 104
2607A Dot Matrix Line Printer (Also 9881A Printer and 12987A Subsystem)	9282-0531 Nylon ribbon, reel-to-reel. Black print.	 .75 in. (3/4) ribbon, 36 yards, .005 in. thick	Each	Minimum order 6 ribbons (6-23 ribbons) \$8.70 ea. (24+) 6.20 ea.	See: Paper pg. 107 Paper transporter pg. 104 VFU tape pg. 108
2608A/S Dot Matrix Printer	92158A Ribbon cartridges, mobius loop construction, continuous feed. Blue/black print.	 .75 in. (3/4) ribbon, 100 yards, 30 million characters	Box of 3	(1-2 boxes) \$77.00 ea. (3-7) 69.50 ea. (8+) 62.00 ea.	See: Layout forms pg. 108 Paper pg. 107
	92158M Ribbon cartridges, for optical mark recognition applications. Blue/black print.	 .75 in. (3/4) ribbon, 100 yards, 3 million characters	Box of 3	(1-2 boxes) \$77.00 ea. (3-7) 69.50 ea. (8+) 62.00 ea.	
2611A Line Printer	1535-3914 Wide nylon ribbon for normal print applications. Blue/black print.	 14 in. ribbon, 15 yards, .005 in. thick	Each	(1-2 ribbons) \$26.00 ea. (3-11) 30.00 ea. (12+) 26.00 ea. <i>Reduced Price!</i>	See: Paper pg. 107 VFU tape, prepunched pg. 108
	92230A Wide nylon ribbon for high-contrast print applications. Black print.	 14 in. ribbon, 18 yards, .004 in. thick	Each	(1-2 ribbons) \$52.00 ea. (3-11) 46.00 ea. (12+) 38.00 ea.	
2613A Line Printer (Also 12975A Subsystem)	9282-0545 Wide nylon ribbon. Blue/black print.	 15 in. ribbon, 20 yards, .004 in. thick	Each	(1-3 ribbons) \$49.50 ea. (4+) 35.00 ea.	See: Paper pg. 107 VFU tape, prepunched pg. 108
2617A Line Printer (Also 13053A Subsystem)	9282-0543 Wide nylon ribbon. Blue/black print.	 14.5 in. (14 1/2) ribbon, 20 yards, .004 in. thick	Each	(1-3 ribbons) \$51.00 ea. (4+) 36.00 ea.	See: Paper pg. 107 VFU tape, prepunched pg. 108
2619A Line Printer	1535-3914 Wide nylon ribbon for normal print applications. Blue/black print.	 14 in. ribbon, 15 yards, .005 in. thick	Each	(1-2 ribbons) \$40.00 ea. (3-11) 33.00 ea. (12+) 27.00 ea.	See: Paper pg. 107 VFU tape, prepunched pg. 108 Vacuum bags pg. 108
	92230A Wide nylon ribbon for high-contrast print applications. Black print.	 14 in. ribbon, 18 yards, .004 in. thick	Each	(1-2 ribbons) \$52.00 ea. (3-11) 46.00 ea. (12+) 38.00 ea.	

Impact printer ribbons (cont.)

Impact printer model number	Part number/ description	Dimensions & measurements	Unit of measure	Price	Cross-reference to other supplies & accessories
2631A/B Dot Matrix Printer	92155A Ribbon cartridges, mobius loop construction, continuous feed. Black print.	 .75 in. (3/4) ribbon, 55 yards, 15 million characters	Box of 3	(1-2 boxes) \$65.00 ea. (3-7) 56.00 ea. (8+) 49.00 ea.	See: Paper see below Paper transporter pg. 104 Print head pg. 108 Print stand pg. 87 Sound cover pg. 105
2635A/B Printing Terminal					
2639A Printing Terminal					
2631G Graphics Printer	92155B Ribbon cartridges, used with 2631G, opt. 200 only. Black print.	 .75 in. (3/4) ribbon, 55 yards, 5000 bar code labels (10 char. each)	Box of 3	(1-2 boxes) \$72.00 ea. (3-7) 63.00 ea. (8+) 57.00 ea.	
2767A Line Printer	9300-0427 Wide nylon ribbon. Blue/black print.	 9 in. ribbon, 28 yards, .005 in. thick	Each	(1-3 ribbons) \$38.00 ea. (4-35) 30.00 ea. (36+) 27.00 ea.	
2932/33/34A Dot Matrix Printers	92155L Ribbon cartridges, continuous feed. Black print.	 .75 in. (3/4) ribbon, 50 yards, 10 million characters	Box of 3	(1-2 boxes) \$72.00 ea. (3-7) 62.00 ea. (8+) 55.00 ea.	See: Paper see below Paper catcher pg. 108 Plug-in type cartridges 2934 only pg. 110 Print head pg. 108 Printer stands pg. 84
82905A/B Dot Matrix Printer	92156A Ribbon cartridges, continuous feed. Black print.	 5 in. (1/2) ribbon, 20 yards, 3 million characters	Box of 2	(1-2 boxes) \$22.00 ea. (3-7) 20.00 ea. (8+) 18.00 ea.	See: Paper see below Print head pg. 108 Print stand pg. 104
82906A Dot Matrix Printer					
9871A Character Printer	9282-0561 Nylon ribbon cartridge. Black print.	 .31 in. (5/16) ribbon, 16 yards, 500,000 characters	Each	Minimum order 6 ribbons (6-11) \$5.50 ea. (12-35) 4.40 ea. (36+) 3.20 ea.	See: Paper see below Printwheels pg. 109

Impact printer paper

For use with	Part number/ description	Dimensions & measurements	Unit of measure	Price
2563A 2565A/2566A 2601A 2602A 2607A 2608A/S 2611A 2613A 2617A 2618A 2619A 2631/35/39 2932A 2933A 2934A 82905A/B 82906A 9871A	92157A Fanfold, blank printer paper.	 9.5 in. (241 mm) 18 lb. bond, white, 2400 sheets/box 8.5 in. (216 mm) 11 in. (279 mm)	Box	(1-2 boxes) \$41.00 ea. (3-5) 37.00 ea. (6-11) 35.00 ea. (12+) 33.00 ea.
	92157B Fanfold, 3-hole punched, blank printer paper.	 9.5 in. (241 mm) 18 lb. bond, white, 3200 sheets/box 8.5 in. (216 mm) 11 in. (279 mm)	Box	(1-2 boxes) \$50.00 ea. (3-5) 46.00 ea. (6-11) 44.00 ea. (12+) 42.00 ea.
	92157C Fanfold, micro-perforated printer paper for high-quality word processing applications.	 9.5 in. (241 mm) 20 lb. no. 1 bond, white, 2400 sheets/box 8.5 in. (216 mm) 11 in. (279 mm)	Box	(1-2 boxes) \$59.00 ea. (3-5) 56.00 ea. (6-11) 54.00 ea. (12+) 52.00 ea.
	9280-0705 72-column blank printer paper.	 8.5 in. (216 mm) 15 lb. bond, white, 3200 sheets/box 7.5 in. (191 mm) 11 in. (279 mm)	Box	(1-67 boxes) \$47.00 ea. (68+) 40.00 ea.
	9280-0218 80-column green-bar printer paper.	 9.9 in. (251 mm) 15 lb. bond green-bar 0.5 in. (1/2) 3200 sheets/box 11 in. (279 mm)	Box	(1-51 boxes) \$52.00 ea. (52+) 44.00 ea.
All above except 82905A/B 82906A	9320-1515 132-column blue-bar printer paper.	 14.9 in. (378 mm) 18 lb. bond blue-bar 0.5 in. (1/2) 2400 sheets/box 11 in. (279 mm)	Box	(1-2 boxes) \$55.00 ea. (3-5) 47.00 ea. (6-11) 44.00 ea. (12+) 42.00 ea.



Easy to push, pull, and turn! The 92173P paper transporter (page 104) lets you move up to 100 pounds of paper quietly and effortlessly. And you can store your impact printer paper in our sturdy data binders, page 93.

For location of dealer nearest you, call 800-FOR-HPCC (800-367-4772).

Impact printer supplies (cont.)

Impact printer supplies

Printer	Order supply no.	Description	Price
2601A	26010A	Multi-part forms tractor. Adjustable to accept up to 15.2-in. form width.	\$565.00 ea.★
	92167W	9.5 × 11.6 in. (241 × 295mm) Printwheel storage album. Color is bone with black accent. Holds six printwheels.	(1-2 albums) \$13.00 ea.★ (3-4) 12.00 ea. (5+) 11.00 ea.
		Extra paper trays for HP 26010D sheet feeder. (8.5 × 11 inch)	(1-2 trays) \$100.00 ea.★ (3+) 90.00 ea.
	92177J		
	92177K	(landscape: 11 × 8.5 inch)	
	92177L	(legal: 8.5 × 14 inch)	
	92177M	(210 × 297mm/A4)	
	92177N	(landscape: 297 × 210mm/A4)	
2602A	26020A	Multi-part forms tractor. Adjustable to accept up to 15.2-in. form width.	\$285.00 ea.★
	92167V	12 × 13.3 in. (305 × 338mm) Printwheel storage album. Bone-colored with brown accent. Holds six 98-character printwheels.	(1-2 albums) \$15.00 ea.★ (3-9) 12.00 ea. (10+) 10.00 ea.
2607A	02607-80024	Individual pre-punched VFU tape. 66 lines per page	\$4.20 ea.
2608A/S	02608-60091	Package of layout forms. Total 250 sheets on 5 pads.	\$17.00 pkg.
2611A 2613A 2617A 2618A 2619A	02613-80001	Individual pre-punched VFU. (66 lines/page)	\$8.70 ea.
	02619-80003	(88 lines/page)	\$8.70 ea.
	4114-0371	Blank VFU tape, self adhesive. 25 blank tapes per package.	(1 pkg) \$41.00 ea. (2+) 37.00 ea.
	9300-0750	Package of 3 vacuum bags (minimum order 5 packages).	\$4.10 ea.
2631A/B/G 2635/39	92154G	Print head. Replacement print head for 2631G Opt. 200. Also fits other 263X Series printers.	(1-2 heads) \$185.00 ea. (3-) 160.00 ea.
2932/33/34A Dot Matrix Printers	92154B	Print head. Average life 200 million characters	\$140.00 ea.
	92171G	Printout paper catcher. Wire construction, easy mounting.	(1-2 catchers) \$48.00 ea. (3-9) 42.00 ea. (10+) 38.00 ea.
82905A/B	92154P	Print head. Reliable and user installable. Average life is 50 to 100 million characters.	\$57.00 ea.★
82906A	92154N	Print head. User installable. Average life is 50 to 100 million characters.	\$105.00 ea.★
	92171N	Tractor unit. Allows use of fanfold paper and labels from 4 in. (102mm) through 9.5 in. (241mm) in width.	\$50.00 ea.★
Miscellaneous supplies	92231A	12-Channel VFU tape punch. Will punch either six or eight lines-per-inch control tapes. Splicing easy with precision registration pins and hold-down arms on punch. Bidirectional control knob moves tape easily through punch.	\$225.00 ea.
	92231B	Paper perforator tape. Box of 28 Rolls. (Supersedes 9280-0063.) Oiled gray paper tape, 1 in. (25.4 mm). Each roll 1000 ft. (305 m) long.	(1 box) \$93.00 ea. (2-4) 81.00 ea. (5-9) 75.00 ea. (10+) 73.00 ea.

Call 1-800-4-A-HP or 1-800-487-8787 to find out more.
1-800-487-8787 (CA 408-738-4133).

Plastic print-wheels—96 character



Note: sold
in boxes
of six
each.

[illegible]

(1 box of six printwheels)	\$50.00 ea.
(2-4)*	44.00 ea.
(5+)*	40.00 ea.



Note: sold
as single
wheels.



Note: sold
as single
wheels

Titan 10 Part no. 92153A	ABC abc 0123456789 ¢!"#\$%& &'()*+,-./:; $\frac{1}{4}=\frac{1}{2}?$ @_.,
Pica 10 Part no. 92153B	ABC abc 0123456789 ¢!"#\$%& '()*+,-./:; $\frac{1}{4}=\frac{1}{2}?$ @_.,
Elite 12 Part no. 92153C	ABC abc 0123456789 ¢!"#\$%& '()*+,-./:; $\frac{1}{4}=\frac{1}{2}?$ @_.,
Letter Gothic 12 Part no. 92153D	ABC abc 0123456789 ¢!"#\$%& (*)_, $\frac{1}{4}=\frac{1}{2}?$;"-./.
Bold PS Part no. 92153E	ABC abc 0123456789 ¢!"#\$%& '()*+,-./:; $\frac{1}{4}=\frac{1}{2}?$ @_.,
(1-2 wheels)	\$60.00 ea.
(3-5)*	55.00 ea.
(6+)*	51.00 ea.

Titan 10 Part no. 92153U	ABC abc 0123456789¢!"#\$%&'( ) *+, -./: ;<=>?@[\\]^_`{|}~
Financial 10 Part no. 92153V	ABC 0123456789 ¢cd6f18↑*8↓m5 øø/4129%327@!];#&ø&ø%*+, -./., ÷=□?@["\^_`{#}~
Cubic PS 96 Part no. 92153W	ABC abc 0123456789 ¢!"#\$%&'( ) *+, -./: ;<=>? @[\\]^_`{|}~
(1-2 wheels)	\$70.00 ea.
(3-5)*	65.00 ea.
(6+)*	62.00 ea.

*Quantity discounts apply to purchase of single part numbers only.

****For information on international printwheels for the HP 2601A/2602A Printers, contact us at (800) 538-8787. Ca., Alaska, and Hawaii (408) 738-4133.**

Keep your HP 2601A print characters sharp and smudge-free without a messy cleaning job. Using the HP printwheel clean kit is a quick and easy process. Simply attach the wheel to the interchangeable wheel holder, then apply the cleaning solution to the element pad, close the lid and give the outside knob a few turns.

92193C Printwheel clean kit. Includes the cleaner box, a single element pad, an interchangeable wheel holder and a 4-ounce bottle of cleaning solution. Each pad can be used for approximately 20 cleanings and is then easily replaced.

(1 kit)	\$22.00 ea. ★
(2-4)	\$20.00 ea.
(5+)	\$19.00 ea.

92193D Printwheel clean kit refill. Included is a 4-ounce bottle of cleaning solution and a cleaner element pad. The element pad is good for approximately 20 cleanings.

(1-4 refills)	\$17.00 ea	★
(5+)	\$15.00 ea	

(1-4 refills)	\$17.00 ea.★
(5+)	\$15.00 ea.

USASCII printwheels



Note: sold as single wheels.

Courier 10 Part no. 92262A	ABC abc 012345 ,.:;+-\$%&'_<br>%{}[]()>=<'`^? !@*/\|&"_
Prestige Pica 10 Part no. 92262B	ABC abc 012345 ,.:;+-\$%&'_<br>%{}[]()>=<'`^? !@*/\|&"_
Courier 12 Part no. 92262D	ABC abc 0123456789 ,.:;+-\$%&{}[]<br>()>=<'`^? !@*/\|&"_ <br>_<'_&
Prestige Elite 12 Part no. 92262E	ABC abc 0123456789 ,.:;+-\$%&{}[]<br>()>=<'`^? !@*/\|&"_ <br>_<'_&

Letter Gothic 12 Part no. 92262F	ABC abc 0123456789 ,.:;+-\$%{ } [] () > < ^ ' ~ ? ! @ * / \ & " ' ¢ - £ ¤
Bold Face PS Part no. 92262G	ABC abc 0123456789 ,.:;+-\$%{ } () [] > < ^ ' ~ ? ! @ * / \ & " ' ¢ - £ ¤

(1 wheel)	\$15.00 ea.
(2-5)*	14.00 ea.
(6+)	12.00 ea.

*Quantity discounts apply to purchase of single part numbers only.

****For information on international printwheels for the HP 2601A/2602A Printers, contact us at (800) 538-8787. Ca., Alaska, and Hawaii (408) 738-4133.**

Package of three print discs. Each package contains three identical, 96-character print discs. Available in following character sets:

1530-0697 (Standard)
1530-1810 (European)
1530-1811 (ASCII)


1530-1851 (Katakana)
1530-1895 (Cyrillic)
1530-2022 (APL)

(1-5 pkg)	\$14.00 ea.
(6-11)	11.00 ea.
(12+)	8.70 ea.

★ For location of dealer nearest you, call: 800-FOR-HPPC (800-367-4772).

Printwheels (cont.)

2934A Plug-in character style cartridges

92188A Courier	ABCabc123,-.!"#%&'()*+<=>?|}~`-@AAbE EEIi'...'~UUE'ÇçNñ;¿DEYsfçæëöüääéóú æëöüaeouáiøÆáíðæAlouyÞþ-¼½¾□■▶±⊞	92188J Italic 12	ABCabc123 !"#%&'()*+,.-./:;<=?@[\\]^_` AAE EEIi'...'~UUE'ÇçNñ;¿DE Ysfç æëöü äéóú äëöü äëouAiØA áíðæAíouÉíßÓÀÃÄÖdfíóôõöšš šÜýÞþ -¼½¾□■▶±⊞ í | } ~`
92188B Courier 12	ABCabc123,-.!"#%&'()*+<=>?|}~`-@AAbE EEIi' ...'~UUE'ÇçNñ;¿DEYsfçæëöüääéóúæëöüæeouÁiØÆá íøæAíouÉíßÓÀÃÄÖdfíóôõöšššÜýÞþ-¼½¾□■▶±⊞	 92188K Orator	ABC123!"#%&'()*+,-./:;<=?@_`=ç?¶†™§ ABC123!"#%&'()*+,-./:;<=?@_`=ç?¶†™§
92188E Helv	ABCabc123,-.!"#%&'()*+<=>?|}~`-@AAbE EEIi' ...'~UUE'ÇçNñ;¿DEYsfçæëöüääéóúæëöüæeouÁiØ ÆáíðæAíouÉíßÓÀÃÄÖdfíóôõöšššÜýÞþ-¼½¾□■▶±⊞	92188M Prestige Pica 10	ABCabc123,-.!"#%&'()*+<=>?|}~`-@AAbE EEIi'...'~UUE'ÇçNñ;¿DEYsfçæëöüääéóú æëöüæeouáiøÆáíðæAlouyÞþ-¼½¾□■▶±⊞
92188G OCR A	ABC[\\]^_`abc123,-.!"#%&'()*+<=>? :;|}~`	92188N Prestige Elite 12	ABCabc123,-.!"#%&'()*+<=>?AAE EEIi'...'~ UUE'ÇçNñ;¿DEYsfçæëöüääéóúæëöüæeouÁiØÆá íøæAíouÉíßÓÀÃÄÖdfíóôõöšššÜýÞþ-¼½¾□■▶±⊞
92188H Light Italic 10	ABCabc123,-.!"#%&'()*+<=>?|}~`-@AAbE EEIi'...'~UUE'ÇçNñ;¿DEYsfçæëöüääéóú æëöüæeouáiøÆáíðæAlouyÞþ-¼½¾□■▶±⊞	92188R Letter Gothic 12	ABCabc123,-.!"#%&'()*+<=>?|}~`-@AAbE EEIi'...'~UUE'ÇçNñ;¿DEYsfçæëöüääéóú æëöüæeouáiøÆáíðæAlouyÞþ-¼½¾□■▶±⊞
		92188T OCR B	ABC[\\]^_`abc123,-.!"#%&'()*+,:<=?(<)~`

Price\$100.00 ea.★

Laser page printers



2688A Desktop Laser Page Printer



2686 LaserJet Printer



2680 Laser Page Printer

Laser page printer supplies

Printer	Order supply no.	Description	Estimated no. printed pages (8.5 x 11 in.)	Price
2680A Laser Printer	92180A	Toner. 12-one kilogram bags per box. For HP 2680 only.	300,000 to 400,000 pages per box	(1-2 boxes) \$475.00 ea. (3-10) 450.00 ea. (11-19) 435.00 ea. (20-39) 425.00 ea. (40+) 415.00 ea.
	92180D	Drum kit. Includes new cleaner blade.	300,000 per drum	(1-4 drums) \$230.00 ea. (5-9) 218.00 ea. (10+) 208.00 ea.
	92180T	Tool kit. Includes corona stringing tool, mag orientation tool & cleaner blade pressure tool. Comes in plastic tool case.	N/A	\$425.00 ea.
	92181A	Disposal containers. Box of 6 for spent toner collection.	360,000 per box	(1-2 boxes) \$83.00 ea. (3-5) 75.00 ea. (6+) 71.00 ea.
	92182A	Carrier. Box of 24 bottles.	1,200,000 per box	(1-3 boxes) \$74.00 ea. (4-9) 70.00 ea. (10+) 68.00 ea.
	92182D	Developer. Box of 6 bottles. 1 bottle per drum replacement.	1,800,000 per box	(1-2 boxes) \$215.00 ea. (3-9) 200.00 ea. (10+) 195.00 ea.

Laser page printer supplies (cont.)

Printer	Order supply no.	Description	Estimated no. printed pages (8.5 x 11 in.)	Price
2680A Laser Printer	92183A	Splicing tape. Box of 6 rolls.	3,240,000 per box	\$72.00 ea.
	92184A	18 lb. (69-gm/sq meter) continuous fanfold paper, 12 x 8.5 in. (305 x 216mm), 3600 sheets per box, 45 boxes per pallet. Sold only in pallet quantities. See page 93 for laser printout binders.	162,000 per pallet	(1-2 pallets) \$1290.00 ea. (3+) 1240.00 ea.
2687A/2688A Desktop Laser Printer	92185A	Toner. Box of 6 bottles plus one empty collection bottle. For HP 2687A and HP 2688A only.	18,000 per box	(1 box) \$78.00 ea. (2-5) 72.00 ea. (6+) 68.00 ea.
	92185B	Cleaning pads. Box of 3.	60,000 per box	(1 box) \$72.00 ea. (2-5) 65.00 ea. (6+) 61.00 ea.
	92185D	Ozone filters. Box of 3.	60,000 per box	(1 box) \$53.00 ea. (2-5) 48.00 ea. (6+) 44.00 ea.
	92185E	OPC belts. Box of 3.	60,000 per box	(1 box) \$220.00 ea. (2-5) 210.00 ea. (6+) 200.00 ea.
	92185S	Printing and maintenance kit. Convenient way to maintain your 2687/88A Laser Printer. Recommended maintenance procedure calls for the cleaning pad, ozone filter and OPC belt to be changed after using a box of toner. Kit contains 1 cleaning pad, 1 ozone filter, 1 OPC belt and a new box (6 bottles) of toner. See photo at left.	18,000 per kit	\$225.00 ea.



92185S Printing and maintenance kit.

LaserJet printer supplies

2686A LaserJet character font cartridges

Courier bold/italic (portrait mode) and Line Printer Compressed (landscape mode)

Part no. 92286A ABC abc !"# \$%&'()*+,-./123

ABCabc !"# \$%&'()*+,-./123

ABC abc !"# \$%&'()*+,-./123

Above samples represent three fonts of the Courier family.

Proportional Spaced regular/bold/italic, 14 pt. Helv. Header font, 8 pt. USASCII. Footnote font (portrait mode) and Line Printer Compressed (landscape mode)

Part no. 92286B ABCabc !"# \$%&'()*+,-./123

ABCabc !"# \$%&'()*+,-./123

ABC abc !"# \$%&'()*+,-./123

Above samples represent three fonts of the Proportional family.

International Courier medium/bold/italic, 12 pt. (portrait mode) Line Printer portrait and landscape modes. The above 5 typeface styles are available in 10 languages: USASCII, French, German, UK, Spanish, Swedish/Finnish, Danish/Norwegian, & Italian.

Part no. 92286C ABC abc 123 @ !"# \$%&'()*+,-./:;<=>?[\]^

ABC abc 123 @ !"# \$%&'()*+,-./:;<=>?[\]^

ABC abc 123 @ !"# \$%&'()*+,-./:;<=>?[\]^

Above samples represent three fonts of the International Courier family.

Prestige Elite regular/bold/italic 10 pt. USASCII, Roman 8 and Roman extension. Portrait mode.

Part no. 92286D ABC abc 123 -=[\];',./!@#\$%^&*()_+{}|:"<?~

ABC abc 123 -=[\];',./!@#\$%^&*()_+{}|:"<?~

ABC abc 123 -=[\];',./!@#\$%^&*()_+{}|:"<?~

Above samples represent three fonts of the Prestige Elite family.

Letter Gothic regular/bold/italic 10 pt. USASCII, Roman 8 and Roman extension. Portrait mode.

Part no. 92286E ABC abc 123 -=[\];',./!@#\$%^&*()_+{}|:"<?~

ABC abc 123 -=[\];',./!@#\$%^&*()_+{}|:"<?~

ABC abc 123 -=[\];',./!@#\$%^&*()_+{}|:"<?~

Above samples represent three fonts of the Letter Gothic family.

Price \$225.00 ea.

Proportional Spaced II medium/bold 14, 10, & 8 pt. USASCII, Roman 8 and Roman extension. Portrait mode.

Part no. 92286F ABCabc !"# \$%&'()*+,-./123

ABCabc !"# \$%&'()*+,-./123

ABCabc !"# \$%&'()*+,-./123

Above samples represent three fonts of the Proportional Spaced II family.

Courier medium/bold/italic 10 pt. portrait and landscape mode. Line Printer medium 8.5 pt. portrait and landscape mode.

Part no. 92286L ABCDEFGHIJ abcdefghij 1234567890

ABCDEFGHIJ abcdefghij 1234567890

ABCDEFGHIJ abcdefghij 1234567890

Above samples represent three fonts of the Courier/Line Printer family.

Price \$330.00 ea.★

Legal Elite®
Part no. 92286G

Legal Courier®
Part no. 92286H

Price \$330.00 ea.★

*Print samples not available at time of printing.

CALL US WITH YOUR PURCHASE ORDERS AND



★ For location of dealer nearest you, call: 800-FOR-HPCC (800-367-4772)




LaserJet printer supplies (cont.)

Printer	Order supply no.	Description	Estimated no. printed pages (8.5 x 11 in.)	Price
2686A LaserJet Professional Printer	92285A	Toner (EP) cartridge	3000 per cartridge (Based on 3/4-in. margins, double-spaced, text only)	(1-3 cartridges) \$99.00 ea. (4-9) 95.00 ea. (10+) 89.00 ea.
	92285B	8.5 x 11 in. extra paper tray. Holds 100 sheets.	N/A	(1-2 trays) \$49.00 ea. (3-9) 45.00 ea. (10+) 40.00 ea.
	92285C	8.5 x 14 in. extra paper tray. Holds 100 sheets.	N/A	(1-2 trays) \$49.00 ea. (3-9) 45.00 ea. (10+) 40.00 ea.
	92285D	Metric A4 size extra paper tray. Holds 100 sheets.	N/A	(1-2 trays) \$42.00 ea. (3-9) 37.00 ea. (10+) 34.00 ea.
	92285E	Metric B5 size extra paper tray. Holds 100 sheets.	N/A	(1-2 trays) \$42.00 ea. (3-9) 37.00 ea. (10+) 34.00 ea.

Note: for best results, HP recommends the use of high quality photocopy paper in your LaserJet Printer.

Laser printer character fonts

2687A Character font cartridges

Courier 10 Bold Part no. 92186A	ABC abc 1234567890!"#\$%&'()* *+, -./:;<=>?@[\\]^_`{|}~	Prestige Elite 12 Bold Part no. 92186L	ABC abc 1234567890!"#\$%&'()*+,- ./:;<=>?@[\\]^_`{|}~
Courier 10 Italic Part no. 92186B	ABC abc 1234567890!"#\$%&'()* *+, -./:;<=>?@[\\]^_`{|}~	Prestige Elite 12 Italic Part no. 92186M	ABC abc 1234567890!"#\$%&'()*+,- ./:;<=>?@[\\]^_`{|}~
Courier 10 Extended Part no. 92186C	ABC abc 1234567890!"#\$%&'()* *+, -./:;<=>?@[\\]^_`{|}~	Pica Part no. 92186N	ABC abc 1234567890!"#\$%&'()* *+, -./:;<=>?@[\\]^_`{|}~
Letter Gothic 12 Bold Part no. 92186D	ABC abc 1234567890!"#\$%&'()*+,- ./:;<=>?@[\\]^_`{|}~	Pica Bold Part no. 92186P	ABC abc 1234567890!"#\$%&'()* *+, -./:;<=>?@[\\]^_`{|}~
Letter Gothic 12 Italic Part no. 92186E	ABC abc 1234567890!"#\$%&'()*+,- ./:;<=>?@[\\]^_`{|}~	Pica Italic Part no. 92186Q	ABC abc 1234567890!"#\$%&'()* *+, -./:;<=>?@[\\]^_`{|}~
Letter Gothic 12 Extended Part no. 92186F	ABC abc 1234567890!"#\$%&'()*+,- ./:;<=>?@[\\]^_`{|}~	Line Printer Part no. 92186R	ABC abc 1234567890!"#\$%&'()*+,-./:;<=> a[\\]^_`{|}~
Proportional Space Part no. 92186G	ABC abc 1234567890!"#\$%&'()* +,-./:;<=>?@[\\]^_`{|}~	Script Part no. 92186S	ABC abc 1234567890!"#\$%&'()*+,- ./:;<=>?@[\\]^_`{|}~
Proportional Space Bold Part no. 92186H	ABC abc 1234567890!"#\$%&'()* +,-./:;<=>?@[\\]^_`{|}~	3 of 9 Barcode (9mil, 7.5 cpi) Part no. 92186T	 *TEST-1234-TEST*
Proportional Space Italic Part no. 92186J	ABC abc 1234567890!"#\$%&'()* +,-./:;<=>?@[\\]^_`{|}~		
Prestige Elite 12 Part no. 92186K	ABC abc 1234567890!"#\$%&'()*+,- ./:;<=>?@[\\]^_`{|}~		

(1 cartridge font) \$255.00 ea.
(2-5) 245.00 ea.
(6+) 230.00 ea.

Quantity discounts apply to purchase of single part numbers only.

2688A Software fonts

Times New 2™ (600-ft. mag tape) Part no. 92187A	ABC abc 123 !".#\$%&'()*+,-
Times New 2™ (.25-in. tape cartridge) Part no. 92187C	ABC abc 123 !".#\$%&'()*+,-

Above samples represent three fonts of the Times New 2™ family.

Geneva 2™ (600-ft. mag tape) Part no. 92187B	ABC abc 123 !".#\$%&'()*+,-
Geneva 2™ (.25-in. tape cartridge) Part no. 92187D	ABC abc 123 !".#\$%&'()*+,-

Above samples represent three fonts of the Geneva 2™ family.

Price \$955.00 ea.

Note: product names followed by * or ™ are trademarks of their respective companies. For a complete listing, see page 158.

★ For location of dealer nearest you, call: 800-FOR-HPPC (800-367-4772).

We ship within 24 hours

JUST GIVE US A CALL

800-538-8787

California 408-738-4133

ThinkJet Printer



HP 2225B ThinkJet Personal Printer, page 78.

92261M Cut-sheet ThinkJet printer paper, see below.

92261S Desktop mini-print stand, see below.

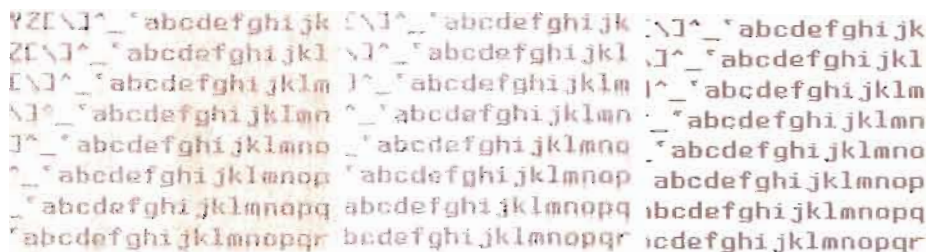
92261A Print head ink cartridges, see below.

92261N Fanfold ThinkJet printer paper, see below.

Our ThinkJet paper—the smart choice for your ThinkJet Printer

To optimize your new ThinkJet printer's capabilities and print quality, use HP ThinkJet printer paper. It has been carefully manufactured and selected to meet rigid HP quality standards. See the difference our paper makes in the photo comparison below. For the quality image you deserve, depend on HP paper.

The print samples at right were photographed under identical conditions. Notice the difference in contrast and legibility between the ThinkJet paper on the right and the other two papers. The impact printer paper (left) has long fibers that absorb the ink, allowing it to bleed or feather. And the coating on the photocopy paper (center) slows the drying process, which increases the chances of smearing.



92157A Impact printer paper

Photocopy paper

92261M ThinkJet paper

ThinkJet printer supplies

Printer	Order supply no.	Description	Unit of measure	Price
2225 ThinkJet Printer	92261A	Print head ink cartridge. Color is black. 600,000 characters (approx. 500 pages)	each	\$9.95 ea.
	92261L	Short pack. 1000 sheets fanfold ThinkJet printer paper. 20 lb., microperforated for neat, clean separation. Size is 8.5 x 11 in.	each	(1-2 packs) \$29.00 ea.
	92261M	20 lb. cut-sheet ThinkJet printing paper. Four individually wrapped 500-sheet packs (2000 sheets total). Size is 8.5 x 11 in.	box	(1-2 boxes) \$48.00 ea. (3-10) 46.00 ea. (11-24) 44.00 ea. (25+) 42.00 ea.
	92261N	20 lb. fanfold ThinkJet printing paper. Microperforated for clean, neat separation. Five individually wrapped 500 sheet packs (2500 sheets total). Size is 8.5 x 11 in.	box	(1-2 boxes) \$50.00 ea. (3-10) 48.00 ea. (11-24) 45.00 ea. (25+) 43.00 ea.
	92261S	Smoked acrylic mini-printer stand. See above.	each	(1-2 stands) \$49.00 ea. (3-9) 46.00 ea. (10+) 41.00 ea.
	82199A	ThinkJet battery pack (For use with 2225B only)	each	\$45.00 ea.

Thermal printers

Hewlett-Packard thermal papers are manufactured to yield high-quality, fade-resistant copies. The paper surfaces are exceptionally smooth to prevent excessive abrasion between the print head and paper which leads to premature head wear. Moreover, HP engineers test these papers on an on-going basis to ensure their quality standards are met.

Thermal paper for HP computers

Computer/calculator model number	Part number & description	Dimensions & measurements	Unit of measure	Price	Cross-Reference to other supplies & accessories
85	82931A Blue print	4.25 in. (108 mm)	Box of 2 rolls	(1-4 boxes) \$25.00 ea. (5+) 21.00 ea.	
	82954A Black print	400 ft. (122 m) roll	Box of 2 rolls	(1-4 boxes) \$25.00 ea. (5+) 21.00 ea.	
97A calculator	82045A Blue print, Continuous roll.	2.25 in. (57 mm)	Box of 6 rolls	Box \$10.00 ea.	
	82175A Black print, Continuous roll.	80 ft. (24 m) roll	Box of 6 rolls	Box \$10.00 ea.	
125A/B Touchscreen (HP 150)	92160A Blue print, Continuous roll, U.S. dimensioned.	8.5 in. (216 mm)	Box of 24 rolls	(1-2 boxes) \$110.00 ea. (3-23) 100.00 ea. (24+) 94.00 ea.	See: Cables pg. 17
	92160B Black print, Continuous roll, U.S. dimensioned.		Box of 24 rolls	(1-2 boxes) \$125.00 ea. (3-23) 115.00 ea. (24+) 110.00 ea.	
	92160D Black print, Continuous roll, U.S. dimensioned.	100 ft. (30.5 m) roll	Box of 4 rolls	Box \$28.00 ea.	
Touchscreen (HP 150)	92160C Black print, Page-perforated roll, U.S. dimensioned.	8.5 in. (216 mm) 11 in. (279 mm) 100 ft. (30.5 m) roll	Box of 24 rolls	(1-2 boxes) \$130.00 ea. (3-23) 120.00 ea. (24+) 110.00 ea.	See: Paper tray below
	92160M Blue print, Fanfold pack, U.S. dimensioned.	8.5 in. (216 mm)	Box of 4 packs	(1 box) \$83.00 ea. (2-5) 75.00 ea. (6+) 71.00 ea.	
	92160N Black print, Fanfold pack, U.S. dimensioned.	11 in. (279 mm)	Box of 4 packs	(1 box) \$88.00 ea. (2-5) 79.00 ea. (6+) 76.00 ea.	
	92160E Black print, Fanfold pack, U.S. dimensioned.	330 sheets per pack	Box of 1 pack	Box \$26.50 ea.	
9000 Model 520	9270-0640 Black print, Fanfold pack, U.S. dimensioned.	8.5 in. (216 mm) 11 in. (279 mm)	Box of 4 packs	(1 box) \$88.00 ea. (2-5) 79.00 ea. (6+) 76.00 ea.	
	9270-0641 Blue print, Fanfold pack, U.S. dimensioned.	330 sheets per pack	Box of 4 packs	(1 box) \$83.00 ea. (2-5) 75.00 ea. (6+) 71.00 ea.	
	9270-0642 Black print, Fanfold pack, Metric dimensioned.	8.27 in. (211 mm) 11.69 in. (297 mm)	Box of 4 packs	(1 box) \$88.00 ea. (2-5) 79.00 ea. (6+) 76.00 ea.	
	9270-0643 Blue print, Fanfold pack, Metric dimensioned.	330 sheets per pack	Box of 4 packs	(1 box) \$83.00 ea. (2-5) 75.00 ea. (6+) 71.00 ea.	
9810A 9820A Calculators 9821A	9281-0401 Blue print, Continuous roll.	2.25 in. (57 mm) 250 ft. (76 m) roll	Box of 6 rolls	(1 box) \$17.00 ea. (2-4) 15.00 ea. (5-19) 14.00 ea. (20-99) 13.00 ea.	See: Magnetic program cards pg. 141 Digital tape cassette pg. 140



Touchscreen PC offers fanfold convenience




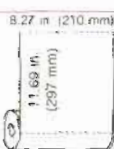
Paper tray attaches directly behind the Touchscreen 2674A Internal Printer and holds a full pack of thermal fanfold paper. It lets you enjoy the convenience of flat 8.5- x 11-inch sheets of thermal paper.

92173A \$20.00 ea.




Chart continued next page

★ For location of dealer nearest you, call: 800-FOR-HP (800-367-4772).


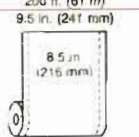
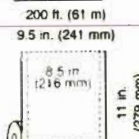
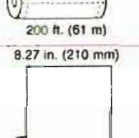
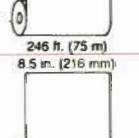
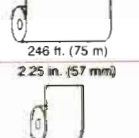
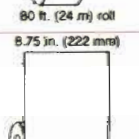
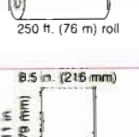




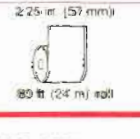

Thermal paper for HP computers (cont.)

Computer/calculator model number	Part number & description	Dimensions & measurements	Unit of measure	Price	Cross-reference to other supplies & accessories
9815A/S 9825A/B/S/T 9835A/B	9270-0479 Blue print. Continuous roll.	2.25 in. (57 mm)	Box of 6 rolls	(1 box) \$27.00 ea. (2-4) 25.00 ea. (5-13) 22.00 ea. (20-99) 19.50 ea.	For 9815A, S see: 98200A Mini data cartridge pg. 140 For 9825A, S see: 98200A Mini data cartridge pg. 140 For 9835A, B see: 98200A Mini data cartridge pg. 140
	9270-0664 Black print. Continuous roll.	250 ft. (76 m) roll	Box of 6 rolls	(1 box) \$27.00 ea. (2-4) 25.00 ea. (5-13) 22.00 ea. (20-99) 19.50 ea.	
9845A/B/C/S/T	92161A Superseded by 92161B.	8.5 in. (216 mm)			For 9845A, B, C, S, T see: 98200A Mini data cartridge pg. 140
	92161B High-contrast. Blue print. Continuous roll. U.S. dimensioned.		Box of 6 rolls	(1 box) \$60.00 ea. (2-5) 58.00 ea. (6+) 56.00 ea.	
	92161C High-contrast. Black print. Continuous roll. U.S. dimensioned.	200 ft. (61 m) roll	Box of 6 rolls	(1 box) \$60.00 ea. (2-5) 58.00 ea. (6+) 56.00 ea.	
	92161D Superseded by 92161E	8.5 in. (216 mm)			
	92161E High-contrast. Black print. Page-perforated roll. U.S. dimensioned.		Box of 6 rolls	(1 box) \$80.00 ea. (2-5) 77.00 ea. (6+) 74.00 ea.	
	92161M Superseded by 92161N.	8.27 in. (210 mm)			
	92161N High-contrast. Blue print. Continuous roll. Metric dimensioned.		Box of 6 rolls	(1 box) \$60.00 ea. (2-5) 58.00 ea. (6+) 56.00 ea.	
	92161P High-contrast. Black print. Continuous roll. Metric dimensioned.	197 ft. (60 m) roll	Box of 6 rolls	(1 box) \$60.00 ea. (2-5) 58.00 ea. (6+) 56.00 ea.	
	92161Q Superseded by 92161R.	8.27 in. (210 mm)			
	92161R High-contrast. Black print. Page-perforated roll. Metric dimensioned.		Box of 6 rolls	(1 box) \$80.00 ea. (2-5) 77.00 ea. (6+) 74.00 ea.	

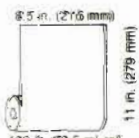
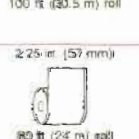

Thermal paper for HP printers

Thermal printer model number	Part number & description	Dimensions & measurements	Unit of measure	Price	Cross-reference to other supplies & accessories
2671A 2671G 2673A 2674A	92160A Blue print. Continuous roll. U.S. dimensioned.	8.5 in. (216 mm)	Box of 24 rolls	(1-2 boxes) \$110.00 ea.★ (3-23) 100.00 ea. (24+) 94.00 ea.	See: Printer/plotter stand pg. 96
	92160B Black print. Continuous roll. U.S. dimensioned.		Box of 24 rolls	(1-2 boxes) \$125.00 ea.★ (2-23) 115.00 ea. (24+) 110.00 ea.	
	92160C Black print. Continuous roll. U.S. dimensioned.	100 ft. (30.5 m) roll	Box of 4 rolls	Box \$28.00 ea.★	
	92160D Black print. Page-perforated roll. U.S. dimensioned.	8.5 in. (216 mm)	Box of 24 rolls	(1-2 boxes) \$130.00 ea.★ (3-23) 120.00 ea. (24+) 110.00 ea.	
	92160E Black print. Page-perforated roll. U.S. dimensioned.		Box of 24 rolls	(1-2 boxes) \$130.00 ea.★ (3-23) 120.00 ea. (24+) 110.00 ea.	
	92160M Blue print. Fanfold pack. U.S. dimensioned.	8.5 in. (216 mm)	Box of 4 packs	(1 box) \$80.00 ea.★ (2-5) 75.00 ea. (6+) 71.00 ea.	See: Paper tray opposite page
	92160N Black print. Fanfold pack. U.S. dimensioned.		Box of 4 packs	(1 box) \$80.00 ea.★ (2-5) 75.00 ea. (6+) 71.00 ea.	
	92160E Black print. Fanfold pack. U.S. dimensioned.		Box of 1 pack	Box \$25.50 ea.★	

Thermal paper for HP printers (cont.)

Thermal printer model number	Part number & description	Dimensions & measurements	Unit of measure	Price	Cross-reference to other supplies & accessories
7240A 7245B	9270-0607 Black print. Page-perforated roll. Metric dimensioned.		Box of 2 rolls	(1-5 boxes) \$40.00 ea. (6-35) 38.00 ea. (36+) 36.00 ea.	See: Thermal print head pg. 129
	9270-0700 Blue print. Page-perforated roll. Metric dimensioned.		Box of 2 rolls	(1-5 boxes) \$40.00 ea. (6-35) 38.00 ea. (36+) 36.00 ea.	
	9270-0609 Black print. Continuous roll. U.S. dimensioned.		Box of 2 rolls	(1-5 boxes) \$40.00 ea. (6-35) 38.00 ea. (36+) 36.00 ea.	
	9270-0959 Blue print. Continuous roll. U.S. dimensioned.		Box of 2 rolls	(1-5 boxes) \$40.00 ea. (6-35) 38.00 ea. (36+) 36.00 ea.	
	9270-0605 Black print. Page-perforated roll. U.S. dimensioned.		Box of 2 rolls	(1-5 boxes) \$40.00 ea. (6-35) 38.00 ea. (36+) 36.00 ea.	
	9270-0699 Blue print. Page-perforated roll. U.S. dimensioned.		Box of 2 rolls	(1-5 boxes) \$40.00 ea. (6-35) 38.00 ea. (36+) 36.00 ea.	
7310A	9270-0680 Black print. Continuous roll. Metric dimensioned.		Box of 6 rolls	(1-4 boxes) \$120.00 ea. (5-29) 114.00 ea. (30+) 108.00 ea.	
	9270-0681 Blue print. Continuous roll. Metric dimensioned.		Box of 6 rolls	(1-4 boxes) \$120.00 ea. (5-29) 114.00 ea. (30+) 108.00 ea.	
	9270-0682 Black print. Continuous roll. U.S. dimensioned.		Box of 6 rolls	(1-4 boxes) \$120.00 ea. (5-29) 114.00 ea. (30+) 108.00 ea.	
	9270-0683 Blue print. Continuous roll. U.S. dimensioned.		Box of 6 rolls	(1-4 boxes) \$120.00 ea. (5-29) 114.00 ea. (30+) 108.00 ea.	
82143A 82162A 97A	82045A Blue print. Continuous roll.		Box of 6 rolls	\$10.00 ea.★	
	82175A Black print. Continuous roll.		Box of 6 rolls	\$10.00 ea.★	
9866A/B HP 12996 Subsystem	9270-0488 Black print. Continuous roll.		Box of 6 rolls	(1 box) \$82.00 ea. (2-4) 74.00 ea. (5-19) 66.00 ea. (20+) 59.00 ea.	
	9281-0414 Blue print. Continuous roll.		Box of 2 rolls	(1 box) \$17.00 ea. (2-4) 15.00 ea. (5-19) 14.00 ea. (20+) 12.50 ea.	
9876A	9270-0640 Black print. Fanfold pack. U.S. dimensioned.		Box of 4 packs	(1 box) \$88.00 ea. (2-5) 79.00 ea. (6+) 76.00 ea.	
	9270-0641 Blue print. Fanfold pack. U.S. dimensioned.		Box of 4 packs	(1 box) \$83.00 ea. (2-5) 75.00 ea. (6+) 71.00 ea.	
	9270-0642 Black print. Fanfold pack. Metric dimensioned.		Box of 4 packs	(1 box) \$88.00 ea. (2-5) 79.00 ea. (6+) 76.00 ea.	
	9270-0643 Blue print. Fanfold pack. Metric dimensioned.		Box of 4 packs	(1 box) \$83.00 ea. (2-5) 75.00 ea. (6+) 71.00 ea.	

Thermal paper for HP terminals

Terminal model number	Part number & description	Dimensions & measurements	Unit of measure	Price	Cross-reference to other supplies & accessories
262X Interactive terminals	92160A Blue print. Continuous roll. U.S. dimensioned.		Box of 24 rolls	(1-2 boxes) \$110.00 ea.★ (3-23) 100.00 ea. (24+) 94.00 ea.	For 262X and 2675A see: 1420-0259 battery pg. 77.
	92160B Black print. Continuous roll. U.S. dimensioned.		Box of 24 rolls	(1-2 boxes) \$125.00 ea.★ (3-23) 115.00 ea. (24+) 110.00 ea.	
2675A Printing terminal	92160D Black print. Continuous roll. U.S. dimensioned.		Box of 4 rolls	Box \$28.00 ea.★	For 2675A see: 98200A Mini data cartridge pg. 140.
3075A Data capture terminals	82045A Blue print. Continuous roll.		Box of 6 rolls	Box \$10.00 ea.★	
3076A terminals	82175A Black print. Continuous roll.		Box of 6 rolls	Box \$10.00 ea.★	
3077A					



Plotters	pages 118–119
Plotter compatibility guides ..	page 121
Plotting media	pages 122–123
Plotter pens	pages 124–127
Plotter pen storage	page 128
Accessories	page 129

High-quality graphics at Two-pen plotter for your personal computer

Turn your personal computer into your personal graphics workstation with the HP 7470 two-pen graphics plotter. Compact and portable, the 7470 produces quality A/A4-size graphics you would expect to see only on a much more expensive plotter.

Take a look at the HP 7470's quality features.

Versatile writing system. The HP 7470's two-pen writing system plots on either paper for reports or transparency material for overhead projection. Overhead transparencies can be made in minutes—saving you both time and money.

Two built-in pen stalls make two-color plotting easy. For plots with more than two colors, just halt the plotter, snap new pens into the stalls, and resume plotting. Automatic pen capping prevents ink dryout, and the special pen damping device gives you consistent line width, chart after chart.

Your charts will have variety with the 7470. Choose from a myriad of pen colors in two line

widths, seven dashed-line types, text written in any direction you wish (with or without slant), and in your choice of type styles.

Almost everything you need to operate the plotter is right up front on the control panel.

You can select pens or halt the plotter to substitute pens or to view the plot. The front panel also gives you easy access to the digitizing capability and the scaling points.

Intelligent plotter. The HP 7470 is a smart plotter. It has five internal character sets (including three European sets) to end the need for software-generated characters.

And the 7470 contains more than 40 built-in HP-GL instructions so you can use simple commands to perform a variety of operations—like drawing arcs and circles, selecting pen velocity, and defining characters.

Ordering information

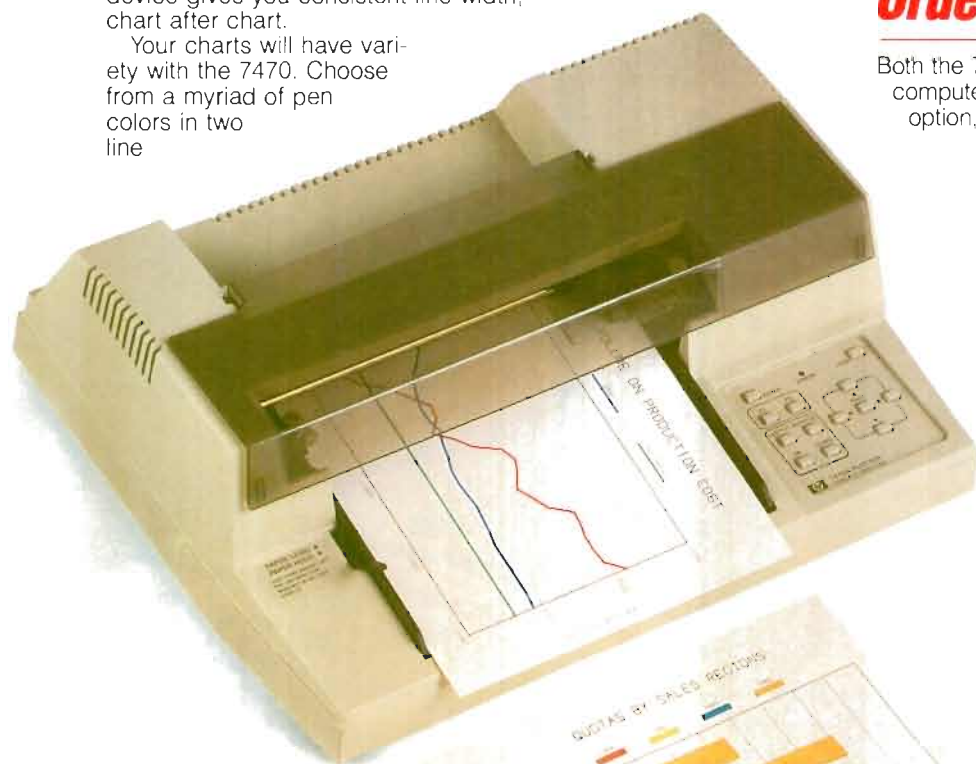
Both the 7470 and the 7475 are compatible with almost any computer in the marketplace. Be sure to order the correct option, along with any necessary cables.

7470A Opt. 001 (RS232C)	\$1095.00 ea.*
(for cables see page 18)	
Opt. 002 (HP-IB)	\$1095.00 ea.*
(for cables see pages 11, 18)	
Opt. 003 (HP-IL)	\$1095.00 ea.*
(cable included)	

*Sorry, but quantity, contract, or other discounts do not apply to the special off-the-shelf service.

Plotter accessories

Glossy presentation paper	page 122
Blank plotter paper	page 122
Transparency film	page 122
Paper pens	page 125
Transparency pens	page 125
Pen storage	page 128
Transparency kits	page 128
Graphics software	pages 60-61
Dust covers/carrying cases	pages 100-101



92171S

Desktop printer stand

stores your paper conveniently inside for easy access and improved paper flow. See page 104 for more details.

(1-2)	\$59.00 ea.
(3+)	53.00 ea.

a price you can afford

Six-pen plotter for your professional computer

The 7475 combines the advanced technology of the smaller 7470 with two new capabilities.

- You can use either of two paper sizes for colorful, quality graphics.
Size A/A4 8.5 x 11 inches (210 x 297 mm). Adds color and interest to your reports and visual presentations.
Size B/A3 11 x 17 inches (297 x 420 mm). Especially well-suited for time lines, PERT charts, schematics, engineering drawings and other applications when you need to show added visual details.

Easy operation. The 7475's simple, easy-to-use front control panel *almost* makes your charts for you! With it you can:

- test pen colors before you plot
- check the paper size for which the plotter is set
- command that the chart automatically come to the front of the plotter so you can see what you've plotted—then

continue plotting exactly where the plot ended previously

- rotate your charts 90 degrees to fit different formats
 - test with a built-in demonstration plot
 - digitize or scale points
- Additionally, the 7475 contains more than 50 simple yet powerful HP-GL instruc-

tions (see 7470 description) and 19 character sets, including:

- ISO European
- Katakana
- ASCII
- Roman 8 extensions

7475A Opt. 001

(RS232C) \$1895.00 ea.*
(for cables see page 18)

Opt. 002

(HP-IB) \$1895.00 ea.*
(for cables see pages 11, 18)

*Sorry, but quantity, contract, or other discounts do not apply to the special off-the-shelf service.

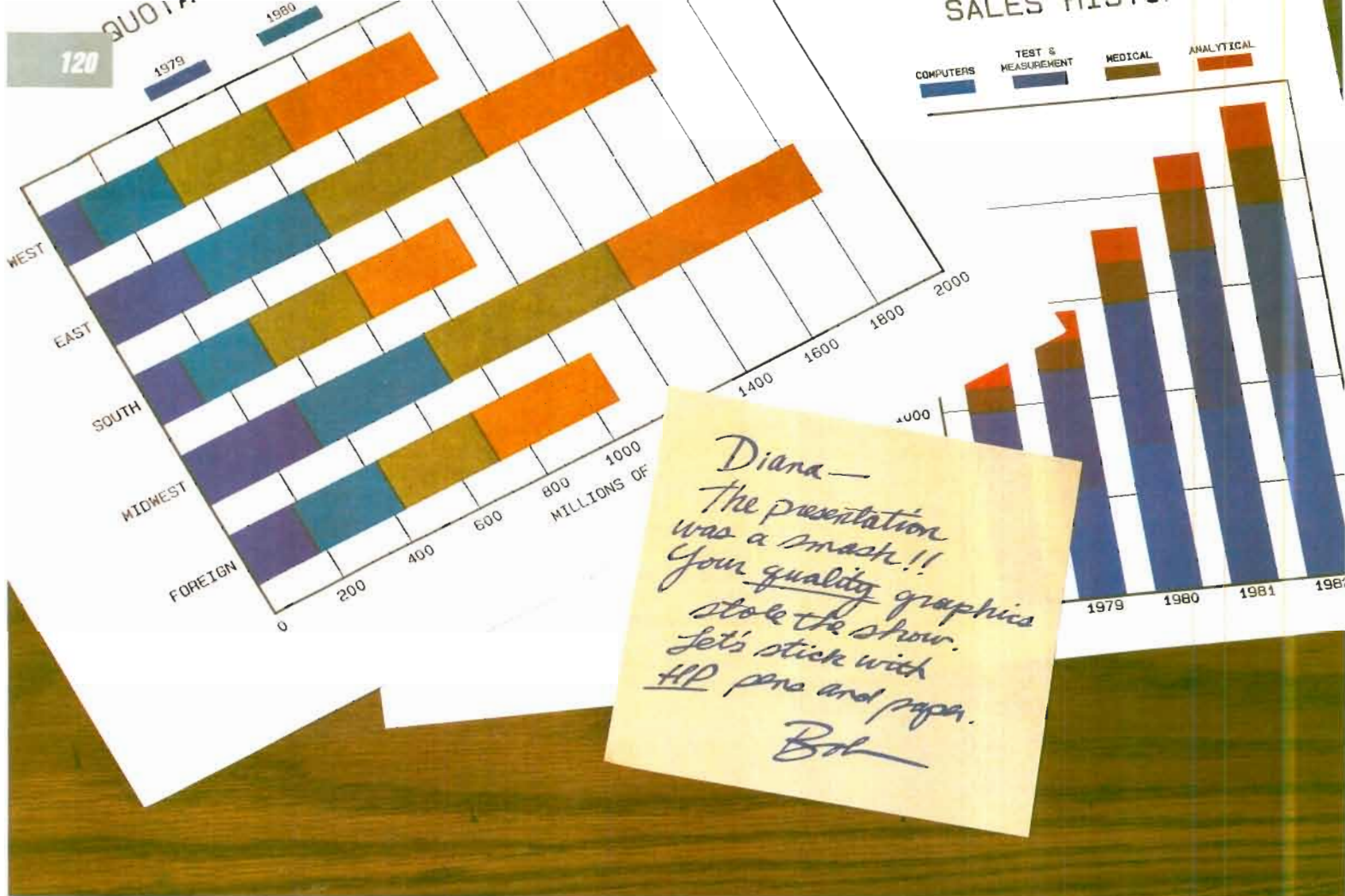
Add drafting capability to your HP 7475A Plotter!

Now the HP 7475A plotter can help with many of your design/drafting needs—drafting pens (page 127), a special HP 7475A drafting pen carousel (page 127), and polyester film A/A4 and B/A3 sizes (page 123) are now available for the HP 7475A. The low-cost HP 7475A with drafting capability is the ideal plotter for PC CAD systems and other applications requiring high quality.

Drafting pens and polyester films offer several advantages for your technical applications—superior line quality, translucent media, permanent copies, opaque ink, and a choice of three line widths. Because of these characteristics, you'll want to use drafting pens for:

- engineering diagrams
- overlays
- charts for microfilm reduction
- charts requiring frequent handling
- archival copies
- camera-ready art





Supplies make the difference— choose them carefully!

Use HP media for top-quality graphics:

- **Extended pen life**—smooth surface of HP media reduces pen wear.
- **Minimal fading and color changes**—we carefully test chemical reactions between HP papers and inks.
- **Minimal distortion**—HP papers effectively resist slippage, which can cause broken, uneven lines.

Whether your application is drafting or business, HP has the solution you need.

For your business graphics needs, try our:

- **Glossy presentation paper** for vivid, professional-looking graphics that will impress your clients and superiors.
- **Overhead transparency film** for high-quality projected graphics. HP's quick-drying film lets you go directly from the plotter to the projector.

- **Regular plotter paper** that's ideal for your everyday graphics needs.

For your drafting applications, try our:

- **Polyester film** for your final-quality, diazo-reproducible, and permanent storage needs.
- **Vellum** for your final-quality, diazo-reproducible needs.
- **Tracing bond** for your preliminary drawing, and diazo-reproducible review copies.



Copier paper



HP paper

See the difference HP paper makes. The comparison photos at left were made using the American Optical System at 18.75 magnification. The plots were made on a 7470A Plotter at 20 cm/s with a .3mm blue pen.

Plotter supplies compatibility guides

Choose the best combination of supplies for your plotter and application.

Use the handy guides below to select the type of pen and paper you need, then see the following pages for ordering information. Remember, exceptional plots are the combined result of an excellent plotter and excellent supplies.

Media and pen compatibility

Use the guide below to select the right type of plotter pen for your application.

Media type	Fiber-tip pens		Drafting pens		Rollerball pens
	Paper	Transparency	Refillable	Disposable	
Blank paper	•			•	•
Transparency film		•			
Tracing bond					•
Vellum			•	•	
Polyester film			•		
Bar code	•				
Presentation		•			



See our low-cost plotters, pages 118–119.

Media sizes

Look for these media size codes on the following pages. Each code corresponds to media dimensions listed below.

ANSI	Dimensions inches millimeters	A 8.5 × 11 216 × 279	B 11 × 17 279 × 432	D 22 × 34 559 × 864	E 34 × 44 864 × 1118
ISO	Dimensions inches millimeters	A4 8.27 × 11.69 210 × 297	A3 11.69 × 16.54 297 × 420	A1 23.39 × 33.11 594 × 841	A0 33.11 × 46.81 841 × 1189

Computer
Museum

Media and plotter compatibility

Use the guide below to identify the media types and sizes supported by your plotter.

Plotter model number	Blank plotter paper size								Vellum size								Polyester film size								Tracing bond size				Overhead transparency film size					
	A	A4	B	A3	D	A1	E	A0	11" or 297 mm Roll	24" & 36" rolls	A	A4	B	A3	D	A1	E	A0	24" & 36" rolls	A	A4	B	A3	D	A1	E	A0	24" & 36" rolls	D	A1	E	A0	A	A4
7090A	•	•	•	•																												•	•	
7220A/C, 7221A/B/C	•	•	•	•							•	•	•	•							•	•	•	•								•		
7220S/T, 7221S/T	•	•	•	•					•		•	•	•	•							•	•	•	•								•		
7225A/B	•	•																														•		
7470A	•	•																														•		
7475A	•	•	•	•																	•	•	•	•							•	•		
7550A	•	•	•	•							•	•	•	•							•	•	•	•							•	•		
7580A/B	•	•	•	•	•	•					•	•	•	•	•	•					•	•	•	•	•	•		•	•					
7585A/B	•	•	•	•	•	•	•	•			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•				
7586B	•	•	•	•	•	•	•	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•				
9872A/B/C	•	•	•	•							•	•	•	•							•	•	•	•							•			
9872S/T	•	•	•	•					•		•	•	•	•							•	•	•	•							•			

Plotting media

Paper

Glossy presentation paper★

Impress your clients and your boss at your next meeting with reports and handouts containing high-quality crisp graphics. HP's new heavy-weight, gloss-finish presentation paper provides the capability for producing professional looking reports. Use with HP overhead transparency pens.

Media size*	Part no.	Qty/pkg	Price/pkg
A	9280-0640	50 sheets	\$ 8.00 ea.
A4	9280-0642	50 sheets	8.00 ea.
B	9280-0641	50 sheets	14.00 ea.
A3	9280-0643	50 sheets	14.00 ea.

Blank plotter paper★

HP's strict specifications require this paper to be an opaque medium with the correct mixture of wood pulp and rag fibers. This provides the correct smoothness for clear line definition and minimizes skipping, bleeding and feathering. Use with HP fiber-tip and rollerball pens.



For automatic sheet-feed plotting, see the HP 7550A media catcher tray on page 129.

Media size*	Part no.	Qty/pkg	Price/pkg
A	9280-0589	50 sheets	1-4 pkgs \$5.50 ea.
			5+ 4.95 ea.
	9280-0517	300 sheets	\$21.00 ea.
A4	9280-0588	50 sheets	1-4 pkgs \$5.50 ea.
			5+ 4.95 ea.
	9280-0519	300 sheets	\$21.00 ea.
B	9280-0614	50 sheets	\$10.00 ea.
			\$34.00 ea.
A3	9280-0615	50 sheets	\$10.00 ea.
			\$34.00 ea.
D	9280-0527	200 sheets	\$90.00 ea.
A1	9280-0528	200 sheets	\$90.00 ea.
E	9280-0587	150 sheets	\$140.00 ea.
A0	9280-0590	150 sheets	\$140.00 ea.

Blank roll paper

For use on HP's 7220, 7221, and 9872 S and T models only.

HP's blank roll paper has been especially designed and tested to provide optimum performance when used with HP's paper-writing pens.

This paper has been designed and tested for the 7586B. The end of each roll has been specially attached to the paper core to ensure easy release of the last page during plotting and to prevent paper unwinding from the core.

Size*	Part no.	Qty/pkg	Price
English 11.69 in. × 200 ft.	9280-0618	1 roll	1-5 rolls \$19.00 ea. 6+ rolls 14.00 ea.
Metric 297mm × 61m	9280-0619	1 roll	1-5 rolls \$19.00 ea. 6+ rolls 14.00 ea.

Size*	Part no.	Qty/pkg	Price
24 in. × 150 ft.	9280-0638	1 roll	\$45.00 ea.★
36 in. × 150 ft.	9280-0637	1 roll	\$50.00 ea.★

Transparencies

Overhead transparency film



With HP's fast-dry transparency film, ink dries quickly, minimizing bleeding and smearing.

Plotter	Media size*	Qty	Part no.	Price
7470A	A	50 sheets	9270-1126	(1-9 pkgs) \$50.00 ea.★ (10+) 45.00 ea.
			9270-1181	(1-9 pkgs) \$50.00 ea.★ (10+) 45.00 ea.
7475A/ 7550A/ 7090A	A4	50 sheets	9270-1182	(1-9 pkgs) \$50.00 ea.★ (10+) 45.00 ea.
			9270-1128	(1-9 pkgs) \$60.00 ea. (10+) 54.00 ea.

*See media size guide on page 121 for further information.

★For location of dealer nearest you, call: 800-FOR-HPCC (800-367-4772).

Drafting media

Tracing bond ★

This lightweight tracing bond performs at its best when used with rollerball pens.

Tracing bond is an uncoated, untreated and economical alternative to vellum. Use it when you need:

- Fast plotting capability of rollerballs (60 cm/sec)
- Consistent line width
- Diazo reproducible plots
- Low abrasion media
- Check plots and preliminary drawings, not for high-quality final plots.

Media size*	Part no.	Quantity/pkg.	Price/pkg.
D	9280-0600	150 sheets	\$135.00 ea.
A1	9280-0599	150 sheets	\$135.00 ea.
E	9280-0598	150 sheets	\$245.00 ea.
A0	9280-0597	150 sheets	\$245.00 ea.

Vellum ★

This vellum provides optimum performance with refillable and disposable drafting-style pens.

HP vellum has a surface coating for increased smoothness and ink receptivity. It is also treated to add strength and transparency. Use this vellum when you need:

- Relatively permanent documents
- Less expensive media than polyester film
- Diazo reproducible media

Media size*	Part no.	Quantity/pkg.	Price/pkg.
A	9280-0601	150 sheets	\$22.00 ea.
A4	9280-0603	150 sheets	\$22.00 ea.
B	9280-0602	150 sheets	\$39.00 ea.
A3	9280-0604	150 sheets	\$39.00 ea.
D	9280-0529	150 sheets	\$160.00 ea.
A1	9280-0530	150 sheets	\$160.00 ea.
E	9280-0593	150 sheets	\$330.00 ea.
A0	9280-0594	150 sheets	\$330.00 ea.
24 in. x 150 ft.	9280-0635	1 roll	\$75.00 ea.
36 in. x 150 ft.	9280-0636	1 roll	\$90.00 ea.

Polyester film ★

HP's double-matte, 3-mil film was specifically chosen to provide optimum performance when used with HP's refillable drafting pens.

This finely coated, translucent media minimizes pen and machine wear and maximizes line quality. Use this film when you need:

- Dimensionally stable media
- Close tolerance, high accuracy plots
- Camera-ready art
- Master copies which will be handled repeatedly
- Media that will not tear, crack, peel or fade under normal use
- Clear and sharp quality reproductions
- Plots with distinct continuous lines and virtually no beading, bleeding or feathering

Media size*	Part no.	Quantity/pkg.	Price/pkg.
A	9280-0605	50 sheets	\$30.00 ea.
A4	9280-0608	50 sheets	\$30.00 ea.
B	9280-0607	50 sheets	\$58.00 ea.
A3	9280-0606	50 sheets	\$58.00 ea.
D	9280-0526	50 sheets	\$230.00 ea.
A1	9280-0525	50 sheets	\$230.00 ea.
E	9280-0591	50 sheets	\$435.00 ea.
A0	9280-0592	50 sheets	\$435.00 ea.
24 in. x 150 ft.	9280-0634	1 roll	\$200.00 ea.
36 in. x 150 ft.	9280-0633	1 roll	\$300.00 ea.

Special application media

Bar code paper ★

Especially designed for use on 7470A to provide optimum readability of HP 41-generated bar codes. Please see page 31 for bar code information and pages 11 and 19 for HP-IL cables.

Media size*	Part no.	Quantity/pkg.	Price/pkg.
A	9280-0616	50 sheets	\$16.00 ea.
A4	9280-0617	50 sheets	\$16.00 ea.

Note: Use black paper-writing pens only (0.3mm width).

*See media sizes guide on page 121 for further information.

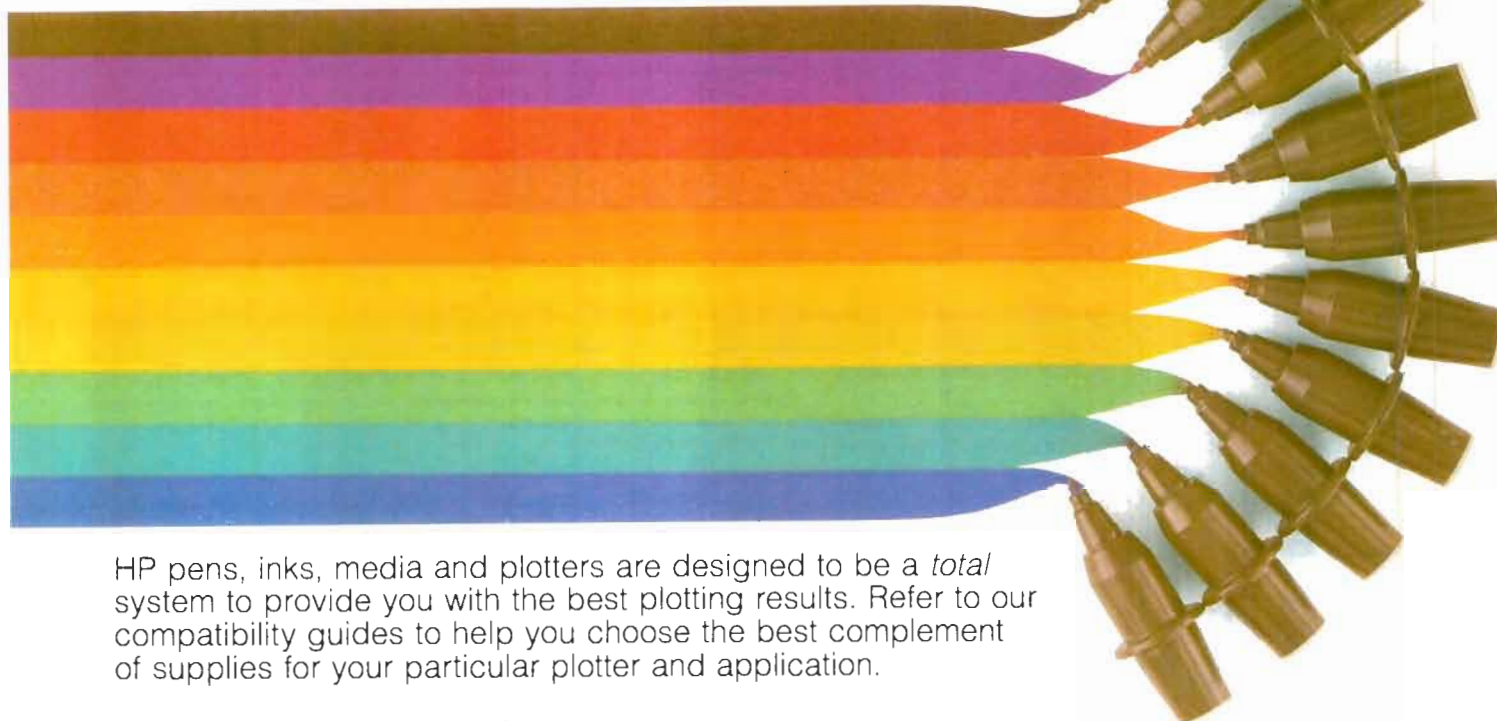
★ For location of dealer nearest you, call: 800-FOR-HP (800-367-4772).

24-Hour recording paper

For use with the 7090A Measurement Plotter when using the 24-hour recording application.

Media size*	Part no.	Quantity/pkg.	Price/pkg.
A	9280-0650	50 sheets	\$16.00 ea.
A4	9280-0652	50 sheets	\$16.00 ea.
B	9280-0651	50 sheets	\$28.00 ea.
A3	9280-0653	50 sheets	\$28.00 ea.

Plotter pens



HP pens, inks, media and plotters are designed to be a *total* system to provide you with the best plotting results. Refer to our compatibility guides to help you choose the best complement of supplies for your particular plotter and application.

Pen life and plot quality are dependent on matching the pens with the media. Therefore, we manufacture our own pens and select our media carefully.

Using HP pens and media assures you of:

- Low abrasion paper matched to our pen tips and ink combinations for increased pen life.
- Smooth surface for consistent lines.
- Paper fiber content and type strictly specified to prevent fibers from pulling ink outside of trace.
- No watermarks on paper to interfere with pen writing.

HP international pen symbols help you identify pen types

Watch for HP's new international pen symbols on HP pen packages and carousels. These symbols are designed to aid you in selecting the right carousel for your pens.



Paper



Transparency



Rollerball



Refillable



Disposable

Be sure to see our selection of carousels on page 129.

Pen and plotter compatibility

Use the guide below to select the pens best suited to your plotter.

Plotter model no.	Fiber-tip pens		Disposable drafting pens	Refillable drafting pens		Rollerball pens
	Paper	Transparency	Long body	Short body	Long body	Long body
7090A	•	•				
7220	•	•		•		
7221	•	•		•		
7225	•	•				
7470	•	•				
7475	•	•		•		
7550	•	•	•		•	•
7580	•		•		•	•
7585	•		•		•	•
7586	•		•		•	•
9872	•	•		•		
Other (7200, 7202, 7203, 7210, 9125, 9862)	•					

Fiber-tip pens

Paper writing pens (newer plotters)



For use with 7090, 7220, 7221, 7225, 7470, 7475, 7550, 7580, 7585, 7586 and 9872 graphics plotters.

Single-color pen packages (5 pens/pkg.)

Narrow line width (.3 mm)



Wide line width (.7 mm)

5060-6784 (Red)		5060-6893 (Red)
5060-6785 (Blue)		5060-6891 (Blue)
5060-6786 (Green)		5060-6892 (Green)
5060-6787 (Black)		5060-6890 (Black)

*Quantity (1-4 pkgs) \$7.00 pkg ★
Discount (5+) \$6.30 pkg

Multi-color pen packages

Narrow line width (.3 mm)



Wide line width (.7 mm)

5060-6810 4 pens/pkg 1 each of:		5060-6858 4 pens/pkg 1 each of:
Red		Red
Blue		Blue
Green		Green
Black		Black

*Quantity (1-4 pkgs) \$5.60 pkg ★
Discount (5+) \$5.04 pkg

Narrow line width (.3 mm)



Wide line width (.7 mm)

5060-6894 6 pens/pkg 1 each of:		5060-6895 6 pens/pkg 1 each of:
Burnt Orange		Burnt Orange
Brown		Brown
Violet		Violet
Turquoise		Turquoise
Gold		Gold
Lime Green		Lime Green

*Quantity (1-4 pkgs) \$8.40 pkg ★
Discount (5+) \$7.56 pkg

Paper writing pens (older plotters)



For use with 7200-7203, 7210, 9125, and 9862 plotters.

Single-color pen packages (5 pens/pkg.)

5081-1190 (Red)		5081-1192 (Green)
5081-1191 (Blue)		5081-1193 (Black)

*Quantity (1-4 pkgs) \$5.50 pkg
Discount (5+) \$4.95 pkg

Overhead transparency pens



For use with 7220, 7221, 7225, 7470, 7475, 7550, and 9872 graphics plotters.

Single-color pen packages (5 pens/pkg.)

Narrow line width (.3 mm)



Wide line width (.6 mm)

5061-5012 (Red)		5061-5022 (Red)
5061-5016 (Blue)		5061-5026 (Blue)
5061-5015 (Green)		5061-5025 (Green)
5061-5010 (Black)		5061-5020 (Black)

*Quantity (1-4 pkgs) \$7.00 pkg ★
Discount (5+) \$6.30 pkg

Multi-color pen packages (4 pens/pkg.)

Narrow line width (.3 mm)



Wide line width (.6 mm)

5060-6818 1 each of:		5060-6819 1 each of:
Red		Red
Blue		Blue
Green		Green
Black		Black

5060-6834 1 each of:		5060-6835 1 each of:
Orange		Orange
Brown		Brown
Violet		Violet
Black		Black

*Quantity (1-4 pkgs) \$5.60 pkg ★
Discount (5+) \$5.04 pkg

Transparency ink solvent

5060-6828 container of 1 fluid ounce (29.6ml). For rejuvenating dry pens.

Price \$4.00 ea. ★

*Quantity discounts apply to purchase of single part numbers only.

★ For location of dealer nearest you, call: 800-FOR-HPPC (800-367-4772).

CALL US WITH YOUR PURCHASE ORDERS AND



Drafting pens

Now you have a choice!

HP now offers both disposable and refillable long body drafting pens. Use the following guide to select the drafting pen features best suited for your application.

Long body drafting pen comparison guide

Plotter	Drafting Pen	Paper	Media		Recommended plotting speed	Available line widths	Pen cleaning required
			Vellum	Polyester			
7550	Disposable	•	•		20cm/s	2	No
758X*	Disposable	•	•		30cm/s	2	No
7550/758X*	Refillable		•	•	15cm/s	6	Yes

*Includes HP 7580A/B, HP 7585A/B, and HP 7586B Drafting Plotters

End messy pen cleaning today! Try our new, disposable drafting pens

Designed for the HP 7580A/B, HP 7585A/B, HP 7586B, and the HP 7550A Drafting Plotters.

Easy to use. Just insert the pen point into the liquid-ink cartridge, screw on an adapter, place pens in the carousel, and you're ready to plot! *No pen cleaning is required.*

Faster speed. HP's new disposable drafting pens write at 30 cm/s on the HP 758X Plotters and at 20 cm/s on the HP 7550 Plotter. That means faster throughput for you!

Draw on vellum or paper. These pens are **not** designed for use on polyester film, or for area-fill applications.

Select colors and line widths. Choose from black, blue, green, red and either 0.3mm or 0.6mm line widths to make detailed drawings and to differentiate your data.



NEW Disposable drafting pens—long body

Single-color pen packages (4 pens/pkg)*

Fine line width (0.3mm approximately)		Wide line width (0.6mm approximately)
5061-7565 Red		5061-7575 Red
5061-7563 Blue		5061-7573 Blue
5061-7564 Green		5061-7574 Green
5061-7562 Black		5061-7572 Black

Quantity (1 to 4 pkgs) \$22.00 ea.
Discount (5+ pkgs) 19.80 ea.

Multi-color pen packages (4 pens/pkg, 1 of each color)*

Fine line width (0.3mm approximately)		Wide line width (0.6mm approximately)
5061-7566	See colors above	5061-7576

Quantity (1 to 4 pkgs) \$22.00 ea.
Discount (5+ pkgs) 19.80 ea.

Reusable adapter and pen cap assemblies

5061-7578	Package of 4 adapter and pen cap assemblies	\$8.00/pkg.
-----------	---	-------------

*Reusable adapters (5061-7578) are required for operation.

New carousel offers automatic plotting speeds of 30 cm/s

NEW Take advantage of the faster plotting speeds available with our new disposable pens. A disposable drafting pen carousel has been designed that defaults to 30 cm/s and pen force 2 automatically! No programming or front-panel controls are needed. For use with 7580B/7585B/7586B Plotters (serial prefix #2444 or above).

07580-60240 Optional disposable drafting pen carousel \$70.00 ea.

Achieve the same fast speeds with refillable carousels

Disposable drafting pens can be used in the current refillable drafting pen carousels for the HP 7580A/B, 7585A/B, 7586B, and 7550 Plotters. These carousels default to 15 cm/s. For faster plotting speeds, use the plotter's front-panel controls or a program command to manually set the pen speed to 30 cm/s on the HP 758X or 20 cm/s on the HP 7550. The

pen force must be set to two on either plotter for the pen to operate correctly.

07580-60081 Refillable drafting pen carousel for use with 758X Plotters \$70.00 ea.

07550-60053 Refillable drafting pen carousel for use with 7550 Plotter \$50.00 ea.

★ For location of dealer nearest you, call: 800-FOR-HP (800-367-4772).

Buy these products at your local HP dealer.

Or order direct: 800-538-8787 (CA 408-738-4133).

Get more for less with new start-up pen kit

NEW Save money and start plotting immediately with our new disposable drafting pen kit for HP 758X Plotters.† Receive the following items at a 35% savings over the combined individual prices!

- Four narrow-line (~0.3mm) and four wide-line (~0.6mm) disposable drafting pens (black, blue, green, and red).
- Four narrow-line (~0.3mm) black disposable drafting pens.
- Disposable drafting pen carousel for 758X Plotters only.
- Eight adapters and caps.
- Instructions for pen care and use.

5061-7577 Start-up pen kit \$95.00★

†For HP 758X Plotters serial no. prefix 2444 and above only.



**\$152 VALUE
NOW \$95**

HP's new disposable drafting pens, adapter and pen cap assemblies, and drafting pen carousel can be purchased separately (see opposite page) or as part of our money-saving, start-up pen kit

Refillable drafting pens

HP refillable drafting pens are ideal for detailed, final-quality plots on polyester film and vellum. Use these pens when you need the following features:

- High-quality precision plotting
- Six line widths
- Plots on polyester film or vellum
- Reusable tungsten carbide points for long wear

Now your 7475A can produce drafting quality graphics

NEW 07475-60030 Drafting pen carousel enables your 7475A to generate top-quality design graphics as well as business graphics. When paired with our new carousel and short-body refillable drafting pens (see chart at right) the 7475A becomes especially valuable as a B-size graphics device offering:

- Superior line quality for engineering diagrams and camera-ready art
- Plotting on polyester film
- Three line widths
- Supported by top-selling CAD software, including Autocad, Cadplan, and Microcad

07475-60030 Drafting pen carousel \$30.00 ea.★



Refillable drafting pens—short body



5061-5060 Drafting pen, short body. For use with your 7220, 7221, and 9872 Graphics Plotters. Use with plotter points listed below. Two pen bodies and pen boots per package.

Price \$20.00 pkg



5061-8119 Drafting pen, short body. For use with the 7475A Plotter. Use with plotter points listed below. Two pen bodies per package.

Price \$14.00 pkg★



Plotter points (tungsten), use with drafting pen, short body.

9300-0955 Point size, .18 mm*

9300-0956 Point size, .25 mm*

9300-0957 Point size, .35 mm††

9300-0958 Point size, .50 mm††

9300-0959 Point size, .70 mm††

9300-0960 Point size, 1.00 mm

Price \$29.00 ea.★

*For special fine-line plotting only. These narrow pen tips require more cleaning and care than wider pen tips. Therefore, we do not recommend these fine-line tips for general use on



Refillable drafting pens—long body



07580-60025 Drafting pen, long body. For use with your 7550, 7580, 7585, and 7586 Graphics Plotters. Use with plotter points listed below. One pen body per package.

Price \$10.50 pkg★



Plotter points (tungsten), use with drafting pen, long body.

9260-0742 Point size, .18 mm*

9260-0741 Point size, .25 mm*

9260-0588 Point size, .35 mm

9260-0744 Point size, .50 mm

9260-0579 Point size, .70 mm

9260-0743 Point size, 1.00 mm

Price \$29.00 ea.★

the 7550, 7580, 7585, and 7586 Plotters.
††Recommended points for use with the 7475A plotter.

Rollerball pens



Use these pens with your 7550, 7580, 7585 and 7586 Plotters when you need the following features:

- fast plotting speed (60 cm/s)
- uniform line width
- ease of use

We recommend you use these pens for preliminary drawings or check plot applications. Use on HP's blank plotter paper for single-copy needs or with tracing bond for diazo reproducible check plots or preliminary drawings.

Single-color pen packages

(4 pens/pkg)
Narrow line width (.3mm)



5061-5034 (Red)

5061-5036 (Blue)

5061-5035 (Green)

5061-5033 (Black)

**Quantity (1-4 pkgs) \$14.00 pkg★

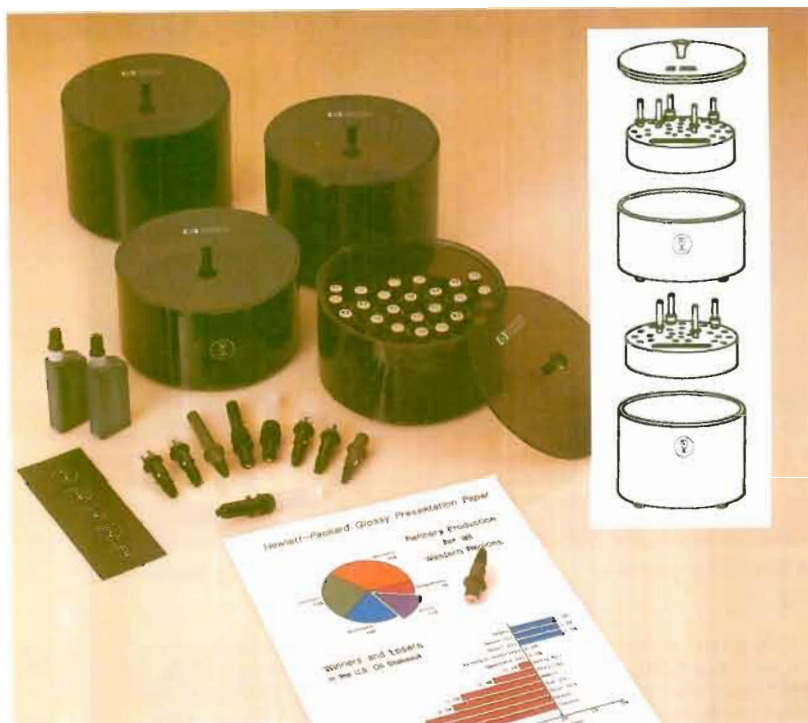
Discount (5+) 13.00 pkg

Drafting supplies

Part no.	Description	Price
9282-0905	Cleaning syringe (used to clean drafting pens)	\$12.00 ea.★
9282-0908	Drafting pen cleaning solution 5.2-oz. bottle	\$ 6.25 ea.★
9260-0596	Drafting ink, .75-oz. bottle, black	\$ 2.50 ea.★

**Quantity discounts apply to purchase of single part numbers only.

Plotter pen storage



HP's 6-inch diameter modular organizer stores up to 30 plotter pens—60 when stacked!

Pen organizers—a space-saving solution for your graphics workstation

Now—an elegant, yet practical solution for plotter pen storage. Our 6-inch diameter modular pen organizer stores up to 30 pens—60 when stacked.

As you add pens—fiber-tip, drafting, or rollerball—the modular units can be stacked to save valuable desktop space. And custom labels, with HP's international pen symbols, allow you to quickly identify the contents.

We offer two sizes (for short and long plotter pens), which can be mixed and matched according to your needs.

Pens are stored vertically for easy reach and are held securely by high-density foam. Made of sturdy smoked acrylic plastic, the pen organizers are an attractive addition to any office setting.

92177T Short organizer	(1-2)	\$43.75 ea.★
	(3-9)	39.75 ea.
	(10+)	37.25 ea.
92177U Long organizer	(1-2)	\$46.75 ea.★
	(3-9)	43.50 ea.
	(10+)	41.25 ea.



Plotter pen holder

07225-40054 This sturdy holder holds up to four fiber-tip, rollerball or short-body drafting pens.

Price \$3.25 ea.★

Plotter supplies kits

These kits contain the material you need to prepare quality graphics on your choice of paper or overhead transparency film.

They are packaged in a convenient storage box with complete instructions on how to create clear, crisp graphs and how to care for the pens and media for optimum results.

Paper and pen kit★

For use on all HP plotters.

- 300 sheets of blank plotter paper
- 20 fiber-tip paper pens in 10 colors (two line widths)
- Pen holder to store four pens

English A size media	5061-5070	\$55.00
Metric A4 size media	5061-5071	55.00

Overhead transparency kits

Description	HP part no.	Price
HP 7470	5061-7561	\$80.00★
<ul style="list-style-type: none"> • 50 sheets of paper-backed A-size transparency film • 16 pens in two tip widths & 7 colors 		
HP 7475, 7550, and 7090		
<ul style="list-style-type: none"> • 50 sheets of paper-backed A or A4 size transparency film • 16 pens in 2 tip widths and 7 colors 	5061-7583	\$80.00★
English A size media	5061-7584	80.00★
Metric A4 size media		
HP 7220, 7221 and 7225 with velocity select and 9872:	5061-7560	\$95.00
<ul style="list-style-type: none"> • 200 sheets of A-size transparency film • 16 pens in two tip widths & 7 colors 		

★ For location of dealer nearest you, call: 800-FOR-HPCC (800-367-4772).



Accessories

Graphics accessories

Item	Plotter	Description	Part no.	Price
Carousels	7090A	Fiber-tip pen carousel (paper and transparency)	5061-5080	\$30.00 ea.
	7475A	Fiber-tip pen carousel (paper and transparency)	5061-5080	\$30.00 ea.★
		Refillable drafting pen carousel	NEW 07475-60030	30.00 ea.★
	7550A	Transparency pen carousel	07550-60050	\$50.00 ea.★
		Fiber-tip pen carousel	07550-60051	50.00 ea.★
		Rollerball pen carousel	07550-60052	50.00 ea.★
		Refillable pen carousel	07550-60053	50.00 ea.★
	7580, 7585, 7586	Fiber-tip pen carousel	07580-60035	\$70.00 ea.★
		Refillable pen carousel	07580-60081	70.00 ea.★
		Rollerball pen carousel	07580-60082	70.00 ea.★
		Disposable pen carousel	NEW 07580-60240	70.00 ea.★
Adapters	7550, 7580, 7585, 7586	Reusable adapter and pen cap assemblies (4 of each/pkg)	NEW 5061-7578	\$ 8.00/pkg★
Replacement boots	7475A	Boots for refillable drafting pen carousels (6/pkg)	NEW 07475-60038	\$10.00/pkg★
	7220, 7221, 9872	Boots for short-body drafting pens (2/pkg)	9300-0967	\$ 6.25/pkg
	7580, 7585, 7586	Boots for fiber-tip and rollerball pen carousels (8/pkg)	07580-60182	\$ 9.00/pkg★
		Boots for drafting pen carousels (8/pkg)	07580-60181	9.00/pkg★
Digitizing sights	For use with all plotters	Straight sight	09872-60066	\$50.00 ea.★
	7580, 7585, 7586	Angled view sight	07585-60191	80.00 ea.★
Cleaning supplies	7550, 7580, 7585, 7586	Gritwheel brush	8710-1386	\$ 4.90 ea.★
	For use with refillable drafting pens	Cleaning syringe	9282-0905	\$12.00 ea.★
		Cleaning solution	9282-0908	4.90 ea.★
Overlays	17623A Graphics tablet	Overlay	4114-1033	\$ 8.00 ea.
	9111A/T Graphics tablet	Overlays (3/pkg)	7121-0988	\$39.00/pkg
	9874 Digitizer	Individual blank key overlay (minimum order of 5)	7120-7105	\$ 1.70 ea.
		Package of 5 hold-down sheets	09874-87000	21.00/pkg
		Hold-down magnet	09874-67924	11.00/pkg
Take-up cores	7586	24-in. (609.6 mm)	9300-1068	\$ 2.00 ea.★
		36-in. (914.4 mm)	9300-1069	3.00 ea.★
Stylus	17623A, 9111A/T	Stylus refills (2 inkless, 3 ink cartridges)	09111-68701	\$ 9.50 ea.
	9874	Ink cartridge for stylus	Use Papermate standard ball point refill (Papermate part no. 46301, black ink, fine line) or equivalent.	
Print heads	7240, 7245	Thermal print head	07245-60001	\$82.50 ea.

7550A Media handling accessories★

For use with HP's new 7550A Graphics Plotter—the automatic sheet feed plotter for unattended operation of cut paper sheets.

Description	HP Part no.	Price
A-size media loading tray	07550-60152	\$50.00
A4-size media loading tray	07550-60158	\$50.00
B-size media handling kit	17525A	\$160.00
B-size media loading tray		
B/A3 media catcher tray		
B-size plotter paper, 50 sheets		
A3-size media handling kit	17526A	\$160.00
A3-size media loading tray		
A3/B media catcher tray		
A3-size plotter paper, 50 sheets		

★ For location of dealer nearest you, call 800-FOR-HP (800-367-4772)

HP's 7550A Media catcher tray for automatic sheet feed plotting.





You know that the up-time of your equipment directly generates savings through increased productivity. The reliability of **HP magnetic media** lets you cash in on these savings. Our products also minimize the wear of both media and read/write heads, which means less maintenance and lower service costs.

Tests on HP drives show significant differences between media in terms of wear and data integrity. Only media meeting very high specifications are approved for our customer shipments. With HP products, you can feel confident that you will obtain consistent, high-quality results and an increase in overall performance.

HP engineers spend many person-months designing and selecting the optimum (not just "compatible") media for their drives. Many ven-

dors offer media "compatible" with some of HP's tape or disc drives; however, media from HP has been designed, produced and/or selected based on its superior performance characteristics on HP drives.

3.5-inch Microfloppy discs	page 131
3.5-inch Microfloppy disc accessories	page 132
5.25- and 8-inch Flexible discs	page 134
5.25- and 8-inch Flexible disc accessories ...	page 135
Cleaning kits and accessories	page 136
Rigid discs and accessories	page 138
Tape cartridges and accessories	page 140
Magnetic tape and accessories	page 142

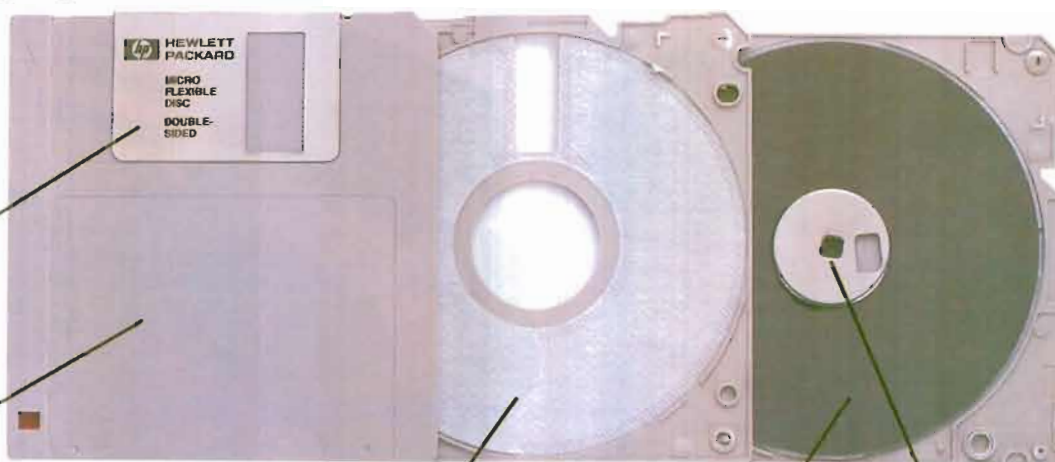
Microfloppy discs

Will not fold, spindle or mutilate

Exclusive drive-media monitor tracks each disc's use and tells you when to replace it.

Automatic protective metal guard slides over the read/write opening when disc is not in use.

Hard polymer housing protects media from damage due to jacket bending or improper filing.



Two protective disc liners clean and remove debris, ensuring greater surface durability and more resistance to wear.

New media offers 710 Kb of formatted capacity

Hard disc center permits accurate and reliable high-density recording because the disc is centered precisely on the read/write head.

HP microfloppy disc: You only have to tell it once and it remembers forever

The HP 3.5-inch microfloppy is regarded as the industry choice by experienced customers. Why? Because HP provides you with the highest quality media. Each month HP engineers randomly test media samples received from our suppliers. So rigorous is the testing to insure all of the highest HP standards of quality are met, that it takes about two weeks to complete. Products not passing all the tests do not receive the HP logo. Quality is what you expect and receive from HP products.

Providing safety features against data loss is one of the many ways HP ensures disc quality and reliability. HP has enclosed the media in a hard, plastic case with an automatic shutter for data protection and easy handling. A write-protect tab guards against accidental erasure and a metal center firmly positions the disc to read and write accurately and reliably.

An added benefit is a unique electronics monitor that tracks each disc's useful life and tells you when to replace it.

HP microfloppy discs provide you with added value. For example, each disc:

- consistently meets the industry's highest engineering standards
- is micro-computer tested to measure quality without batch-to-batch variation
- must be 100% error free
- designed to provide optimum signal quality with HP disc drives
- provides precision performance year after year

HP microfloppy discs may be used on non-HP products where reliable, high performance discs are desired. Contact your local authorized dealer. For larger end user and OEM quantity amounts, contact HP using our toll free number, 800-538-8787. Ca., Alaska and Hawaii: 408-738-4133.

3.5-inch Microfloppy discs

Product no.	Description	Systems	Price
92191A	Box of 3.5 in., 0.27 Mb (formatted capacity) single-sided, auto-shutter unformatted.	HP 9121D/S and 9133A,B, 9133V/XV Series Disc Drives used with Series 80, 100, 200 Personal Computers.	(1 box of 10 discs) . . . \$54.00 ea. (2-4) 50.00 ea. (5-19) 47.00 ea. (20+) 43.00 ea.
92192A	Box of 3.5 in., 0.71 Mb (formatted capacity) double-sided, auto-shutter, unformatted.	HP 9122D/S, 9133D H L, 9134D, 9153D, and 9114A Series Disc Drives with Series 80, 100, 200 and Handheld Computers.	(1 box of 10 discs) . . . \$69.00 ea. (2-4) 64.00 ea. (5-19) 60.00 ea. (20+) 55.00 ea.

Microfloppy disc definitions

Single-sided: For single head drives, data is recorded on one side only.

Double-sided: For dual head drives, data is recorded on both sides.

Format: The method in which data is organized in a record. Formatted discs are encoded with track and sector information or identifying physical track and sector locations.

The new double-sided media can be used on single-sided drives by using the "format command" to format the disc in the single-sided format.

★ For location of dealer nearest you, call: 800-FOR-HP (800-367-4772).

Microfloppy accessories

Now that you have your system and your 3.5-inch microfloppy discs, get organized with HP's new family of micro disc accessories. All are specially designed to provide protection, organization, and easy retrieval of your 3.5-inch discs.



92191D Micro desktop file.
Capacity: 50 discs.



92191R Roll-top file.
Capacity: 50 discs.

**Genuine
Rosewood**



92191Q Compact file.
Capacity: 25 discs.

Desktop file

The micro desktop file lets you easily protect, store, file 3.5-inch discs. The file allows for flat, horizontal storage of up to 50 discs when closed. Open the smoke-colored acrylic file and your discs flip forward and up for easy access. Built-in divider tabs help organize discs. And a non-metal latch prevents spillage when carrying.

92191D Micro desktop file for 3.5-inch micro flexible discs.

(1 unit)	\$36.00 ea.
(2-4)	33.00 ea.
(5+)	30.00 ea.

Roll-top file

Store up to 50 3.5-inch microfloppies in this handsome roll-top file. The genuine Rosewood cover lends richness to the file, and also slides back and out of the way for easy access. The body is constructed of durable plastic to ensure long-lasting protection with elegant styling. Also features rubber anti-skid feet and built-in disc dividers.

92191R Roll-top file for 3.5-inch discs.

(1 unit)	\$39.00 ea.
(2-4)	36.00 ea.
(5+)	33.00 ea.

Compact File

Designed to provide easy flip-top access to your microfloppies. Each file stores up to 25 3.5-inch discs, with tabbed dividers and index labels for increased organization. Made of durable plastic, the file protects discs from dust, debris and moisture.

92191Q Compact file for 3.5-inch discs.

(1 unit)	\$22.00 ea.
(2-4)	20.00 ea.
(5+)	18.00 ea.



92191E Package of five FlexFiles.
Capacity: 10 discs each.

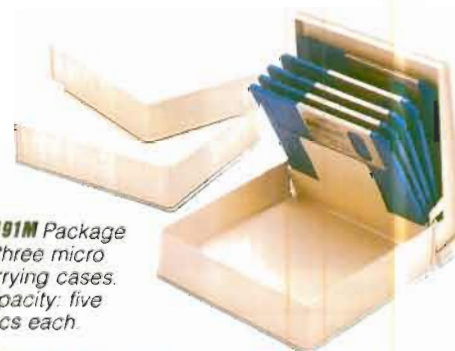
FlexFile storage system

The HP FlexFile's modular interlocking design allows you to add new units as your needs expand, and makes the most of your work space. Individually or in stacks, they can be used vertically or horizontally by simply readjusting the inside disc retaining gate. Open the FlexFile drawer and the discs are automatically flipped forward for easy access. The FlexFile offers sturdy, portable, dust-free protection and takes only seconds

to interlock or separate. Constructed of high-impact polystyrene.

92191E FlexFiles for 3.5-inch microfloppy discs. A package of five FlexFiles. Each FlexFile holds up to 10 discs. Includes adhesive index labels and instructions. Discs not included.

(1 pkg.)	\$37.00 pkg.
(2-4)	34.00 pkg.
(5+)	29.00 pkg.



92191M Package of three micro carrying cases.
Capacity: five discs each.

Carrying case pack

Each convenient pop-open case holds up to five micro discs for easy, safe storage and transport. Self-locking lid snaps shut for extra safety.

92191M Micro carrying case pack for 3.5-inch microfloppy discs.

(Package of 3 cases)	\$10.50
----------------------	---------

★ For location of dealer nearest you, call:
800-FOR-HP (800-367-4772).



92191C Library album case.
Capacity: 20 discs.

Library album case

A perfect way to conveniently store up to 20 micro discs. This case features an attractive cloth-covered slip cover and album with 10 vinyl pages. The pages are static resistant. Filing cards included.

92191C Library album case for 3.5-inch microfloppy discs.
(1-4 cases) \$18.00 ea.
(5+) 15.00 ea.



92191F Portable album.
Capacity: 20 discs.

Portable album file

Microfloppy discs will be protected, organized and easily accessed because of this filing system's unique features. Crimped pockets cushion each disc, preventing wrinkles or bends. The floating axle design eliminates additional stress if the binder is dropped or closed. Discs are kept secure in a vinyl cover with a Velcro® fastener. Easy and fast access and re-filing are aided by color-coded index strips for each pocket. File organiza-

tion is further enhanced with an index on the spine of the album for listing discs. Capacity 20 discs.

92191F Portable album file for 3.5-inch microfloppy discs.
(1 unit) \$43.00 ea.
(2-4) 40.00 ea.
(5+) 37.00 ea.



92191L Package of 20 binder pages.
Capacity: two discs each.

Library album pages

A package of static-resistant vinyl pages for filing microfloppy discs. File cards are included to help identify each disc.

92191L Package of 20 pages for 3.5-inch discs. Capacity 40 discs.
(1 pkg.) \$26.00 pkg.
(2-4) 23.00 pkg.
(5+) 21.00 pkg.



92191P Package of 10 hanging file pages.
Capacity: 4 discs each

Hanging file pages

Protect and organize your valuable microfloppy discs by filing them on any 12.25-inch (311mm) wide suspension frame. These heavy-duty pages are made of sturdy, static-resistant vinyl. File cards are included to help identify each disc.

92191P Package of 10 hanging file pages for 3.5-inch flexible discs, sized to U.S. standard. Capacity 40 discs.
(1 pkg.) \$26.00 pkg.
(2-4) 23.00 pkg.
(5+) 21.00 pkg.



92191T Micro disc case.
Capacity: 10 discs

Micro case

This durable plastic 3.5-inch micro disc case holds 10 microfloppy discs in library-like fashion for easy fingertip retrieval. The disc holder slides open to reveal your discs with step filing. Slide it closed and file snaps shut for library storage or for convenient transport. Disc identification and spine labels included.

92191T Micro disc case for 3.5-inch micro flexible discs.
(1 case) \$7.00 ea.

Note, product names followed by * or ® are trademarks of their respective companies. For a complete listing, see page 158.

★ For location of dealer nearest you, call: 800-FCR-HP® (800-367-4772).

CALL US WITH YOUR PURCHASE ORDERS AND



We ship within 24 hours

JUST GIVE US A CALL
800-538-8787

California 408-738-4133

5.25- and 8-inch Flexible discs

You can trust Hewlett-Packard's premium-quality flexible discs with your productivity

HP flexible discs do make a difference. When you buy HP flexible discs, you are assured they are carefully matched to your HP disc drives for optimum performance. We select flexible discs for the HP label only after rigorous qualification tests based on three key characteristics—disc wear life, error rate, and the disc manufacturer's ability to consistently meet our specifications without batch-to-batch variations.

For added value, HP discs are tested over the entire disc surface, not just the tracks, to ensure a 100% error-free surface. To provide you with precision performance time after time, each track and the space in-between tracks is tested with microprocessor-controlled certifiers that ensure each disc meets HP's high standards of excellence. An advanced burnishing method is used to polish the surface for the smoothest, most uniform result to assure you optimum signal quality and direct, easy-to-obtain data. A unique lubricant is applied to the disc which ensures totally error-free perfor-

mance while minimizing your drive head wear . . . even after millions of passes.

HP flexible discs may be used on non-HP products where reliable, high performance discs are desired. Contact your local authorized dealer. For larger end user and OEM quantity amounts, contact HP using our toll free number listed above.



Disc drive/media warranty

Any damage sustained to the heads or media, or any consequential damage resulting from the use of non-HP media or cleaned disc media in HP equipment is excluded from warranty or service contract coverage, but will be repaired subject to HP's standard time and material charges. Use of non-HP media or cleaned disc media, however, does not affect warranty or service contract coverage of other components of the disc drive not associated with the head-media interface.

Flexible discs for HP drives

Each package contains 10 flexible discs in protective envelopes and includes write-protect, jacket and storage box labels.

Product no.	Description	Systems	Price
92190A	Box 5.25 in., 0.27 Mb (formatted capacity) double-sided unformatted (also see 92190L below)	HP 82900 Series Disc Drives, 9135A and 9125S Disc Drives, HP 2642/7F Display Terminal, HP 9826 36 Desktop Computers, HP 9000 Model 20 Desktop Computer	1 box of 10 discs \$58.00 ★ 2-4 54.00 5-19 50.00 20+ 46.00
92195A	Box 8 in., 1.2 Mb (formatted capacity) double-sided, unformatted (also see 92195L below)	HP 9895A Disc Drive and HP 250, 300, 3000/30, 3000/33 Systems	1 box of 10 discs \$75.00 ★ 2-4 70.00 5-19 65.00 20+ 60.00
92195F	Box 8 in., 1.2 Mb (formatted capacity) double-sided HP 250 formatted	HP 250	1 box of 10 discs \$85.00 2-4 79.00 5-19 74.00 20+ 68.00
9164-0105	Box 8 in., 0.5 Mb (formatted capacity) single-sided, unformatted	HP 9885M/S Disc Drive, HP 1000 Models 20 & 25 (2174A/B & 2175A/B), Subsystems	1-2 boxes of 10 discs \$65.00 3-9 60.00 10+ 57.00
09885-90045	One 8 in., 0.5 Mb (formatted capacity) single-sided, HP 9885/9825 formatted	HP 9885M/S Drives used with HP 9825A/S Desktop Computers	Single disc \$15.00

SAVE

on HP FlexFiles (page 135) when you buy quality HP discs in the packages below. Each package contains five FlexFile units and 50 flexible discs in protective envelopes and includes write-protect, jacket and storage box labels and instructions.

Product no.	Description	Flex disc product no.	Price
92190L	5 FlexFiles, 50 5.25-in., unformatted, double-sided flex discs	Includes 92190A	((1-3 pkgs)) \$265.00 ea. ★ ((4+)) 240.00 ea.
92195L	5 FlexFiles, 50 8-in., unformatted, double-sided flex discs	Includes 92195A	((1-3 pkgs)) \$335.00 ea. ★ ((4+)) 300.00 ea.

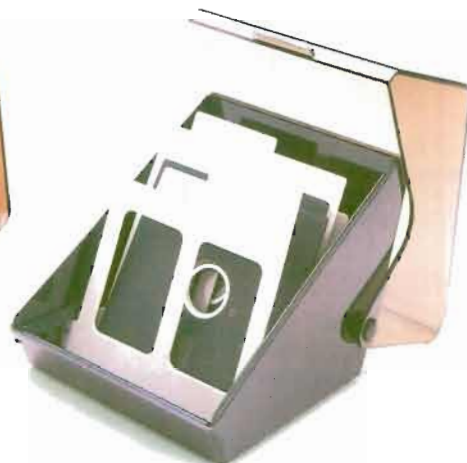
★ For location of dealer nearest you, call: 800-FOR-HP (800-367-4772).

5.25- and 8-inch Flexible disc accessories

Your flexible discs are worth much more than the retail price suggests. A truer measure of their value is the worth of the important data stored on each one. With HP storage products, you minimize your chances of accidentally misplacing or damaging media. Our binders and files make it easy to take care of your media—so it can take care of you.



92194A/B Desktop file.
Capacity: 50 discs.



92194N Roll-top file.
Capacity: 120 discs.

Desktop file

Designed to provide protection, organization and easy retrieval of invaluable data and programs. This attractive, durable, smoke-colored acrylic file holds up to 50 discs. Aiding the organization and retrieval of discs are five index dividers with adjustable tabs.

92194A Desktop file for 5.25-inch flexible discs.

(1 unit)	\$39.00 ea.
(2-4)	36.00 ea.
(5+)	33.00 ea.

92194B Desktop file for 8-inch flexible discs.

(1 unit)	\$46.00 ea.
(2-4)	43.00 ea.
(5+)	40.00 ea.

Roll-top file

NEW Enhance your office decor with this handsome roll-top file for storing your 5.25-inch flexible discs. The genuine Rosewood cover lends richness to the file and also slides back and out of the way. Constructed of durable plastic to ensure long-lasting protection, this file also features rubber anti-skid feet and built-in disc dividers.

92194N Roll-top file

(1 unit)	\$49.00 ea.
(2-4)	46.00 ea.
(5+)	43.00 ea.

Portable album file

Fragile flexible discs will be protected, organized and easily accessed because of this filing system's unique features. Crimped pockets cushion each disc, preventing wrinkles or bends. The floating axle design eliminates additional stress if the binder is dropped or closed. Discs are kept secure in a vinyl cover with a Velcro® fastener. Easy and fast access and re-filing are aided by color-coded index stripes for each pocket. File organization is further enhanced with an index

on the spine of the album for listing discs. Capacity: 20 discs.

92194G Album file for 5.25-inch discs.

(1 unit)	\$43.00 ea.
(2-4)	40.00 ea.
(5+)	37.00 ea.

92194H Album file for 8-inch discs.

(1 unit)	\$56.00 ea.
(2-4)	52.00 ea.
(5+)	49.00 ea.



92194G/H Portable album file.
Capacity: 20 discs.

FlexFile storage system

The HP FlexFile provides you with the most "flexible" disc storage system! Its modular interlocking design allows you to add new units as your needs expand and makes the most of your work space. Individually or in stacks, they can be used vertically or horizontally by simply readjusting the inside disc retaining gate. Open the FlexFile drawer and the discs are automatically flipped forward for easy access. The FlexFile offers sturdy, portable, dust-free protection and takes only seconds to interlock or separate. Constructed of high-impact polystyrene.

92194E FlexFiles for 5.25-inch flexible discs. A package of five FlexFiles. Each FlexFile holds up to 10 discs. Includes adhesive index labels and instructions.

92194F FlexFiles for 8-inch flexible discs. A package of five FlexFiles. Each FlexFile holds up to 10 discs. Includes adhesive index labels and instructions.

(1 pkg.)	\$36.00 pkg.
(2-4)	33.00 pkg.
(5+)	31.00 pkg.

Note: product names followed by ® or ™ are trademarks of their respective companies. For a complete listing, see page 158.



92194E/F Package of five FlexFiles.
Capacity: 10 discs each.

5.25- and 8-inch Flexible disc accessories (cont.)



92194J/K Easel binder kit
Capacity: 40 discs.



92194L/M
Package of 10
binder pages.
Capacity: 40 5.25-inch discs.
20 8-inch discs.



92194P/Q
Package of 10
hanging file pages.
Capacity:
20 5.25-inch discs or
10 8-inch discs

Binder storage

Three-hole, 1.5-inch easel binder kit with pebbled, static-resistant vinyl pages for safe, convenient and economical filing of flexible discs with supporting documentation. File cards are included to help identify each disc. The easel binder provides efficient access and replacement of the discs at the user's workstation.

92194J Easel binder kit for 5.25-inch discs.
Capacity: 40 discs.

92194K Easel binder kit for 8-inch discs.
Capacity: 40 discs.

(1 kit)	\$33.00 kit	★
(2-4)	29.00 kit	
(5+)	26.00 kit	

Three-ring binder pages

A package of pebbled, static-resistant vinyl pages for filing flexible discs. File cards are included to help identify each disc.

92194L Package of 10 pages for 5.25-inch discs. Capacity: 40 discs.

92194M Package of 10 pages for 8-inch discs. Capacity: 20 discs.

(1 pkg.)	\$19.00 pkg.	★
(2-4)	18.00 pkg.	
(5+)	16.00 pkg.	

Hanging file pages

Protect and organize your valuable discs by filing them on any U.S. standard 12.25-inch (311mm) wide suspension frame. These heavy-duty pages are made of static-resistant vinyl. File cards are included to help identify each disc.

92194P Package of 10 hanging file pages for 5.25-inch flexible discs. For 330mm wide pages, order 92195P. Capacity: 20 discs.

92194Q Package of 10 hanging file pages for 8-inch flexible discs. For 330mm wide pages, order 92195Q. Capacity: 10 discs.

(1 pkg.)	\$22.00 pkg.	★
(2-4)	19.00 pkg.	
(5+)	17.00 pkg.	

Cleaning kits

Cleaning kits and components for preventive maintenance

Clean disc drive heads quickly and easily

HP recommends cleaning of flexible disc drive heads when there is suspicion of contamination, after an incidence of media damage or when read errors are occurring at a higher than normal rate.

For 5.25- and 8-inch drives:

New, easier-to-use cleaning kits eliminate the need for messy cleaning solutions. Provided in each cleaning disc package are two double-sided cleaning discs and instructions. The cleaning procedure uses your system's initialize command or cleaning utility to move the read/write head across the cleaning surface. The entire procedure takes only a few minutes. Each cleaning disc is good for 26 cleanings.

92193K Head cleaning kit for 5.25-inch flexible disc drives. Includes protective case and two cleaning discs in envelopes.

92193L Head cleaning kit for 8-inch flexible disc drives. Includes protective case for two cleaning discs in envelopes.

(1 kit)	\$32.00 kit
(2-4)	30.00 kit
(5+)	28.00 kit

★For location of dealer nearest you, call: 800-FOR-HP (800-367-4772)



92193K/L Head cleaning kits



Magnetic tape head cleaning supplies

Although HP does not recommend the cleaning of rigid or flexible disc media, we do recommend the periodic cleaning of tape heads, capstans and guides on tape units and those products using high-density data cartridges and mini data cartridges. Such cleaning prolongs tape/head life and helps reduce read/write errors due to dust and oxide buildup.

1 92193H Magnetic head clean kit for flexible, mag tape, and rigid disc drives.

Prolong tape head life and minimize read/write errors by periodically inspecting your mag heads visually and by using this kit regularly. Regular use reduces dust and oxide buildup. Contains two 4-ounce bottles of cleaning solution, 50 lint-free wipes, 10 plastic swabs with urethane foam tips and one easy-pour dispensing cap.

(1 kit)	\$35.00 ea.
(2-4)	33.00 ea.
(5+)	30.00 ea.

2 92193M Master clean kit for flexible, mag tape, and rigid disc drives.

This kit contains all the components necessary for cleaning disc drive heads, capstans and guides, terminal screens, printers and all equipment surfaces. Included are one 4-ounce bottle of mag head cleaning solution, one 4-ounce bottle of anti-static solution, one 4-ounce bottle of screen-cleaning solution, 10 plastic swabs with soft urethane foam tips, 16 screen-clean wipes, 50 lint-free wipes, two pump spray tops, gloves, and instructions.

(1 kit)	\$44.00 ea.
(2-4)	42.00 ea.
(5+)	40.00 ea.

Individual cleaning accessories

Supplement and refill your HP cleaning kits with accessory cleaning components. You can save by ordering components in larger quantities based on your normal maintenance program.

3 92193W Lint-free wipes. Buy in bulk and save! One bag of 100 lint-free thermal-bonded polyester wipes. Safe to use on all HP equipment surfaces. 4 x 4-inch (10.2 x 10.2 cm) each.
(1-4 bags) \$12.00 ea.
(5+) 10.00 ea.

4 92193F Magnetic head cleaning solution for easy, safe, effective maintenance of mag tape and flexible and rigid disc drives. Use this 100 percent Freon TF solution with cleaning swabs and compressed air on drive read-and-write heads, capstans and guides. Each bottle contains 12 fluid ounces.
(1-4 bottles) \$16.00 ea.
(5+) 14.00 ea.

5 92193Y Compressed air cleaner: A box of two 12-ounce cans of compressed air cleaner. Use to clean hard-to-reach spots and to speed evaporation of cleaning solutions. Safe and handy to use. Includes extension spray tube.
(1-4 boxes) \$21.00 ea.
(5+) 19.00 ea.

6 9300-0468 Box of 50 lint-free wooden swabs with soft urethane foam tips. Use 9300-0767 for cleaning the high-density data cartridge transports.
(1-2 boxes) \$15.00 ea.
(3+) 12.00 ea.

7 9300-0767 Box of 50 lint-free plastic swabs with soft urethane foam tips. Recommended for use in cleaning tape head and capstan in HP 7908/11/12/14 tape transports. Use with 92193F magnetic head cleaning solution.
Price \$27.00 box

8 92193G Cleaning gloves. Protect your equipment and keep your hands clean when using HP cleaning supplies. Twenty-five pairs of gloves to the bag.
(1-4 bags) \$27.00 bag
(5+) 24.00 bag

We ship within 24 hours
JUST GIVE US A CALL
800-538-8787
California 408-738-4133

Rigid discs

High-performance disc drives require high-performance media

Sophisticated design

Your HP disc drive is one of the most sophisticated computer products made today. Its design and manufacturing involves more engineering disciplines than any other single computer component. In fact, each drive is a hybrid combination of not only electrical engineering, mechanical engineering and magnetics, but also fluid mechanics, aerodynamics and metallurgy.

Precision interplay

It is attention to detail in all of these fields throughout the design and manufacturing of our media products that allows Hewlett-Packard to offer exceptional levels of reliability and performance in our disc drives. The head/media interface is a prime example of the precision required for high performance operation. On the 7925 disc drive, the read/write heads:

- Detect as many as 7.5 million individual data bits each second
- Fly 27 millionths of an inch off of the media surface on a thin air bearing at over 100 miles per hour

This flying height may best be visualized by comparing it with the sizes of contaminants present in a typical operating environment. (See Figure 1.)

Media quality is essential

Because of the precision tolerances existing at the head/media interface, the quality of the media is critical to drive performance and reliability. There is no room for less than the best.

Consequently, the time we spend ensuring the integrity of the media will be returned in terms of increased drive reliability, a proportionately lower cost of ownership, and performance at the level that the drive was designed to offer.



13356A formatted disc pack, center 12940A disc cartridge, upper left

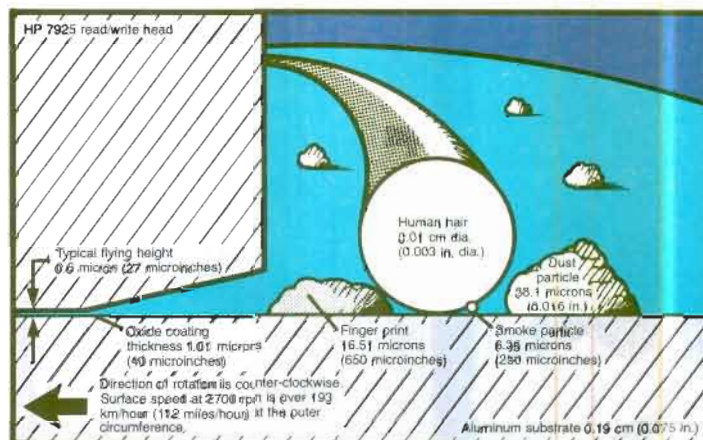


Figure 1

HP rigid discs are 100 percent tested

Every HP rigid disc pack and cartridge is 100 percent tested and certified for use on HP drives (see story below on how HP tests disc packs). Dynamic testing dramatically increases reliability by reducing surface imperfections or imbalances. Our media also undergo exhaustive electromagnetic data transfer testing under "worst case" conditions. This ensures optimum media error performance, as well as interchangeability of disc packs and cartridges between similar model disc drives.

Because of the unique interdependence of total disc performance and the head/media interface, disc drive specifications and reliability can be assured when using HP media products.

Two more reasons to use HP rigid discs:

1. They are formatted and ready for immediate use on their respective drives, saving up to 30 minutes per disc pack.
2. HP rigid discs are guaranteed to have available spare tracks on every surface.

Undesirable alteration of the media surface environment can result from improper cleaning. The cleaning of HP media products is, therefore, not recommended.

Any damage sustained by the heads or media, or any consequential damage resulting from the use of non-HP media or improperly cleaned media will not be covered under warranty service contract.

Quality in HP packs—your added value

- Visually inspect raw disc platters.
- Mechanically analyze for disc flatness and roughness.
- Electronically evaluate magnetic properties.
- Assemble into multi-disc packs (see photo).
- Dynamically balance for vibration-free rotation.
- Mechanically analyze, a second time, for disc flatness and roughness.
- Burnish disc surfaces.
- Magnetically purify (degauss) all surfaces.
- Write permanent servo code bands on one disc in the pack.
- Fully test each pack on a drive similar to yours under "worst case conditions."



Rigid discs

Product no.	Description	Systems	Price
12869A	2.5 Mb Disc Cartridge formatted front loading	HP 7900A, 7901A, 9880B, 12960A, 12961A, 30110A Disc Drives and Subsystems	1-3 units \$135.00 ea. 4-41 115.00 ea. 42+ 105.00 ea.
12940A	9.8 Mb Disc Cartridge formatted front loading	HP 7905A, 7906H/M/S, 12962C/D, 13180A/B Disc Drives and Subsystems	1-3 units \$165.00 ea. 4-41 150.00 ea. 42+ 140.00 ea.
13394A	50 Mb Disc Pack removable formatted	HP 7920 H/M/S Disc Drives	1-5 packs \$560.00 ea. 6-19 510.00 ea. 20+ 475.00 ea.
13356A	120 Mb Disc Pack removable formatted	HP 7925 H/M/S Disc Drives	1-5 packs \$905.00 ea. 6-19 850.00 ea. 20+ 815.00 ea.
97935A	404 Mb Disc Pack removable formatted	HP 7935 Disc Drives	1-5 modules \$1530.00 ea. 6-19 1480.00 ea. 20+ 1430.00 ea.

Rigid disc accessories

Storage and protection for disc cartridges

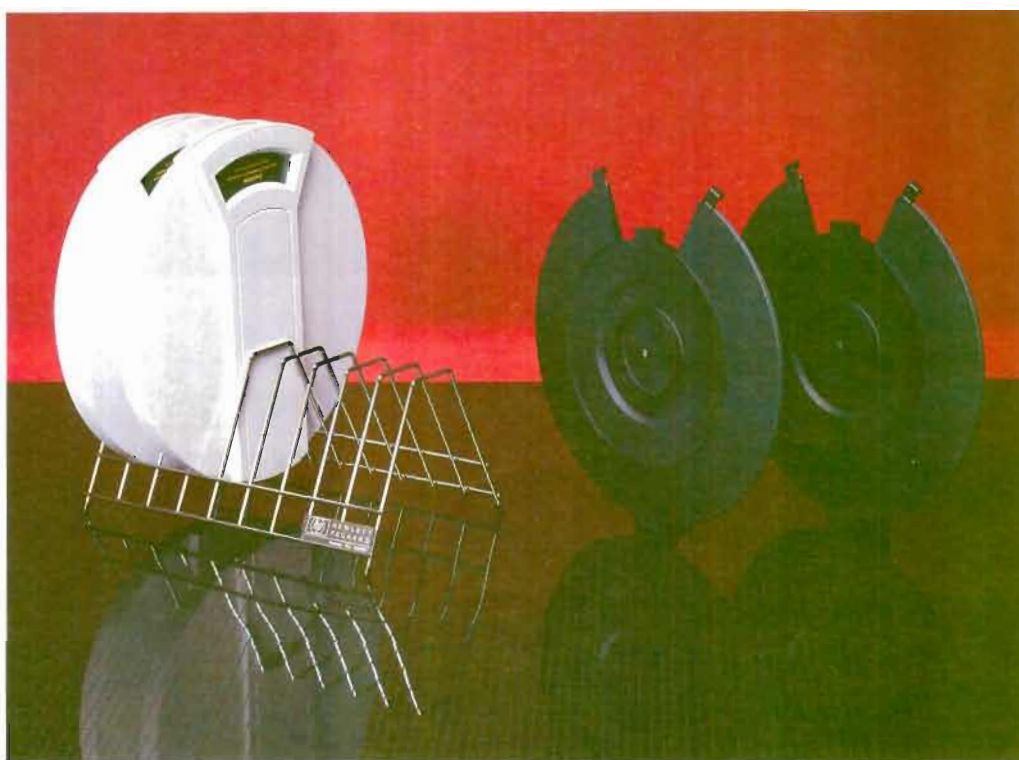
92206D Rigid disc rack. Keep your cartridges right where you want them. Our mobile nine-disc capacity storage rack makes organization and retrieval of invaluable data and programs easy. This superior-quality rack features heavy-gauge steel wire with nickel-chrome plating. Rubber non-skid feet protect your furniture.

(1-2 units) \$26.00 ea.
(3+) 20.00 ea.

92206H Protective bottom cover for disc cartridges. Box of six bottom covers for the HP 12940A and HP 12869A disc cartridges. Protects cartridge from damage caused by operator mishandling and minimizes contamination of disc surfaces. (Please note that the HP 92206D rack will not hold HP disc cartridges with 92206H bottom covers.)

- Easy to attach and remove.
- Built-in latch keeps cartridge access door closed when not in drive.
- Positive, safe horizontal stacking of up to six cartridges.
- Lightweight—approximately 0.9 pounds (0.4kg).
- Made of heavy-duty, high-impact plastic.
- Three sturdy positive-action clips keep 92206H in contact with cartridge bottom preventing contamination buildup.

(1-2 boxes of six) \$57.00 box
(3+) 51.00 box



We ship within 24 hours.

JUST GIVE US A CALL
800-538-8787

California 408-738-4133

CALL US WITH YOUR PURCHASE ORDERS AND



Tape cartridges



Certified high-density data cartridge

These formatted and certified data cartridges are used for backup with the HP 7908/11/12/14 disc drives. Secondary uses are as a data exchange medium among HP systems, personal I/O (software distribution), and data/transaction logging. Formatted into 1K user data blocks. You no longer have to certify each tape cartridge. This saves up to 15 minutes per 150-foot tape and up to 75 minutes per 600-foot tape.

1 88140LC Box of five certified cartridges. 600-foot, 67 Mb, each with own protective plastic box.

(1 box of 5 cartridges)	\$200.00 box
(2-4)	190.00 box
(5-19)	177.00 box
(20+)	170.00 box

2 88140SC Box of five certified cartridges. 150-foot, 16 Mb, each with own protective plastic box.

(1 box of 5 cartridges)	\$150.00 box
(2-4)	140.00 box
(5-19)	130.00 box
(20+)	125.00 box

Mini data cartridges

Through HP's new improved manufacturing process, our HP 98200A minicartridge now offers better turn-on (start-up) performance and longer operating life—minimum 6000 cycles (a cycle is one roundtrip pass of the tape from one end to the other, and return) in most general-use applications. Actual performance will vary, depending on specific application.

NOTE: All minicartridges work best when "conditioned" before use (by making one total forward/rewind cycle), and by rewinding after each use.

These rugged HP-manufactured storage devices are each 100 percent tested mechanically (for proper tape tension and drive force requirements) and electromagnetically for error-free data recording. Metal backplate construction helps ensure accurate alignment of tape guides and other internal parts, while providing a grounding surface to protect the minicartridge from effects of static electricity.

3 98200A Box of five mini data cartridges, each with own protective plastic box. Used with HP Series 1000 and 3000

Computer Systems; HP 264X Series Display Terminals; HP 85A, 9815A/S, 9825A/S, 9831A, 9835A/B (System 35) and 9845A/B/C/S/T (System 45) Desktop Computers; HP 9915A option 001 Modular Computer; 9875A, 9877A Tape Units. Also used on non-HP products where reliable, high-performance minicartridges are desired. For larger end-user and OEM quantity discounts, contact us.

(1 box of 5 cartridges)	\$95.00 box
(2-4)	85.00 box
(5-19)	76.00 box
(20+)	67.00 box

Digital tape cassettes

4 82176A Package of 10 mini data cassettes. Each stores up to 131K bytes and is used on 82161A digital cassette drive.

Also see photo 1, opposite page.
Pkg. of 10 \$95.00 pkg.

5 9162-0050 Individual digital cassette.

With HP label and index card, and sealed in plastic storage box. Used with HP 9821A Calculator, 9830A/B Desktop Computer, 9865A Cassette Memory; also non-HP products requiring high-quality digital cassettes.

(1-9 cassettes)	\$11.00 ea.
(10-99)	8.50 ea.
(100+)	7.50 ea.

9162-0053 Unlabeled individual digital cassette. Identical to HP 9162-0050, but without HP label. For OEMs and other customers who record their own software and prefer to apply their own labels.

(1-9 cassettes)	\$11.00 ea.
(10-99)	8.50 ea.
(100+)	7.50 ea.

Tape cartridge accessories



Convenient space-saving storage products organize and protect your valuable media.

1 82176A Package of 10 mini data cassettes. Each stores up to 131K bytes and is used on the 82161A digital cassette drive.
Pkg. of 10 \$95.00 pkg.

2 92167M Storage binder holds six mini data cartridges inside front cover. The cartridges are held secure in the molded storage compartments while in their protective plastic boxes. One or two molded binder inserts can be placed in this binder increasing the storage capacity to 12-18 cartridges (see 92167N).

Documentation pertinent to the data and programs recorded on the cartridges can be organized in the standard 2-inch, three-ring mechanism and in a vinyl pocket inside back cover. Protection for the three-hole documentation is provided by two sturdy page protectors. The outside of the binder is finished in padded bone-colored vinyl.

(1 binder) \$21.00 ea.
(2-4) 19.00 ea.
(5+) 17.00 ea.

3 92167N Storage binder insert. Package of three inserts. Each insert holds six minicartridges (while in their plastic boxes) and can be held by the sturdy brass-ringed eyelets in a three-ring binder (sizes 0.5 in. and up). The molded storage compartments are the same quality

design and construction as used in the 92167M storage binder. These inserts provide an excellent technique for consolidating programs and data on minicartridges with supporting documentation in standard three-ring binders. One or two inserts can be added to the storage binders increasing the storage capacity to 12-18.

(1 pkg. of 3 inserts) \$21.00 pkg.
(2-4) 19.00 pkg.
(5+) 17.00 pkg.

4 92194D Desktop file for mini data cartridge. Designed to provide protection, organization and easy retrieval of invaluable data and programs. This attractive, durable, smoke-colored acrylic file holds up to 24 mini data cartridges (HP 98200A).

(1 unit) \$46.00 ea.
(2-4) 43.00 ea.
(5+) 40.00 ea.

5 92194C Desktop file for HP digital cassettes. Designed to provide protection, organization and easy retrieval of invaluable data and programs. This attractive, durable, smoke-colored acrylic file holds up to 18 digital cassettes (9162-0050).

(1 unit) \$46.00 ea.
(2-4) 43.00 ea.
(5+) 40.00 ea.

High-density data cartridge storage albums

Now you can organize and transport your HP 88140 cartridge in a dust-free album that helps eliminate the mishandling and misplacing of individual cartridges. The albums are constructed of sturdy vinyl, hinged for easy access. Each album holds four cartridges; two in the molded front cover and two in the back cover inserts.

6 92167L Package of five high-density data cartridge albums. Each album holds up to four HP 88140 cartridges.

(1 pkg.) \$34.00 pkg.
(2-4) 31.00 pkg.
(5+) 29.00 pkg.

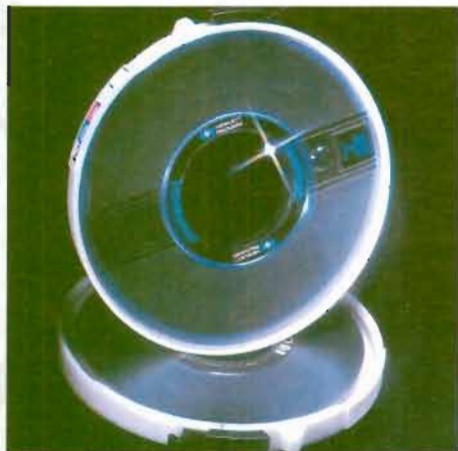
7 92206A Mini data cartridge rack. Mobile and stackable! Chrome-finished steel racks are designed for fingertip accessibility of up to 16 cartridges or digital cassettes. Racks are stackable for space-saving convenience. Buy three and save.

(1-2 units) \$26.00 ea.
(3+) 20.00 ea.

HP 9800 Desktop computer media

	Computer	Product number	Description	Price
Magnetic program cards	9810A/9820A	5060-9152	Indiv. w/envel. 6 in. (152.4 mm)	\$2.70 ea. (min. order 10)
	9810A/9820A	9162-0012	Indiv. no envel. 6 in. (152.4 mm)	\$1.90 ea. (min. order 10)
	9810A/9820A	9162-0045	Indiv. w/envel. 10.5 in. (266 mm)	(1-9) \$3.30 ea.
				(10-99) 2.60 ea.
				(100+) 2.40 ea.

Magnetic tape



Value added

HP's 0.5-inch (12.7mm) computer tape has an extra layer for extra protection of your valuable data. HP tape has a textured substrate (backside coating) which helps protect your data by protecting itself in day-to-day storage and operational use. The backside coating allows air lubrication between tape layers, enabling uniform sliding and the reduction of cinching, thus less lateral tape movement and fewer worn edges that result in lost data.

The exposed polyester backside on conventional tapes is a major cause of

debris that can create dropouts and attendant information loss. HP's new tape with its textured substance backing resists scratching and the generation of debris. At the same time, HP tape resists static attraction of airborne particles. Complies with ANSI X.340-1976 and X.340-1983 specifications.

Better

- Data integrity
- Protection of your information

Less

- Edge damage
- Contamination
- Distortion

Certified to 6250 BPI. Use on all HP 7970, 7971, 7974, 7976, and 7978 tape units and tape subsystems using 0.5-inch (12.7mm) wide tape.

Mag tape length can vary!

Occasionally, customers ask HP about the physical length of a tape and how much of the tape is actually available for storing data. We thought this information would be appropriate to pass on to all of our customers.

HP brand tape uses the American National Standards Institute (ANSI) and IBM specifications for our tape as do most major tape manufacturers.

The tape length, as referred to on the reel, packaging and literature, references the overall length of the tape from one physical end to the other. An advertised

600-foot reel of tape is physically at least 600 feet long. However, it may in fact be up to 620 feet in length. This is not an attempt to mislead anyone but a consequence of man's inclination to round things off to even numbers to facilitate discussion, and has become industry practice.

The amount of tape available for data storage is located between the BOT marker and the EOT marker. The BOT marker is located 16 feet plus or minus 2 feet from the physical beginning of the tape. The EOT marker is located 25 to 30

feet from the physical end of the tape.

The tape before the BOT marker allows you to feed the tape through the vacuum columns and onto the take-up reel. Recording starts at the BOT marker. However, if the drive is in the middle of a file, it may not stop recording exactly at the EOT marker, which is why there is a little more tape after the EOT marker than before the BOT marker.

When you buy HP magnetic tape you can be sure you receive "full measure" quality tape.

Magnetic tapes

Product no.	Description	Systems	Price
92150D	Box of 10 600-ft. (183m) tapes on reels, in seals 0.5 in. (12.7 mm) wide	HP 7970, 7971, 7974, 7976, 7978 Tape Drives and subsystems	1 box of 10 tapes ... \$135.00 ea. 2-5 125.00 ea. 6+ 115.00 ea.
92150E	Box of 10 1200-ft. (366m) tapes on reels, in seals 0.5 in. (12.7 mm) wide	HP 7970, 7971, 7974, 7976, 7978 Tape Drives and subsystems	1 box of 10 tapes ... \$175.00 ea. 2-5 165.00 ea. 6+ 155.00 ea.
92150F	Box of 10 2400-ft. (732m) tapes on reels, in seals 0.5 in. (12.7 m) wide	HP 7970, 7971, 7974, 7976, 7978 Tape Drives and subsystems	1 box of 10 tapes ... \$240.00 ea. 2-5 225.00 ea. 6+ 210.00 ea.
92150P	Box of 10 2400-ft. (732m) tapes on reels, in Easy Load II cartridges 0.5 in. (12.7 mm) wide	HP 7976 Tape Drive	1 box of 10 tapes ... \$260.00 ea. 2-5 245.00 ea. 6+ 230.00 ea.

Magnetic tape accessories

92150K Magnetic Tape

reel labels. Blank

white adhesive labels. For quick identification and indexing of your tapes and other items. Roll of 1000 labels. (1-4 rolls) \$78.00 ea.
(5+) 74.00 ea.

92150Q Box of 10 empty Easy Load II self-

threading cartridges. To be used on 2400-foot tapes (10.5-inch reels) when using the auto-load feature on HP 7976 Tape Drives.

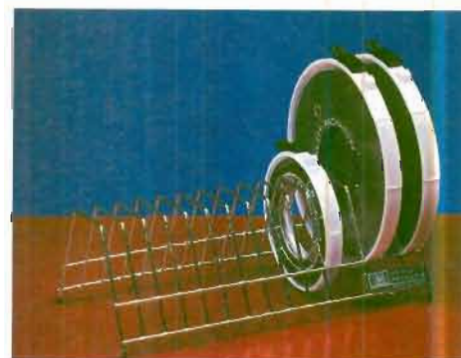
(1 box of 10) \$46.00 box



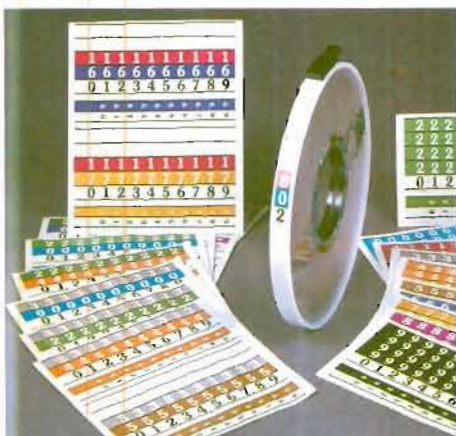
(2-5) 43.00 box
(6+) 40.00 box

92206T Magnetic tape rack. Organization means time savings! Our mobile 15-reel capacity storage rack will help you and your people stay organized. Chrome-finished steel rack designed for use with 600-foot, 1200-foot, or 2400-foot tapes in seals. Order today and transform your desk or shelf into an organized data library. Buy three and save.

(1-2 racks) \$26.00 ea.
(3+) 20.00 ea.



Magnetic tape accessories (cont.)



92150L Mag tape color/numbering kit

92150L Mag tape color/numbering kit. Prevent misfiling! Our simple color-coded numbering system will help you eliminate misfiles in your magnetic tape library. 1000 labels (numbered 0-999).

- Designed with pressure-sensitive labels, which are inserted into label area of Tape-in-Seal cartridges.
- Each label is provided with location tabs which can be used on library tape racks or cabinets to quickly identify filing spot.

Price \$98.00 ea.

92150M Mag tape sense markers. These reflective, pressure-sensitive markers offer convenient tape beginning and ending indicators. 250 markers to a card.

(1-9 cards) \$10.50 ea.
(10+) 9.50 ea.

92150X Box of magnetic tape take-up reels.

Replace broken reels and keep extras on hand. Five 10.5-inch reels to a box. Clear plastic front, HP blue-colored back. (1 box of 5) \$20.00 box

9162-0027 Head alignment tape. Has tracks, recorded at 800 BPI, precisely located on its 600-foot (183m) length. Used during testing or adjustment of 7- and 9-track head alignment on 0.5-inch (12.7mm) tape units. In protective canister. Price \$245.00 ea.

Be sure to see our magnetic tape head cleaning supplies on page 137.



92150T Transport/Carrying case

for 2400-foot magnetic tapes. Holds up to six reels in either tape seals or Easy Load Cartridges. This case combines durable impact-resistant polyethylene construction on the outside with shock absorbing foam on the inside to ensure reliable protection when carrying or shipping your valuable data and software. Built-in hasp for your personal padlock. Dimensions: 15.8 x 17 x 6.5 inches (40 x 43.2 x 16.5 cm) Weight: 7.5 pounds (3.4 kg)

(1-2 cases) \$67.00 ea.
(3+) 61.00 ea.

Locate and retrieve your magnetic tapes in seconds

NEW 92272F Library tape storage rack. To match our new cabinet line, (see page 92), we have added a companion library tape rack. It helps you utilize wall and floor space for high density tape storage at minimum cost. Up to 300 tape reels in seals may be stored in any combination of 600-foot, 1200-foot or 2400-foot reels. Some assembly is re-

quired. Construction is of welded steel with open base design. Color is cream-gray, matches other 92272-series cabinets and complements other HP furniture. Exterior dimensions: height 79.5 in. (200 cm); width 48.5 in. (123 cm); depth 13.2 in. (33 cm).

(1 rack) \$335.00 ea.
(2+) 308.00 ea.



92272D Magnetic tape storage cabinet.

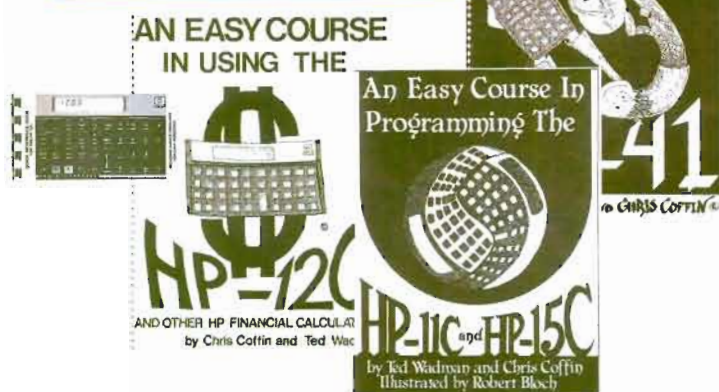
NEW 92272D Magnetic tape storage cabinet. The tape hanger bars are designed to accommodate .5-inch industry-compatible magnetic tape in tape seal only. Up to 175 of either 600-foot, 1200-foot, or 2400-foot reels of tape may be stored in any combination. Mag tape hanger bars are all pre-installed. (Media pictured is not included in cabinet price.) Exterior dimensions: height 84 inches (213cm); width 36.5 inches (93cm); depth 21 inches (53cm).

Cabinet and door are both cream gray. NOTE: Shipped by truck. Shipping weight—279 lbs. (126kg).
(1) \$900.00 ea.
(2+) 855.00 ea.



92272F Library tape storage rack

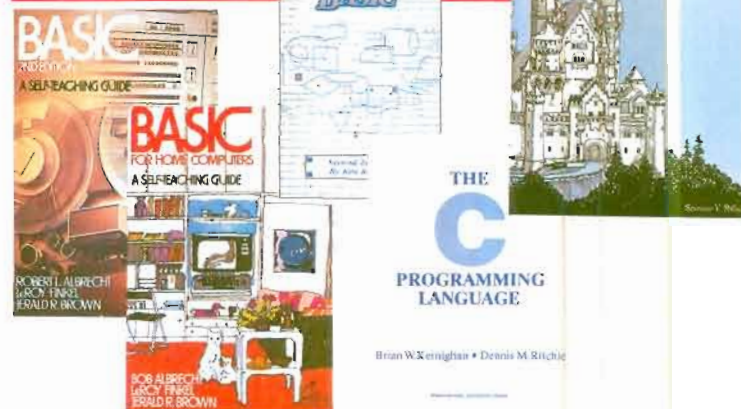
Handheld calculators



Special books for special interests

We are pleased to offer for your convenience a selection of computer-related books, which can be ordered without leaving your desk. These books have been carefully selected for excellence in their subject areas and also provide a selection of topics that should interest many people in different parts of

Programming languages



Handheld calculators

NEW Quick Reference Book for the HP-12C Evan Gost 1984

Take this handy reference book with you—it fits right in the HP-12C carrying case along with your calculator. Inside you'll find easy-to-follow examples for almost all of the popular HP-12C functions. Loan amortization, annuity value, blended rate mortgages, depreciation, future value, internal rate of return, leases, variable rate mortgages, and weighted averages are just a few of the topics discussed.

92233F \$6.95 ea.

Also available in a package of 25 copies.

92234U \$139.00 ea.

An Easy Course in Using the HP-12C C. Coffin and T. Wadman/Grapevine Publications 1984

A self-paced, easy-to-follow course book for your HP-12C Financial Calculator. Devoid of highly technical and confusing jargon, its rich conversational style and classic illustrations make learning about the HP-12C easy and fun. Filled with examples, explanations, self tests, and solutions, this text introduces you to the "How's and Why's" of loans, mortgages, investments, NPR and IRR calculations, and much more. Take your time, set your own pace, and enjoy learning to use your HP-12C.

92234S \$22.00 ea.

NEW An Easy Course in Programming the HP-11C and HP-15C T. Wadman and C. Coffin/Grapevine Publications 1984

Learn to master the capabilities of your HP-11C or HP-15C calculator. In a conversant and jargon-free style, this self-paced course will help you get the most out of your calculator. Humor, graphics, examples and review questions make reading enjoyable and learning fun. Discover how to use features like data registers, stacks, decision-making, branching, indirect addressing and more. Set your own pace, and in no time you'll be using your HP-11C or HP-15C like an expert.

92234W \$22.00 ea.

An Easy Course in Programming the HP-41C T. Wadman and C. Coffin/Grapevine Publications 1984

Get to know your HP-41C Advanced Programmable Calculator. In understandable and friendly terms, this self-paced course leads you on an enjoyable learning excursion, complete with review questions, explanations, self tests, and lots of examples. Learn about data, stack and alpha registers; the keyboard, its functions and arithmetic; program memory, labels, flags and conditional tests; indirect addressing and alphanumeric, and much more. Soon you will be programming like an expert. Applicable to the HP-41C, HP-41CV, and HP-41CX.

92234T \$22.00 ea.

Programming languages

BASIC 2nd Edition R. Albrecht, L. Finkel and J. Brown/Wiley & Sons 1978

Teach yourself BASIC with this step-by-step beginners' guide. Every BASIC command is explained using a short working program and illustrated in a variety of business applications. BASIC varies slightly from computer to computer so consult your machine's reference manual for clarification of these differences.

The BASIC used here is very similar to the Dartmouth version, which can be considered the "common denominator" of most versions of BASIC.

92233D \$10.00 ea.

Inventions of Opportunity: Matching Technology with Market Needs Introduction by William R. Hewlett/Hewlett-Packard

Learn about HP's most significant technological developments of the last three decades. This book presents selections from the *HP Journal* which, in the opinion of William Hewlett and a panel of HP experts, best illuminate HP's most significant technological contributions to the marketplace.

The introduction by Mr. Hewlett provides rare insights into the dynamics of innovation—where a need, a technology, and creative people come together to produce a successful invention. This handsome volume is clothbound, comes with a dust cover and is more than 350 pages in length.

92233B \$13.75 ea.

BASIC for Home Computers R. Albrecht, L. Finkel & J. Brown/Wiley & Sons 1978

Learn Microsoft™ BASIC with this step-by-step, self-teaching guide. Microsoft BASIC is a version of BASIC used on HP's Series 100 computers. Written by the same authors of the popular book *BASIC 2nd Edition*, this book utilizes the same successful style and format. It is suitable for the novice who has never programmed before. Commands are explained using a short working program and then illustrated in a variety of applications. See also: *Microsoft BASIC* below.

92234D \$11.00 ea.

Microsoft™ BASIC K. Knecht/Dilithium Press 1983

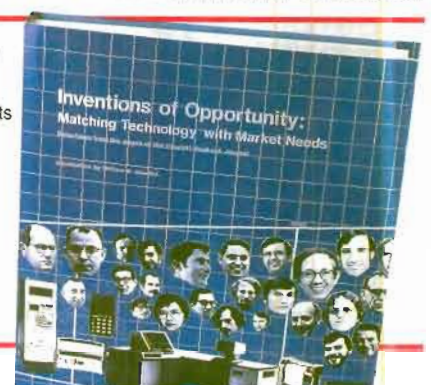
An excellent tutorial on programming in Microsoft BASIC. Its approach is more advanced than *BASIC for Home Computers* and it covers more sophisticated features. Appropriate for a person who already programs in another version of BASIC or in another language. Also appropriate as a follow-up to the previous book.

92234E \$18.00 ea.

The C Programming Language B. Kernighan and D. Ritchie/Prentice Hall 1978

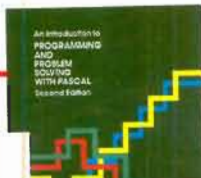
Learn to program C quickly and easily. This book contains a tutorial section to get you started, separate chapters on each major feature, and a reference manual. Considered "the" book on the C language. See also *Introducing UNIX™* in the Operating Systems section.

97089-90000 \$25.00 ea.

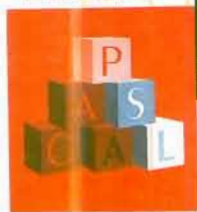


Data communications

Software Tools in Pascal



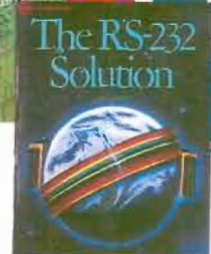
Programming in Pascal
With Hewlett-Packard Pascal



Oh! Pascal!
by Doug Cooper and Michael Clancy



Software Tools in Pascal
B. Kernighan and P. Plaugher



Structured FORTRAN 77 Programming with Hewlett-Packard Computers

Seymour V. Pollack/Boyd & Fraser 1983
Learn structured FORTRAN 77 programming from the ground up. This book is an effective introductory text for beginners. For those with experience, it provides an orderly presentation of FORTRAN 77 and its effective use. And numerous well-structured examples illustrate the use of key features of this language. All examples and programs have been tested on the HP 1000/9000.

92836-90005 \$19.95 ea.

Programming in Pascal with Hewlett-Packard Pascal

Peter Grogono/Hewlett-Packard 1984
Programming in Pascal is a revised version of Programming in Pascal with Pascal/1000. It explains the computer programming language Pascal, as described by the DRAFT ANSI Standard, and the enhancements to standard Pascal provided by HP Pascal/1000 and Pascal/9000 compilers. Throughout the 10 chapters, each extension to standard Pascal is identified, and a separate appendix section summarizes the differences between standard Pascal and HP Pascal/1000 and Pascal/9000. The book assumes no prior knowledge of other programming languages and is intended for people who want to write programs in Pascal.

97082-90002 \$25.00 ea.

An Introduction to Programming & Problem Solving in Pascal

M. Schneider, S. Weingardt and D. Perlman/Wiley & Sons 1978
An excellent general introductory book that teaches Pascal by using it as a vehicle to illustrate the fundamentals of programming and good style. Appendices contain the complete syntax of Pascal and a list of all standard Pascal identifiers, along with a description of all functions and operators. A recommended reference tool for the HP 9000 Series 200 Pascal users.

09826-90072 \$27.00 ea.

Oh! Pascal!

D. Cooper and M. Clancy/Norton 1982
A self-teaching guide offering a clear, nonmathematical introduction to the standard version of Pascal. Detailed enough for independent study, "Oh! Pascal!" emphasizes: general program solving techniques; early discussion of procedures; examples suitable for interactive use—which are then modified for batch; anti-debugging and debugging sections in each chapter; self-check questions; and chapter tests.

92233C \$25.00 ea.

Software Tools in Pascal

B. Kernighan and P. Plaugher/Addison-Wesley 1981
Writing good programs that make good tools is the subject of this book. This goal is accomplished by presenting a set of programs, each of which provides lessons in design and implementation. The programs are tools that have proved valuable in the production of other programs. They are complete, documented, written in standard Pascal, and tested directly from the text. Top-down design and structured programming are emphasized throughout the book, as are principles of sound design, testing, efficiency and portability. Software Tools in Pascal takes a pragmatic approach in that principles of good programming are not treated as abstract sermons. Rather, they are concrete lessons presented in the context of actual working programs.

02234J \$22.00 ea.

Data communications

Touring Datacomm: A Data Communications Primer

Hewlett-Packard 1983
The Data Communications Primer introduces you to the basic concepts of data communications, beginning with a discussion of simple communications concepts and gradually moving toward more complex topics. Covers hardware and software, transmission methods and channels, line configurations and interfaces, signal conversion, multiplexing, common carrier services, network structures and capabilities, protocols, and architectures. Designed for readers with little or no previous knowledge of data communications.

5957-4622 \$6.00 ea.

Communicating with IBM: An HP-to-IBM Communications Primer

Hewlett-Packard 1984
Communicating with IBM is one of a series of HP primers on data communications. The first book in the series, Touring Datacomm, presented a broad overview of computers and data communications. This primer builds on that base and focuses on the world of HP-to-IBM communications. An overview of HP-to-IBM networks is discussed, followed by an introduction to each of the main components of those networks. Topics include: IBM mainframes, IBM operating systems, job entry subsystems, communications access methods, communications controllers, basic SNA concepts, emulation, IBM remote devices, and HP-to-IBM data communications products. As you progress through this primer, you will read about HP products that run on various systems, including the HP Touchscreen, 250, 1600, 3000, and 9000. This book provides a valuable introduction to IBM and HP-to-IBM data communications. Written for individuals who have a general background in

computers and data communications, but little or no previous experience with IBM systems or with HP-to-IBM products.

5957-4623 \$6.00 ea.

Making the LAN Connection: A Local Area Network Primer

Hewlett-Packard 1984
Another in the HP series on data communications, this primer presents a generic overview of local area networks (LANs) and gives some specific information on HP's LAN implementation. Topics discussed include the characteristics and advantages of LANs, some of the criteria for evaluating a LAN, common applications and options that must be considered for a LAN, industry standards and HP's LAN implementation, and a glossary which contains brief descriptions of terms used in the text. Written for those who have some familiarity with the concepts covered in Touring Datacomm: A Data Communications Primer, the first in the series of data communications primers.

5957-4624 \$6.00 ea.

A Manager's Guide To Local Networks

F. Derfler Jr. and W. Stallings/Prentice Hall 1983
For managers and decision-makers, a very readable guide book that discusses the vocabulary and principles of local network systems. It gives the manager tools to evaluate proposals, determine needs, and ask appropriate questions in selecting the best local network system for their business. The text uses simple language, is well illustrated, and each chapter concludes with a bullet-point list of "things to think about" and "things to remember." Read this book, then give it to your boss.

92234V \$23.95 ea.

The HP-IL System: An Introductory Guide to the Hewlett-Packard Interface Loop

G. Kane, S. Harper, and D. Ushijima/Osborne/McGraw-Hill 1982
Use this definitive guide to learn about the Hewlett-Packard Interface Loop (HP-IL), an eight-bit serial interface designed for portable battery-operable systems. HP-IL makes a new generation of portable systems and peripherals possible by linking the HP Series 40 Programmable Calculators, Series 70 Handheld Computers, Series 80 Personal Computers, and the PORTABLE (HP-110) Computer to low-power, low-cost peripheral devices and test equipment. The first third of this book is an overview of HP-IL and the remainder presents an in-depth discussion of HP-IL and its inner workings.

92233A \$22.00 ea.

Note: product names followed by * or ® are trademarks of their respective companies. For a complete listing, see page 158.

Operating systems



NEW The RS-232 Solution Joe Campbell/ SYBEX 1984

This is both a "how it works" and "how to work it" book on the popular, and often misunderstood RS-232C interface. A working methodology is presented to help the reader build an interface between any two "RS-232C compatible" devices. Knowledge of electronics or circuitry isn't necessary, although some knowledge of computer concepts is assumed. Topics discussed include basic RS-232C interfacing concepts, hardware and software handshaking, print buffers, pin names and numbers, device control, and testing procedures. Several case studies are presented along with a discussion of how software can dramatically alter the personality of the RS-232C interface.

92234X \$18.95 ea.

Computer Networks A. Tanenbaum/Prentice Hall 1981

A comprehensive introduction to the expanding field of computer networks. Discusses network architectures and protocols from the physical layer to the application layer, and from local networks to satellite networks. No prior background in computer networks is assumed, though a general familiarity with computer systems and programming is desirable.

92233V \$35.00 ea.

Operating systems

An Introduction to Operating Systems H. Deitel/ Addison-Wesley 1983

An up-to-date professional reference covering all the fundamental concepts of operating systems. Major topics include: an introduction and history of operating systems, process management, storage management, processor management, auxiliary software management, system performance, networking and security issues. A final section presents five detailed case studies of major operating systems including UNIX™.

92234K \$35.00 ea.

Introducing UNIX™ H. McGilton and R. Morgan/McGraw-Hill 1983

This book is both an introduction for beginners, as well as a reference for those with some UNIX™ experience. Beginners will learn to use UNIX™ in a simple fashion and how to gain more information by reading available documentation. Experienced readers will learn how to use some of the more sophisticated features such as the vi editor, nroff, and systems administration.

98680-90025 \$20.00 ea.

★ For location of dealer nearest you, call:
800-FOR-HPPC (800-367-4772).

Graphics

Steps to Effective Business Graphics



MS-DOS™ User's Guide Chris DeVoney/ QUE Corporation 1984

An excellent source of essential information about one of your computer's most important software programs, the Operating System. This tutorial explains the simple tasks you need to know as you begin to use MS-DOS™, such as disc formatting and file copying. The book also offers a wealth of information on more advanced topics, including the MS-DOS™ hierarchical directory and I/O redirection. Particularly useful are the many hands-on learning sessions that guide you step-by-step through important procedures. The final section explains each of the MS-DOS™ commands, including examples of command syntax. An exceptional generic MS-DOS™ tutorial.

92234Q \$18.95 ea.

Graphics

Steps to Effective Business Graphics B. Matkowski/Hewlett-Packard 1983

A well-illustrated guide to the production of professional business graphics for information, presentation or publications. Clearly written instructions and full color examples lead the reader through all the steps involved in the preparation of effective 35 mm slides, flip charts, overhead transparencies and report graphics. Other topics include audience analysis, effective graphics techniques and selecting a computer graphics system to do the job you need.

5957-6979 \$12.00 ea.★

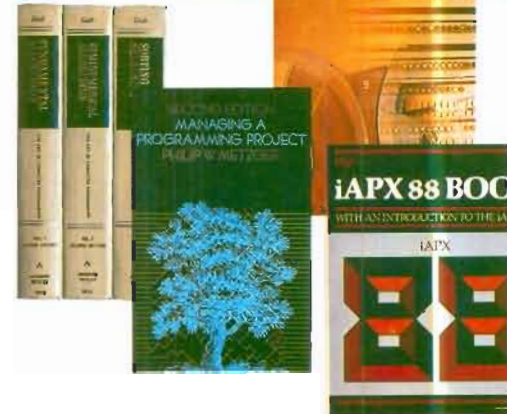
Fundamentals of Interactive Computer Graphics J. Foley and A. Van Dam/Addison-Wesley 1982

An excellent presentation of basic graphics concepts and recent advances in graphics hardware and software. A graphics applications program is developed in Pascal, using the new Core System of standard graphics subroutines. The sequence of subjects presented allows you to quickly begin programming projects and then study hardware and software issues in parallel.

- Topics include:
- Systems organization, and device technology of raster and vector devices
- Core system-like subroutine package including 2D and 3D viewing, clipping segmentation, interaction handling and device driver structure
- 3D geometrical transformers, projections and bicubic surfaces
- Hierarchical data structures for graphics
- The first comprehensive treatment of color theory practice for computer graphics

92233X \$40.00 ea.

Professional reference



Professional reference

Art of Computer Programming—Volumes I, II & III Donald Knuth/Addison-Wesley 1973, 1981 and 1973

These books are known worldwide as "classic" technical references in their subject areas by programmers, system analysts and software developers. They may be purchased as a set or individually to complete your collection.

Volume I: Fundamental Algorithms

A unified, readable and theoretically sound summary of computer programming techniques for information structures. Discusses representation of information inside the computer, and structural interrelationships between data elements and how to deal with them efficiently. Also covers applications to simulation, numerical methods, software design and other factors.

92233S \$35.00 ea.

Volume II: Seminumerical Algorithms

Readable, coherent and up-to-date summaries of the major paradigms and basic theory of seminumerical algorithms.

Topics:
Random Numbers: generation, statistical tests, other random quantities, and random sequence.
Arithmetic: positional number systems, floating point arithmetic, multiple precision arithmetic, radix conversion, rational arithmetic, polynomial arithmetic, and manipulation of power series.

92233T \$35.00 ea.

Volume III: Sorting and Searching

Though largely self-contained, this is a logical sequel to Volume I. It includes a comprehensive survey of computer techniques for sorting and searching and extends the treatment of data structures, considering both internal and external memories and both large and small databases.

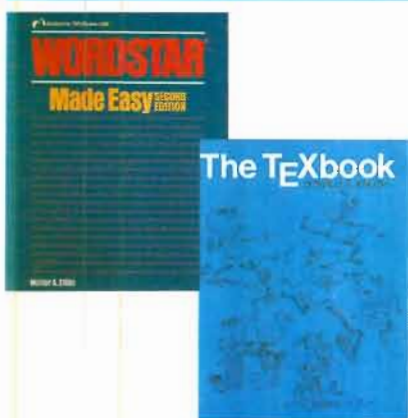
92233U \$35.00 ea.

Managing a Programming Project P. Metzger/ Prentice Hall 1981

Learn practical approaches to managing a typical modern computer programming job of any size and complexity. Everything needed to successfully organize and manage a project is discussed as you are guided through a project from start to finish. Topics include: the cycle, definition, design, programming, testing, acceptance, installation, and operation. Also, how to construct plans for: outlining, introduction, organization, testing, change control, documentation, training, reviewing, installation and operation.

92233P \$30.00 ea.

Word Processing



Flowcharting—A Tool for Understanding Computer Logic H. Stern/Wiley & Sons 1975

Programming in any language requires an understanding of computer logic, which you can acquire with this step-by-step guide. You construct your own flow charts, and develop your knowledge by comparing your work with established guidelines. No experience required.

92234F \$10.00 ea.

Intel IAPX 88 Book Reston Publishing Co. 1983

This book describes the popular Intel 8088 microprocessor, the heart of the HP Series 100 Personal Computers. The necessary information is provided for system designers to incorporate the 8088 microprocessor into cost effective microcomputer systems. An overview is presented, followed by detailed discussions which include: the register set, addressing modes, instruction set, assembly language, bus timing and status, bus interface, memory and peripheral interface, wait states, interrupts, direct memory access, and more. In addition, several specific 8088 system design examples are presented, a special supplement provides an introduction to microcomputer concepts and terminology; and an appendix contains data sheets and comparison benchmark reports. A recommended reference for designers of 8088-based systems.

92234M \$20.00 ea.

Word processing

Wordstar® Made Easy Walter Ettlin/Osborne/McGraw-Hill 1982

Learn to use the most popular and powerful word processing system for microcomputers. In 13 easy lessons, this book helps you build the word processing skills applicable to a business environment. You gain hands-on experience producing business letters, sales reports, legal documents, manuscripts, and more. Each lesson provides sample exercises, which allow you to grasp concepts quickly and easily. This revised edition covers Wordstar® versions 1 through 3 and includes lessons on Mailmerge® and SpellStar®.

92234P \$15.95 ea.

The TEXbook Donald Knuth/Addison-Wesley 1984

This book is the definitive guide to the use of TEX™ written by the system's creator. TEX™ represents the state-of-the-art in computer typesetting. It is particularly valuable where the document, article, or book to be produced contains a great deal of mathematics, and where the user is concerned about typographic quality. TEX™ software offers both

Data base & spreadsheets



writers and publishers the opportunity to produce technical text in an attractive form, with the speed and efficiency of a computer system. Novice and expert users alike will gain the level of information they seek. The novice need not learn much about TEX™ to prepare a simple manuscript. But for the preparation of more complex documents, this book contains all the details required.

92234L \$19.00 ea.

Data base & spreadsheets

An Introduction to Database Systems—Vol. 1 C. Date/Addison-Wesley 1981

A best seller in the field of relational, hierarchical and network databases. This comprehensive "basic" course is intended as an advanced text or professional reference book. Reasonable knowledge of a modern computer system's capabilities and file-handling features is assumed.

92233W \$30.00 ea.

An Introduction to Database Systems—Vol. II C. Date/Addison-Wesley 1983

Volume II ties together eight loosely related database topics omitted from Volume I. Included are the following system aspects: recovery, integrity, concurrency and security. Also covered are data models, RMI, distributed databases and database machines. The reader is expected to have a general knowledge of database system structures, concepts and objectives. Familiarity with the major aspects of the relational model discussed in depth in Volume I is also expected.

92233K \$32.00 ea.

Everyman's Database Primer: Featuring dBASE II R. Byers/Ashton Tate 1982

A "noncomputer" person's reference to relational database management systems on a microcomputer. dBASE II™ is the database management system used to illustrate the primer's main points. Hence, the primer is an excellent reference for users or potential users of dBASE II, as well as an excellent introduction to the capabilities of a relational database system on a microcomputer. In this regard, it proceeds, in a well-organized and clearly written fashion, from elementary points of introduction to some reasonably sophisticated concepts and capabilities.

92233R \$17.00 ea.

VisiCalc® Programs Made Easy D. Castlewitz/Osborne/McGraw-Hill 1983

A series of easy "hands-on" lessons designed to introduce you to the program's format and its many

versatile commands. Numerous exercises and examples allow even first-time users of VisiCalc® to achieve professional results. You begin with the basic skills needed to build and edit a worksheet and move on to advanced uses and special tricks that extend the program's capabilities.

92233Q \$15.00 ea.

Guide to Using Lotus 1-2-3™ Edward Baras/Osborne/McGraw-Hill 1984

Harness the vast capabilities of the Lotus 1-2-3™ software package with this fast-moving tutorial, featuring instructions for both beginning and experienced users. You'll learn how to implement practical application models that take full advantage of Lotus 1-2-3™'s integration of spreadsheet, data base, and graphics functions. With this comprehensive guide to Lotus 1-2-3™, the business professional can more effectively meet needs for financial forecasting, consolidating business statements, simulating dynamic processes, and much more.

92234N \$19.95 ea.

1-2-3™ For Business D. Cobb and L. Anderson/QUE Corporation 1984

Learn to manage your business more effectively using the powerful integrated program, 1-2-3™. Fourteen practical business applications are presented in an interesting and readable case format. Included are models for managing cash flow, loan amortization, fixed asset management, ratio analysis, projecting cash flow, project management, accounts receivable management, and more. Careful instructions guide you through the construction of each model, and explanations of the business concepts help you apply the models to your particular situation. The models illustrate all of the advanced features of 1-2-3™, including keyboard macros, the data base function, range names, and graphics. Whether you are a beginning or advanced user of 1-2-3™, this book is an excellent investment.

92234R \$18.95 ea.

Mastering Symphony Douglas Cobb/SYBEX 1984

Put Symphony to work for you right away. This authoritative text uses examples from the business environment to illustrate Symphony's features and functions. For those who are upgrading from 1-2-3 to Symphony, the differences between the two programs are explained. For the business user, you'll find this book packed with practical applications including important tips on how to integrate Symphony's various features.

92234Z \$26.95 ea.

Note: product names followed by ® or ™ are trademarks of their respective companies. For a complete listing, see page 158.

Self-paced learning courses

Learning COBOL II/3000

This is an entry-level course to teach beginning programmers or programmers who have experience with other languages to write COBOL II programs interactively on the HP 3000 Computer. It has no formal prerequisites but familiarity with basic computer concepts is desirable.

Course Content:

- Simple COBOL programming
- Program variations
- The structure and syntax of COBOL
- Simple arithmetic statements, comments, diagnostics
- Advanced arithmetic and control statements
- Additional data concepts
- All about files
- Applied interactive COBOL

22832A Learning COBOL II/3000. Course materials include: Set of nine audio cassettes (playable on any standard cassette player) with storage binder, one student workbook, one "COBOL II/3000 Reference Manual" and one "Using the HP 3000 Manual." Course completion time is approximately 25 hours.

Price \$475.00 ea.

22832-93001 Learning COBOL II/3000 Student Workbook. Extra workbook for course.

Price \$80.00 ea.



Using Dictionary/3000



This self-paced course is an introduction to Dictionary/3000, HP's data dictionary facility. It does not teach database design but leads you through the steps of defining entries in the data dictionary and of creating and maintaining IMAGE/3000 databases. This course is designed for the non-technical user and is intended for a database administrator or for a programmer acting as a database administrator. Prerequisites for this course are the course "HP 3000, A Guided Tour" (See 22835B) or general knowledge of the HP 3000 gained through experience. Knowledge of IMAGE/3000 is helpful but not necessary for those who will not be designing new databases. Course content:

- Presenting Dictionary/3000
- IMAGE data structures
- Interactive data basics
- Commanding your files
- File security
- Dictionary/3000 utilities

There are system prerequisites for the course. Hardware needed: HP 3000, character or block mode terminal. Software needed: MPE III, IV, or V, IMAGE/3000 and Dictionary/3000.

22843A Using Dictionary/3000. Course materials include a 1600 BPI tape (for data cartridge format, specify option 022), one set of self-paced booklets containing reading material, practice exercises, answers to exercises, and one copy of "Dictionary 3000 Reference Manual." Complete instructions are included for the system manager to install the course on your 3000. Course completion time is approximately 12 hours.

Price \$500.00 ea.

Specify Opt. 022 for data cartridge format.

22843-60001 Self-Paced Booklets. Extra set of booklets for Using Dictionary/3000.

Price \$175.00 set

HP 3000: A Guided Tour



22835B HP 3000 Guided Tour Kit

"A Guided Tour" is a self-paced learning course that acquaints you with the range of information handling tools that are directly available on your HP 3000. It is designed for all non-programmers, administrative, clerical, professional people who want to know about and use the HP 3000 Computer System. Course Content:

- General concepts—Operating the terminal, logging on and off, executing a program
- Issuing commands—Commonly used commands discussed, HELP facility and user commands
- File system—Files on the HP 3000; what they are, how they are used and how to access them
- Account structure—Discussion of security/user structure
- Entering data—Application program used to explain data entry functions
- Databases—Discussion of how data is stored after entry and how QUERY can be used to access the data

- Entering text—A brief lesson in EDIT/3000. Introduces you to the idea of using the computer for such common tasks as report generation

There are system prerequisites for the course. Hardware needed: HP 3000, HP terminal which supports V/3000 (block mode). Software needed: MPE data coded 2011 or later, Editor, IMAGE/3000 QUERY/3000 and V/3000.

22835B HP 3000: A Guided Tour. Course materials include a 1600 BPI magnetic tape (for data cartridge format, specify option 022), three sets of self-paced booklets (one terminal per user is required), and complete instructions for the systems manager to install the course on your HP 3000. Course time is approximately seven hours.

Price \$375.00 ea.

Specify Opt. 022 for data cartridge format.

22835-60001 Self-Paced Booklets. Extra set of booklets for "A Guided Tour."

Price \$130.00 set

Programming in Transact/3000

This self-paced course is for experienced programmers. It introduces the HP Transact/3000 programming language. You learn at your own pace effective programming techniques through exercises and numerous examples. The course assumes a knowledge of the HP 3000, plus a knowledge of IMAGE/3000 databases and of VPLUS/3000 forms (FORMSPEC) for the last two content modules. Course Content:

- Getting started—An introduction to Transact/3000
- Using data items
- Rounding out Transact
- Data management overview
- Using IMAGE with Transact
- Using VPLUS with Transact

There are system prerequisites for this course. Hardware: HP 3000, character or block mode terminal for content modules 1 through 5 and a terminal that

supports VPLUS/3000 for content module 5. Software: MPE III, IV, or V, Transact/3000, IMAGE 3000 and VPLUS/3000.

22842A Programming in Transact/3000. Course materials include a 1600 BPI tape (for data cartridge format, specify option 022), one set of self-paced booklets containing reading material, practice exercises, answers to the exercises, and one copy of the "Transact/3000 Reference Manual." Complete instructions are included for the system manager to install the course on your HP 3000. Course completion time is approximately 32 hours.

Price \$750.00 ea.

Specify Option 022 for data cartridge format.

22842-60001 Self-Paced Booklets. Extra set of booklets for programming in Transact/3000.

Price \$280.00 set

Other courses

22833B Using HP Decision Support Graphics/3000. Includes Reference Manual, Quick Reference Guide, and two self-paced course booklets.

Price \$490.00 set

22840B Using HPDRAW. Includes Reference Manual and two self-paced course booklets.

Price \$420.00 set

32120-90020 Learning HPWORD Part 1.

Price \$40.00 ea.

32120-90021 Learning HPWORD Part 2.

Price \$40.00 ea.

Documentation storage accessories

Keep important reference manuals at your fingertips!



92171M Documentation storage rack

- Unique binder channels allow:
 - Easy loading
 - Quick additions, deletions and updates
 - Easy page turning
 - Viewing the entire page—even the margins
- Strong support wings let the pages lie open and flat
- Adjustable for user comfort—30 or 40 inches for stand-up or sit-down comfort
- Holds up to 6 inches of standard three-hole-punched documentation (8.5 × 11 inches)
- Expandable—racks may be coupled to build larger storage systems

(1-2) \$60.00 ea.

(3+) 56.00 ea.

92171L Locking bar for documentation storage rack.

This metal security bar with lock set prevents unauthorized removal of your reference documents. For use with product number 92171M.

Price \$20.00 ea.

HP documentation binders—handsome and rugged



9282-0069 2-inch white HP 3000 System documentation binder

(1-9 binders) \$11.00 ea.

(10+) 8.00 ea.

9282-0520 2.5-inch white HP 3000 System documentation binder

(1-9 binders) \$14.00 ea.

(10+) 10.00 ea.

9282-0658 1-inch brown HP documentation binder

(1-9 binders) \$10.50 ea.

(10+) 7.50 ea.

9282-0659 2-inch brown HP documentation binder

(1-9 binders) \$13.00 ea.

(10+) 9.50 ea.

Need convenient storage for your HP documentation? Order HP documentation binders... Ideal for sales literature, manuals and instruction books. Quality construction in .015 virgin vinyl. Rings have open/close boosters. For 8.5 × 11-inch page sizes. All binders are three-ring style.

9940-4192 1-inch blue HP documentation binder

(1-9 binders) \$8.00 ea.

(10+) 6.00 ea.

9940-4196 1.5-inch blue HP documentation binder

(1-9 binders) \$9.50 ea.

(10+) 7.00 ea.

9940-4622 2-inch blue HP documentation binder

(1-9 binders) \$12.00 ea.

(10+) 8.50 ea.

1 5958-0209 HP documentation binder and slip cover.

Perfect for a second set of PORTABLE manuals (see page 151), HP Series 100 Communicators (see page 152), and games instruction manuals. Also serves as a replacement for lost or damaged HP 120, 125, and 150A personal computer binders. Holds up to 1.25 inches of 5.5- × 8.5-inch three-ring documentation.

Price* \$15.00 ea.★

2 NEW 5958-0210 HP Touchscreen/Integral PC documentation binder and slip cover

—the ideal replacement for lost or damaged HP Touchscreen or Integral PC binders. Holds up to 1.25 inches of 7- × 8.5-inch three-ring documentation.

Price* \$15.00 ea.★

3 NEW 9282-1001 HP Series 80 documentation binder and slip cover.

Just right for Series 80 manual updates. Also serves as a replacement for lost or damaged Series 80 binders. Holds up to 1.25 inches of 7.75- × 9.5-inch three-ring documentation.

Price* \$15.00 ea.★

*Quantity discounts available.

★ For location of dealer nearest you, call: 800-FOR-HPCC (800-367-4772).



Computer documentation

HP reference service



A single, convenient and comprehensive source of information on the entire HP computer product line. Consists of an initial five-binder set updated three times per year. In addition, you receive a subscription to HP's Consultant's Newsletter, "Inside HP for Consultants," and telephone access to the Reference Service Information Line.

The products covered span HP's technical, business and personal computers, as well as associated peripherals and software products. Included is an introductory volume covering HP's organization, corporate objectives and history.

Following expiration of the first year's subscription, you can ensure your reference set has the latest information by resubscribing annually. Order the following product number for first year subscription only.

5957-8401 \$225.00 ea.

Resubscribe and receive three updates during the year, "Inside HP for Consultants," and telephone access to the Reference Service Information Line.

5957-8402 \$125.00 ea.



HP Documentation Index—free!

This publication provides you with three ways of locating all HP computer and peripheral manuals. The first two sections list manuals under the computer or peripheral product to which they belong. This is especially helpful if the manual's part number is not known. The third section allows fast reference since it is a listing of all manuals in numerical sequence by manual part number. Listings include title, print date and the latest update—if any.

Available without cost. In the U.S., ask for 5953-2460D. Others, ask for 5953-2460.

Popular reference manuals

For your convenience, a listing of the 100 most frequently ordered Hewlett-Packard computer reference manuals appears below.

If you have technical questions concerning computer reference manuals in general, please contact your local HP sales office. For a listing of these offices, refer to sales region index found on page 164.

Computer peripheral reference manuals

Tape drives

7970 Series Operating Manual	07970-90885
7970B/E Service Manual	07970-90887
7976A Operating Manual	07976-90901

Disc drives

7906 Service Manual	07906-90903
7908 Operator Instruction Manual	07908-90901
7908 Operating & Installation Manual	07908-90902
9121D/S Operator's Manual (English)	09121-90000
9114A Operator's Manual	09114-90000

Printers

2225A ThinkJet Reference Manual	02225-90007
2602A Owner's Manual	02602-90001
2630B Family Service Manual	02631-90919

LaserJet Printer Owner's Manual

LaserJet Service Manual	02686-90901
2930 Series Owner's Manual	02686-90904
82906A Printer Owner's Manual (English)	02932-90001
	82906-90001

Plotters

7470A Graphic Plotter Interfacing & Programming Manual	07470-90001
7470A Graphic Plotter Operating Manual	07470-90002
7475A Graphic Plotter Interfacing & Programming Manual	07475-90001
7580A/7585A Drafting Plotter Operator's Manual	07580-90013
7580B/7585B/7686B Drafting Plotter Operating & Programming Manual	07580-90034

Terminals

2392A Display Terminal Reference Manual	02390-90001
2621 Interactive Terminal Owner's Manual	02620-90062
2622 User's Manual	02622-90001
2622A/2623A Display Station Reference Manual	02622-90008
2624B Display Station User's Manual	02624-90007
2625A/2628A User's Manual	02625-90001
2626A/W User's Manual	02626-90010
2627A User's Manual	02627-90001
264X Composite Service Manual	02640-90170
2647F Reference Manual	02647-90037

★ For location of dealer nearest you, call: 800-FOR-HP (800-367-4772).

Personal/desktop computer reference manuals★

Series 80

HP-85 Owner's Manual (English)	00085-90002
HP-85 Owner's Manual (French)	00085-90014
HP-85 Owner's Manual (German)	00085-90020
HP-85 Pocket Guide (English)	00085-90040
HP-85 Matrix ROM Manual (English)	00085-90144
Introduction to the HP-86B	00086-90060
HP-87 Pocket Guide (English)	00087-90001
Introduction to the HP-87 (English)	00087-90002
HP-87 Operating & BASIC Programming Manual (English)	00087-90017
Series 80 I/O ROM Owner's Manual (English)	00087-90121

Series 80 I/O ROM Pocket Guide (English)	00087-90122
Series 80 Plotter Programming Guide	07580-90032
Series 80 Software Catalog	5953-7804

Series 100

PORTABLE Owner's Manual	00090-90004
PORTABLE MS-DOS User's Guide	00090-90006
MEMOMAKER User's Manual for the PORTABLE	00090-90019
VISICALC/12x Quick Reference Kit	45531-60002
GRAPHICS/12x Quick Reference Kit	45532-60002
WORD/12x Quick Reference Kit	45533-60004
BASIC/12x Quick Reference Kit	45535-60001
HP 12x System Reference Manual	45536-90000

WORDSTAR/150 Quick Reference Guide	45400-90000
VISICALC/150 Quick Reference Guide	45405-90000
GRAPHICS/150 Quick Reference Guide	45410-90000
CONDOR/150 Quick Reference Guide	45415-90000
MEMOMAKER/150 Quick Reference Guide	45420-90000
PCF/150 Quick Reference Guide	45422-90000
DSN/LINK/150 Quick Reference Guide	45425-90000
BASIC/150 Quick Reference Guide	45445-90000
HP150/MS-DOS User's Guide	45624A
HP150 Technical Reference Manual	45625A
HP150 Internal Modem User's Manual	45640-90002

HP 250 reference manuals

MFG/250 Reports Brochure	45180-90080	Preparing for Your HP 250	45260-90040	HP 250 General Information Manual	45260-90081
--------------------------	-------------	---------------------------	-------------	-----------------------------------	-------------

HP 1000 reference manuals

Operating system

Getting Acquainted with RTE-IVB Manual	92068-90001
RTE-IVB Terminal User's Manual	92068-90002
RTE-IVB Quick Reference Guide	92068-90003
RTE-IVB Programming Reference Manual	92068-90004
RTE-IVB Batch & Spool Reference Manual	92068-90005
RTE-IVB Systems Manager Manual	92068-90006
RTE-IVB On-Line Generator Manual	92068-90007
RTE-IVB Utility Program Reference Manual	92068-90010
RTE-A User's Manual	92077-90002
RTE-A Quick Reference Guide	92077-90020

RTE-6/VM Quick Reference Guide	92084-90003
RTE-6/VM Terminal User's Reference Manual	92084-90004
RTE-6/VM Programming Reference Manual	92084-90005

Subsystem/applications

DS/1000-IV User's Manual	91750-90002
IMAGE/1000 Reference Manual	92069-90001
IMAGE/1000 Database Management Manual	92069-90005
EDIT/1000 User's Guide	92074-90001

Language

RTE FORTRAN IV Reference Manual	92060-90023
---------------------------------	-------------

PASCAL/1000 Reference Manual	92832-90001
Programming in PASCAL	97082-90002
RTE FORTRAN 4X Reference Manual	92834-90001
FORTRAN 77 RTE-6/VM and RTE-A Reference Manual	92836-90001

General information

HP 1000 E-Series Computer Operating & Reference Manual	02109-90014
Site Preparation & Planning Workbook	02170-90016
Data Systems Customer Support Handbook (2114/15/16, 2100, 21MX-M & E Series)	5950-3767
HP 1000 M/E/F Technical Reference Handbook	5955-0282

HP 3000 reference manuals

Operating system

MPE Commands Reference Manual	30000-90009
MPE Intrinsics Reference Manual	30000-90010
MPE Segmenter Reference Manual	30000-90011
MPE IV System Manager Reference Manual	30000-90014
MPE IV System Utilities Reference Manual	30000-90044
Software Pocket Guide	30000-90049
Using Files-A Guide for New Users	30000-90102
Computer Systems Console Operator's Guide	32002-90004

Subsystem/utility

EDIT Reference Manual	03000-90012
FCOPY Reference Manual	03000-90064
QUERY Reference Manual	30000-90042
KSAM Reference Manual	30000-90079
V 3000 Reference Manual	32209-90001
V 3000 Entry Program Operator's Guide	32209-90003
Using V/3000	32209-90004
SORT MERGE/3000 Reference Manual	32214-90002
IMAGE/3000 Reference Manual	32215-90003

Languages

BASIC/3000 for Beginners	03000-90025
BASIC/3000 Pocket Guide	03000-90050
Using the HP 3000: An Introduction to Interactive Programming	03000-90121
SPL/3000 Reference Manual	30000-90024
SPL/3000 Textbook	30000-90025
BASIC/3000 Interpreter Manual	30000-90026
FORTRAN/3000 Reference Manual	30000-90040
System Programming Language Pocket Guide	32100-90001
BASIC Compiler Reference Manual	32103-90001
PASCAL/3000 Reference Manual	32106-90001
COBOL/3000 Reference Manual	32213-90001
Using COBOL: A Guide for New Users of HP 3000 Computer Systems	32213-90003
COBOL II/3000 Reference Manual	32233-90001

Data communications

Data Communications Handbook	30000-90105
Data Communications Guide Book	5955-1715

Information systems

HP Draw Reference Manual	32108-90001
--------------------------	-------------

HP Easy Chart Reference Manual	32109-90001
HPWORD Reference Guide	32120-90001
HPWORD Quick Reference Guide	32120-90002
DICTIONARY/3000 Reference Manual	32244-90001
REPORT/3000 User's Guide	32245-90001
INFORM/3000 User's Guide	32246-90001
TRANSACT/3000 Reference Manual	32247-90001
DSG/3000 Manual	32250-90001
Learning HPDESKMANAGER Reference Guide-Paperback Version	36570-90001
HPDESKMANAGER Reference Guide	36570-90002
HPDESKMANAGER Administration Manual	36570-90004
HPSLATE/3000 Reference Manual	36576-90001
Learning HPSLATE/3000	36576-90002
TDP/3000 Reference Manual	36578-90001
Using TDP/3000	36578-90002
TDP/3000 Quick Reference Guide	36578-90003

General information

3000 Computer Systems Site Preparation Set	30000-60029
3000 Series 64 Site Preparation Set	30140-60085

HP 9000 reference manuals

Series 200

BASIC 2.0 Programming Techniques Manual (with BASIC 2.0 Extension)	09826-90011
BASIC 2.0 Language Reference Manual (with BASIC 2.0 Extension)	09826-90056
BASIC 2.0 Manual Kit (with BASIC 2.0 Extension)	98612-87902

HPL 2.1 Condensed Reference Manual	98614-90020
HP-UX Manual Kit	98680-87901
PASCAL Manual Kit	09826-87904

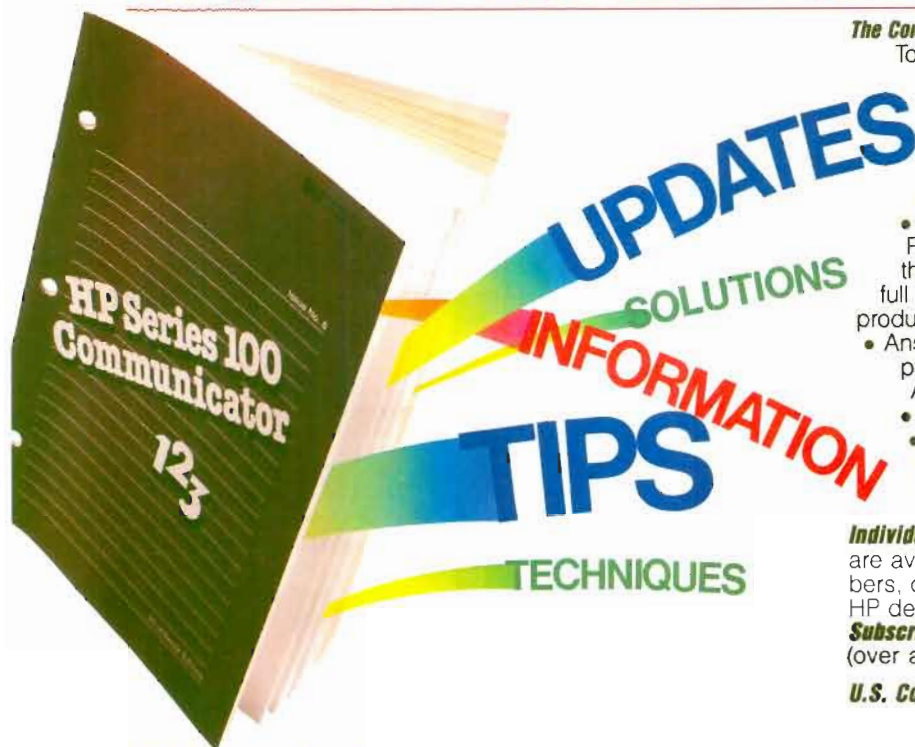
Series 500

BASIC Manual Package	97050-80020
BASIC Programming Techniques Manual	97050-90000

BASIC Graphics Programming Techniques Manual	97052-90000
IMAGE Database Programming Techniques Manual	97053-90000
HP-UX Reference Manual	09000-90006
Local Area Network User's Guide	97059-90000
Preparing for Your HP9000	09040-90040

★ For location of dealer nearest you, call: 800-FOR-HPCC (800-367-4772).

Magazines and catalogs



The Communicator, Hewlett-Packard's magazine for HP PORTABLE, Touchscreen (HP 150), and HP 12x users, is the heart of the Series 100 support system. Each issue features timely and pertinent articles on how to best use your Series 100 system. You'll find such articles as:

- "Plotting Condor Data with HP Graphics"
- "Install your BASIC/150 application in PAM"
- "Three-Column print in WORD/12x"
- "The PORTABLE: Compatibility with the HP 150"

Plus! . . . We've added a new software-related section called the *Series 100 Encyclopedia*. It brings you helpful articles full of the latest information for every Series 100 software product. In the Encyclopedia you will find:

- Answers to the most frequently asked questions about each product. (Based on the experience of HP's Phone-In Software Assistance Centers.)
- Solutions to software problems.
- Corrections to product manuals.
- Information on program updates or upgrades.
- An index of articles from back issues of the *Communicator* and related HP publications.

Individual copies: Present and past issues of the *Communicator* are available individually by part number. For these part numbers, consult a current issue of the *Communicator* or your local HP dealer.

Subscriptions: A six-issue subscription to the *Communicator* (over approximately one year)

U.S. Communicator 45530A \$24.00 year

HP catalogs, directories—your roadmap to software

Series 80 Software Catalog. The Series 80 Software Catalog is a handy reference guide to a growing list of programming solutions available for HP Series 80 Personal Computers. It includes summaries of HP-developed and third-party application packages as well as inexpensive contributed programs. Whether you want inexpensive programs to solve specific computing problems or a total software solution, the Series 80 Software Catalog is your guide to the right software to meet your needs.

5953-7804 \$15.95 ea.

NEW The Hewlett-Packard Software Catalog—The Complete Collection of Software for the Touchscreen Personal Computer and The PORTABLE. With hundreds of Touchscreen and PORTABLE programs to choose from, locating the right one can be like looking for a needle in a haystack. Except, of course, if you have the latest edition of HP's Software Catalog. With this guide, seconds are all you need to find the right solution for any of your software needs—from business management to programming tools. Listed products are developed either by Hewlett-Packard or independent software vendors. Product summaries include a complete description, required system configuration, support and training information, suggested retail price and ordering information. And for your convenience, each package is indexed by title, category and vendor in this authoritative guide published quarterly.

5953-5880 \$12.95 ea. ★



Third Party Technical Software Solutions Catalog.

A single reference source of software for HP Series 200 (Models 216, 226, 236), HP Desktops (9845), HP 9000, HP 1000 and selected HP Series 80 (85/86/87) Computers. The catalog consists of HP-developed and HP PLUS software for all technical and desktop computers.

5957-4315 \$30.00 ea.

Subscription Service. Includes three updates during the year.

5957-8403 \$80.00 ea.

9800 Exchange Library Software Index. A complete reference source of inexpensive, useful applications software and utilities for HP9845/35 users. The catalog lists and describes several hundred programs for engineering, math, statistics, business management, utilities, and life and physical sciences.

5957-4317 \$15.00 ea.

Business Systems Software Solutions Directory.

A comprehensive collection of software running on the HP 3000 and HP 250, including software from U.S. and Canadian software suppliers (HP PLUS), as well as HP sold and supported software. With over 250 pages of software listed, this is an invaluable tool for HP commercial minicomputer users and prospects.

30000-90251 \$30.00 ea.

Subscription Service. Includes three updates during the year.

5957-8404 \$80.00 ea.

Series 100 software updates. Low-cost updates are available for HP Series 100 software. Each update consists of a new disc and the appropriate manual updates. For current ordering information, refer to the latest issue of the *Series 100 Communicator*. See above.

★ For location of dealer nearest you, call: 800-FOR-HPCC (800-367-4772).

Trade publications—your window into the world of HP computers

PROFESSIONAL COMPUTING: The Independent Source for Hewlett-Packard PC Users

is the first magazine specifically designed for people who buy and use HP personal computer systems. Articles are written by foremost experts on new ways to expand and upgrade HP systems as well as innovative applications in the office, laboratory, space, medicine, science and recreation.

Departments include a *User's Exchange* to share problems, solutions and applications; *Software Reviews* of new packages for various HP models; *Hardware Reviews* of equipment and its impact on software capabilities; a *Buyer's Guide* evaluating HP compatibility with non-HP equipment; a *New Product Update* containing a listing of new software and hardware; and a *New Literature Section*. Subscriptions are \$30 for the first year (six issues). Outside U.S., add \$10 for postage and handling. To enter your subscription write: *Professional Computing*, John Wiley & Sons, Inc., 605 Third Avenue, New York, NY 10158.



THE CHRONICLE: The independent monthly newspaper for HP computer users. Each issue provides: *Timely News*—the latest information and product announcements; *Better News*—written in a concise, easy-to-understand style; *Complete News*—covers all HP computer/calculator products.

THE CHRONICLE also provides additional services: *Reader Service*—an easy way to request information on products and/or services; *Software Source*—a quarterly pullout directory featuring software listings indexed by computer system and category; *Business Reply Cards*—a quarterly mailing of useful retail information, in handy postcard format; and *Reader Survey*—a monthly poll of HP users' views on topics of interest.

Most important, *THE CHRONICLE* serves all HP computer users with a high-quality publication that reflects HP's reputation for excellence.

Subscriptions are \$24 per year in the U.S. and \$48 per year elsewhere. To subscribe, call or write: *THE CHRONICLE*, Wilson Publications Inc., PO Box 10998, #450, Austin, Texas 78766, (512) 250-5518.



HP Computer users groups

The independent organizations below are listed as a service to our readers. Space limitations make it necessary to list only those organizations that are international in scope.

SuperGroup is a worldwide association of HP 3000 users. As a member, you'll receive the bi-monthly magazine that includes timely, practical articles to put you in touch with other HP 3000 users throughout the world, as well as the *Product Desk Reference*, a twice-yearly catalog that's a complete source for HP 3000-related equipment, software and services. SuperGroup members with EasyLink electronic mail accounts will also receive *Instant Update*, a news service designed to keep you abreast of user-oriented news between magazine issues. Membership is \$35 per year. Contact SuperGroup Association, 348 East South Temple, Salt Lake City, Utah 84111, (801) 521-3000.



Interex, The International Association of Hewlett-Packard Computer Users

is a nonprofit professional association dedicated to helping you get the most from your HP 3000, HP 1000 or HP Series 100 system. Interex keeps you in touch with other HP computer users through publications, conferences, a library of current programs and up-to-date information about the HP computing world.

Memberships: Serving more than 7000 users in more than 40 countries, Interex offers tax-deductible memberships and various services. Membership fees are \$425 for HP 3000 users, \$400 for HP 1000 users and \$50 for HP Series 100 users. Based on the type of your mem-

bership, you can enjoy such Interex services as: access to a Contributed Software Library tape; subscription to *Interact* (for HP 3000 users), *TC Interface* (for HP 1000 users), or *Professional Computing* (for HP Series 100 users); voting privileges; membership in a special interest group; discounts on various Interex activities and services.

Write Interex: For more information about this exciting HP computer users group, please call or write for your FREE prospective member packet:

Interex, 2570 El Camino Real West, Fourth Floor, Mountain View, CA 94040, U.S.A. (415) 941-9960; ask for Sally.

A.

AC Circuit Analysis	59
Acoustic couplers	5, 40
Action Games	68
AdvanceLink	58
Adventure	70
Album file	
Data cartridge	141
Flexible discs	133, 135
Anti-glare filters	97
Antistatic protection	98, 99

B.

Bar code readers	
& accessories	76, 77
Baron	73
BASIC	65
Basic Programmer's Library	64
Basic Statistics & Data	
Manipulation	66
BASIC Training	64
Batteries	
Disc drive	41
Terminals	77
Binders	
Data	93
Data binder handles	93
Data cartridge	141
Documentation	149
Flexible disc	136
Manuals	149
Mini-data cartridge	141
Tape cartridge	141
Books	
Calculators	144
Data base & spreadsheets	147
Data communications	145
Graphics	146
Operating Systems	146
Professional reference	146
Programming	
languages	144
Word processing	147
BPI Accounts Payable	54
BPI Accounts Receivable	54
BPI General Accounting	54
BPI Inventory Control	54
BPI Job Cost	54
BPI Payroll	54
BPI Personal Accounting	
System	55

C.

Cabinets	
Accessories	91
Design Plus system	84
Magnetic tape	
storage	92, 143
Printout/documentation	
storage	92
Cables	
Cable management kit	26
Centronics-type	18
Connector kits	23
Covers	26
Gender converters	16
HP-IB	11
HP-IL	11
Local area networks	12-15
Mult. outlet strips	26
Personal computer	17
Plotter	18, 19
Power line	
conditioners	24, 25
Printer	18
RS232C extension	16
RS422	22
Shared resource	
management	11
Terminal	19-22

Unterminated	23
Calculator HP-UX	55
Calculators	
HP-97A supplies	33
Series 10:	
HP-11C-12C-	
15C-16C	28, 29
Series 10	
accessories	28, 29
Series 10 desktop calculator	
stand	29
Series 40	
HP 41CV, HP 41CX	30
Series 40 accessories	32
Cards	
Magnetic	38
Carpet, antistatic	99
Carrying cases	101
Cartridges	
Disc	139
Easy load mg tape	142
High-density data	140
Mini-data	140
Cartridge storage	141
Cassette drive	34
Casters, table	86
Catalogs, software	152
Chairs, ergonomic	88, 89
Character fonts,	
plug-in	110-112
Charting Gallery	60
Cleaning	
kits	97, 103, 109, 136, 137
Cleaning supplies	
Cartridges, mag	
tape drives	137
Flexible disc	
drive	136, 137
COBOL by Microsoft	64
Compiled BASIC by	
Microsoft	64
CompuServe	4
Computer	
Accessories	
PORTABLE	40, 41
Series 40	32
Series 70	38
Series 80	45
Series 9800	141
Touchscreen	42, 43
Advanced programmable	
calculator	30
Catalogs,	
subscriptions	4, 152, 153
Computer tape,	
magnetic	142
Connector kits, cable	23
Copy holder	94
Cover, dust	100
Crimp tool	23
Display tray	94
Display turntables	94
Firmware	
PORTABLE	40, 41
Series 80	44-46
Touchscreen	42, 43
Peripherals	74-79
HP-IL	34
PORTABLE	40, 41
Series 40	31
Series	
100.200	78, 118, 119
Touchscreen	42, 43
Software	
Series 40	32
Series 70	37, 38
Series 80	48, 49
Series 100	50, 51
Series 200	51-53
IBM compatible	53
Terminals	
HP 2392A	75
Condor 1	57
Condor 3	57

Context MBA	55
CP/M System	64
Cross Reference Utility	64
CUTTHROATS	70
Cyborg	70

D.

Data cartridge	
Desktop storage rack	141
High-density	140
Mini	140
Storage binder	141
Datacomm	58
Data Communications	59
DataFax	58
Data Grapher	60
DATEBOOK II	55
dBASE II	58
Deadline	70
Diagraph	60
Digital cassettes	140
Digital cassette drive	34
Digital Filter Design	59
Disc cartridges	139
Bottom cover	139
Desktop storage rack	139
Disc drive, PORTABLE	40
Disc, flexible	131, 134
Desktop storage	
132-133, 135-136	
Hanging files	133, 136
Transport	
cases	132, 133, 135
Disc packs	139
Storage cabinets	92, 143
Display tilt unit	96
Documentation	
Binders	149
Index	150
Storage rack	149
Dow Jones Spreadsheet	
Link	59
Drafting plotter	
Accessories	126-129
Media	123
Drawing Gallery	60
Drum kit, laser page	
printer	110
Dust covers	100

E.

Electronics Engineering	
Multi Pac	59
Enchanter	71
Enclosure, sound	105
Ergonomic accessories	94-96
Ergonomic chairs	88, 89
ExecuDesk	55
Executive MemoMaker	67

F.

FILE/80	58
File Manager	58
Filters, anti-glare	97
Financial Calculator	56
Financial Decisions	55
Firmware Ser. 80	44-46
Flexible discs	131, 134
Storage accessories	
132-133, 135-136	
Fonts, plug-in	
character	110-112
Footrest	94
Forecasting	56
Formatted high-density data	
cartridges	140
Forms	
Printer layout	108
Tractors	103, 108
Transporter	104
Forms Master	64

FORTTRAN by Microsoft	64
Furniture	
Cabinets	90-92
Chairs	88, 89
Design Plus	81-84
Standard	80, 85-87

G.

Galaxy Patrol	68
Gallery Collection (The)	60
Gallery Picture Library,	
Vol. II	60
Games I	69
Games II	69
Games/200	68
General Statistics	66
Gloves, cleaning	137
Graphic supplies	117-129
Graphics Editor/200	60
Graphics Presentations	61
Graphics tablet	
accessories	129
GraphPlan	56
Graphwriter Basic Set	61
GW Basic by Microsoft	64

H.

Handheld computers	
HP 71B	36, 37
HP 75D	38
Head alignment tape	143
Head cleaner, mag tape	137
Hitchhiker's Guide	71
Home Budget Manager	56
HP-IB cables	11
HP-IL accessories	34
HP-IL cables	11
HP-IL peripherals	34
HP Reference Service	150
HP TechWriter	67
HP-UX BASIC	64
HP-UX C Compiler	64
HP-UX Development	
System	65

I.

Icon Design System	65
Impact printer	
Accessories	103-105
Supplies	106-108
Infidel	71
Information Management	
(IMPac)	58
Ink-jet printer	78, 79
Supplies	113
Index, computer	
documentation	150
Initialized flexible disc for	
HP 250	134
Interface modules	34, 45

K.

Keyboard parks	95
----------------	----

L.

LaserJet Printer	
Character Fonts	111
Paper trays	112
Toner	112
Laser page printers	
Carrier	110
Character fonts	112
Continuous paper	111
Developer	110
Disposal containers	110
Drum kit	110
Maintenance kit	111
Toner	111

Tool kit	110
Lattice* C Compiler	65
Learning courses,	
self-paced	148
Linear Programming	66
Linear Systems Analysis	59
Local Area Networks	12-15

M.

Magazines	
Professional	
Computing	153
Series 100	
Communicator	152
The Chronicle	153
Magnetic card reader	31
Magnetic program card	141
Magnetic tape	142
Auto load cartridges	142
Auto load reels	143
Carrying case	143
Cleaning supplies	136, 137
Desktop wire rack	142
Head alignment tape	143
Identification system	143
Labels	142
Sense markers	143
MailMerge™	67
Manuals,	
Computer	150, 151
Local Area Network	14
Math	66
Mats	
Antistatic	98, 99
Sound absorbing	105
Media handling	
accessories	129
MemoMaker	67
Micro flexible discs	131
Accessories	132, 133
MicroPlan™	56
MicroPlan Consolidation	
Module™	56
Microsoft® Word	67
MicroSpoolers	7
MicroTrak™	56
MILESTONE	56
Milky Way Merchant	73
Millionaire™	73
Mind Prober™	63
Mobile table	87
Modems	
Anderson Jacobson	
modem	4
Hayes Smartmodem 1200	4
Hayes Smartmodem 2400	3
Security modem	5
Touchscreen internal	
modem	43
Monitor/IBM PC	59
MultiMate™	67
MultiPlan™	56
Multi-outlet strip	26
Multiplexers	7, 8

N.

Numerical Analysis	
Library	66

O.

Optical wand	31
Outlet strips	26
Overhead transparency	
Film	122
Supplies	125, 128-129
Overlays	
Keyboard	45

P.

PASCAL by Microsoft*	65
----------------------	----

Palm rest, extended	
keyboard	95
Paper	
Bar code	123
Blank roll	122
Glossy presentation	122
Impact printer	107
Laser printer	111
Plotter	122, 123
Thermal	114-116
Transporter	104
24-Hour recording	
paper	123
Paper tape	108
Paper tray for	
2674A Printer	42
Pens, plotter	124-127
Peripherals	74-79
41C	31
HP-IL	34
PORTABLE	40, 41
Series 100/	
200	78, 118-119
Touchscreen	42, 43
Personal Card File	58
Personal computer	
(see "computer")	
Personal Correspondence	
Pack	63
PERSONAL	
DATEBOOK™	57
Personal Organizer Pack	63
Personal Productivity	
Pac	57
PFS:® File & PFS:® Report	58
PFS:® GRAPH	61
PFS:® WRITE	67
Picture Perfect™	61
Planetfall™	71
Platen Cleaner Pak™	103
Plotter	
Accessories	120-129
HP 7470A	118
HP 7475A	119
Media	122, 123
Plotter pen organizer	128
Plotter pens	124-127
Plotter stand	104
Plotter supplies kit	128
Plug-in modules	44
Polyester film, drafting	
plotter	123
Portable computers	36-38
Bar code	38
Portable modular jack	5
Portfolio Management	57
Power line conditioners	24-25
Power strip	26
Printers	
2225 ThinkJet	78-79
2674A Internal Thermal	42
82143A Thermal	31
82162A Thermal	34
Printer stand	87, 104
Printer starter kits	104
Print heads	108
Printout storage cabinet	92
Printwheels	109-110
Printwheel cleaning kit	109
Printwheel storage album	108
Professional	
Communications	59
Programmable	
calculators	28-30
Programmer's Tools	65
Project Management	57
Punch, VFU tape	108

R.

Rack, documentation	
storage	149
Racks, wire	
Disc cartridges	139

Magnetic tape	142
Mini-data cartridge	141
Rags to Riches Ledger	55
Rags to Riches Payables™	55
Rags to Riches	
Receivables™	55
Rags to Riches Sales™	55
Regression Analysis	66
Ribbons	106, 107
Ricochet	69
ROMs	
Series 70 plug-in application	
ROMs	38
Series 80 firmware	
enhancements	44
RS232C ABC switch	6
RS232C Dual ABC switch	6
RS232 extension cables	16
RS422 cables	22
Ruler	104

S.

SARGON III	73
SEASTALKER™	71
Self-paced courses	148
Sheet feeder, automatic	103
Sheet feeder paper tray	108
Software (see Computer)	
Software catalogs	140
Solution books	
Series 10	28, 29
Series 70	38
SORCERER™	71
Sound enclosures	105
SpelBound™	69
SpellStar™	67
Stand, printer/plotter	104
Stand, printer terminal	87
Standard Pac	65
Starcross™	72
Static protection	98, 99
Statistical Analysis Multi	
Pac	66
Statistics Library,	
Part I	66
Statistics Library,	
Part II	66
Statistics Library, Complete	66
Storage	
Cabinets	90-92
Rack, mag tape	92, 143
Strap, grounding shoe	98
Surveying	59
SUSPECT™	72
Suspended™	72
Switch: ABC	6
Swivel adapter	96

T.

Tables	
Design Plus System	83
Workstation	86, 87
Tape	
Color/numbering kit	143
Digital cassettes	140
High-density data	
cartridges	140
Mini-data cartridges	140
Paper perforator	108
Reels, auto load	
magnetic	142
Reels, regular magnetic	143
Tape storage	142, 143
Temple of Apshai™	69
Term/80	59
Terminals	
HP 2392A	75
Terminal accessories	77
Terminal bar code	
reader	76, 77
Terminal tables	87
Test devices	9

Text Editing	67
Text Editor/200	67
The CALENDAR	62
The LIST MANAGER	62
The PLANNER	62
The SPELLER	63
The Witness™	72
The WRITER	63
Thermal paper	114-116
Thermal printer HP2674	42
Thermal/Printer	
Plotters	31, 34
ThinkJet Printer	78, 79
Tilt/Swivel unit	96
Touch Games I	69
Touchscreen Programmer's	
Tools	65
TK! Solver*	66
TK! Solver* Packs	66
Building Design &	
Construction	66
Financial Management	66
Introductory Science	66
Mechanical Engineering	66
Tracing bond, plotter	123
Transend Complete™	59
Transporters	
Flexible discs	132-133, 135
Paper	104
Turntables	
CRT standard	94
CRT tilting	94
Tycoon™	73
Type-a-Line	68
Type Attack™	69
Type font	
Character font	
cartridges	110
Software fonts	112

U.

User Definable Softkeys	55
-------------------------	----

V.

Vacuum cleaner bags	108
Vellum, drafting plotter	123
VFU Tape, punch/splicer	108
VisiCalc	57
VT 100 Terminal Emulator	59

W.

Waveform Analysis	59
Winning Deal	73
WordStar*	68
WordStar Professional	68
WordStar Professional	
Options	68
Word/80	68
Workstation furniture	
Caster set	86
Chairs	88, 89
Copyholder	94
Mobile drawer unit	86
Returns	86
Storage cabinet	90, 92
Storage module	86
Suspended drawer unit	86
Tables	86, 87
Work surface extension	86

Z.

Zork® I	72
Zork® II	72
Zork® III	72
1-2-3™ by Lotus	57

HP-10C Calculator

Accessories	28, 29
Desktop stand	29

HP-11C Calculator

Accessories	28, 29
Desktop stand	29
Solution books	29, 144

HP-12C Calculator

Accessories	28
Desktop stand	29
Solution books	28, 144

HP-15C Calculator

Accessories	28, 29
Desktop stand	29
Solution books	29

HP 16C Calculator

Accessories	28
Desktop stand	29

HP 41C Advanced programmable calculator

Accessories	32
Acoustic coupler	34
HP-IL video interface	34
Mag card reader	31
Optical wand	31
Thermal printer/plotter	31
ThinkJet printer	78, 79

HP 41CV/CX Advanced programmable calculator

AC adapter/recharger	35
Accessories	32
Battery pack	35
Blank key overlays	32
Blank labels	35
Data cassettes	35
Digital cassette drive	34
Extended functions/memory	32
Extended I/O module	32
Extended memory module	32
HP-IL cables	11
HP-IL/GPIO interface	34
HP-IL/HP-IB interface	34
HP-IL interface	32
HP-IL peripherals	34
HP-IL/RS232C interface	34
HP-IL/Series 80 interface	34
HP-41 touchpad	32
HP-IL video interface	34
Magnetic card reader	31
Manuals	33
Module holders	32
Optical wand	31
Overlays	32
Plotter module	32
Program cards	32
Program card holders	32
Security cable	32
Soft case	32
Software	32
Solution books	33
Thermal paper	32
Thermal printer/plotter	31
ThinkJet printer	78, 79
Time module	32

HP 71 Handheld

Computer	36
Accessories	37

Extensions	37
Software	37
Solution books	38
ThinkJet printer	78, 79

HP 75D Handheld

Computer	38
Accessories	38
Acoustic coupler	34
Bar code reader	38, 76, 77
HP-IL video interface	34
Manuals	38
Plug-in application ROMs	38
Software	38
ThinkJet printer	78, 79
Video monitors	34

Series 80 Computer

Acoustic coupler	34
Anti-glare filter	97
Bar code reader	76, 77
Books	144-147
Cables	17
Carrying cases	101
Dust covers	100
HP-IL cables	11
HP-IL video interface	34
Interfaces	45, 46
Manuals	151
Microfloppy discs and accessories	131-133
Mini-data cartridges	140
Mini-data cartridge file	141
Mini-data cartridge rack	141
Mini-data cartridge storage binder	141
Plug-in modules	44
ROMs	44
Software	48-49
Software catalog	152
Storage binder insert	141
Thermal paper	114
ThinkJet printer	78, 79
Three-ring literature binder	45
Video monitors	34

HP-97A Calculator

Accessories	33
Application pacs	33
Thermal paper	114

The PORTABLE (HP 110 Computer)

Accessories	40, 41
Acoustic coupler	40
Binder, slip cover	149
Books	65, 144-147
Cables	17
Carrying cases	41, 101
Manuals	151
Microfloppy discs and accessories	131-133
Microfloppy drive	40, 41
Modems	3-5
PORTABLE-Desktop Link	40
Series 100 Communicator	152
Software	50, 51
ThinkJet printer	78, 79

HP 120 Computer

Bar code labels	76
Bar code reader	76, 77

Books	144-147
Cables	20
Carrying case	101
Display tilt & swivel unit	96
Dust Cover	100
Keyboard palm rest	95
Keyboard park	95
Manuals	151
Microfloppy discs and accessories	131-133

HP 125 Computer

Anti-Glare Filter	97
Bar code labels	76
Bar code reader	76, 77
Books	144-147
Cables	20
Dust cover	100
Manuals	151
Microfloppy discs and accessories	131-133
Thermal paper	114
ThinkJet printer	78, 79

Touchscreen (HP 150 Computer)

Accessories	42, 43
Acoustic coupler	5
Bar code reader	76, 77
Books	65, 144-147
Cables	17
Cable assembly	15
Carrying Case	101
Display tilt	96
Dust cover	100
IBM 3278 emulation accessory	43
Internal printer	42
Keyboard park	95
LAN cables	15
Manuals	151
Microfloppy discs	131
Microfloppy disc accessories	132, 133
Internal modem	43
Modems	3-5
Paper tray	42
Peripheral sharing	6, 7
RAM memory boards	43
Software	50, 51
Thermal paper	114
ThinkJet printer	78, 79
Touchscreen-PORTABLE Link	43

Series 200 Model 16

Books	144-147
Cables	17
Display tilt & swivel unit	96
Keyboard parks	95
Microfloppy discs and accessories	131-133
Modems	3-5
Software	51, 52
Software catalog	152
ThinkJet printer	78, 79

Series 200 Models 217 & 237

Modems	3-5
Software	52

Series 200 HP-UX Models 217, 220 & 236

Modems	3-5
Software	53

HP 250 Computer

Flexible disc	134
Flexible disc accessories	135, 136

Manuals	151
Modems	3-5
ThinkJet printer	78, 79

HP 1000 Computer

Cables	17, 20-21
Flexible discs and accessories	134, 135-136
Manuals	151
Mini-data cartridges	140
Modems	3-5
Multiplexers	7, 8

IBM PCS

PORTABLE-Desktop Link	40
Software	53

2225 ThinkJet printer

Cables	18
Desktop stand	113
Dust cover	100
Ink cartridge	113
Paper	113
Peripheral sharing	6, 7

2382A Terminal

Cables	20
Carrying case	101
Display tilt & swivel	96
Dust cover	100
Swivel adapter	96

2392A Terminal

Bar code reader	76, 77
Dust cover	100
Keyboard park	95
Modems	3-5
Multiplexers	7, 8
Peripheral Sharing	6, 7

2563A Printer

Paper	107
Ribbons	106

2601A Printer

Multi-part forms tractor	103
Paper	107
Peripheral sharing	6, 7
Platen Cleaner Pak™	103
Printwheels	109
Printwheel clean kit	109
Ribbons	106
Sheet feeder, automatic	103
Sound absorbing pad	105
Sound enclosure	105

2602A Printer

Multi-part forms tractor	103
Paper	107
Peripheral sharing	6, 7
Platen Cleaner Pak™	103
Printwheels	109
Ribbons	106
Sheet feeder, automatic	103
Sound absorbing pad	105
Sound enclosure	105
Starter kits	104

2607A Printer

Paper	107
Ribbons	106
VFU tape	108

2608A/S Printer

Layout forms	108
Paper	107
Ribbons	106

- 2611A Printer**
Ribbons 106
- 2613A Printer**
Paper 107
Ribbons 106
Vacuum bags 108
VFU tape 108
- 2617A Printer**
Paper 107
Ribbons 106
VFU tape 108
- 2618A Printer**
Paper 107
Ribbons 106
VFU tape 108
- 2619A Printer**
Paper 107
Ribbons 106
Vacuum bags 108
VFU tape 108
- 262X Terminal**
Anti-Glare Filter 97
Bar code labels 76
Bar code reader 76, 77
Battery 77
Cables 20-22
Dust cover 100
Flexible discs and accessories 134, 135-136
Keyboard park 95
Paper 116
- 2631A/B/G Printer**
Cables 18
Dust cover 100
Manuals 150
Paper 107
Replacement print head 108
Ribbons 107
Sound cover 105
- 2635A/B Printing Terminal**
Paper 107
Ribbon 107
- 2639A Terminal**
Ribbon 107
- 264X Terminal**
Anti-Glare Filter 97
Cables 21, 22
Dust cover 100
Flexible discs and accessories 134-136
Mini-data cartridges 140
- 2671A/G Printers**
Thermal paper 115
- 2673A/2674A Printers**
Thermal paper 115
- 2675A Terminal**
Thermal paper 116
- 2680A Printer**
Carrier 110
Continuous form paper 111
Developer 110
Disposal containers 110
Drum kit 110
Paper 111
Splicing tape 111
Toner 111
Tool kit 110
- 2686 LaserJet Printer**
Cables 18
Character font 111
Cartridges 112
Paper trays 112
Peripheral sharing 6, 7
Toner 112
- 2687A Laser Printer**
Character font 112
cartridges 112
Data binders 93
Maintenance kit 111
Supplies 111
- 2688A Laser Printer**
Cables 22
Data binders 93
HP-IB extenders 11
Maintenance kit 111
Software fonts 112
Supplies 111
- 2767A Printer**
Ribbons 107
- 2932/33/34A Dot matrix printers**
Paper 107
Plug-in character style 110
cartridges 110
Ribbon cartridge 107
- HP 3000 Computer**
Cables 12-14, 16-23
Flexible discs and accessories 134-136
Learning aids 148
Manuals 151
Mini-data cartridges 140
Modems 3-5
Multiplexers 7, 8
- 3075/76/77A Terminals**
Thermal paper 116
- 3092/93 Terminals**
Keyboard template 77
- 7090A Plotter**
Carousel 129
Overhead transparency 122
film 122
Overhead transparency 128
kit 128
Paper 122
Paper and pen kit 128
Pens 125
Pen storage 128
- 7220A/B/C/S/T Plotter**
Digitizing sight 129
Drafting pen boots 129
Dust cover 100
Media 122, 123
Overhead transparency 128
kit 128
Pens 125, 127
Pen storage 128
Plotter points 127
- 7221A/B/C/S/T Plotter**
Digitizing sight 129
Drafting pen boots 129
Dust cover 100
Media 122, 123
Overhead transparency 128
kit 128
Paper and pen kit 128
Pens 125, 127
Pen storage 128
Plotter points 127
- 7225A/B Plotter**
Carrying case 101
Digitizing sight 129
Media 122
Overhead transparency 128
kit 128
Paper and pen kit 128
Pens 125
Pen storage 128
- 7240A Plotter/Printer**
Carrying case 101
Digitizing sight 129
Thermal paper 116
Thermal print head 129
- 7245A/B Plotter/Printer**
Digitizing sight 129
Carrying case 101
Thermal paper 116
Thermal print head 129
- 7310A Printer**
Thermal paper 116
- 7470A Plotter**
Cables 18
Carrying case 101
Digitizing sight 129
Dust cover 100
Manuals 150
Media 122
Overhead transparency 128
kit 128
Paper and pen kit 128
Pens 125
Pen storage 128
Peripheral sharing 6, 7
- 7475A Plotter**
Cables 18
Carrying case 101
Digitizing sight 129
Dust Cover 100
Media 122
Overhead transparency 128
kit 128
Paper and pen kit 128
Pen boots 129
Pen carousel 129
Pens 125, 127
Pen storage 128
Peripheral sharing 6, 7
Plotter points 127
- 7550A Plotter**
Cables 19
Catcher tray 129
Cleaning supplies 129
Digitizing sight 129
Dust covers 100
Loading tray 129
Media 122, 123
Overhead transparency 128
kit 128
Paper and pen kit 128
Pen carousel 129
Pens 125-127
Pen storage 128
Plotter points 127
- 7580A Plotter**
Adapters 129
Cleaning supplies 129
Digitizing sights 129
Manuals 150
Paper 122, 123
Paper and pen kit 128
Pen boots 129
Pen carousel 129
Pens 125-127
Pen storage 128
Plotter points 127
- 7585A Plotter**
Adapter 129
Cleaning Supplies 129
Digitizing sight 129
Media 122, 123
Paper and pen kit 128
Pen boots 129
Pen carousel 129
- Pens 125-127
Pen storage 128
Plotter points 127
Take-up cores 129
- 7586 Plotter**
Adapter 129
Cleaning supplies 129
Digitizing sights 129
Media 122, 123
Paper and pen kit 128
Pen boots 129
Pen carousel 129
Pens 125-127
Pen storage 128
Plotter points 127
Take-up cores 129
- 7900A Disc drive**
Disc cartridge 139
Disc cartridge covers 139
Disc rack 139
- 7901A Disc drive**
Disc cartridge 139
Disc cartridge covers 139
Disc rack 139
- 7905A Disc drive**
Disc cartridge 139
Disc cartridge covers 139
Disc rack 139
- 7906H/M/S Disc drive**
Disc cartridge 139
Disc cartridge covers 139
Disc cartridge rack 139
- 7908A Winchester drive**
Data cartridges 140
- 7911A Winchester drive**
Data cartridges 140
- 7912A Winchester drive**
Data cartridges 140
- 7914A Winchester drive**
Data cartridges 140
- 7920H/M/S Disc drive**
Disc pack 139
- 7925H/M/S Disc drive**
Disc pack 139
- 7935H Disc drive**
Removable media module 139
- 7970 Tape drive**
Magnetic tape 142
- 7971 Tape drive**
Magnetic tape 142
- 7976 Tape drive**
Magnetic tape 142
- 82143A Printer**
Thermal paper 116
- 82161A Digital cassette drive**
Mini-data cassettes 140
- 82162A Printer/Plotter**
110 adapter/recharger 35
220 adapter/recharger 35
Battery pack 35
Power pack 35
Security cable 35
Thermal paper 116
- 8290X Disc drives**
Cleaning kit 137
Dust cover 100
Flexible discs and accessories 134-136

82905A/B Printer

Desktop printer	
stand	104
Dust cover	100
Paper	107
Peripheral sharing	6, 7
Print head	108
Ribbons	107

82906A Printer

Cables	18
Paper	107
Peripheral sharing	6, 7
Print head	108
Ribbons	107
Tractor unit	108

HP 9000 Computer

Cables	14
Flexible discs and accessories	134-136
Local area network cables	14
Multiplexers	7, 8
Thermal paper	114
Workstation table	86

9111A Graphics tablet

Key overlays	129
Stylus refills	129

9114A Disc drive

Carry case	101
Microfloppy discs and accessories	131-133

9121D Dual disc drive

Carry case	101
Dust cover	100
Microfloppy discs and accessories	131-133

9807A Integral computer

Cables	11
--------	----

Carrying case	101
Dust cover	100
Software	53

9810A Calculator

Thermal paper	114
---------------	-----

9815A/S Computer

Mini data cartridge	140
Thermal paper	115

9816A Computer

(See Series 200)

9820A Calculator

Magnetic program cards	141
Thermal paper	114

9821A Calculator

Tape cassette	140
Thermal paper	114
Unlabeled digital cassette	140

9825A/B/S/T Computers

Carrying case	101
Dust cover	100
Flexible discs and accessories	134-136
Mini data cartridges	140
Thermal paper	115

9826A Computer

Dust cover	100
Flexible disc	134-136

9830A/B Computers

Digital cassette	140
Unlabeled digital cassette	140

9835A/B Computers

Cables	11
Carrying case	101

Dust cover	100
Mini data cartridges	140
Software catalog	152
Thermal paper	115

9836A Computer

Flexible discs and accessories	134-136
Tech. computer catalog	152

9845A/B/C/S/T Computer

Cables	11
Carrying case	101
Dust cover	100
Manuals	151
Mini data cartridges	140
Software catalogs	152
Thermal paper	115

9865A Cassette drive

Digital cassette	140
------------------	-----

9866A/B Printer

Paper	116
-------	-----

9871A Printer

Paper	107
Print discs	109
Ribbon	107

9872A/B/C/S/T Plotter

Digitizing sight	129
Media	122, 123
Overhead transparency kit	128
Paper and pen kit	128
Pens	125-127
Pen storage	128
Plotter points	127
Replacement boot	129

9874A Digitizer

Overlay	129
---------	-----

9875A Tape unit

Mini data cartridges	140
----------------------	-----

9876A Printer

Thermal paper	116
---------------	-----

9877A Tape unit

Mini data cartridges	140
----------------------	-----

9885M/S Disc Drive

Flexible Discs and accessories	134-136
--------------------------------	---------

9895 Flex Disc Drive

Flexible Discs and accessories	134-136
--------------------------------	---------

9915A Computer

Mini data cartridges	140
----------------------	-----

Workstation Furniture and Accessories

Cabinets	84, 91-92
Filler panel kit	84
Rail kit	84
Casters	86
Corner turn	83
Drawer units	86
Ergonomic chairs	88, 89
Library tape rack	143
Mobile drawer units	84, 86
Mobile media file	86
Office accessories	94-99
Printer/terminal stand	87
Storage module unit	86
Storage shelves	86
Tabletop connectors	86
Workstation tables	86

Trademark listing

Apple® is a registered trademark of Apple Computer Inc.

BARON—The Real Estate Simulation™, **MILLIONAIRE—The Stock Market Simulation™**, and **TYCOON—The Commodity Market Simulation™** are trademarks of Blue Chip Software Inc.

The Black Jack™ is a trademark of Microperipheral Corp.

Compaq™ is a trademark of Compaq Computer Corp.

Condor™ is a trademark of Condor Computer Corp.

CONTEXT MBA™ is a trademark of Context Management System Inc.

CorrectStar™, **Star Index™**, **WordStar Professional™**, and **WordStar Professional Options™** are trademarks of MicroPro International Corp.

CP/M® is a registered trademark of Digital Research Inc.

CUTHROATS™, **DEADLINE™**, **ENCHANTER™**, **INFIDEL™**, **INFOCOM™**, **Infocom Tales of Adventure™**, **INTERLOGIC™**, **PLANETFALL™**, **SEASTALKER™**, **SORCERER™**, **STARCROSS™**, **SUSPECT™**, **SUSPENDED™**, and **The Witness™** are trademarks of Infocom™ Inc.

DataFax™ is a trademark of Link Systems Inc.

DATEBOOK™ and **PERSONAL DATEBOOK™** are trademarks of Organic Software Inc.

dBASE II® is a registered trademark of Ashton-Tate.

DEC PRO® and **DEC RAINBOW/®** are registered trademarks of Digital Equipment Corp.

Diablo™ is a trademark of Xerox Corp.

Diagram™ and **Picture Perfect™** are trademarks of Computer Support Corp.

Dow Jones News/Retrieval® is a registered trademark of Dow Jones and Company Inc.

Dow Jones Spreadsheet Link™ is a trademark of Dow Jones and Company Inc.

FMS-40™ is a trademark of FMS80.

GraphPlan™, **MicroPlan™**, **MicroPlan Consolidation Module™**, **Rags to Riches Ledger™**, **Rags to Riches Payables™**, **Rags to Riches Receivables™**, and **Rags to Riches Sales™** are trademarks of Chang Laboratories.

Graphwriter® is a registered trademark of Graphics Communications Inc.

GW™-Basic and **MS™-DOS** are trademarks of Microsoft Inc.

Health-Aide™ is a trademark of Programming Technology Corporation.

The Hitchhiker's Guide to the Galaxy™ is a trademark of Douglas Adams.

IBM® is a registered trademark of International Business Machines Inc.

Kaypro® is a registered trademark of Non Linear Systems Inc.

Lattice® C Compiler is a registered trademark of Lattice Inc.

Lotus™ and **1-2-3™** are trademarks of Lotus Development Corp.

MajMerge®, SpellStar®, and **WordStar®** are registered trademarks of MicroPro International Corp.

MOBS III™ is a trademark of Micro Database System.

Microsoft®, Microsoft® Word, and **MultiPlan®** are registered trademarks of Microsoft Inc.

MicroSpooler™ is a trademark of Consolink Corp.

MicroTrak™ and **SoftTrak™** are trademarks of SoftTrak Systems.

MILESTONE™ is a registered trademark of Organic Software Inc.

Mind Prober™ is a trademark of Human Edge Software Corporation.

Motorola MC 68000™ is a trademark of Motorola.

MultiMate™ is a trademark of Multimate International.

Osborne™ is a registered trademark of Osborne Corp.

Paich Level 3™ is a registered trademark of Personal Systems International.

Personal Feeder™ is a trademark of Ziyad Inc.

PFS:® File & PFS:® Report, PFS:® Graph, and **PFS:® Write** are registered trademarks of Software Publishing Co.

Platen Cleaner Pak™ is a trademark of J. Penner Corp.

Qume™ is a registered trademark of Qume Corp. ITT.

THE SOURCE is a ServiceMark of Source Telecomputing Corp., a subsidiary of The Reader's Digest Association Inc.

SpellBound™ is a trademark of Davell Custom Software.

Staticide™ is a trademark of ACL.

Teflon™ is a registered trademark of DuPont.

Temple of Apshai™ and **Filcochet™** are trademarks of EPYX Inc.

Tex™ is a trademark of The American Mathematical Society.

Times New 2® and **Geneva 2®** type fonts are registered trademarks of Autologic Inc.

Ti PRO® is a registered trademark of Texas Instruments Inc.

TK!Solver™ is a registered trademark of Software Arts™.

Touch-Tone™ is a registered trademark of American Telephone and Telegraph.

Transend Complex™ is a trademark of Transend Corp.

Type Attack® is a trademark of Sirius Software Inc.

UL™ is a registered trademark of Underwriters Laboratories.

Unix™ is a trademark of Bell Laboratories.

Velcro™ is a registered trademark of Velcro U.S.A. Inc.

VisiCalc™ is a registered trademark of VisiCorp.

Zenith Z-100™ is a registered trademark of Zenith Corp.

Zork® is a registered trademark of Infocom™ Inc.

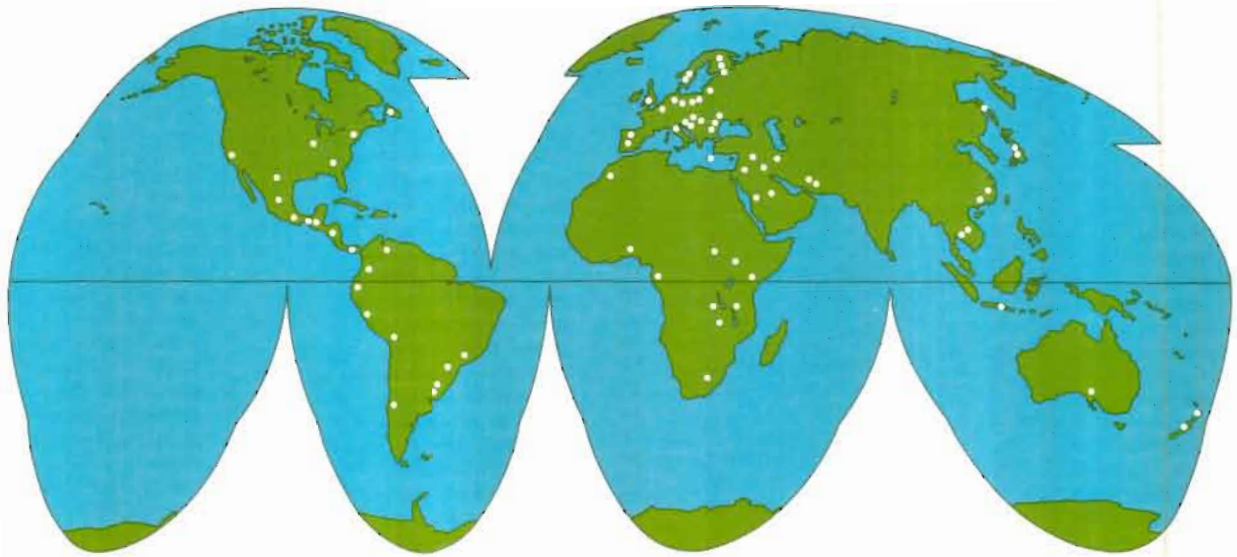
The trademark information listed above is, to the best of our knowledge, accurate and complete.

Product number listing of catalog items (cont.)

26090A Sound cover	105	35175G ZORK® I	53	45445-90000 Manual	151	45641B IBM 3278 Emulation accessory	43
2674A Internal Printer	42	36570-90001 Manual	151	45446D Compiled BASIC by Microsoft®	51	45643A Extended I/O card	40, 43
3		36570-90002 Manual	151	45447D PASCAL by Microsoft®	51	45680D Type-a-Line	51
30000-60029 Manual	151	36570-90004 Manual	151	45448A COBOL by Microsoft®	51	45691A Touchscreen LAN coaxial cable	15
30000-90009 Manual	151	36576-90001 Manual	151	45449A FORTRAN by Microsoft®	51	45692A Touchscreen LAN coaxial cable	15
30000-90010 Manual	151	36576-90002 Manual	151	45450D GW™-BASIC by Microsoft®	51	45693A Touchscreen LAN coaxial cable	15
30000-90011 Manual	151	36578-90001 Manual	151	45452D Lattice® C Compiler	51	45694A Touchscreen LAN coaxial cable	15
30000-90014 Manual	151	36578-90002 Manual	151	45455A BPI General Accounting	50	45695A Touchscreen terminator kit	15
30000-90024 Manual	151	36578-90003 Manual	151	45456A BPI Accounts Receivable	50	45696A Touchscreen barrel connector	15
30000-90025 Manual	151	4		45457A BPI Accounts Payable	50	45697A Touchscreen T-connector	15
30000-90026 Manual	151	40210P Centronics interface	75	45458A BPI Payroll	50	45698A Touchscreen loopback plug	15
30000-90040 Manual	151	40210R RS232C interface	75	45459A BPI Personal Accounting System	50		
30000-90042 Manual	151	40242C Cable (use 40242-60003)	19, 20	45460A BPI Inventory Control	50		
30000-90044 Manual	151	40242C Extender cable	75	45461A BPI Job Cost	50		
30000-90049 Manual	151	40242D Parallel printer cable	75	45462A Picture Perfect™	51		
30000-90079 Manual	151	40242D/G/P Cable	20	45463A Diagraph™	51		
30000-90102 Manual	151	40242G Serial printer cable	75	45465A MicroPlan™	50		
30000-90105 Manual	151	40242M Cable (use 40242-60004)	19, 20	45466A MicroPlan™ Consolidation Module	50		
30000-90251 Directory	152	40242M Modem cable	75	45467A GraphPlan™	50		
30062B Cable (use 30062-60022)	19	40242P Cable	22	45468D dBase II™	50		
30062B Opt. 001 Cable (use 30062-60023)	19	40242P Direct connect cable	75	45472B User Definable softkeys	52		
30062-60018 RS232C extension cable	16	40242X Direct connect cable	75	45473D Multiplan™	50		
30062-60026 RS232C extension cable	16	40242X/Y Cable	19	45473G MultiPlan™ (SU)	53		
30140-60085 Manual	151	40242Y EMP protect cable	75	45473H MultiPlan™ (MU)	53		
30152-60001 RS232C extension cable	16	40242Z Cable (use 40242-60002)	19	45474D Microsoft® Word	51		
30153-60001 RS232C extension cable	16	40260A Interface	8	45475B Games/200	51, 52		
30154A Cable (use 30154-60001)	22	40261A Interface	8	45480B Data Grapher/200	52		
30241A LAN MAU and tap	13	41CV Calculator	30	45481A Context MBA™	50		
30241B LAN coaxial cable tap	13	41CX Calculator	30	45481B Context MBA™	52		
30242-90002 LAN guide book	14	4114-1033 Overlay	129	45482A 1-2-3™ by Lotus®	50		
30242-97801 LAN 3000 technical reference manuals kit	14	45180-90080 Manual	151	45484A Graphwriter® Basic Set	51		
31391A Cable	19	45260-90040 Manual	151	45488A PFS:® FILE & PFS:® REPORT	50		
31391A/B/C RS232C extension cable	16	45310A BASIC Programmer's Library	51	45489A PFS:® WRITE	51		
32002-90004 Manual	151	45311A Icon Design System	51	45490A PFS:® GRAPH	51		
32100-90001 Manual	151	45400D WordStar®	51	45502A MicroPlan™	49		
32103-90001 Manual	151	45400-90000 Manual	151	45503A MicroPlan™ Consolidation module	49		
32106-90001 Manual	151	45405A Deluxe VisiCalc®	50	45511D Dow Jones Spreadsheet Link™	50		
32108-90001 Manual	151	45405-90000 Manual	151	45513A Charting Gallery	51		
32109-90001 Manual	151	45408C Data Fax™	50	45515G TK! Solver® (SU)	53		
32120-90001 Manual	151	45410-90000 Manual	151	45516H TK! Solver® (MU)	53		
32120-90002 Manual	151	45411A Drawing Gallery	51	45516G Financial Management	53		
32120-90020 Self-paced learning course	148	45412A VT 100 Terminal Emulator	50	45517G Mechanical Engineering	53		
32120-90021 Self-paced learning course	148	45413G Calculator/HP-UX (SU)	53	45518G Building Design & Construction	53		
32209-90001 Manual	151	45413H Calculator/HP-UX (MU)	53	45519G Introductory Science	53		
32209-90003 Manual	151	45414A Transend Complete	50	45520C Rags to Riches Ledger™	50		
32209-90004 Manual	151	45415A Condor™ 1	50	45521C Rags to Riches Sales™	50		
32213-90001 Manual	151	45415-90000 Manual	151	45522C Rags to Riches Receivables™	50		
32213-90003 Manual	151	45416A Condor™ 3	50	45523C Rags to Riches Payables™	50		
32214-90002 Manual	151	45417A Condor 1 to 3 Upgrade Kit	50	45524G MicroTrak™ (SU)	53		
32215-90003 Manual	151	45418A Executive MemoMaker	51	45524H MicroTrak™ (MU)	53		
32233-90001 Manual	151	45419C Programmer's Tools (The PORTABLE)	51	45530A Series 100 Communicator	41		
32244-90001 Manual	151	45420E MemoMaker	53	45531-60002 Manual	151		
32245-90001 Manual	151	45420G MemoMaker (SU)	53	45532-60002 Manual	151		
32246-90001 Manual	151	45420H MemoMaker (MU)	53	45533-60004 Manual	151		
32247-90001 Manual	151	45420-90000 Manual	151	45535-60001 Manual	151		
32250-90001 Manual	151	45422A Personal Card File	50	45536-90000 Manual	151		
35151D The Calendar	50, 51	45422E Personal Card File	53	45537B Graphics Editor/200	52		
35152D The List Manager	50, 51	45422-90000 Manual	151	45538B Text Editor/200	52		
35153D The Writer	51	45423A Financial Calculator	50	45580A MILESTONE™	49		
35154D The Speller	51	45424A MultiMate™	51	45581A DATEBOOK II(CP/M)HP™	49		
35155D The Planner	50, 51	45425-90000 Manual	151	45582A PERSONAL DATEBOOK™	49		
35156D Personal Correspondence Pack	51	45429D WordStar Professional® Options	51	45583A dBase II™	49		
35157D Personal Organizer Pack	51	45430A Series 100 Communicator	152	45584A Wordstar®	49		
35161C Mind Prober™	51	45431A Advance Link	50	45587A MailMerge®	49		
35165G ENCHANTER™	53	45431E AdvanceLink	53	45588A SpellStar®	49		
35166G Hitchhiker's Guide to the Galaxy™	53	45433A Gallery Picture Library Vol. II	51	45620-90081 Manual	151		
35168G PLANETFALL™	53	45435A Touchscreen Programmer's Tools	51	45624A Manual	151		
35174G The WITNESS™	53	45437A Gallery Collection	51	45625A Manual	151		
		45439A MONITOR/IBM PC	50, 53	45631A 256K RAM memory board	42		
		45443A Forms Master	51	45632A 384K RAM memory board	42		
		45444A ExecuDesk	50	45640A Internal Modem	43		
		45445D Series 100-BASIC by Microsoft®	51	45640-90002 Manual	151		

Product number listing of catalog items (cont.)

92191C Library album case	133	92210G Desktop storage shelf	86	92234V Book	145	92254A/B/C/D/E/F/G/H LAN AUI cables	13
92191D Micro desktop file	43, 132	92210H Printer-Terminal stand	87	92234W Book	144	92255A/B Cut-to-length AUI cables	13
92191E FlexFile	132	92210L Casters	86	92234X Book	146	92255C AUI cable connector kit	13
92191F Portable album	133	92210M Mobile media file	86	92234Z Book	147	92256A LAN coaxial cable installation tool kit	14
92191L Library album pages	133	92210N Mobile drawer unit	86	92235A Touchscreen book	65	92256B LAN AUI cable assembly tool kit	14
92191M Micro carrying case pack	132	92210P Printer stand	87	92239A 2780 3780 RJE software	46	92256C LAN MAU & tap installation tool kit	14
92191P Hanging file pages	133	92210Q Drawer unit	86	92239B Async terminal emulator software	46	92256D LAN AUI wallplate kit	13
92191Q Compact file	132	92210T Table	87	92240A Display tilt unit	42, 96	92256E Surge protector	14
92191R Roll-top file	132	92210V Tabletop connector	86	92240B Swivel unit	42, 96	92257B LAN loopback hood	14
92191T Micro disc case	133	92211L Cabinet	84	92243BA Milky Way Merchant	50	92261A Print head ink cartridge	113
92192A Double-sided microfloppies	40, 43, 131	92211M Cabinet	84	92243CA ZORK II™	50	92261L Fanfold ThinkJet printer paper	113
92193C Printwheel clean kit	109	92211N Drawer unit	84	92243D Adventure	50	92261M Cut-sheet ThinkJet paper	113
92193D Printwheel clean kit refill	109	92211R Cabinet	84	92243DA STARCROSS™	50	92261N Fanfold printer paper	113
92193F Magnetic head cleaning solution	137	92211S Rail kit	84	92243EA Type Attack™	50	92261S ThinkJet stand	40, 92, 113
92193G Cleaning gloves	137	92211T Filler panel kit	84	92243FA SUSPENDED™	50	92262A/B/D/E/F/G Printwheels	109
92193H Head cleaning kits	137	92214A Table	83	92243GA Temple of Apshai®	50	92265A U.S. Starter Kit	104
92193K/L Head cleaning kits	136	92214AA Design Plus one	83	92243GB Ricochet	50	92265B United Kingdom starter kit	104
92193M Master cleaning kit (mag tape and rigid disc drive)	137	92214AB Design Plus two	83	92243HA Tycoon™	50	92266A Battery charger	32
92193T Platen Cleaner Pak™	104	92214C Table	83	92243JA Millionaire™	50	92266B Batteries	32
92193V Video cleaning kit	43, 97	92214J Corner turn	83	92243KA Baron™	50	92267A Bar code wand	38
92193W Lint-free wipes	137	92214P Support stand	84	92243MA Sargon III	50	92267B Bar code wand	38
92193Y Compressed air cleaner	137	92215A RS232C extension cable	16	92243NA Cyborg	50	92272A/B/C/D/E Cabinets	92
92194A/B Desktop files	135	92216C Cable	22	92243PA PLANETFALL®	50	92272D Mag tape storage cabinet	143
92194C Desktop file	141	92217A/B/C/D Cable	20	92243QA The WITNESS™	50	92272F Library tape storage rack	92, 143
92194D Desktop file	141	92218A Cable	17	92243RA ZORK II™	50	92272G Hanger bar	91
92194E/F Flexfiles	135	92218A/B/C Cable	20	92243SA SpellBound™	50	92272H Fixed Shelves	91
92194G/H Portable album file	135	92218C Cable	17	92243TA ZORK III™	50	92272J Oak top	91
92194J/K Easel binder kits	136	92219A/B/C/D/E Cables	21	92243VA DEADLINE®	50	92272K/L Data binder handles	91, 93
92194L/M Binder pages	136	92219G RS232C extension cable	16	92243UA ENCHANTER™	50	92285A Toner (EP) cartridge	112
92194N Roll-top file	135	92219H/J/K Cables	18	92243WA INFIDEL™	50	92285B/C/D/E LaserJet paper trays	112
92194P/Q Hanging file pages	136	92220A/B/C Cables	22	92243YA SORCERER®	50	92286A/B/C/D/E/F/G/H/L Laser printer character fonts	111
92195A 8-in. flexible disc	134	92220M Cable	17	92243ZA SEASTALKER™	50	9260-0579 Plotter point	127
92195F 8-in. flexible disc	134	92220R HP-IB IEEE-488 Right-angle cable	11	92244AA CUTTHROATS™	50	9260-0588 Plotter point	127
92195L Flexfiles	134	92221C Datacom cable	46	92244AB Hitchhiker's Guide to the Galaxy™	50	9260-0596 Drafting ink	127
92198A HP-IL video interface	32, 34, 37, 38	92221M RS232C Modem cable	41	92244CA SUSPECT™	50	9260-0741 Plotter point	127
92199A/B Multiple outlet strip	26	92221P/P Cables	17	92244GA Adventure	51, 52	9260-0742 Plotter point	127
92199C/D Cable covers	26	92221P RS232C Printer cable	18, 41	92245AA Baron™	53	9260-0743 Plotter point	127
92199F Cable management kit	26	92221T Printer cable	46	92245BA Millionaire®	53	9260-0744 Plotter point	127
92199K/L/N/Q/R/T Power line conditioners	25	92222F Female gender converter	16, 41	92245DA The List Manager	53	9270-0479 Thermal paper	115
92204A COM 80 Communications interface	46	92222M Male gender converter	16, 41	92245EA Tycoon™	53	9270-0488 Thermal paper	116
92204B DataCheck 1	9	92224A/B Connector kits	23	92245NA The Calendar	53	9270-0605 Thermal paper	116
92204C DataCheck 2	9	92225A/B Connector kits	23	92245PA The Planner	53	9270-0607 Thermal paper	116
92204D Activity monitor	9	92226A Connector kits	23	92245QA The Speller	53	9270-0609 Thermal paper	116
92204E Interface reconfiguration device	9	92229A Crimp tool	23	92245RA The Writer	53	9270-0640 Thermal paper	114, 116
92204F The Black Jack	5	92229B Crimp tool	14	92248AA Touch Games I	50	9270-0641 Thermal paper	114, 116
92205A Hayes Smartmodem 1200	4	9222-0742 Dust cover	100	92248BA Cross Reference Utility	51	9270-0642 Thermal paper	114, 116
92205B Hayes Smartmodem 2400	3	92230A Wide nylon ribbon	106	92248CA Winning Deal	50	9270-0643 Thermal paper	114, 116
92205D Acoustic coupler	40	92231A VFU tape punch	108	92248DA Action Games	49	9270-0664 Thermal paper	115
92205G Security Modem	5	92231B Paper perforator tape	108	92248EA Home Budget Manager	49	9270-0680 Thermal paper	116
92205H 9600 bps Synchronous Modem	8	92233A Book	145	92248FA Galaxy Patrol	49	9270-0681 Thermal paper	116
92205J Anderson Jacobson Modem	4	92233B Book	144	92250A Dust cover	100	9270-0682 Thermal paper	116
92205S CompuServe	4, 42	92233C Book	145	92250B Dust cover	100	9270-0683 Thermal paper	116
92205T RS232C Dual ABC Switch	6	92233D Book	144	92250C Dust cover	100	9270-0688 Thermal paper	116
92205V MicroSpooler 64	7	92233F Book	28, 144	92250D Dust cover	100	9270-0699 Thermal paper	116
92205W MicroSpooler 128	7	92233K Book	147	92250F Dust cover	43, 100	9270-0700 Thermal paper	116
92206A Mini data cartridge rack	141	92233L Book	147	92250G Dust cover	100	9270-0959 Thermal paper	116
92206D Rigid disc rack	139	92233M Book	146	92250H Dust cover	100	9270-1126 Overhead transparency film	122
92206H Disc cartridge bottom cover	139	92233N Book	147	92250I Dust cover	100	9270-1128 Overhead transparency film	122
92206T Magnetic tape rack	142	92233P Book	146	92250J Dust cover	100	9270-1181 Overhead transparency film	122
92207A/B/C Anti-glare filters	97	92233Q Book	147	92250K Dust cover	100	9270-1182 Overhead transparency film	122
92208E F/G/K/M/N/P/S Chairs	89	92233R Book	147	92250L Dust cover	100	9280-0218 Printer paper	107
92209L Caster set	89	92233S Book	146	92250M Dust cover	100	9280-0518 Blank plotter paper	122
92210A Table	86	92233T Book	146	92250N Dust cover	100	9280-0519 Blank plotter paper	122
92210AA Professional workstation	85	92233U Book	146	92250P Dust cover	100	9280-0525 Polyester film	123
92210B Table	86	92233V Book	146	92250Q Dust cover	100	9280-0526 Polyester film	123
92210BB Administrative support workstation	85	92233W Book	147	92250R Dust cover	100	9280-0527 Blank plotter paper	122
92210C Table	86	92234D Book	144	92250S Dust cover	100	9280-0528 Blank plotter paper	122
92210CC Team workstation	85	92234E Book	144	92250T Dust cover	100	9280-0529 Vellum	123
92210D Table	86	92234F Book	147	92250U Dust cover	100	9280-0530 Vellum	123
92210E Work surface extension	86	92234G Book	147	92250V Dust cover	100	9280-0587 Blank plotter paper	122
92210F Desktop storage shelf	86	92234H Book	147	92250W Dust cover	100		

**ALABAMA**

Birmingham 35226
Tel: (205) 822-6802
Huntsville 35805
Tel: (205) 830-2000

ALASKA

Bellevue, Wa. 98006
Tel: (206) 643-4000

ARIZONA

Phoenix 85044
Tel: (602) 273-8000
Tucson 85706
Tel: (602) 273-8000
(Phoenix)

CALIFORNIA

Brisbane 94005
Tel: (415) 330-2500
Fresno 93727
Tel: (916) 929-7222
(Sacramento)
Fullerton 92631
Tel: (714) 999-6700
Goleta 93117
(Santa Barbara)
Tel: (213) 706-6800
(Westlake)
Lawndale 90260
(Los Angeles)
Tel: (213) 643-7500
Palo Alto 94304
Tel: (415) 857-8000
Sacramento 95852
Tel: (916) 929-7222
San Diego 92139
Tel: (619) 279-3200
San Ramon 94583
Tel: (415) 330-2500
(Brisbane)
Santa Clara 95050
Tel: (408) 988-7000
Westlake Village 91362
Tel: (818) 706-6800

COLORADO

Englewood 80112
Tel: (303) 649-5000

CONNECTICUT

Wallingford 06492
Tel: (617) 682-1500
(Andover)

FLORIDA

Ft. Lauderdale 33307
Tel: (305) 973-2600
Orlando 32809
Tel: (305) 859-2900
Pensacola 32505
Tel: (904) 476-8422
Tampa 33614
Tel: (813) 884-3282

GEORGIA

Atlanta 30348
Tel: (404) 955-1500

HAWAII

Honolulu 96813
Tel: (808) 526-1555

IDAHO

Boise 83702
Tel: (509) 922-7000
(Spokane)

ILLINOIS

Bloomington 61702-1607
Tel: (312) 357-8000
(Naperville)
Chicago 60606
Tel: (312) 357-8800
(Naperville)
Naperville 60566
(Downers Grove)
Tel: (312) 357-8800
Rolling Meadows 60008
Tel: (312) 255-9800

INDIANA

Carmel 46032
(Indianapolis)
Tel: (317) 844-4100
Ft. Wayne 46815
Tel: (317) 844-4100
(Indianapolis)

IOWA

Cedar Rapids 52404
Tel: (319) 390-4250
West Des Moines 50265
Tel: (319) 390-4250
(Cedar Rapids)

KANSAS

Wichita 67207
Tel: (816) 941-0411
(Kansas City, MO)

KENTUCKY

Louisville 40223
Tel: (502) 426-0100

LOUISIANA

St. Rose 10087
(Kenner or New Orleans)
Tel: (504) 467-4100

MARYLAND

Baltimore 21227
Tel: (301) 948-6370
(Rockville)

Rockville 20850
Tel: (301) 948-6370

MASSACHUSETTS

Andover 01810
Tel: (617) 682-1500
Lexington 02173
Tel: (617) 682-1500
(Andover)

MICHIGAN

Grand Rapids 49506
Tel: (313) 349-9200
(Novi)
Novi 48050
(Farmington Hills)
Tel: (313) 349-9200
Troy 48064
Tel: (313) 349-9200
(Novi)

MINNESOTA

St. Paul 55113
Tel: (612) 644-1100

MISSOURI

Bridgeton 63044 (St. Louis)
Tel: (314) 344-5100
Kansas City 64131
Tel: (816) 941-0411

NEBRASKA

Omaha 68154
Tel: (319) 390-4250
(Cedar Rapids)

NEVADA

Las Vegas 89119
Tel: (702) 737-5241

NEW JERSEY

Paramus 07652
Tel: (201) 265-5000
Piscataway 08854
Tel: (201) 265-5000
(Paramus)

NEW MEXICO

Albuquerque 87112
Tel: (505) 292-1330

NEW YORK

Albany 12205
Tel: (201) 265-5000
(Paramus)
Clarence 14031
(Rochester)
Tel: (716) 223-9950
Fairport 14450
(Rochester)
Tel: (716) 223-9950

Liverpool 13088
Tel: (716) 223-9950
(Rochester)

Manhattan 10119
Tel: (201) 265-5000
(Paramus)

White Plains 10604
Tel: (201) 265-5000
(Paramus)

Woodbury 11797
Tel: (201) 265-5000
(Paramus)

NORTH CAROLINA

Charlotte 28210
Tel: (919) 852-1800
(Greensboro)
Greensboro 27420
Tel: (919) 852-1800

OHIO

Akron 44312
Tel: (216) 243-7300
(Cleveland)

Beachwood 44120
Tel: (216) 243-7300
(Cleveland)

Cincinnati 45242
Tel: (513) 891-9870

Cleveland 44130
Tel: (216) 243-7300

Maumee 43537
(Toledo)
Tel: (216) 243-7300
(Cleveland)

Miamisburg 45342
(Dayton)
Tel: (513) 433-2223

Westerville 43081
(Columbus)
Tel: (614) 891-3344

OKLAHOMA

Oklahoma City 73107
Tel: (405) 946-9499

OREGON

Eugene 97401
Tel: (503) 682-8000
(Wilsonville)

Wilsonville 97070
(Portland)
Tel: (503) 682-8000

PENNSYLVANIA

Harrisburg
Tel: (215) 666-9000
(Valley Forge)

Pittsburgh 15238
Tel: (412) 782-0400

Valley Forge 19482
Tel: (215) 666-9000

SOUTH CAROLINA

Columbia 29210
Tel: (803) 732-0400

TENNESSEE

Knoxville 37932
Tel: (615) 966-4747

Memphis 38131
Tel: (901) 346-8370

Nashville 37228
Tel: (615) 255-1271

TEXAS
Austin 78758
Tel: (512) 494-9336
(San Antonio)

El Paso 79912
Tel: (915) 833-4400

Fort Worth 76137
Tel: (817) 232-9500

Houston 77036
Tel: (713) 776-6400

McAllen 78504
Tel: (512) 494-9336
(San Antonio)

Richardson 75083
(Dallas)
Tel: (214) 231-6101

San Antonio 78232
Tel: (512) 494-9336

UTAH
Salt Lake City 84119
Tel: (801) 974-1700

VIRGINIA
Richmond 23228
Tel: (804) 747-7750

Roanoke 24015
Tel: (703) 774-3444

Virginia Beach 23455
Tel: (804) 747-7750
(Richmond)

WASHINGTON
Bellevue 98009-0156
Tel: (206) 643-4000

Spokane 99212
Tel: (509) 922-7000

WEST VIRGINIA
Charleston 25304
Tel: (304) 925-0492

WISCONSIN
Brookfield 53005
Tel: (414) 784-8800

We're Hewlett-Packard, the products and people you can count on.

"When we get your order, it's out the door within 24 hours. And if you're in a hurry, let us know—we'll get it to you the next day! (See inside front cover for details.)"

"This catalog is your guide to thousands of HP products for your computer equipment and workplace. They're premium quality products, and we guarantee your satisfaction."

"Give us a call and experience our second-to-none service. We're looking forward to helping you."

*For fast, easy,
friendly ordering:*
800-538-8787
California
408-738-4133"



**hp HEWLETT
PACKARD**

P.O. Box 60008 Sunnyvale, California 94088
ADDRESS CORRECTION REQUESTED

BULK RATE
U.S. POSTAGE
PAID
HEWLETT-PACKARD

Please refer to
CALL CODE
C150
when ordering.