

HP 9000 Series 300 Computer Systems



Pricing Information



Effective date: February 1988*

System Configurations

The Series 300 family of technical computing systems consists of a variety of workstations and instrument controllers as well as modular components, allowing you to select a system that is matched to your needs. The pre-configured workstations include the components most likely to be needed for some typical applications.

If you prefer to build your own system, we have a selection of processors with different performance levels, display systems, memory boards, interface cards, operating systems, and peripherals. Additional details on configuring your own system, beyond those covered in this document, are available in the *Series 300 Configuration Reference Manual*, Part Number 98561-90020. Refer to *HP 9000 Series 300 Hardware Technical Data* (Pub. No. 5951-6785) for the technical specifications of the Series 300 family.

The workstations come bundled with either HP-UX software license, AI Development Environment, or a combination of these operating system elements. The instrument controllers come bundled with BASIC, a language specifically suited to instrument-based applications. An assortment of interfaces are available for the various workstations and controllers, depending on the application they are intended for. The detailed system descriptions will help you determine which system contains the components that are right for your application.

Hewlett-Packard offers various hardware and software support services. These services are described beginning on page 32 of this document.

Series 300 Modular Components

Custom ordering a Series 300 system is easy. The following guide will be useful in successfully configuring a system that meets your needs exactly.

You Will Need:

- SPU (System Processing Unit). Includes box with power supply, processor board, memory, HP-IB, RS-232, and HP-HIL interfaces, and a battery-backed real-time clock. Also included are an HP-IB cable and HP-HIL cable for the keyboard
- Keyboard.
- Graphics board (to generate video signals for a matching monitor). Note that the 98561A SPU comes with 512 x 400 monochrome output standard. Delete this feature using Opt. 003, adding in its place the desired graphics board if a different output is required.
- Monitor (to display signals generated by the graphics board)

- Data Storage – pick the data storage best suited to your needs.
- An operating system.
- HP-HIL ID Module (if you plan to use application software that requires it).

You May Want to Add:

- Additional RAM cards (including Error-Checking and Correcting (ECC RAM)†)
- Interface cards
- An expander box or boxes
- Plotter
- Modem
- Additional HP-HIL devices
- Additional graphics devices or terminals
- Printer
- Support services
- Networking
- Taboret cabinets, accessories or other furniture

System Processing Units (SPUs)

Localization for Series 300 SPUs

The System Processing Units are available with the following localization options, which include localized documentation. The price does not change. To order the appropriate localized version, add the suffix letter to the product number. For example, to order the German version of the Model 310 SPU, order 98561AD (SPU product number plus "D" for the German version)

| Localization | Suffix |
|--------------------|--------|
| German | D |
| Spanish | E |
| French | F |
| Katakana | J |
| Italian | Z |

* All data and prices are subject to change without notice.
 All prices include factory base plus freight in U.S.A.
 † All RAM is parity-checking RAM unless otherwise specified.

Model 310 System Processing Unit Standard Features

| Product/Opt. Number | Description | Price |
|---------------------|---|-------|
| 98561A | <ul style="list-style-type: none"> • MC68010 Processor, 10 MHz • 1 Mbyte on-board parity-checking RAM • 16 Mbytes virtual memory address space • 16-bit memory bus • 512 x 400 on-board monochrome graphics interface • IEEE-488 HP-IB interface • RS-232C serial interface • HP-HIL interface • Audio interface • 1-meter HP-IB cable, HP-HIL keyboard cable | |
| Opt. 002* | Delete ½ Mbyte RAM, leaving ½ Mbyte on board | |
| Opt. 003* | Delete on-board graphics interface. Order appropriate graphics interface and monitor. CPU board will have 1 Mbyte RAM on-board but no graphics interface. | |
| Opt. 004 | Delete 4-slot I/O card cage. SPU box will be delivered with slots for CPU board and optional graphics interface only. The I/O card cage upgrade can be ordered later as Product Number 98242A. | |
| Opt. W03 | Convert 1 year return-to-HP warranty to 90-day on-site warranty. | |

* You cannot order Opt. 002 and Opt. 003 concurrently.

Model 320 System Processing Units Standard Features

| Product/Opt. Number | Description | Price |
|---------------------|--|-------|
| 98561B | Model 320 SPU <ul style="list-style-type: none"> • MC68020 Processor, 16.67 MHz • MC68881 Floating Point Coprocessor, 16.67 MHz • 1 Mbyte parity-checking RAM board • 4 Gbytes virtual memory address space • 16-bit memory bus • Human interface board containing: <ul style="list-style-type: none"> - IEEE-488 HP-IB interface - RS-232C serial interface - HP-HIL interface - Audio interface • 1-meter HP-IB cable, HP-HIL keyboard cable • DB9 to DB25 RS-232C adapter cable | |
| Opt. W03 | Convert 1 year return-to-HP warranty to 90-day on-site warranty | |
| 98561C | Model 320U SPU <ul style="list-style-type: none"> • 98561B SPU plus: <ul style="list-style-type: none"> - 98568A expander - Three 1 Mbyte RAM boards - DMA Controller - LAN interface† - High-speed HP-IB disc interface | |
| Opt. 002 | Delete 2 Mbyte RAM, for a total of 2 Mbytes | |
| Opt. W03 | Convert 1 year return-to-HP warranty to 90-day on-site warranty | |

† Must also order MAU, AUI and LAN cable as well as LAN software for LAN hook-up.

Model 330 System Processing Unit Standard Features

| Product/Opt. Number | Description | Price |
|---------------------|--|-------|
| 98562A | <ul style="list-style-type: none"> • MC68020 Processor, 16.67 MHz • MC68881 Floating Point Coprocessor, 16.67 MHz • Four Mbytes built-in parity-checking RAM • Four Gbytes virtual memory address space • 32-bit memory Bus • 32-bit DIO II Bus • System interface board with <ul style="list-style-type: none"> - IEEE-488 HP-IB interface - Audio interface - HP-HIL interface - RS-232C serial interface - IEEE 802.3/Ethernet LAN interface with ThinMAU and BNC "T" connector - Two-channel DMA Controller • HP-IB, HP-HIL, and RS-232C adapter cables | |
| Opt. 006 | Add 98242B 2-slot DIO Backplane | |
| Opt. 010 | Add 98262A High-speed HP-IB Disc Interface | |
| Opt. W03 | Convert 1-year return-to-HP warranty to 90-day on-site warranty | |

Model 350 System Processing Unit Standard Features

| Product/Opt. Number | Description | Price |
|---------------------|---|-------|
| 98562B | <ul style="list-style-type: none"> • MC68020 Processor, 25 MHz • MC68881 Floating Point Coprocessor, 20 MHz • Eight Mbytes parity-checking RAM, expandable to up to 32 Mbytes (48 Mbytes with ECC RAM) • Four Gbytes virtual memory address space • 32-bit system Bus • 32-bit DIO II Bus • System interface board with: <ul style="list-style-type: none"> - IEEE-488 HP-IB interface - RS-232C serial interface - Audio interface - IEEE 802.3/Ethernet LAN Interface with ThinMAU and BNC "T" connector - IEEE-488 High-speed HP-IB Disc Interface - Two-channel DMA Controller - HP-HIL interface • HP-IB, HP-HIL, and RS-232C adapter cables | |
| Opt. 116 | Converts 8 Mbytes RAM to 16 Mbytes RAM. Replaces the 4 Mbyte RAM add-on with a 12 Mbyte RAM add-on. | |
| Opt. 208 | Substitute 8 Mbyte ECC RAM for 8 Mbytes parity-checking RAM | |
| Opt. 216 | Substitute 16 Mbyte ECC RAM for 8 Mbytes parity-checking RAM | |

Series 300 Workstations and Instrument Controllers

Localization for Series 300 Workstations and Controllers

The Models 310, 319, 320, 330, and 350 workstations and instrument controllers are available in the following localized versions. The localized versions include localized keyboard, monitor, SPU, power cord, and applicable manuals. This localization scheme also applies to the HP-HIL keyboards on page _____. The price does not change. To order the localized version, include the appropriate option number. For example, to order a German version of the Model 310 Low-cost Color Workstation, order 98581B + Opt. ABD (workstation product number plus Opt. ABD for the German version). The localization option is a must order option.

Option Language

ABA U.S. English
 ABC Canadian French
 ABD German
 ABE European Spanish
 ABF European French
 ABH Dutch
 ABJ Katakana
 ABK ICON English
 ABL Canadian English
 ABM Latin Spanish
 ABN Norwegian

Option Language

ABP Swiss German
 ABQ Swiss French
 ABS Swedish
 ABT Hebrew
 ABU U.K. English
 ABW Belgian Dutch
 ABX Finnish
 ABY Danish
 ABZ Italian
 ACA Kanji (HP-LUX only)

Cables

All Series 300 workstations come with a 1-meter HP-IB cable* and an HP-HIL cable. The appropriate video cable is shipped with each video or graphics board.

* Cable not included in Model 319C+.

Entry Level Workstations

The Model 318M and 319C+ are limited-expansion workstations and therefore have no accessory slots available for interface and accessory cards. On-board HP-IB and RS-232C interfaces are available to allow connection of printers, plotters and data storage devices to your system.


| Product/Opt. Number | Component | Description | Price |
|-----------------------|------------------------------|---|-------|
| 98563B | 98594L Keyboard | Model 318M Monochrome Workstation SPU consisting of: <ul style="list-style-type: none"> • MC68020 Processor, 16.67 MHz • MC68881 Floating Point Coprocessor, 16.67 MHz • Four Mbytes Parity-checking RAM • Four Gbytes virtual memory address space • 32-bit memory bus • 1024 x 768 on-board monochrome graphics interface with cable • IEEE-488 HP-IB interface with two-channel DMA controller • RS-232C serial interface with DB 25 connector • IEEE 802.3/Ethernet LAN interface with ThinMAU and "T" connector • HP-HIL interface • HP-IB and HP-HIL cables HP-UX 6.0 License-to-Use AXE; PE; NS-ARPA, NFS Services/300 [‡] <i>Note: Must specify one keyboard option (listed on page 3). Options ABK, ABL, ABT not available.</i> | |
| Opt. 060 | | Add 46060A HP-HIL 2-button Mouse | |
| Opt. 084 | | Add 48084A HP-HIL ID Module | |
| 98564A | 98785A 98594L Keyboard | 319C+ Color Workstation SPU consisting of: <ul style="list-style-type: none"> • MC68020 processor, 16,67 MHz • MC68881 Floating Point Coprocessor, 16.67 MHz • 4 Mbytes Parity-Checking RAM, expandable to 16 Mbytes • IEEE-488 HP-IB interface with two-channel DMA controller (order HP-IB cable separately) • RS-232 serial interface with DB25 connector • IEEE 802.3/Ethernet LAN interface with ThinMAU and BNC "T" connector • HP-HIL interface with cable • 6-plane graphics board with RGB cable 16-inch High-resolution Color Monitor (1024 x 768) HP-UX 6.0, License-to-Use AXE; PE; NS-ARPA, NFS Services/300 <i>Note: Must specify one keyboard option (listed on page 3). Options ABL, ABT, ACA not available.</i> | |
| Opt. 010* | | Add high-speed HP-IB disc interface capability | |
| Opt. 060 | | Add 46060A HP-HIL 2-button Mouse | |
| Opt. 084 | | Add 46084A HP-HIL ID Module | |
| Opt. 108 [†] | | Add 4 Mbytes RAM for total of 8 Mbytes | |
| Opt. 112 [†] | | Add 8 Mbytes RAM for total of 12 Mbytes | |
| Opt. 116 | | Add 12 Mbytes RAM for total of 16 Mbytes | |
| Opt. 719 | | Substitute 19-inch color monitor (98751A) for 16-inch monitor (98785A) | |
| | | Upgrades: Upgrades must be installed by HP qualified personnel. The CE installation charge is included in the list price. | |
| 98266A | | Model 319C+ 4 Mbyte RAM daughterboard upgrade | |
| 98266B | | Model 319C+ 8 Mbyte RAM daughterboard upgrade | |

* Option 010 is not offered as a field upgrade.

[†] The 4 and 8 Mbyte RAM expansion boards are also offered as field upgrades.

[‡] Application Execution Environment (AXE), Programming Environment (PE), Network Services (NS) and Network File System (NFS).

Model 330 Workstations

| Product/Opt. Number | Component | Description | Price |
|---------------------|--|--|---|
| 98588S | 98562A 98550A 98789A 46060A 46081A 46084A 98594L Keyboard | Model 330CH 2D Color Workstation Model 330 SPU plus: High-resolution Color Graphics Board with RGB cables 16-inch High-resolution Color Monitor (1280 x 1024) HP-HIL 2-button Mouse 2.4m HP-HIL Extension with audio HP-HIL ID Module HP-UX 6.0, License-to-Use AXE; PE; NS-ARPA, NFS Services/300 <i>Note: One out of four DIO II slots available.</i> <i>Note: Must specify one keyboard option (listed on page 3). Options ABK, ABL, ABT not available.</i> |  |
| Opt. 006 | | Add 98242B 2-slot DIO Backplane | |
| Opt. 010 | | Add 98262A High-speed HP-IB Disc Interface | |
| Opt. 556 | | Add 98556A 2D integer-based graphics accelerator | |
| Opt. 719 | | Substitute 19-inch monitor (98752A) for 16-inch monitor (98789A) | |
| 98588S Opt. 556 | 98562A 98550A 98789A 46060A 46081A 46084A 98594L Keyboard | Model 330CHX 2D Color Workstation (Model 330CH with 2D Integer-based Graphics Accelerator) Model 330CH 2D Color Workstation Add 2D Integer-based Graphics Accelerator Model 330 SPU plus: High-resolution Color Graphics Board with RGB cable 16-inch High-resolution Color Monitor (1280 x 1024) HP-HIL 2-button mouse 2.4m HP-HIL extension with audio HP-HIL ID Module HP-UX 6.0, License-to-Use AXE; PE; NS-ARPA, NFS Services/300 <i>Note: One out of four DIO II slots available.</i> <i>Note: Must specify one keyboard option (listed on page 3). Options ABK, ABL, ABT not available.</i> | |
| Opt. 006 | | Add 98242B 2-slot DIO Backplane | |
| Opt. 010 | | Add 98262A High-speed HP-IB Disc Interface | |
| Opt. 719 | | Substitute 19-inch color monitor (98752A) for 16-inch monitor (98789A) | |
| 98583S | 98562A 98547A 98785A 46060A 46081A 46084A 98594L Keyboard | Model 330C Color Workstation Model 330 SPU plus: High-resolution Color Graphics Board with RGB cable 16-inch High-resolution Color Monitor (1024 x 768) HP-HIL 2-button Mouse 2.4m HP-HIL Extension with audio HP-HIL ID Module HP-UX 6.0, License-to-Use AXE; PE; NS-ARPA, NFS Services/300 <i>Note: One out of four DIO II slots available.</i> <i>Note: Must specify one keyboard option (listed on page 3). Options ABK, ABL, ABT not available.</i> | |
| Opt. 006 | | Add 98242B 2-slot DIO Backplane | |
| Opt. 010 | | Add 98262A High-speed HP-IB Disc Interface | |
| Opt. 719 | | Substitute 19-inch monitor (98751A) for 16-inch monitor (98785A) | |
| 98589S | | Model 330MH 2D Monochrome Workstation | |
| | 98562A 98548A 98788A 46060A 46081A 46084A 98594L Keyboard | Model 330 SPU plus: High-resolution Monochrome Graphics Board 19-inch High-resolution Monochrome Monitor (1280 x 1024) HP-HIL 2-button Mouse 2.4m HP-HIL Extension with audio HP-HIL ID Module HP-UX 6.0, License-to-Use AXE; PE; NS-ARPA, NFS Services/300 <i>Note: One out of four DIO II slots available.</i> <i>Note: Must specify one keyboard option (listed on page 3). Options ABK, ABL, ABT not available.</i> | |
| Opt. 006 | | Add 98242B 2-slot DIO Backplane | |
| Opt. 010 | | Add 98262A High-speed HP-IB Disc Interface | |

Model 330 Workstations (cont'd)

| Product/Opt. Number | Component | Description | Price |
|---------------------|--|--|-------|
| 985825 | 98562A 98544B 98786A 46060A 46084A 98594L Keyboard | Model 330M Monochrome Workstation Model 330 SPU plus: High-resolution Monochrome Graphics Board 17-inch High-resolution Monochrome Monitor (1024 x 768) HP-HIL 2-button Mouse HP-HIL ID Module HP-UX 6.0, License-to-Use AXE; PE; NS-ARPA, NFS Services/300 <i>Note: One out of four DIO II slots available.</i> <i>Note: Must specify one keyboard option (listed on page 3). Options ABK, ABL, ABT not available.</i> | |
| Opt. 006 | | Add 98242B 2-slot DIO Backplane | |
| Opt. 010 | | Add 98262A High-speed HP-IB Disc Interface | |

Model 350 Workstations

| Product/Opt. Number | Component | Description | Price |
|---------------------|--|---|-------|
| 98587B | 98562B 98720A Opt. 721 Opt. 722 98752A 98725A 98290A 46060A 46081A 46084A 98594L Keyboard | Model 350SRX Solid Rendering Workstation Model 350 SPU plus: 3D Display Controller 3D Solid Rendering Graphics Accelerator Frame Buffer Board 19-inch High-resolution Color Monitor (1280 x 1024) 16-bit Display Controller Interface to 98720A RGB cable HP-HIL 2-button Mouse 2.4m HP-HIL Extension with audio HP-HIL ID Module HP-UX 6.0, License-to-Use AXE; PE; NS-ARPA, NFS Services/300 <i>Note: Zero out of four DIO II slots available.</i> <i>Note: Must specify one keyboard option (listed on page 3). Options ABK, ABL, ABT not available.</i> | |
| Opt. 016 | | Add one 8-plane frame buffer board (limit four 8-plane boards per 98720A) | |
| Opt. 024 | | Add two 8-plane frame buffer boards (limit four 8-plane boards per 98720A) | |
| Opt. 032 | | Add three 8-plane frame buffer boards (limit four 8-plane boards per 98720A) | |
| Opt. 116 | | Converts 8 Mbytes RAM to 16 Mbytes RAM. Replaces the 4 Mbyte RAM add-on with a 12 Mbyte RAM add-on | |
| Opt. 208 | | Substitute 8 Mbyte ECC RAM for 8 Mbyte Parity-checking RAM | |
| Opt. 216 | | Substitute 16 Mbyte ECC RAM for 8 Mbyte Parity-checking RAM | |
| 98588E | 98562B 98550A 98752A 46060A 46081A 46084A 98594L Keyboard | Model 350CH 2D Color Workstation Model 350 SPU plus: High-resolution Color Graphics Board with RGB cables 19-inch High-resolution Color Monitor (1280 x 1024) HP-HIL 2-button Mouse 2.4m HP-HIL Extension with audio HP-HIL ID Module HP-UX 6.0, License-to-Use AXE; PE; NS-ARPA, NFS Services/300 <i>Note: Zero out of four DIO II slots available.</i> <i>Note: Must specify one keyboard option (listed on page 3). Options ABK, ABL, ABT not available.</i> | |
| Opt. 116 | | Converts 8 Mbytes RAM to 16 Mbytes RAM. Replaces the 4 Mbyte RAM add-on with a 12 Mbyte RAM add-on. | |
| Opt. 208 | | Substitute 8 Mbyte ECC RAM for 8 Mbyte Parity-checking RAM | |
| Opt. 216 | | Substitute 16 Mbyte ECC RAM for 8 Mbyte Parity-checking RAM | |
| Opt. 556 | | Add 98556A 2D Integer-based Graphics Accelerator | |
| Opt. 716 | | Substitute 16-inch Monitor (98789A) for 19-inch monitor (98752A) | |


Model 350 Workstations (cont'd)

| Product/Opt. Number | Component | Description | Price |
|---------------------|--|---|-------|
| 98588E Opt. 556 | 98562B 98550A 98556A 98752A 46060A 46081A 46084A 98594L Keyboard | Model 350CHX 2D Color Workstation (Model 350CH with 2D Integer-based Graphics Accelerator) Model 350CH 2D Color Workstation Add 2D Integer-based Graphics Accelerator Model 350 SPU plus: High-resolution Color Graphics Board with RGB cable 2D Integer-based Graphics Accelerator 19-inch High-resolution Color Monitor (1280 x 1024) HP-HIL 2-button mouse 2.4m HP-HIL extension with audio HP-HIL ID Module HP-UX 6.0, License-to-Use AXE; PE; NS-ARPA, NFS Services/300 <i>Note: Zero out of four DIO II slots available.</i> <i>Note: Must specify one keyboard option (listed on page 3). Options ABK, ABL, ABT not available.</i> | |
| Opt. 116 | | Converts 8 Mbytes RAM to 16 Mbytes RAM. Replaces the 4 Mbyte RAM add-on with a 12 Mbyte RAM add-on. | |
| Opt. 208 | | Substitute 8 Mbyte ECC RAM for 8 Mbyte Parity-checking RAM | |
| Opt. 216 | | Substitute 16 Mbyte ECC RAM for 8 Mbyte Parity-checking RAM | |
| Opt. 716 | | Substitute 16-inch color monitor (98789A) for 19-inch monitor (98752A) | |
| 98586E | 98562B Opt. 006 98700A 98710A 98701A 98287A 98751A 98290A 46060A 46081A 46084A 98594L Keyboard | Model 350CX Color Workstation with Graphics Accelerator Model 350 SPU plus: Add 2-slot DIO Backplane High-resolution Display Controller Graphics Accelerator for the 98700A 4-plane Graphic Memory Upgrade for 98700A Series 300 Interface Card for 98700A 19-inch High-resolution Color Monitor (1024 x 768) RGB Cable HP-HIL 2-button Mouse 2.4m HP-HIL Extension with audio HP-HIL ID Module HP-UX 6.0, License-to-Use AXE; PE; NS-ARPA, NFS Services/300 <i>Note: Zero out of four DIO II slots available; one DIO accessory (does not support I/O cards) slot available.</i> <i>Note: Must specify one keyboard option (listed on page 3). Options ABK, ABL, ABT not available.</i> | |
| Opt. 116 | | Converts 8 Mbytes RAM to 16 Mbytes RAM. Replaces the 4 Mbyte RAM add-on with a 12 Mbyte RAM add-on. | |
| Opt. 208 | | Substitute 8 Mbyte ECC RAM for 8 Mbyte Parity-checking RAM | |
| Opt. 216 | | Substitute 16 Mbyte ECC RAM for 8 Mbyte Parity-checking RAM | |
| 98583E | 98562B 98547A 98751A 46060A 46081A 46084A 98594L Keyboard | Model 350C Color Workstation Model 350 SPU plus: High-resolution Color Graphics Board with RGB cable 19-inch High-resolution Color Monitor (1024 x 768) HP-HIL 2-button Mouse 2.4m HP-HIL Extension with audio HP-HIL ID Module HP-UX 6.0, License-to-Use AXE; PE; NS-ARPA, NFS Services/300 <i>Note: Zero out of four DIO II slots available.</i> <i>Note: Must specify one keyboard option (listed on page 3). Options ABK, ABL, ABT not available.</i> | |
| Opt. 116 | | Converts 8 Mbytes RAM to 16 Mbytes RAM. Replaces the 4 Mbyte RAM add-on with a 12 Mbyte RAM add-on. | |
| Opt. 208 | | Substitute 8 Mbyte ECC RAM for 8 Mbyte Parity-checking RAM | |
| Opt. 216 | | Substitute 16 Mbyte ECC RAM for 8 Mbyte Parity-checking RAM | |
| Opt. 716 | | Substitute 16-inch monitor (98785A) for 19-inch monitor (98751A) | |

Model 350 Workstations (cont'd)

| Product/Opt. Number | Component | Description | Price |
|---------------------|--|---|-------|
| 98585E | 98562B 98550A 98752A 46060A 46081A 46084A 98594L 98594A 98794A 98678L 98678B Opt. 022 79232U Opt. 022 | Model 350AIC Color AI Development System Model 350 SPU plus: High-resolution Graphics Board with RGB cable 19-inch High-resolution Color Monitor (1280 x 1024) HP-HIL 2-button Mouse 2.4m HP-HIL Extension with audio HP-HIL ID Module HP-UX 6.0; License-to-Use AXE; PE; NS-ARPA, NFS Services/300 Media and documentation for 98594L. Software on ¼-inch tape cartridge HP-UX Programmer's Documentation Set Development Environment for Common LISP License-to-Use. Development Environment for Common LISP. Software on ¼-inch tape cartridge. Development Environment for HP PROLOG. Software on ¼-inch tape cartridge. | |
| Opt. 116 | | Converts 8 Mbytes RAM to 16 Mbytes RAM. Replaces the 4 Mbyte RAM add-on with a 12 Mbyte RAM add-on. | |
| Opt. 208 | | Substitute 8 Mbyte ECC RAM for 8 Mbyte Parity-checking RAM | |
| Opt. 216 | | Substitute 16 Mbyte ECC RAM for 8 Mbyte Parity-checking RAM | |
| Opt. 232 | | Delete HP PROLOG | |
| 98589E | 98562B 98548A 98788A 46060A 46081A 46084A 98594L Keyboard | Model 350MH Monochrome Workstation Model 350 SPU plus: High-resolution Monochrome Graphics Board 19-inch High-resolution Monochrome Monitor (1280 x 1024) HP-HIL 2-button Mouse 2.4m HP-HIL Extension with audio HP-HIL ID Module HP-UX 6.0, License-to-Use AXE; PE; NS-ARPA, NFS Services/300 <i>Note: Zero out of four DIO II slots available.</i> <i>Note: Must specify one keyboard option (listed on page 3). Options ABK, ABL, ABT not available.</i> | |
| Opt. 116 | | Converts 8 Mbytes RAM to 16 Mbytes RAM. Replaces the 4 Mbyte RAM add-on with a 12 Mbyte RAM add-on. | |
| Opt. 208 | | Substitute 8 Mbyte ECC RAM for 8 Mbyte Parity-checking RAM | |
| Opt. 216 | | Substitute 16 Mbyte ECC RAM for 8 Mbyte Parity-checking RAM | |
| 98582E | 98562B 98544B 98786A 46060A 46084A 98594L Keyboard | Model 350M Monochrome Workstation Model 350 SPU plus: High-resolution Monochrome Graphics Board 17-inch High-resolution Monochrome Monitor (1024 x 768) HP-HIL 2-button Mouse HP-HIL ID Module HP-UX 6.0, License-to-Use AXE; PE; NS-ARPA, NFS Services/300 <i>Note: Zero out of four DIO II slots available.</i> <i>Note: Must specify one keyboard option (listed on page 3). Options ABK, ABL, ABT not available.</i> | |
| Opt. 116 | | Converts 8 Mbytes RAM to 16 Mbytes RAM. Replaces the 4 Mbyte RAM add-on with a 12 Mbyte RAM add-on. | |
| Opt. 208 | | Substitute 8 Mbyte ECC RAM for 8 Mbyte Parity-checking RAM | |
| Opt. 216 | | Substitute 16 Mbyte ECC RAM for 8 Mbyte Parity-checking RAM | |

Model 350 Workstations (cont'd)

| Product/Opt. Number | Component | Description | Price |
|---------------------|--|---|---|
| 98584E | 98562B 98548A 98788A 46060A 46084A 98594L 98594A 98794A 98678L 98678B Opt. 022 79232U Opt. 022 Keyboard | Model 350AIM Monochrome AI Development System Model 350 SPU plus: High-resolution Monochrome Graphics Board with cable 19-inch High-resolution Monochrome Monitor (1280 x 1024) HP-HIL 2-button Mouse HP-HIL ID Module HP-UX 6.0; License-to-Use AXE; PE; NS-ARPA, NFS Services/300 Media and documentation for 98549L. Software on 1/4-inch tape cartridge. HP-UX Programmer's Documentation Kit Development Environment for Common LISP License-to-Use. Development Environment for Common LISP. Software on 1/4-inch tape cartridge. Development Environment for HP PROLOG. Software on 1/4-inch tape cartridge. <i>Note: Must specify one keyboard option (listed on page 3). Options ABK, ABL, ABT not available.</i> |  |
| Opt. 116 | | Converts 8 Mbytes RAM to 16 Mbytes RAM. Replaces the 4 Mbyte RAM add-on with a 12 Mbyte RAM add-on. | |
| Opt. 208 | | Substitute 8 Mbyte ECC RAM for 8 Mbyte Parity-checking RAM | |
| Opt. 216 | | Substitute 16 Mbyte ECC RAM for 8 Mbyte Parity-checking RAM | |
| Opt. 232 | | Delete HP PROLOG | |

Model PC-305 and PC-308 Instrument Controllers

The PC-305 and PC-308 instrument controllers are based on the HP Vectra Personal Computer with the HP BASIC Language Processor plug-in card. Within Series 300, they are instrument and measurement control computers, but they also run all of the

PC-DOS software of the IBM-PC compatible HP Vectra. For information on interfaces and accessories, please consult the *Office Workstation Products Price Guide*, Pub. No. 5954-0371. *IBM is a registered trademark of International Business Machines Corporation.*

| Product/Opt. Number | Component | Description | Price |
|--|--|--|-------|
| 82316A | 35731A 45981A 82300B 82304B 45951C | PC-305M HP BASIC Controller HP Vectra CS SPU, 8086-compatible, 7.16 MHz. Includes 640 Kbytes RAM, 3 1/2-inch 1.44 Mbyte microfloppy disc drive, Vectra CS PC Kit with AT2/DIN keyboard, Vectra CS manuals, serial/parallel interface. 12-inch Monochrome Monitor Multimode Video Adapter BASIC Language Processor Card (512 Kbyte RAM, HP-IB interface) and BASIC 5.0 (single 3 1/2-inch, 1.44 Mbyte, overlays, HP BASIC Reference Manual) BASIC 5.0 ROM and Installation Guide Vectra Disc Operating System with MS-DOS 3.2, Personal Applications Manager, File Manager and Utilities, 3 1/2-inch discs | |
| 82316AB 82316AD 82316AE 82316AF 82316AK 82316AS 82316AU 82316AZ | | Localized options include power cords, monitors, PC kits and MS-DOS. For localized option, order the appropriate product number below. U.S. English German European Spanish European French ICON Swedish/Finnish U.K. English Italian | |

Model PC-305 and PC-308 Instrument Controllers (cont'd)

| Product/Opt. Number | Component | Description | Price |
|--|--|---|-------|
| 82317A 35731A | 45981A 82300B 82304B 45951C | PC-305ML HP BASIC Controller HP Vectra CS SPU, 8086-compatible, 7.16 MHz. Includes 640 Kbytes RAM, 3½-inch 1.44 Mbyte microfloppy disc drive, 20 Mbyte hard disc, Vectra CS PC Kit with AT2/D IN keyboard, Vectra CS manuals, serial/parallel interface. 12-inch Monochrome Monitor Multimode Video Adapter BASIC Language Processor Card (512 Kbyte RAM, HP-IB interface) and BASIC 5.0 (single 3½-inch, 1.44 Mbyte, overlays, HP BASIC Reference Manual) BASIC 5.0 ROM and Installation Guide Vectra Disc Operating System with MS-DOS 3.2, Personal Applications Manager, File Manager and Utilities, 3½-inch discs | |
| 82317AB 82317AD 82317AE 82317AF 82317AK 82317AS 82317AU 82317AZ | | Localized options include power cords, monitors, PC kits and MS-DOS. For localized option, order the appropriate product number below. U.S. English German European Spanish European French ICON Swedish/Finnish U.K. English Italian | |
| 82318A | 35743A 45983A 82959S 82300B 82304B 45951C | PC-305CL HP BASIC Controller HP Vectra CS SPU, 8086 compatible, 7.16 MHz. Includes 640 Kbytes RAM, 3½-inch 1.44 Mbyte microfloppy disc drive, 20 Mbyte hard disc drive, Vectra CS PC Kit with AT2/DIN keyboard, Vectra CS manuals, serial/parallel interface. 13-inch EGA Color Monitor EGA Video Adapter Tilt/swivel Base BASIC Language Processor Card (512 Kbyte RAM, HP-IB interface) and BASIC 5.0 (single 3½-inch, 1.44 Mbyte, overlays, HP BASIC Reference Manual) BASIC 5.0 ROM and Installation Guide Vectra Disc Operating System with MS-DOS 3.2, Personal Applications Manager, File Manager and Utilities, 3½-inch discs | |
| 82318AB 82318AD 82318AE 82318AF 82318AK 82318AS 82318AU 82318AZ | | Localized options include power cords, monitors, PC kits and MS-DOS. For localized option, order the appropriate product number below. U.S. English German European Spanish European French ICON Swedish/Finnish U.K. English Italian | |
| 82314B | 35731A 45981A 82300B 82304B 45951C | PC-308ML HP BASIC Controller HP Vectra ES/12 SPU, Intel 80286, 12 MHz. Includes 640 Kbytes RAM, 3½-inch 1.44 Mbyte microfloppy disc drive, 20 Mbyte hard disc drive, Vectra ES/12 PC Kit with AT2/DIN keyboard, Vectra ES/12 manuals, serial/parallel interface. 12-inch Monochrome Monitor Multimode Video Adapter BASIC Language Processor Card (512 Kbyte RAM, HP-IB interface) and BASIC 5.0 (single 3½-inch, 1.44 Mbyte, overlays, HP BASIC Reference Manual) BASIC 5.0 ROM and Installation Guide Vectra Disc Operating System with MS-DOS 3.2, Personal Applications Manager, File Manager and Utilities, 3½-inch discs | |
| 82314BB 82314BD 82314BE 82314BF 82314BK 82314BS 82314BU 82314BZ | | Localized options include power cords, monitors, PC kits and MS-DOS. For localized option, order the appropriate product number below. U.S. English German European Spanish European French ICON Swedish/Finnish U.K. English Italian | |

Model PC-305 and PC-308 Instrument Controllers (cont'd)

| Product/Opt. Number | Component | Description | Price |
|--|--|---|-------|
| 82315B | 35743A 45983A 82959S 82300B 82304B 45951C | PC-308CL HP BASIC Controller HP Vectra ES/12 SPU, Intel 80286, 12 MHz. Includes 640 Kbytes RAM, 3½-inch 1.44 Mbyte microfloppy disc drive, 20 Mbyte hard disc drive, Vectra ES/12 PC Kit with AT2/DIN keyboard, Vectra ES manuals, serial/parallel interface. 13-inch EGA Color Monitor EGA Video Adapter Tilt/swivel Base BASIC Language Processor Card (512 Kbyte RAM, HP-IB interface) and BASIC 5.0 (single 3½-inch, 1.44 Mbyte, overlays, HP BASIC Reference Manual) BASIC 5.0 ROM and Installation Guide Vectra Disc Operating System with MS-DOS 3.2, Personal Applications Manager, File Manager and Utilities, 3½-inch discs | |
| 82315BB 82315BD 82315BE 82315BF 82315BK 82315BS 82315BU 82315BZ | | Localized options include power cords, monitors, PC kits and MS-DOS. For localized option, order the appropriate product number below. U.S. English German European Spanish European French ICON Swedish/Finnish U.K. English Italian | |

Model 310 Instrument Controllers

| Product/Opt. Number | Component | Description | Price |
|--|---|---|-------|
| 98581B | 98561A 98543A 35741A 98616A Opt. 044 Keyboard | Model 310 Low-cost Color Instrument Controller Model 310 SPU plus: Medium-resolution Color Graphics Board with RGB cable 12-inch Medium-resolution Color Monitor (512 x 400) BASIC software on 3½-inch microfloppy discs <i>Note: Must specify one keyboard option (listed on page X). Options ABL, ABT, ACA not available.</i> | |
| Opt. 042 | | Substitute BASIC software on 3½-inch microfloppy for BASIC on 5¼-inch floppy | |
| Opt. 613 | | Delete BASIC | |
| Opt. 008 | | Add 98546A Display Compatibility Interface | |
| Opt. W03 | | Convert 1 year return-to-HP warranty to 90-day on-site warranty | |
| Opt. 05A Opt. 05C Opt. 05D Opt. 05E Opt. 05F | | To delete the keyboard, specify a delete keyboard option: English version without keyboard; 120V Canadian French version without keyboard; 120V German version without keyboard; 220V European Spanish version without keyboard; 220V European French version without keyboard; 220V | |
| | | <i>Note: This system does not include the HP-HIL ID Module. It must be purchased separately if you plan to use application software which requires ID.</i> | |


Model 310 Instrument Controllers (cont'd)

| Product/Opt. Number | Component | Description | Price |
|--|---|--|-------|
| 98580B | 98561A 35731A 98616A Opt. 044 Keyboard | Model 310 Low-cost Monochrome Instrument Controller Model 310 SPU plus: 12-inch Medium-resolution Monochrome Monitor (512 x 400) BASIC software on 3½-inch microfloppy discs <i>Note: Must specify one keyboard option (listed on page X). Options ABL, ABT, ACA not available.</i> | |
| Opt. 042 | | Substitute BASIC software on 3½-inch microfloppy for BASIC on 5¼-inch floppy | |
| Opt. 613 | | Delete BASIC | |
| Opt. 002 | | Substitute X Mbyte (512 Kbyte) on-board RAM in place of standard 1 Mbyte | |
| Opt. 008 | | Add 98546A Display Compatibility Interface | |
| Opt. W03 | | Convert 1 year return-to-HP warranty to 90-day on-site warranty | |
| Opt. 05A Opt. 05C Opt. 05D Opt. 05E Opt. 05F | | To delete the keyboard, specify a delete keyboard option: English version without keyboard; 120V Canadian French version without keyboard; 120V German version without keyboard; 220V European Spanish version without keyboard; 220V European French version without keyboard; 220V | |
| | | <i>Note: This system does not include the HP-HIL ID Module. It must be purchased separately if you plan to use application software which requires ID.</i> | |

Model 330 Instrument Controllers

| Product/Opt. Number | Component | Description | Price |
|--|---|--|-------|
| 98581S | 98562A Opt. 006 Opt. 010 98543A 35741A 98616A Opt. 045 Keyboard | Model 330CMA Color Instrument Controller Model 330 SPU plus: 98242A 2-slot DIO Backplane 98262A High-speed HP-IB Disc Interface Medium-resolution Color Graphics Board with RGB cable 12-inch Medium-resolution Color Monitor (512 x 400) BASIC software on 3½-inch microfloppy discs <i>Note: Must specify one keyboard option (listed on page X). Options ABL, ABT, ACA not available.</i> | |
| Opt. 042 | | Substitute BASIC on 5¼-inch floppy discs for BASIC on 3½-inch microfloppy discs | |
| Opt. 613 | | Delete BASIC | |
| Opt. W03 | | Convert 1 year return-to-HP warranty to 90-day on-site warranty | |
| Opt. 05A Opt. 05C Opt. 05D Opt. 05E Opt. 05F Opt. 05K Opt. 05M Opt. 05Z | | Keyboard can be deleted by specifying the appropriate delete keyboard option: English version without keyboard, 120V Canadian French version without keyboard, 120V German version without keyboard, 220V European Spanish version without keyboard, 220V European French version without keyboard, 220V ICON version without keyboard, 220V Latin Spanish version without keyboard, 120V Italian version without keyboard, 220V | |
| | | <i>Note: This system does not include the HP-HIL ID Module. It must be purchased separately if you plan to use application software which requires ID.</i> | |

Model 330 Instrument Controllers (cont'd)

| Product/Opt. Number | Component | Description | Price |
|--|---|--|---|
| 98580S | 98562A Opt. 006 Opt. 010 98542A 35731A 98616A Opt. 045 Keyboard | Model 330MMA Monochrome Instrument Controller Model 330 SPU plus: 98242B 2-slot DIO Backplane 98262A High-speed HP-IB Disc Interface Medium-resolution Monochrome Graphics Board 12-inch Medium-resolution Monochrome Monitor (512 x 400) BASIC software on 3½-inch microfloppy discs <i>Note: Must specify one keyboard option (listed on page X). Options ABL, ABT, ACA not available.</i> |  |
| Opt. 042 | | Substitute BASIC on 5¼-inch floppy discs for BASIC on 3½-inch microfloppy discs | |
| Opt. 613 | | Delete BASIC | |
| Opt. W03 | | Convert 1 year return-to-HP warranty to 90-day on-site warranty | |
| Opt. 05A Opt. 05C Opt. 05D Opt. 05E Opt. 05F Opt. 05K Opt. 05M Opt. 05Z | | Keyboard can be deleted by specifying the appropriate delete keyboard option: English version without keyboard, 120V Canadian French version without keyboard, 120V German version without keyboard, 220V European Spanish version without keyboard, 220V European French version without keyboard, 220V ICON version without keyboard, 220V Latin Spanish version without keyboard, 120V Italian version without keyboard, 220V | |
| | | <i>Note: This system does not include the HP-HIL ID Module. It must be purchased separately if you plan to use application software which requires ID.</i> | |

SPU Accessories

| Product/Opt. Number | Description | Price |
|------------------------------------|---|-------|
| 98242A | 4-slot DIO Backplane. Converts two DIO II slots to two pairs of DIO slots (a total of four DIO slots) in 98570A Opt. 004, 98561A Opt. 004 or 98562A. | |
| 98242B | 2-slot DIO Backplane. Converts one DIO II slot to one pair of DIO slots (a total of two DIO slots) in 98562A/B SPU or 98570A Opt. 004 expander. | |
| 98568A Opt. 132 | Direct Connect 8-slot I/O Expander. Attaches directly to a Series 300 SPU. Required option for Model 330 or 350. Connect 98568A directly to Model 330 or 350 motherboard, using no system slots. | |
| 98570A Opt. 004 | Direct Connect DIO II Expander. Adds 2 DIO II slots and 4 DIO slots to a Model 330 or 350 SPU. Delete 4-slot DIO backplane for a total of 4 DIO II system slots. For Models 330 and 350 only. | |
| 9888A | 16-slot DIO Expander. Maximum of two allowed in system. Uses one DIO interface slot. | |
| 98258A Opt. 004 Opt. 005 | 4 Mbyte Parity-Checking RAM Controller. Accepts either a 98258B or 98258C RAM add-on board (Model 350 only) or can be used stand-alone (Models 330 and 350). Occupies one system slot. Includes 3-slot system bus connector. Delete 3-slot system bus connector (for use with Model 330). Substitute 4-slot system bus connector (for use with Model 350 with two RAM controllers installed) | |
| 98258B | 4 Mbyte Parity-Checking RAM Add-on. For Model 350 only. Plugs into 98258 A for a total of 8 Mbytes RAM. | |
| 98258C | 12 Mbyte Parity-Checking RAM Add-on. For Model 350 only. Plugs into 98258A for a total of 16 Mbytes RAM. | |
| 98257A | 1 Mbyte RAM Card (DIO) | |
| 98264A Opt. 004 Opt. 005 | 8 Mbyte Error-Checking and Correcting (ECC) RAM. Occupies one system slot. For Model 350 only. Includes 3-slot system bus connector. Delete 3-slot system bus connector (for use with Model 330) Substitute 4-slot system bus connector (for use with Model 350 with two RAM controllers installed) | |
| 98264B Opt. 004 Opt. 005 | 16 Mbyte Error-Checking and Correcting RAM. Occupies one system slot. Includes 3-slot system bus connector. Delete 3-slot system bus connector (for use with Model 330) Substitute 4-slot system bus connector (for use with Model 350 with two RAM controllers installed) | |
| 98248A Opt. 004 Opt. 005 | Floating Point Accelerator for Models 330 and 350. Includes 3-slot system bus connector. Delete 3-slot system bus connector (for use with Model 330) Substitute 4-slot system bus connector (for use with Model 350 with two RAM controllers installed) | |
| 98262A | High-speed HP-IB Disc Interface for Model 330 system interface board. Maximum one per system. Uses no DIO II or DIO slots. | |

SPU Upgrades

Field Upgrades

| Product/Opt. Number | Description | Price |
|--|--|-------|
| 98243B Opt. 002 | <p>Model 310 CPU Field Upgrade to Model 320. Model 310 processor board must be returned to HP. Upgrade includes:</p> <ul style="list-style-type: none"> • Model 320 processor board • HP-IB/HP-HIL/RS-232C, battery-backed real-time clock interface card • 1 Mbyte RAM card <p>Delete 1 Mbyte RAM board</p> | |
| 98244A Opt. 001 Opt. 002 Opt. 003 Opt. 116 Opt. 570 | <p>Model 330 CPU Field Upgrade to Model 350. Model 330 processor board must be returned to HP. Upgrade includes:</p> <ul style="list-style-type: none"> • Model 350 processor board • 98258A 4 Mbyte RAM Controller • 98258B 4 Mbyte RAM Add-on • 98262A High-Speed HP-IB Disc Interface • 2-high System bus <p>Delete 98258A and 98258B. Allows conversion to ECC RAM or re-use of previously owned 4 Mbyte RAM Controller. Requires either ECC RAM, HP 98258B 4 Mbyte RAM Add-on, or HP 98258C 12 Mbyte RAM Add-on. (Model 350 requires minimum 8 Mbyte RAM.)</p> <p>Delete 98262A High-Speed HP-IB Disc Interface. Allows re-use of previously owned 98262A. (Model 350 requires High-Speed HP-IB Disc Interface.)</p> <p>Substitute 3-high for 2-high system bus. Allows re-use of previously owned 98248A Floating Point Accelerator.</p> <p>Add 8 Mbyte Parity-Checking RAM. Adds additional 8 Mbytes RAM for a total of 16 Mbytes.</p> <p>Add 98570A Direct Connect DIO II Expander</p> | |

Trade-in Programs

| Product/Opt. Number | Description | Price |
|--|--|-------|
| | <i>Note: Replaced SPU, Expander, interfaces and accessories must be returned to HP for proper credit.</i> | |
| 98562A Opt. 0H0 98257N 98620N 98625N 98635N 98643N | <p>Model 310 SPU trade-in allowance when purchasing Model 330 SPU</p> <p>Return credit for Model 310 SPU</p> <p>Return credit for 98257A (up to three 98257N allowed)*</p> <p>Return credit for 98620A/B (one allowed)</p> <p>Return credit for 98625A/B (one allowed)</p> <p>Return credit for 98635A (one allowed)</p> <p>Return credit for 98643A (one allowed)</p> | |
| | <i>Note: Each return credit (N-suffix product numbers) must be ordered with the 98562A Opt. 0H0 trade-in.</i> | |
| 98562B Opt. 600 Opt. 601 Opt. 602 Opt. 603 Opt. 604 Opt. 605 Opt. 606 | <p>Model 320 SPU trade-in allowance for purchasing Model 350 SPU</p> <p>Return credit for 98562B Model 320 SPU</p> <p>Return credit for 98568A Direct Connect 8-slot I/O Expander</p> <p>Return credit for 3-board set (98620A/B, 98625A/B, 98643A)</p> <p>Return credit for 98257A 1 Mbyte RAM Card</p> <p>Return credit combination for 98562B, 98568A, 98620A/B, 98625A/B, 98643A and three 98257A products</p> <p>Add 98242B 2-slot DIO Backplane to allow re-use of 98287A display interface.</p> <p>Exchange 98724A for new 98725A 16-bit Display Controller Interface to 98720A 3D Display Controller.</p> | |

* If ordered concurrently with 98258A 4 Mbyte RAM Controller, up to seven 98257N products are allowed.

Boot ROM/Processor Board Updates

| Product/Opt. Number | Description | Price |
|---------------------|--|-------|
| 98563-67001 | <p>Rev. B Boot ROM for Model 310/320/330/350 to support the discless node feature of HP-UX 6.0. The following models which were shipped prior to 1 Jan 88 require the Boot ROM update in order to use the discless node feature. <i>Note: HP-UX 6.0 does not require the Rev. B Boot ROM. Use of the discless node feature of HP-UX 6.0 requires the newer revision of Boot ROM.</i></p> <ul style="list-style-type: none"> • Model 310 systems with serial number prefixes prior to 2751Axxxxx • Model 320 systems with serial number prefixes prior to 2752Axxxxx • Model 330 systems with serial number prefixes prior to 2740Axxxxx • Model 350 systems with serial number prefixes prior to 2747Axxxxx • 98243A/B Model 310 to Model 320 Field Upgrade which included a 98561-66516 processor board | |
| | <i>Note: The Boot ROM must be installed by HP qualified personnel. Installation assistance may be purchased separately.</i> | |
| | <i>Note: Model 310 systems with serial numbers less than 2522A02500 and Model 320 systems with serial numbers less than 2543A02300 require another update procedure. Please contact your local HP service office for more details.</i> | |
| 98562-69013 | Model 330 Processor Board Update. Model 330 systems with serial number prefixes prior to 2740Axxxxx which were shipped prior to 1 Jan 88 require this update to support the 2D Integer-Based Graphics Accelerator. This update includes Rev. C Boot ROM which is a superset of the Rev. B Boot ROM. | |
| 98562-69517 | Model 350 Processor Board Update. Model 350 systems with serial number prefixes prior to 2747Axxxxx which were shipped prior to 1 Jan 88 require this update to support the 2D Integer-Based Graphics Accelerator. This update includes Rev. C Boot ROM which is a superset of the Rev. B Boot ROM. | |

DOS Coprocessor System

| Product/Opt. Number | Description | Price |
|---------------------|---|-------|
| 98286S | <p>Series 300 DOS Coprocessor System. Includes DOS Coprocessor interface card and 98531A DOS Coprocessor Software. Requires DIO-based accessory slot and HP-UX, minimum Application Execution Environment. Available options include the 9127A 5¼-inch disc drive and the D1387A 80287 numeric coprocessor. (Order one media option below.)</p> <p>Opt. 022 Software on ¼-inch tape cartridge Opt. 045 Software on 3½-inch double-sided discs Opt. W03 Convert 1 year return-to-HP warranty to 90 day on-site repair</p> | |
| 98286T | <p>Series 300 DOS/Memory Enhancement Kit for Models 310 and 320. Ideal for BASIC/Pascal customer, includes a 98286S DOS Coprocessor System and one 98257A 1 Mbyte RAM card. Requires two DIO-based accessory slots and HP-UX minimum Application Execution Environment. (Order one media option below.)</p> <p>Opt. 022 Software on ¼-inch tape cartridge Opt. 045 Software on 3½-inch double-sided discs Opt. W03 Convert 1 year return-to-HP warranty to 90 day on-site repair</p> | |
| 98531A | <p>Series 300 DOS Coprocessor Software. Includes media, documentation and License-to-Use. Requires DOS Coprocessor interface card and HP-UX, minimum Application Execution Environment. Ability to update an older 1.0 or 1.1 revision of the DOS Coprocessor Software to the 1.2 revision is included.</p> <p>Opt. 022 Software on ¼-inch tape cartridge Opt. 045 Software on 3½-inch double-sided discs Opt. W03 Convert 1 year return-to-HP warranty to 90 day on-site repair</p> | |
| 9127A | 360 Kbyte Single 5¼-inch Flexible Disc Drive (also supports HP 270 Kbyte format). For use with Series 300 DOS Coprocessor System. | |
| D1387A | 80287 Numeric Coprocessor. For use on the DOS Coprocessor interface card (runs at 5.33 MHz). | |

HP BASIC Language Processor System

| Product/Opt. Number | Description | Price |
|---------------------|---|-------|
| 82300B | HP BASIC Language Processor. Includes Vectra PC/IBM PC AT plug-in processor board, 512 Kbytes RAM, HP-IB interface and BASIC 5.0 on 5¼-inch and 3½-inch media. | |
| 82301B | HP BASIC Language Processor Software only | |
| 82302A | 512 Kbytes User-installable RAM for Language Processor | |
| 82303A | RAM Expansion Kit | |
| 82304B | HP BASIC ROM for Language Processor | |
| 82305A | RAM Expansion Board. Includes 512 Kbytes RAM | |
| 82306A | GPIO Interface for Language Processor | |
| 82307A | GPIO Cable (unterminated) | |

VMEbus Connection

| Product/Opt. Number | Description | Price |
|--|---|-------|
| 98577A* Opt. 100 | VMEbus Expander (4 slots). Includes <i>Series 300 HP-UX Driver Development Guide</i> and <i>VME Accessory Development Guide</i> Deletes documentation | |
| 98646A | HP 9000 VMEbus Adapter. Includes DIO interface card, VME card, interconnecting cable, and hardware manual. (98358X software driver required for BASIC 4.0/5.0.) | |
| 98358A Opt. 244 Opt. 242 Opt. 322 Opt. 344 | VMEbus Software Drivers for 98646A Pascal Driver on 3½-inch microfloppy with manual. Pascal Driver on 5¼-inch floppy disc with manual. HP-UX Driver on ¼-inch tape cartridge. HP-UX Driver on 3½-inch microfloppy with manual. | |
| 98358R Opt. 200 Opt. 300 Opt. 400 | Right-to-Reproduce VMEbus Software Drivers for 98646A Right-to-reproduce Pascal Driver and manual. Right-to-reproduce HP-UX Driver and manual. Right-to-reproduce BASIC 4.0/5.0 Driver and manual. | |

* Model 330 systems shipped prior to 1JAN88 require a processor upgrade for use with 98577A. See service note #98562A-1.

PCIB System

| Product/Opt. Number | Description | Price |
|--|--|-------|
| 98647A Opt. 042 Opt. 044 Opt. 045 Opt. 001 | PC Instruments Bus (PC-IB) Interface and System Software Software on 5¼-inch floppy disc Software on 3½-inch single-sided disc Software on 3½-inch double-sided disc Delete system software and manuals | |

Graphics Boards

| Product/Opt. Number | Description | Price |
|---------------------|---|-------|
| 98542A | Medium-resolution Monochrome Graphics Board, 512 x 400 (Order 35731A/B monitor) | |
| 98543A | Medium-resolution 4-plane Color Graphics Board, 512 x 400 (Order 35741A/B monitor) | |
| 98544B | High-resolution Monochrome Graphics Board, 1024 x 768 (Order 98786A monitor) | |
| 98546A | Display Compatibility Interface, 512 x 400. Medium-resolution monochrome alpha/graphics board set with cables for Series 200 display compatibility (Order 35731A/B or 35741A/B monitor). | |
| 98547A | High-resolution 6-plane Color Graphics Board, 1024 x 768 (Order 98751A or 98785A monitor) | |
| 98548A* | High-resolution Monochrome Graphics Board, 1280 x 1024 (order 98788A Monitor) | |
| 98550A* | High-resolution Color Graphics Board, 1280 x 1024, 8 planes plus 2 overlay planes (order 98789A or 98752A Monitor). | |

* Not operational on Models 310 and 320.

Monitors*

| Product/Opt. Number | Description | Price |
|---------------------|---|-------|
| 35731A | 12-inch Medium-resolution Monochrome Monitor (512 x 400), 60 Hz, 115 Vac (for use with 98542A graphics board or 98561A/98546A display output). | |
| 35731B | 12-inch Medium-resolution Monochrome Monitor (512 x 400), 60 Hz, 115/230 Vac (for use with 98542A graphics board or 98561A/98546A display output). | |
| 35741A | 12-inch Medium-resolution Color Monitor (512 x 400), 60 Hz, 115 Vac (for use with 98543A graphics board). | |
| 35741B | 12-inch Medium-resolution Color Monitor (512 x 400), 60 Hz, 115/230 Vac (for use with 98543A graphics board). | |
| 98751A | 19-inch High-resolution Color Monitor (1024 x 768), 60 Hz, 115/230 Vac (for use with 98700A display controller, 98547A or 98549A graphics board). | |
| 98752A | 19-inch High-resolution Color Monitor (1280 x 1024), 60 Hz, 115/230 Vac (for use with 98550A graphics board or the 98720A display controller). | |
| 98785A | 16-inch High-resolution Color Monitor (1024 x 768), 60 Hz, 115/230 Vac (for use with the 98700A display controller or 98547A graphics board). | |
| 98786A | 17-inch High-resolution Monochrome Monitor (1024 x 768), 60 Hz, 115/230 Vac (for use with 98544B graphics board). | |
| 98788A | 19-inch High-resolution Monochrome Monitor (1280 x 1024), 60 Hz, 115/230 Vac (for use with 98548A graphics board). | |
| 98789A | 16-inch High-resolution Color Monitor (1280 x 1024), 60 Hz, 115/230 Vac (for use with 98550A graphics board or the 98720A display controller). | |

* 'B' versions are preset to local country power setting and have local product regulatory approval.



Graphics Accessories and Upgrades

| Product/Opt. Number | Description | Price |
|---------------------|---|-------|
| 98556A | 2D Integer-Based Graphics Accelerator. For use with Model 330CH and 350CH color workstations. Model 330 and 350 systems shipped prior to 1JAN88 require processor board exchange for use of HP 98556A graphics accelerator. Refer to page 15, "Boot ROM/Processor Updates" or the <i>Series 300 Hardware Technical Data</i> , Pub. No. 5951-6785, or contact your local HP service office to determine if this exchange is required. | |
| 98287A | Series 300 Interface Card for the 98700A. | |
| 98700A | High-resolution Display Controller. For use with the 98785A or 98751A monitor and the 98287A interface. | |
| 98701A | 4-plane Graphic Memory Upgrade for 98700A | |
| 98710A | Graphics Accelerator for the 98700A | |
| 98720A | 3D Display Controller. Includes four planes which are used as frame buffer if no other frame buffer boards are installed. When frame buffer boards are added, these planes become alpha overlay planes. Also included are a power cord and keyboard cable. RGB cable (98290A), Series 300 Display Controller interface (98724A for Model 320 or 98725A for Model 330/350), and monitor (98789A or 98752A) are not included. | |
| 98721A | 3D Solid Rendering Graphics Accelerator for use with 98720A | |
| 98722A | Frame Buffer Board. Adds eight planes frame buffer memory. Order additional power supply as described below (maximum four 98722As per 98720A). | |
| 98723A | Additional Power Supply, only required for use with a 16-, 24-, or 32-plane 98720A system. | |
| 98724A | 16-bit Display Controller Interface to 98720A. Includes LGB cable (for Model 320 only). | |
| 98725A | 16-bit Display Controller Interface to 98720A (for Models 330 and 350 only). | |

HP-HIL Input Devices*

| Product/Opt. Number | Description | Price |
|----------------------|--|-------|
| 45911A | HP-HIL Digitizer, 11" x 11", 12 lines per inch resolution | |
| 46021A | HP-HIL Keyboard (U.S. ASCII version). Cable comes with SPU or can be ordered separately. | |
| 98203C Opt. 001 | HP-HIL Keyboard with rotary knob for BASIC and Pascal systems. US ASCII. Field Upgrade Kit for Series 300 models shipped before September 1, 1986 | |
| 46060A | HP-HIL 2-button Mouse | |
| 46060B | HP-HIL 3-button Mouse | |
| 46080A | 2.4 meter HP-HIL Extension | |
| 46081A | 2.4 meter HP-HIL Extension with audio | |
| 46082A | 15 meter HP-HIL Remote Extension with audio and RGB video | |
| 46082B | 30 meter HP-HIL Remote Extension with audio and RGB video | |
| 46083A | HP-HIL Knob | |
| 46084A | HP-HIL ID Module | |
| 46085A | HP-HIL Control Dial Module | |
| 46086A | HP-HIL 32-button Box with 32 user-definable special-function keys and one user programmable LED | |
| 46087A/B Opt. 001 | HP-HIL Digitizer, ANSI A/ISO A4-size Adds the 46089A 4-button Cursor with crosshair | |
| 46088A/B Opt. 001 | HP-HIL Digitizer, ANSI B/ISO A3-size Adds the 46089A 4-button Cursor with crosshair | |
| 46089A/B | 4-button cursor with crosshair for 46087/88 | |
| 46094A | Quadrature Port allows devices using Logitech quadrature signals to be connected to HP-HIL interface | |
| 46095A | 3-button Mouse interfaces to HP-HIL via 46094A Quadrature Port | |
| 35723A | HP-HIL Touchscreen bezel for 12-inch monitors 35731A and 35741A; requires purchase of HP-HIL cable (46083-61601, 0.5m flat cable) | |
| 92916A | HP-HIL Bar Code Reader for commercial and industrial bar code applications | |

* For detailed information on model numbers and operating system revisions that support these peripherals, please refer to the *Series 300 Configuration Reference Manual, Part Number 98561-90020*. All devices (except keyboard) include cable.

Interface Products for Series 300 (DIO)


| Part/Option Number | Description | DIO Slot | | Price |
|--|---|-------------------|-----------|-------|
| | | Accessory /Memory | Interface | |
| 36593A | HP-UX Gateway/SNALink for Series 300 Gateway System | | X | |
| 50955A Opt. 042 Opt. 045 | 3278 Display Station Emulator (interface and software) Software on 5¼-inch floppy disc Software on 3½-inch microfloppy disc | | X | |
| 50962A | SRM Coax Interface for Series 200 and 300 systems | | X | |
| 98253A | EPROM Programmer Interface (98255A) | | X | |
| 98255A | EPROM Card , 16 sockets for 2764 or 27128 EPROM ICs | X | | |
| 98256A | 256 Kbyte RAM Card for Models 310 and 320 | X | | |
| 98257A | 1 Mbyte RAM Card with parity check for Models 310 and 320 | X | | |
| 98259A | 128 Kbyte Magnetic Bubble Memory Card | X | | |
| 98546A | Display Compatibility Interface , 512 x 400. Medium-resolution monochrome alpha/graphics board set with cables for Series 200 display compatibility (order 35731A/B or 35741A/B monitor). | | | |
| 98620B | Two-channel DMA Controller Card for Models 310 and 320 | X | | |
| 98622A Opt. 001 Opt. 002 Opt. 003 Opt. 004 | 16-bit GPIO Interface Card Provides 4.6m unterminated cable (P/N 5061-4209) Provides 0.8m terminated cable for 9885M Flexible Disc Drive (P/N 5061-4211) Provides 4.6m terminated cable for 6940A/B Multiprogrammer (P/N 5061-4210) Provides 2.5m terminated cable for 9866A/B Thermal Printer (P/N 5061-4212) | | X | |
| 98623A Opt. 001 | 43-line BCD Interface Card Provides 4.6m unterminated cable (P/N 5061-4217) | | X | |
| 98624A | HP-IB Interface , standard speed 1m HP-IB cable, P/N 10833A 2m HP-IB cable, P/N 10833B 4m HP-IB cable, P/N 10833C 0.5m HP-IB cable, P/N 10833D | | X | |
| 98625B | HP-IB Disc Interface , high speed | | X | |
| 98262A | HP-IB Disc Interface , high-speed (for Model 330 and 350 only) | N/A | N/A | |
| 98626A Opt. 001 Opt. 002 | RS-232C (Serial) Interface Provides DTE (male) RS-232C cable (P/N 5061-4215) Provides DCE (female) RS-232C cable (P/N 5061-4216) | | X | |
| 98627A | RGB Color Video Output Interface with cables | | X | |
| 98628A Opt. 001 Opt. 002 Opt. 003 | Datacomm Interface , RS-423 and RS-232 Provides DTE (male) RS-232C cable (P/N 5061-4215) Provides DCE (female) RS-232C cable (P/N 5061-4216) Provides DCE (female) RS-449/423 cable (P/N 5061-4250) | | X | |
| 98630A Opt. 001 | Breadboard Interface Service Extender | X | | |
| 98633A | 6944A Multiprogrammer Interface . For use with 6944A Multiprogrammer. | | X | |
| 98635A | Floating Point Math Card for Model 310 | X | | |
| 98640A Opt. 001 Opt. 630 Opt. 655 | 7-channel Analog-to-Digital Interface Deletes diagnostic software and test hood Provides diagnostic software on 3½" microfloppy Provides diagnostic software on 5¼" floppy | | X | |
| 98641A | RJE 2780/3780 Interface . For use with HP-UX and 50967A RJE software. | | X | |
| 98642A Opt. 001 | 4-port RS-232C Multiplexer Deletes all cables | | X | |
| 98643A Opt. 241 | LAN/300 Link with ThinMAU (requires 50952C) Delete ThinMAU and T-Connector | | X | |
| 98644A | RS-232C Serial Interface | | X | |
| 98646A | VMEbus Adapter . Includes DIO interface card, VME card, interconnecting cable, and hardware manual. (Requires 98358A software driver.) | | | |
| 98691A Opt. 001 Opt. 002 Opt. 003 | Programmable Datacomm Interface Provides DTE (male) RS-232C cable (P/N 5061-4215) Provides DCE (female) RS-232C cable (P/N 5061-4216) Provides DTE (male) RS-449/423 cable (P/N 5061-4250) | | X | |

Series 300 Operating and Language Systems

HP-UX Operating System

| Product/Opt. Number | Description | Price |
|--|--|-------|
| 98594L Opt. 003 Opt. 004 Opt. 005 98594A Opt. 022 | HP-UX 6.0 Software Bundle License-to-Use. Includes License-to-Use 2-user AXE, PE, NS-ARPA, NFS. Media must be ordered separately. Upgrade credit for prior purchase of 6.0 AXE (98515L) Upgrade credit for prior purchase of 6.0 NS-ARPA (50950L) Upgrade credit for prior purchase of 6.0 PE (98597L) Media and documentation for 98594L. Requires prior or concurrent purchase of 98594L. Must order Opt. 022 below. Software on ¼-inch tape cartridge | |
| 98515L 98515B Opt. 022 Opt. 045 | HP-UX Application Execution Environment (AXE) License-to-Use, 2 user. Includes HP-UX kernel, HP Windows/9000 and PAM. Media and documentation must be ordered separately. Media and documentation for 98515L. Order either media Opt. 022 or 045 below. Requires prior or concurrent purchase of 98515L or 98594L. Software on ¼-inch tape cartridge Software on 3½-inch double-sided discs | |
| 98595L Opt. 003 98595B Opt. 022 Opt. 045 | HP-UX Application Execution Environment License-to-Use, 16 user. Includes HP-UX kernel, HP-Windows/9000 and PAM. Media and documentation must be ordered separately. 2-user to 16-user Upgrade. Requires prior purchase of 98515L or 98594L. Media and documentation for 98595L. Order either media Opt. 022 or 045 below. Requires prior or concurrent purchase of 98595L. Software on ¼-inch tape cartridge Software on 3½-inch double-sided discs | |
| 98596L Opt. 003 98596B Opt. 022 | HP-UX Application Execution Environment License-to-Use, 32 user. Includes HP-UX kernel, HP-Windows/9000 and PAM. Media and documentation must be ordered separately. 16-user to 32-user Upgrade. Requires prior purchase of 98595L Media and documentation for 98596L. Order media Opt. 022 below. Requires prior or concurrent purchase of 98596L. Software on ¼-inch tape cartridge | |
| 98594-17000 | HP-UX AXE License-to-Use 6.0 Upgrade. Upgrade from 5.x to 6.0 AXE. Requires prior purchase of 98515A, 98595A or 98596A. Media and documentation must be ordered separately (98515B, 98595B, or 98596B). | |
| 98597L 98597C Opt. 022 Opt. 045 | HP-UX Programming Environment License-to-Use. Requires Application Execution Environment. Includes commands, C compiler, MC680x0 assembler, symbolic debugger, RS-232 data communications and device I/O library. Media and documentation must be ordered separately. Media and documentation for 98597L. Order either media Opt. 022 or 045 below. Requires prior or concurrent purchase of 98597L or 98594L. Software on ¼-inch tape cartridge Software on 3½-inch double-side discs | |
| 98598L 98598B Opt. 022 Opt. 045 | HP-UX FORTRAN 77 Compiler License-to-Use. FORTRAN 77 is a full implementation of the ANSI FORTRAN 77 X.39-1978 standard, plus MIL-STD 1753 and other extensions. Media and documentation must be ordered separately. Media and documentation for 98598L. Order either media Opt. 022 or 045 below. Requires prior or concurrent purchased of 98598L. Software on ¼-inch tape cartridge Software on 3½-inch double-sided discs | |
| 98599L 98599B Opt. 022 Opt. 045 | HP-UX Pascal Compiler License-to-Use. The Pascal compiler is a superset of the proposed ANSI standard with data manipulation, I/O and other extensions. Media and documentation must be ordered separately. Media and documentation for 98599L. Order either media Opt. 022 or 045 below. Requires prior or concurrent purchase of 98599L. Software on ¼-inch tape cartridge Software on 3½-inch double-sided discs | |
| 97066L 97066B Opt. 022 Opt. 045 | HP-UX Technical BASIC License-to-Use. The BASIC interpreter includes a complete BASIC development and run-time environment. Media and documentation must be ordered separately. Media and documentation for 97066L. Order either media Opt. 022 or 045 below. Requires prior or concurrent purchase of 97066L. Software on ¼-inch tape cartridge Software on 3½-inch double-sided discs | |
| 98794A | HP-UX Programmer's Documentation Set. Includes HP-UX reference, concepts and tutorials, C Programming documentation and Starbase Graphics Library documentation. | |
| 98594-87901 | Documentation Kit for 98594A/L HP-UX 6.0 Software Bundle. Includes binders and documentation: Beginner's Guides, HP-UX Reference, System Administration, Networking and other documents. | |

HP-UX Operating System (cont'd)

| Product/Opt. Number | Description | Price |
|--|--|---|
| 98794-87901 | HP-UX 6.0 Complete Core Documentation Kit. Includes binders and documentation: Beginner's Guides, System Administration, HP-UX Reference, HP-UX Concepts and Tutorials, Starbase Graphics, C, FORTRAN, Pascal, Window/9000 and other documents. | |
| 98672L 98672B Opt. 022 Opt. 045 | HP-GKS Graphics Library License-to-Use. HP-GKS is a full level 2b implementation of the ANSI/ISO Graphics Kernel System standard. Media and documentation must be ordered separately. Media and documentation for 98672L. Order either media Opt. 022 or 045 below. Requires prior or concurrent purchase of 98672L. Software on ¼-inch tape cartridge Software on 3½-inch double-sided discs |  |
| 98600L 98600B Opt. 022 Opt. 045 | HP-UX DGL/AGP Graphics Library License-to-Use. Media and documentation must be ordered separately. Media and documentation for 98600L. Order either media Opt. 022 or 045 below. Requires prior or concurrent purchase of 98600L. Software on ¼-inch tape cartridge Software on 3½-inch double-sided discs | |
| 98674L 98674B Opt. 022 Opt. 045 | Starbase Display List License-to-Use. Media and documentation must be ordered separately. Media and documentation for 98674L. Order either media Opt. 022 or 045 below. Requires prior or concurrent purchase of 98674L. Software on ¼-inch tape cartridge Software on 3½-inch double-sided discs | |
| 97054A | HP-UX Ada Compiler, Single-user. Includes Ada compiler, libraries and utilities. Ada compiler is a full implementation of the ANSI Ada standard (ANSI/MIL-STD-1815A-1983). Requires HP-UX AXE. | |
| 97055A | HP-UX Ada Compiler, Multi-user. See 97054A for description. | |
| 82320A Opt. 022 Opt. 045 | X Window System Software on ¼-inch tape cartridge. Software on 3½-inch double-sided discs. | |
| 82320R Opt. 100 | Right-to-reproduce the X Window system. Includes manual set and right-to-reproduce certificate. Delete manuals. | |
| 98678L 98678B Opt. 022 | Development Environment for Common LISP License-to-Use. Requires 46084A HP-HIL Module and HP-UX Programming Environment. Includes compiler, interpreter, debugger and integrated environment for development of Common LISP applications. Order media and documentation separately. Media and documentation for 98678L. Requires prior or concurrent purchase of 98678L. Order Opt. 022 below. Software on ½-inch tape cartridge. | |
| 79232U | Development Environment for HP PROLOG. Requires 98678B Development Environment for Common LISP. Includes choice of syntax compiler, debugger, interpreter, and integrated environment for development of PROLOG applications. | |
| 98679L | Execution License for Common LISP/PROLOG. Requires 46084A HP-HIL ID Module and HP-UX Application Execution Environment. License to execute applications written in Common LISP and/or HP PROLOG. | |
| 79725A Opt. 022 Opt. 045 | HP SQL/300 Development Environment. A relational Database Management System based on the Structured Query Language (SQL). Includes languages pre-processors for C, FORTRAN or Pascal programs. Software on ¼-inch tape cartridge. Software on 3½-inch double-sided disc. | |
| 79727A Opt. 022 Opt. 045 | HP Visor/300 Database Access Tools. A forms-based interface to HP SQL/300 databases for performing ad hoc queries or for generating customized reports. Software on ¼-inch tape cartridge. Software on 3½-inch double-sided disc. | |
| 98112A Opt. 022 Opt. 045 | HP TODAY/HP-UX Developer Pack. Version includes complete Application Development Environment, dictionary, screen and report painter, logic commands, application testing and run-time environment supporting C-ISAM or HP SQL data file management systems. Software on ¼-inch CS/80 tape cartridge. Software on 3½-inch, double-sided discs. | |
| 98118A Opt. 022 Opt. 045 | HP TODAY/HP-UX Run-time Environment. Includes all required libraries, routines and logic to run HP TODAY applications. Software on ¼-inch CS/80 tape cartridge. Software on 3½-inch, double-sided discs. | |
| 98683X Opt. 022 | DGL Skeleton Device Handler Software on ¼-inch tape cartridge | |

HP-UX Operating System (cont'd)

| Product/Opt. Number | Description | Price |
|--------------------------------|--|-------|
| 98693A Opt. 022 Opt. 045 | SRM Access Utilities for HP-UX Software on 1/4-inch tape cartridge. Software on 3 1/2-inch double-sided disc. | |
| 97009-10220 | Starbase Driver Development Guide (order from DMK*) | |
| 98053A | Versatec Hardcopy Support. Includes software, documentation, and cable. Must order HP 98622A GPIO interface separately. | |

* HP's Direct Marketing Division; order direct by calling 1-800-538-8787.

BASIC Language Systems

| Product/Opt. Number | Description | Price |
|---------------------------------|--|-------|
| 98616A Opt. 001 | RAM-based BASIC 5.1 Language System. Includes one system disc set, BASIC 5.0/5.1 Manual Kit and Utilities Pack. (Order one choice under "Media Options".) Upgrade from a previous BASIC Language system. | |
| 98616M Opt. 100 | Right-to-reproduce one copy of BASIC 5.x for VEUs, SRM users, or end users. Delete manuals | |
| 98616R Opt. 100 | Right-to-reproduce one copy of BASIC 5.x for resellers. Delete manuals | |
| 98613B* Opt. 001 | RAM-based BASIC 4.0 Language System. Includes one system disc set, BASIC 4.0 Language Manual Kit and BASIC 4.0 Utilities Pack. (Order one choice under "Media Options".) Upgrade from a previous BASIC Language System | |
| 98613R* Opt. 001 Opt. 100 | Right-to-reproduce BASIC 4.0 Language System. Includes BASIC 4.0 Language Manual Kit and right-to-reproduce license. Upgrades from a previous version of BASIC Right-to-reproduce. Delete manuals | |
| 98603A* | ROM-based BASIC 4.0. Includes one system ROM board, BASIC 4.0 Manual Kit, and BASIC 4.0 Utilities Pack. The ROM board contains all BASIC 4.0 binaries. [§] (Order one choice under "Media Options".) | |
| 98603B | ROM-based BASIC 5.1. Includes one system ROM board, BASIC 5.0/5.1 Manual Kit, and BASIC 5.1 Utilities Pack. The ROM board contains all BASIC 5.1 binaries. (Order one choice under "Media Options".) | |
| 98618A | Compiler for BASIC 5.x | |
| 98618-17x00 | BASIC 5.x Compiler Upgrade Kit. Includes BASIC 5.0/5.1 Compiler disc and manual kit. (Customer must return previous version to DMK.) | |
| 98616-11x40 [†] | BASIC 5.x Compiled Subprogram Utilities (CSUB). For use with BASIC 5.0/5.1 and Pascal 3.2. These utilities allow you to develop compiled subprograms in Pascal or Assembly that are callable by BASIC. | |
| 98616-17x40 [†] | BASIC 5.x CSUB Utility Upgrade. This upgrades previous versions of the Compiled Subprogram Utilities to the current version. | |
| 98616-87901 | BASIC 5.0/5.1 Documentation Kit (order from DMK [†]) | |

* BASIC 4.0 and Pascal 3.1 are supported on the Models 310 and 320 only.

[†] The 'X' in the part number indicates media option:

2 is for 5 1/4-inch external format;

4 is for 3 1/2-inch double-sided discs recorded single-sided;

5 is for 3 1/2-inch double-sided discs recorded double-sided.

‡ HP's Direct Marketing Division; order direct by dialing 1-800-538-8787.

§ Except SRM, Datacomm and KNB_2. These binaries are provided in software separately.

Pascal Language Systems

| Product/Opt. Number | Description | Price |
|---------------------------------|--|-------|
| 98617A Opt. 001 | RAM-based Pascal 3.2 Language System. Includes system disc set and Pascal 3.2 Manual Set. (Order one choice under "Media Options".) Upgrade from previous version of Pascal Language System. | |
| 98617M Opt. 100 | Right-to-Reproduce one copy of Pascal 3.2 for VEU's, SRM users, or end users. Delete manuals | |
| 98617R Opt. 100 | Right-to-reproduce one copy of Pascal 3.2 for any resellers. Delete manuals | |
| 98617E Opt. 090 | Right-to-execute Pascal 3.2 for any resellers. Additional 99 copies of Pascal 3.2 right-to-execute. | |
| 98615C* Opt. 001 | RAM-based Pascal 3.1 Language System. Includes system disc set and Pascal 3.1 Language Manual Kit. (Order one choice under "Media Options".) Upgrade from previous version of Pascal Language System. | |
| 98615R* Opt. 001 Opt. 100 | Right-to-Reproduce Pascal 3.1 Language System. Includes Pascal 3.1 Language Manual Kit and right-to-reproduce license. Discount for second and subsequent upgrades from previous versions of Pascal Language System. Delete manuals | |
| 98615E* Opt. 090 | Right-to-Execute Pascal 3.1 Language System. Certificate for stand-alone applications using portions of the Pascal Language System. 99 additional Right-to-Execute certificates (100 total). | |
| 98615-87971 | Pascal 3.1 Systems Internals Documentation (order from DMK [†]) | |
| 98617-87901 | Pascal 3.2 Documentation Kit (order from DMK [†]) | |

* BASIC 4.0 and Pascal 3.1 are supported on the Models 310 and 320 only.

† HP's Direct Marketing Division; order direct by dialing 1-800-538-8787 (in the United States only).

Media Options

| Product/Opt. Number | Description | Price |
|----------------------------------|--|-------|
| Opt. 042 Opt. 044 Opt. 045 | Specify one media option for each BASIC or Pascal Language System ordered above. Opt. 042 Software on 5¼-inch disc. Opt. 044 Software on 3½-inch disc, single-sided format on double-sided media. Opt. 045 Software on 3½-inch disc, double-sided format. | |

Local Area Network (LAN)

LAN Software

| Product/Opt. Number | Description | Price |
|--|---|-------|
| 50952L | NS-ARPA Services/300 License-to-Use. Media and documentation must be ordered separately. | |
| 50952C Opt. 022 Opt. 045 | NS-ARPA Services/300 Networking Software, Media and Documentation (requires LAN hardware). Includes: NS, ARPA, and Berkeley 4.2 Networking Services. Select media option. Requires prior or concurrent purchase of 50952L. Opt. 022 Software on ¼-inch tape cartridge Opt. 045 Software on 3½-inch double-sided discs | |
| 50969L 50969A Opt. 022 Opt. 045 | NFS Services/300 License-to-Use. Includes remote file sharing, the Yellow Pages, Remote Procedure Call, and External Data Representation. Media and documentation must be ordered separately. Media and documentation for 50969L. Requires prior or concurrent purchase of 50969L. Order either media option 022 or 045 below. Opt. 022 Software on ½-inch tape cartridge Opt. 045 Software on 3½-inch double-sided discs | |

LAN Hardware

| Product/Opt. Number | Description | Price |
|--|--|-------|
| 98643A Opt. 241 | LAN/300 Link (requires 50952B). Includes LAN interface, 28641A ThinMAU with integrated 1 meter AUI cable, and BNC "T" connector. (Use for Models 310 and 320.) Delete ThinMAU and "T" Connector for connecting to ThickLAN cable. (Must order MAU and AUI cable separately.) | |
| 92227A 92227B 92227C 92227D 92227E 92227F 92227G 92227H | LAN Cables and Accessories For connecting to ThinLAN. ThinLAN coax cable (with BNC connectors installed): 1-m coax cable 2-m coax cable 4-m coax cable 8-m coax cable 16-m coax cable 32-m coax cable 64-m coax cable 128-m coax cable | |
| 92227J 92227K | ThinLAN Coax Cable (without connectors): Cut-to-length, PVC (cost per meter) Cut-to-length, FEP (cost per meter) | |
| 92227L 92227M 92227N 92227P 28641A | ThinLAN Accessories BNC Connector Pair for 92227J/K BNC Connector Tool Kit for 92227J/K BNC "T" Connector ThinLAN Terminator Pair ThinMAU Includes 1 meter AUI cable and BNC "T" connector (included with 98643A) | |
| 30241A 92256C | For connecting to Backbone LAN: Backbone LAN MAU and Tap LAN MAU and Installation Kit (order once): | |
| 92254A 92254B 92254C 92254D 92254E 92254F 92254G 92254H | Backbone LAN AUI cables (with connectors attached): 6-m FEP AUI Cable 12-m FEP AUI Cable 24-m FEP AUI Cable 48-m FEP AUI Cable 6-m PVC (11) AUI Cable 12-m PVC AUI Cable 24-m PVC AUI Cable 48-m PVC AUI Cable | |
| 92255A 92255B 92255C | Backbone LAN AUI Cables (without connectors attached) and Tools : FEP Cut-to-length AUI Cable (cost per meter) PVC Cut-to-length AUI Cable (cost per meter) LAN AUI Connector kit (order for each 92255A/B connection) | |
| 92253A 92253B 92253C 92253D 92253E 92253F 92253G 92253H | Backbone LAN Coax Cable (including connectors and terminators): 23.4-m FEP without connectors attached 23.4-m FEP with connectors attached 117-m FEP without connectors attached 500-m FEP without connectors attached 23.4-m PVC without connectors attached 23.4-m PVC with connectors attached 117-m PVC without connectors attached 500-m PVC without connectors attached | |
| 92256A 92229B | Backbone LAN Coax Cable Tools for attaching connectors (order once): LAN Coax Installation Tool Kit LAN Coax Crimp Tool | |
| 92223A 92223C | For repeatered networks : Repeater Kit . Includes repeater, two 5-meter repeater AUI cables, and 2 repeater MAUs. For connecting to ThinLAN or Backbone LAN coax segments. 20-m Repeater FEP AUI . Includes a single 20 meter repeater AUI cable. For extending the distance between the repeater and repeater MAU (up to 50 meters max). | |
| 28645A Opt. 241 | ThinLAN Hub . Includes ThinLAN Hub assembly, MAU assembly, MAU Coax Tap, four BNC "T" connectors, 5-meter AUI cable, wall mounting bracket, and Installation Manual. Delete MAU, Tap, AUI cable and mounting bracket. | |

Note: For complete information on LAN cables and accessories, see the HP Computer Users' Catalog.

Series 300-to-IBM Data Communications

| Product/Opt. Number | Description | Price |
|--|--|--------------|
| 36590A | HP-UX SNA3270 Datacomm Software for Series 300 | |
| 36592A Opt. 0A0 Opt. 0A1 | HP-UX SNALink for Series 300 2 session 32 session | |
| 36591A | HP-UX Gateway/SNA3270 Datacomm Software for each Series 300 | |
| 36593A | HP-UX Gateway/SNALink for Series 300 Gateway System | |
| 98855A Opt. 301 Opt. 304 Opt. 308 Opt. 312 Opt. 316 Opt. 400 Opt. 501 Opt. 502 Opt. 503 Opt. 504 | 5080 Emulator.* Standard hardware and software required to support the 5080 terminal emulator gateway. Includes VME coax interface. Requires NS-ARPA Services/300 and HP-UX 6.0. (Must specify number of users option below.) 1-user gateway license, media and documentation for 5080 terminal emulator software 4-user gateway license, media and documentation for 5080 terminal emulator software 8-user gateway license, media and documentation for 5080 terminal emulator software 12-user gateway license, media and documentation for 5080 terminal emulator software 16-user gateway license, media and documentation for 5080 terminal emulator software Channel Controller Coaxial Communications T1 Communications V.35 Communications Fiber Optic | |
| 98856A Opt. 301 Opt. 304 Opt. 308 Opt. 312 | 5080 Emulator Upgrade.* Adds users to the 98855A 5080 Emulator. Requires prior or concurrent purchase of 98855A. (Must specify number of users option below.) Add 1 user Add 4 users Add 8 users Add 12 users | |
| 98857A Opt. 301 Opt. 304 Opt. 308 Opt. 312 Opt. 316 Opt. 501 Opt. 502 Opt. 503 Opt. 504 | 5080 Emulator Upgrade. Includes Communications Processor and VME Coax Interface. Requires prior or concurrent purchase of 98855A or existing Spectrographics DSCC equipment. (Must specify number of users option below.) 1-user gateway license, media and documentation for 5080 terminal emulator software 4-user gateway license, media and documentation for 5080 terminal emulator software 8-user gateway license, media and documentation for 5080 terminal emulator software 12-user gateway license, media and documentation for 5080 terminal emulator software 16-user gateway license, media and documentation for 5080 terminal emulator software Coaxial Communications T1 Communications V.35 Communications Fiber Optic | |
| 98858A Opt. 301 Opt. 304 Opt. 308 Opt. 312 Opt. 316 | Gateway License for 3278 Emulator and 5080 High-speed File Transfer.* Requires prior or concurrent purchase of 98855A. (Must specify number of users option below.) 1-user gateway license, media and documentation 4-user gateway license, media and documentation 8-user gateway license, media and documentation 12-user gateway license, media and documentation 16-user gateway license, media and documentation | |
| 98859A Opt. 301 Opt. 304 Opt. 308 Opt. 312 | 3278 Emulator and 5080 High-speed File Transfer Gateway License Upgrade.* Requires prior or concurrent purchase of 98855A and 98858A. (Must specify number of user option below.) 1-user gateway license, media and documentation 4-user gateway license, media and documentation 8-user gateway license, media and documentation 12-user gateway license, media and documentation | |

* HP 5080 Emulator is available in the United States only and requires a special product support plan.



NS for the DEC VAX Computer

| Product/Opt. Number | Description | Price |
|--|--|-------|
| 50950A Opt. 044 Opt. 200 Opt. 300 Opt. 400 | NS for the DEC VAX Computer For HP 9000 to DEC MicroVAX communications. Software on 5¼-inch floppy (RX50). For HP 9000 to DEC MicroVAX communications. Software on TK50. For HP 9000 to DEC 11/725-85X0 communications. Software on 9-track tape. For HP 9000 to DEC 8600-89X0 communications. Software on 9-track tape. | |
| 50950R Opt. 044 Opt. 200 Opt. 300 Opt. 400 | Right-to-reproduce NS for the DEC VAX Computer For HP 9000 to DEC MicroVAX communications. Software on 5¼-inch floppy (RX50). For HP 9000 to DEC MicroVAX communications. Software on TK50. For HP 9000 to DEC 11/725-85X0 communications. Software on 9-track tape. For HP 9000 to DEC 8600-89X0 communications. Software on 9-track tape. | |

Shared Resource Management (SRM)

SRM Servers

| Product/Opt. Number | Description | Price |
|--|---|-------|
| 50960A Opt. 022 Opt. 045 Opt. 100 Opt. 110 | SRM Server including 98619A operating system, 50962A coax interface, interfaces and cables for video monitor and keyboard, CPU, 1/2 Mbyte RAM memory, DMA, HP-IB and coax terminator kit in 325mm wide case. <i>Must order 82913A monitor and 46021A keyboard separately.</i> <i>Requires 9888A bus expander for more than one SRM interface.</i> Software on ½-inch tape cartridge Software on 3½-inch microfloppy disc 256 Kbyte RAM. Required for on-line backup and serial printer support. Only one memory option (Opt. 100 or 110) allowed per 50960A server. 1 Mbyte RAM. Recommended for maximum SRM performance and required for on-line backup and serial printer support. Only one memory option (Opt. 100 or 110) allowed per 50960A server. | |
| 50960U Opt. 100 | SRM Upgrades Battery-powered clock upgrade. Keyboard/HP-IB interface with a battery powered time-of-day clock. For systems shipped prior to 1 Jan. '88. | |
| 98619A Opt. 001 Opt. 022 Opt. 045 | SRM Operating System. Includes software and manual. Requires 50960A or 9920A Opt. 500 configuration. Included with 50960A SRM Server. <i>Note: You must order Opt. 022 or 045.</i> Upgrade discount (from previous revisions) Software on ¼-inch tape cartridge. Software on 3½-inch microfloppy disc. | |

SRM Workstation Hardware

| Product/Opt. Number | Description | Price |
|--|--|-------|
| 50962A | <i>Hardware required in the Series 300 workstations to connect to the SRM Servers via the coax link:</i> SRM Coax Interface | |
| 50963A | SRM Interface for Vectra. Includes interface card, BNC "T" connector. Requires 82300A or 82302A Language Processor in Vectra. Requires coax interface in server and RG58 C/U coax cables with BNC connectors. | |
| 50961U Opt. 200 | SRM Coax Adapter Upgrade Upgrades 98629A SRM interface card installed in a Series 200/300 computer or SRM server. Includes SRM coax adapter and BNC T-connectors. | |
| 92227A 92227B 92227C 92227D 92227E 92227F 92227G 92227H | Coax Cables (PVC insulation, with BNC connector installed): 1-m coax cable 2-m coax cable 4-m coax cable 8-m coax cable 16-m coax cable 32-m coax cable 64-m coax cable 128-m coax cable | |
| 92227J 92227K 92227L 92227M 92227N 45695A | Coax Cable (without connector): Cut-to-length, PVC insulation (300 to 3000 meters; cost per meter) Cut-to-length, FEP insulation (300 to 3000 meters; cost per meter) BNC connector pair for 92227J/K cables BNC connector tool kit BNC T-connector BNC 50 Ohm termination pair | |

SRM Workstation Software

| Product/Opt. Number | Description | Price |
|--------------------------------|--|-------|
| | <i>Software required in the workstations to connect to the SRM servers:</i> To connect BASIC/Pascal systems in Series 300 and Vectra with Language Processor: The access software is included in BASIC and Pascal language systems revision 2.1 or later. | |
| 98693A Opt. 022 Opt. 045 | To connect Series 300 HP-UX systems: SRM Access Utilities for HP-UX Software on 1/4-inch tape cartridge Software on 3 1/2-inch microfloppy disc | |

Series 300 Peripherals, Media and Accessories

For detailed information on model numbers and operating system revisions that support these peripherals, please refer to the *Series 300 Configuration Reference Manual*, Part Number 98561-90020.

Microfloppy and Hard Disc Storage (270 Kbytes - 40Mbytes)

| Product/Opt. Number | Description | Price |
|---------------------|--|-------|
| 9127A | HP 360 Kbyte, single 5¼-inch floppy disc drive (also supports HP format 270 Kbyte). For use with the HP Series 300 DOS Coprocessor System. | |
| 9122D | 2 x 630 Kbyte, 3½-inch dual double-sided microfloppy drive | |
| 9122S | 630 Kbyte, 3½-inch single double-sided microfloppy drive | |
| 9153A | 10 Mbyte Winchester Hard Disc with 3½-inch 630 Kbyte double-sided microfloppy drive | |
| 9153C | 10/20/40 Mbyte Hard Disc with 2 Mbyte Microfloppy drive. Must order one option below. | |
| Opt. 010 | 10 Mbyte hard disc with 2 Mbyte 3½-inch microfloppy disc drive | |
| Opt. 011 | 10 Mbyte 3½-inch hard disc drive | |
| Opt. 020 | 20 Mbyte hard disc with 2 Mbyte 3½-inch microfloppy disc drive | |
| Opt. 021 | 20 Mbyte 3½-inch hard disc drive | |
| Opt. 040 | 40 Mbyte hard disc with 2 Mbyte 3½-inch microfloppy disc drive | |
| Opt. 041 | 40 Mbyte 3½-inch hard disc drive | |
| 9154A | 10 Mbyte Winchester Hard Disc only | |
| 9153B | 20 Mbyte Winchester Hard Disc with 3½-inch 630 Kbyte double-sided microfloppy drive | |
| 9154B | 20 Mbyte Winchester Hard Disc with 3½-inch hard disc only | |
| 9133L | 40 Mbyte Winchester Hard Disc with 3½-inch 630 Kbyte double-sided microfloppy drive | |
| Opt. 001 | 1 Kbyte sectors for UNIX® Operating System | |
| 9134L | 40 Mbyte Winchester Hard Disc only | |
| Opt. 001 | 1 Kbyte sectors for UNIX | |

UNIX is a registered trademark of AT&T in the U.S. and other countries.

CS/80 Hard Disc Storage (41 Mbytes to 571 Mbytes)

| Product/Opt. Number | Description | Price |
|---------------------|--|-------|
| 7907A | 41 Mbyte Fixed/Removable Drive, 20 ½ removable, 20 ½ fixed, CS/80, HP-IB | |
| 7935H | 404 Mbyte Removable Media Device | |
| 7936H | 307 Mbyte Fixed Disc Drive | |
| 7937H | 571 Mbyte Fixed Disc Drive | |
| 7957A | 81 Mbyte Fixed Disc Drive | |
| 7958A | 130 Mbyte Fixed Disc Drive | |
| 7959B | 304 Mbyte Fixed Disc | |
| 7963B | 304 Mbyte Fixed Disc | |
| 97963B | 304 Mbyte Upgrade Kit | |

Back-up Tape Drives

| Product/Opt. Number | Description | Price |
|---------------------|---|-------|
| 7978B | ½-inch 6250 cpi and 1600 cpi Streaming Tape Drive, 75 ips streaming | |
| 7974A | 1600 cpi ½-inch Tape Drive | |
| Opt. 800 | Adds 800 cpi capability | |
| 35401A | ¼-inch Cartridge Autochanger | |
| 92192C | Cartridge Magazine (Unloaded. One included with 35401A.) | |
| 9144A | ¼-inch Cartridge Tape Drive | |

Series 300 Printers

Character Printers

| Product/Opt. Number | Description | Price |
|---|--|-------|
| 2603A | 48 cps (peak) Daisy-wheel Printer | |
| 2225A | 150 cps <i>Thinkjet</i> Printer | |
| 2227A | 160 cps <i>QuietJet Plus</i> Printer; RS-232 interface | |
| 2227B | 160 cps <i>QuietJet Plus</i> Printer; HP-IB interface | |
| 2228A | 160 cps <i>QuietJet</i> Printer; RS-232 interface | |
| 2235A | <i>RuggedWriter 480</i> printer; RS-232/Centronics interface | |
| 2235B | <i>RuggedWriter 480</i> printer, RS-232/HP-IB interface | |
| 2932A Opt. 046 | 200 cps Dot Matrix Impact Printer Replace RS-232 interface with HP-IB | |
| 2934A Opt. 046 | 200 cps Dot Matrix Impact Printer Replace RS-232 interface with HP-IB | |
| 3630A Opt. 001 Opt. 002 Opt. 004 | <i>HP PaintJet Color Graphics</i> Printer RS-232 Interface HP-IB Interface Centronics Interface | |

Key: cps = characters per second

Line Printers

| Product/Opt. Number | Description | Price |
|---|---|-------|
| 2563B Opt. 114 Opt. 290 Opt. 510 Opt. 850 | 300 lpm Impact Line Printer Deletes quietized cabinet, passive stacker, and sound enclosure. HP 9000 HP-IB interface and 4-m cable for Series 300/500/800 Bundled option package. Includes Opt. 004, 005, 008, 068. Configures the printer for use with SRM | |
| 2564B Opt. 114 Opt. 290 Opt. 510 Opt. 850 | 600 lpm Impact Line Printer Deletes quietized cabinet, passive stacker, and sound enclosure, and adds non-quietized cabinet. HP-IB CIPER interface for use with Series 300/500/800 Bundled option package. Includes Opt. 004, 005, 008, 068. Configures the printer for use with SRM | |
| 2566B Opt. 115 Opt. 290 Opt. 500 Opt. 850 | 900 lpm Impact Line Printer Passive paper stacker HP-IB CIPER interface for use with Series 300/500/800 Printer package, includes Options 004, 005, and 115 Configures the printer for use with SRM | |
| 2567B Opt. 115 Opt. 500 | 1200 lpm Impact Line Printer Passive paper stacker Printer package, includes Options 004, 005, and 115. | |

Key: lpm = lines per minute

Page Printers

| Product/Opt. Number | Description | Price |
|---------------------|---|-------|
| 2686D | <i>LaserJet 500 Plus</i> 8 ppm dual bin page printer | |
| 33440A | <i>LaserJet Series II</i> 8 ppm page printer | |
| 2684A | <i>LaserJet 2000</i> 20 ppm page printer* | |
| 2684P | <i>LaserJet 2000</i> printer with 2000-sheet paper deck* | |
| 2684D | <i>LaserJet 2000</i> printer with 2000-sheet input paper deck and duplexer* | |

Key: ppm = pages per minute

* Interface not included.



Series 300 Graphics Devices

| Product/Opt. Number | Description | Price |
|---|--|-------|
| 3630A Opt. 001 Opt. 002 Opt. 004 | HP PaintJet Color Graphics Printer , 8½ x 11-inch size RS-232 Interface HP-IB Interface Centronics Interface | |
| 7440A Opt. 001 Opt. 002 | ColorPro Graphics Plotter , 8-Pen, for A4/A-size media RS-232 interface HP-IB interface | |
| 7475A Opt. 001 Opt. 002 | A...B-size, 6-Pen Plotter RS-232 interface HP-IB interface | |
| 7550A | A...B-size, 8-Pen Plotter, sheet-feed (comes with RS-232 and HP-IB interfaces standard) | |
| 7570A 17570A | DraftPro C/D-size, 8-pen Plotter (comes with RS-232 interface standard) Optional HP-IB cartridge | |
| 7595A | DraftMaster I A...E size, 8-pen Plotter (comes with RS-232 and HP-IB interfaces standard) | |
| 7596A | DraftMaster II A...E size, 8-pen Roll-feed Plotter (comes with RS-232 and HP-IB interfaces standard) | |
| 17520A | DraftMaster Upgrade Kit (for upgrading <i>DraftMaster I</i> to <i>DraftMaster II</i>) | |

Series 300 Terminals

| Product/Opt. Number | Description | Price |
|---|---|-------|
| C1001A C1001G C1001W | HP 700/92 Block-Mode Display Terminal , 14-inch screen, 8 pages memory, printer port, 80- and 132-column. HP 700/92 with amber screen HP 700/92 with green screen HP 700/92 with soft white screen | |
| C1004A C1004G C1004W | HP 700/22 ANSI DEC VT220 Compatible Terminal , 14-inch screen, 4 pages memory, 80- and 132-column. HP 700/22 with amber screen HP 700/22 with green screen HP 700/22 with soft white screen | |
| C1003A C1003G | HP 700/41 Entry Level ASCII Terminal , 14-inch screen, 1 page memory, printer port, 80-column, 9 ASCII Terminal Compatibility Modes. HP 700/41 with amber screen HP 700/41 with green screen | |
| 2393A Opt. 046 Opt. 092 Opt. 093 | 12-inch Graphics Display Terminal , 47-66 Hz, 115 Vac Port 2: HP-IB interface Port 2: 25-pin RS-232 interface, same as accessory 40210R Port 2: 8-bit parallel Centronics-type interface, same as accessory 40201P | |
| 2397A Opt. 046 Opt. 092 Opt. 093 | Color Graphics Terminal with selectable 512 x 390 or 640 x 400 resolution. Eight colors from 64-color palette. Port 2: HP-IB interface Port 2: 25-pin RS-232 interface, same as accessory 40210R Port 2: 8-bit parallel Centronics-type interface, same as accessory 40201P | |
| 45851A | HP 150 II Touchscreen Computer | |
| 45711A | Portable Plus Computer | |
| 45850A | HP 150 II Personal Computer Terminal | |
| 9807A | Integral Personal Computer | |
| 98791B | HP 2392A and VT100 Terminal Emulator (requires 46084A HP-HIL ID Module) | |

Series 300 Miscellaneous Peripherals

| Product/Opt. Number | Description | Price |
|---------------------|--|-------|
| 2334A | x.25 Multiplexer | |
| 26075A | HP-IB Switch | |
| 92205A | Hayes Smartmodem 1200™ (U.S.), 60 Hz, 120 Vac | |
| 92205C | Hayes Smartmodem 1200™ (Canada), 60 Hz, 120 Vac | |

Smartmodem 1200™ is a trademark of Hayes Microcomputer Products, Inc.

Series 300 Accessories

| Product/Opt. Number | Description | Price |
|---------------------|---|-------|
| 10833A | 1 meter HP-IB Cable | |
| 10833B | 2 meter HP-IB Cable | |
| 10833C | 4 meter HP-IB Cable | |
| 10833D | 0.5 meter HP-IB Cable | |
| 10834A | Adapter, extends HP-IB connector 2.3 cm | |
| 92240B | Swivel Base Unit for desktop disc drives | |
| 92211L | Taboret Cabinet Rack for Series 300 and 325 mm-wide peripherals | |
| 92211M | Small Taboret Cabinet Rack for 9888A and 325 mm-wide peripherals | |
| 92211R | HP Design Plus Mobile Mini-rack for 325 mm-wide peripherals | |
| 97064A | CAD Table, 68-66 Hz, 120 Vac | |
| 98290A | 3 meter RGB Cable | |
| 98561-90020 | Series 300 Configuration Reference Manual | |
| 98787B | Tilt and Swivel Base for the 98751A, 98752A, 98785A or 98789A monitor | |
| 19511A | Stack Cabinets for 307/571 Mbyte disc drives | |
| 92213B | CAD Table with pull-out work surface and keyboard tray | |
| 19500A | EIA 19-inch Rack Mounting Kit for 91XX, 7945 and 7957/58A disc drives | |
| 98567A | EIA 19-inch Rack Mounting Kit for the 35731A 12-inch monitor | |
| 98567B | EIA 19-inch Rack Mounting Kit for the 35741A 12-inch monitor | |
| 98569A | EIA 19-inch Rack Mounting Kit for Series 300 SPU or SPU and expander | |

Series 300 Media

| Product/Opt. Number | Description | Price |
|---------------------|--|-------|
| 92192A | Blank 3½-inch, Double-sided Microfloppy Discs (box of 10) | |
| 92192N | Blank 3½-inch, Double-sided Microfloppy Discs (box of 100) | |
| 92192R | Package of 250 Multi-colored Disc Labels for 92192N | |
| 92191A | Blank 3½-inch, Single-sided Microfloppy Discs (box of 10) | |
| 92190A | Blank 5¼-inch Floppy Discs (box of 10) | |
| 92195A | Blank 8-inch Floppy Discs (box of 10) | |
| 97907A | 20.5 Mbyte Cartridge Tape for 7907A | |
| 88140LC | Certified, ¼-inch Tape Cartridges, 600-foot (box of 5) | |
| 88140SC | Certified ¼-inch Tape Cartridges, 150-foot (box of 5) | |

HP 9000 Hardware Support Services

Overview

At Hewlett-Packard we want you to get the most out of your workstation products. To meet the goals of maximum uptime and productivity at minimum cost, our products are backed by a range of hardware services that are designed to meet your price/performance needs and help you get the most out of your HP solution.

In the following section, you will find these services listed alongside Series 300 products, *in the same order and categories* you found them in the hardware section (minus descriptions). This will allow you to easily look up support services for products in which you are interested.

Summary of Hardware Support Services

| Service | Place of Service | Response Time |
|-------------------------------|---|---------------------|
| Standard (SMMC) | Customer Site (0-100 miles radius from HP Primary Service Responsible Office (SRO)) | Four Hours |
| BASIC (BMMC) | Customer Site (0-100 miles radius from HP Primary Service Responsible Office (SRO)) | Next Day |
| Priority (WMMC) | Customer Site (0-100 miles radius from HP Primary Service Responsible Office (SRO)) | Four Hours |
| Next Day (PMMC) | Customer Site (0-100 miles radius from HP Primary Service Responsible Office (SRO)) | Next Day |
| Scheduled (Sched.) | Customer Site (0-100 miles radius from HP Primary Service Responsible Office (SRO)) | Scheduled Weekly |
| Customer Return (FMMC) | Nearest HP Customer Service Center | Three Working Days* |

* Intermittent failures may require more time.

You can choose your hardware maintenance program, depending upon whether your highest priority is a quick response or a low cost for your workstation products. These services are available for most HP personal and technical computers, plotters, desktop printers, terminals and associated peripherals. You receive the services of an HP Customer Engineer specially trained in the type of equipment you have. And you get the support level that is right for you, for a known cost.

HP maintains a staff of trained Customer Engineers and stocking each Service Responsible Office and Customer Service Center with its own service inventory and tools, assuring you that quality maintenance service will be available when you need it.

If your HP 9000 Series 300 is used in a system environment, HP can provide the following services:

Standard System Maintenance Service (SMMC)

Standard System Maintenance Service provides four-hour response from 8:00 a.m. to 9:00 p.m. every business day, excluding HP holidays. Extended coverage options are available to provide service up to 7 days per week, 24 hours per day.

Basic System Maintenance Service (BMMC)

Basic System Maintenance Service provides you with next-business-day response from 8:00 a.m. to 5:00 p.m. during the standard work week.

These services include an account-assigned CE and work-to-completion features.

If your HP 9000 Series 300 is used as a stand-alone workstation, the following services may be appropriate:

Priority On-site Service (WMMC)

Priority On-site Service offers a four-hour response time for on-site service. Support coverage is from 8:00 a.m. to 5:00 p.m. every business day, excluding HP holidays.

Next Day On-site Service (PMMC)

Next Day On-site Service gives you next-business-day response between the hours of 8:00 a.m. to 5:00 p.m., Monday through Friday, excluding HP holidays.

Scheduled On-site Service (Sched.)

When backup equipment is available, you can meet your up-time requirements and receive economical on-site support with Scheduled On-site Service. With 25 units or more under contract, HP will perform repairs at a designated location on a scheduled weekly basis during normal business hours, excluding HP holidays.

Customer Return Service (FMMC)

This service provides the lowest cost maintenance for your workstation products. You ship your equipment to an HP Customer Service Center where it will be repaired, tested, and sent back to you within three working days after it is received. If you can afford to be without your equipment or if you have spares at your site, Customer Return Service offers our most economical service.

Note: All prices are quoted in monthly amounts. N/C stands for No Charge, N/A stands for Not Available.

| System Processor Unit (SPU) | | Return to HP | On-Site Service | | | | |
|--|----------------|--------------|-----------------|--------|------|------|------|
| Product No. | Description | FMMC | PMMC | Sched. | WMMC | BMMC | SMMC |
| 98561A Opt. 002 Opt. 003 Opt. 004 Opt. W03 | Model 310 SPU | | | | | | |
| 98561B Opt. W03 | Model 320 SPU | | | | | | |
| 98561C Opt. 022 Opt. W03 | Model 320U SPU | | | | | | |
| 98562A Opt. 006 Opt. 010 Opt. W03 | Model 330 SPU | | | | | | |
| 98562B Opt. 116 Opt. 208 Opt. 216 | Model 350 SPU | | | | | | |

| Entry Level Workstations | | Return to HP | On-Site Service | | | | |
|--|-------------------------|--------------|-----------------|--------|------|------|------|
| Product No. | Description | FMMC | PMMC | Sched. | WMMC | BMMC | SMMC |
| 98563B Opt. 060 Opt. 084 | Model 318M Workstation | | | | | | |
| 98564A Opt. 010 Opt. 060 Opt. 084 Opt. 108 Opt. 112 Opt. 116 Opt. 719 | Model 319C+ Workstation | | | | | | |
| 98266A | | | | | | | |
| 98266B | | | | | | | |

| Model 330 Workstations | | Return to HP | On-Site Service | | | | |
|--|---------------------------------------|--------------|-----------------|--------|------|------|------|
| Product No. | Description | FMMC | PMMC | Sched. | WMMC | BMMC | SMMC |
| 98588S Opt. 006 Opt. 010 Opt. 719 | Model 330CH 2D Color Workstation | | | | | | |
| 98583S Opt. 006 Opt. 010 Opt. 719 | Model 330C Color Workstation | | | | | | |
| 98589S Opt. 006 Opt. 010 | Model 330MH 2D Monochrome Workstation | | | | | | |
| 98582S Opt. 006 Opt. 010 | Model 330M Monochrome Workstation | | | | | | |



| Model 350 Workstations | | Return to HP | On-Site Service | | | | |
|--|---|--------------|-----------------|--------|------|------|------|
| Product No. | Description | FMMC | PMMC | Sched. | WMMC | BMMC | SMMC |
| 98587E Opt. 016 Opt. 024 Opt. 032 Opt. 116 Opt. 208 Opt. 216 | Model 350SRX Solid Rendering Workstation | | | | | | |
| 98588E Opt. 116 Opt. 208 Opt. 216 Opt. 556 Opt. 716 | Model 350CH 2D Color Workstation | | | | | | |
| 98586E Opt. 116 Opt. 208 Opt. 216 | Model 350CX Color Workstation with Graphics Accelerator | | | | | | |
| 98583E Opt. 116 Opt. 208 Opt. 216 Opt. 716 | Model 350C Color Workstation | | | | | | |
| 98585E Opt. 116 Opt. 208 Opt. 216 Opt. 232 | Model 350AIC Color AI Development System | | | | | | |
| 98589E Opt. 116 Opt. 208 Opt. 216 | Model 350MH Monochrome Workstation | | | | | | |
| 98582E Opt. 116 Opt. 208 Opt. 216 | Model 350M Monochrome Workstation | | | | | | |
| 98584E Opt. 116 Opt. 208 Opt. 216 Opt. 232 | Model 350AIM Monochrome AI Development System | | | | | | |

| Model PC-305 and PC-308 Instrument Controllers | | Return to HP | On-Site Service | | | | |
|--|------------------------------|--------------|-----------------|--------|------|------|------|
| Product No. | Description | FMMC | PMMC | Sched. | WMMC | BMMC | SMMC |
| 82316A | PC-305M HP BASIC Controller | | | | | | |
| 82317A | PC-305ML HP BASIC Controller | | | | | | |
| 82318A | PC-305CL HP BASIC Controller | | | | | | |
| 82315B | PC-308CL BASIC Controller | | | | | | |
| 82314B | PC-308ML BASIC Controller | | | | | | |

Series 300 Instrument Controllers

| Model 310 Instrument Controllers | | Return to HP | On-Site Service | | | | |
|--|--|--------------|-----------------|--------|------|------|------|
| Product No. | Description | FMMC | PMMC | Sched. | WMMC | BMMC | SMMC |
| 98581B Opt. 042 Opt. 613 Opt. 008 Opt. W03 | Model 310C Low-cost Color Instrument Controller | | | | | | |
| 98580B Opt. 042 Opt. 002 Opt. 008 Opt. 613 Opt. W03 | Model 310M Monochrome Instrument Controller System | | | | | | |

| Model 330 Instrument Controllers | | Return to HP | On-Site Service | | | | |
|--|---|--------------|-----------------|--------|------|------|------|
| Product No. | Description | FMMC | PMMC | Sched. | WMMC | BMMC | SMMC |
| 98581S Opt. 042 Opt. 613 Opt. W03 | Model 330CMA Color Instrument Controller | | | | | | |
| 98580S Opt. 042 Opt. 613 Opt. W03 | Model 330MMA Monochrome Instrument Controller | | | | | | |

| SPU Accessories | | Return to HP | On-Site Service | | | | |
|--------------------------------|--|--------------|-----------------|--------|------|------|------|
| Product No. | Description | FMMC | PMMC | Sched. | WMMC | BMMC | SMMC |
| 98242A | 4-slot DIO Backplane | | | | | | |
| 98242B | 2-slot DIO Backplane | | | | | | |
| 98568A Opt. 132 | Direct Connect 8-slot I/O Expander | | | | | | |
| 98570A Opt. 004 | Direct Connect DIO II Expander | | | | | | |
| 9888A | 16-slot DIO Expander | | | | | | |
| 98258A Opt. 004 Opt. 005 | 4 Mbyte Parity-Checking RAM Controller | | | | | | |
| 98258B | 4 Mbyte Parity-Checking RAM Add-on | | | | | | |
| 98258C | 12 Mbyte Parity-Checking RAM Add-on | | | | | | |
| 98257A | 1 Mbyte RAM Card (DIO) | | | | | | |
| 98264A Opt. 004 Opt. 005 | 8 Mbyte Error-Checking and Correcting RAM | | | | | | |
| 98264A Opt. 004 Opt. 005 | 8 Mbyte Error-Checking and Correcting RAM | | | | | | |
| 98264B Opt. 004 Opt. 005 | 16 Mbyte Error-Checking and Correcting RAM | | | | | | |
| 98248A | Floating Point Accelerator | | | | | | |
| 98262A | High-speed HP-IB Disc Interface | | | | | | |

DOS Coprocessor System

| Product No. | Description | Return to HP | | | On-Site Service | | |
|--|---------------------------------------|--------------|------|--------|-----------------|------|------|
| | | FMMC | PMMC | Sched. | WMMC | BMMC | SMMC |
| 98286S Opt. 022 Opt. 045 Opt. W03 | Series 300 DOS Coprocessor System | | | | | | |
| 98286T | Series 300 DOS Memory Enhancement Kit | | | | | | |
| 9127A | 360 Kbyte Disc Drive | | | | | | |
| D1387A | 80287 Numeric Coprocessor | | | | | | |

HP BASIC Language Processor System

| Product No. | Description | Return to HP | | | On-Site Service | | |
|-------------|---------------------------------------|--------------|------|--------|-----------------|------|------|
| | | FMMC | PMMC | Sched. | WMMC | BMMC | SMMC |
| 82300B | HP BASIC Language Processor | | | | | | |
| 82301B | HP BASIC Language Processor Software | | | | | | |
| 82302A | 512 Kbytes RAM for Language Processor | | | | | | |
| 82303A | RAM Expansion Kit | | | | | | |
| 82304B | HP BASIC ROM for Language Processor | | | | | | |
| 82305A | RAM Expansion Board | | | | | | |
| 82306A | GPIO Interface for Language Processor | | | | | | |

VMEbus Connection

| Product No. | Description | Return to HP | | | On-Site Service | | |
|-------------|-----------------|--------------|------|--------|-----------------|------|------|
| | | FMMC | PMMC | Sched. | WMMC | BMMC | SMMC |
| 98577A | VMEbus Expander | | | | | | |
| 98646A | VMEbus Adapter | | | | | | |

Graphics Boards

| Product No. | Description | Return to HP | | | On-Site Service | | |
|-------------|---|--------------|------|--------|-----------------|------|------|
| | | FMMC | PMMC | Sched. | WMMC | BMMC | SMMC |
| 98542A | Medium-resolution Monochrome Graphics Board | | | | | | |
| 98543A | Medium-resolution Color Graphics Board | | | | | | |
| 98544B | High-resolution Monochrome Graphics Board | | | | | | |
| 98546A | Display Compatibility Interface | | | | | | |
| 98547A | High-resolution Color Graphics Board | | | | | | |
| 98548A | High-resolution Monochrome Graphics Board | | | | | | |
| 98550A | High-resolution Color Graphics Board | | | | | | |

Monitors

| Product No. | Description | Return to HP | | | On-Site Service | | |
|-------------|--|--------------|------|--------|-----------------|------|------|
| | | FMMC | PMMC | Sched. | WMMC | BMMC | SMMC |
| 35731A/B | 12-inch Medium-resolution Monochrome Monitor | | | | | | |
| 35741A/B | 12-inch Medium-resolution Color Monitor | | | | | | |
| 98751A | 19-inch High-resolution Color Monitor | | | | | | |
| 98752A | 19-inch High-resolution Color Monitor | | | | | | |
| 98785A | 16-inch High-resolution Color Monitor | | | | | | |
| 98786A | 17-inch High-resolution Monochrome Monitor | | | | | | |
| 98788A | 19-inch High-resolution Monochrome Monitor | | | | | | |
| 98789A | 16-inch High-resolution Color Monitor | | | | | | |

Graphics Accessories and Upgrades

| Product No. | Description | Return to HP | | On-Site Service | | | |
|-------------|--|--------------|------|-----------------|------|------|------|
| | | FMMC | PMMC | Sched. | WMMC | BMMC | SMMC |
| 98556A | 2D Integer-based Graphics Accelerator | | | | | | |
| 98287A | Series 300 Interface Card for the 98700A | | | | | | |
| 98700A | High-resolution Display Controller | | | | | | |
| 98701A | Additional four planes of graphics memory for the 98700A | | | | | | |
| 98710A | Graphics Accelerator for the 98700A | | | | | | |
| 98720A | 3D Display Controller | | | | | | |
| 98721A | 3D Solid Rendering Graphics Accelerator | | | | | | |
| 98722A | Frame Buffer Board | | | | | | |
| 98723A | Additional Power Supply | | | | | | |
| 98724A | 16-bit Display Controller Interface | | | | | | |
| 98725A | 16-bit Display Controller Interface | | | | | | |

HP-HIL Input Devices

| Product No. | Description | Return to HP | | On-Site Service | | | |
|----------------------|--|--------------|------|-----------------|------|------|------|
| | | FMMC | PMMC | Sched. | WMMC | BMMC | SMMC |
| 45911A | HP-HIL Digitizer | | | | | | |
| 46021A | HP-HIL Keyboard | | | | | | |
| 98203C Opt. 001 | HP-HIL Keyboard with Rotary Knob | | | | | | |
| 46060A | HP-HIL 2-button Mouse | | | | | | |
| 46060B | HP-HIL 3-button Mouse | | | | | | |
| 46080A | 2.4m HP-HIL Extension | | | | | | |
| 46081A | 2.4m HP-HIL Extension with audio | | | | | | |
| 46082A | 15m HP-HIL Remote Extension with audio and RGB video | | | | | | |
| 46082B | 30m Remote Extension with audio and RGB video | | | | | | |
| 46083A | HP-HIL Knob | | | | | | |
| 46084A | HP-HIL ID Module | | | | | | |
| 46085A | HP-HIL Control Dial Module | | | | | | |
| 46086A | HP-HIL 32-button Box | | | | | | |
| 46087A/B Opt. 001 | HP-HIL Digitizer, ANSI A/ISO A4-size | | | | | | |
| 46088A/B Opt. 001 | HP-HIL Digitizer, ANSI B/ISO A3-size | | | | | | |
| 46089A/B | 4-button Cursor | | | | | | |
| 46094A | Quadrature Port | | | | | | |
| 46095A | 3-button Mouse | | | | | | |
| 35723A | HP-HIL Touchscreen Bezel | | | | | | |
| 92916A | Bar Code Reader | | | | | | |



Interface Products for Series 300

| Product No. | Description | Return to HP | | On-Site Service | | | |
|--|--|--------------|------|-----------------|------|------|------|
| | | FMMC | PMMC | Sched. | WMMC | BMMC | SMMC |
| 36593A | HP-UX Gateway/SNA Link | | | | | | |
| 50955A | 3278 Display Station Emulator | | | | | | |
| 50962A | SRM Coax Interface | | | | | | |
| 98253A | EPROM Programmer Interface | | | | | | |
| 98255A | EPROM Card | | | | | | |
| 98256A | 256 Kbyte RAM Card | | | | | | |
| 98257A | 1 Mbyte RAM Card | | | | | | |
| 98259A | 128 Kbyte Magnetic Bubble Memory Card | | | | | | |
| 98546A | Display Compatibility Interface | | | | | | |
| 98620B | Two-channel DMA Controller Card | | | | | | |
| 98622A Opt. 001 Opt. 002 Opt. 003 Opt. 004 | 16-bit GPIO Interface Card | | | | | | |
| 98623A Opt. 001 | 43-line BCD Interface Card | | | | | | |
| 98624A | HP-IB Interface, standard speed | | | | | | |
| 98625B | HP-IB Disc Interface, high speed (for Model 310 and 320 only) | | | | | | |
| 98626A | HP-IB Disc Interface, high speed (for Models 330 and 350 only) | | | | | | |
| 98626A Opt. 001 Opt. 002 | RS-232C (Serial) Interface | | | | | | |
| 98627A | RGB Color Video Output Interface | | | | | | |
| 98628A Opt. 001 Opt. 002 Opt. 003 | Datacomm Interface, RS-423 and RS-232 | | | | | | |
| 98630A Opt. 001 | Breadboard Interface | | | | | | |
| 98633A | 6944A Multiprogrammer Interface | | | | | | |
| 98635A | Floating Point Math Card | | | | | | |
| 98640A Opt. 001 Opt. 630 Opt. 655 | 7-channel Analog-to-Digital Interface | | | | | | |
| 98641A | RJE 2780/3780 Interface | | | | | | |
| 98642A Opt. 001 | 4-port RS-232C Multiplexer | | | | | | |
| 98643A | LAN/300 Link with ThinMAU | | | | | | |
| 98644A | RS-232C Serial Interface | | | | | | |
| 98646A | VMEbus Adapter | | | | | | |
| 98691A Opt. 001 Opt. 002 Opt. 003 | Programmable Datacomm Interface | | | | | | |

Local Area Network (LAN)

| LAN Hardware | | Return to HP | On-Site Service | | | | |
|-----------------------------|--------------------------------|--------------|-----------------|--------|------|------|------|
| Product No. | Description | FMMC | PMMC | Sched. | WMMC | BMMC | SMMC |
| 98643A Opt. 241 | LAN/300 Link | | | | | | |
| 92227A through 92227K | LAN Cables and Accessories | | | | | | |
| 92227L | BNC Connector Pair | | | | | | |
| 92227M | BNC Connector Tool Kit | | | | | | |
| 92227N | BNC "T" Connector | | | | | | |
| 92227P | ThinLAN Terminator Pair | | | | | | |
| 28641A | Thin MAU | | | | | | |
| 30241A | Backbone LAN MAU | | | | | | |
| 92256C | LAN MAU and Kit | | | | | | |
| 92254A through 92254H | Backbone LAN AUI Cables | | | | | | |
| 92255A through 92255B | Backbone LAN AUI Cables | | | | | | |
| 92255C | LAN AUI Connector Kit | | | | | | |
| 92253A through 92253H | Backbone LAN Coax Cables | | | | | | |
| 92256A | LAN Coax Installation Tool Kit | | | | | | |
| 92229B | LAN Coax Crimp Tool | | | | | | |
| 92223A | Repeater Kit | | | | | | |
| 92223C | 20m Repeater FEP AUI | | | | | | |
| 28645A Opt. 241 | ThinLAN Hub | | | | | | |

Shared Resource Management (SRM)

| SRM Servers | | Return to HP | On-Site Service | | | | |
|-------------|-------------|--------------|-----------------|--------|------|------|------|
| Product No. | Description | FMMC | PMMC | Sched. | WMMC | BMMC | SMMC |
| 50960A | SRM Server | | | | | | |

| SRM Workstation Hardware | | Return to HP | On-Site Service | | | | |
|-----------------------------|--------------------------|--------------|-----------------|--------|------|------|------|
| Product No. | Description | FMMC | PMMC | Sched. | WMMC | BMMC | SMMC |
| 50962A | SRM Coax Interface | | | | | | |
| 50963A | SRM Interface for Vectra | | | | | | |
| 50961U Opt. 200 | SRM Coax Adapter Upgrade | | | | | | |
| 92227A through 92227K | Coax Cables | | | | | | |
| 92227L | BNC Connector Pair | | | | | | |
| 92227M | BNC Connector Took Kit | | | | | | |
| 92227N | BNC Connector | | | | | | |
| 45695A | 50-ohm Termination Pair | | | | | | |

Series 300 Peripherals, Media and Accessories

Microfloppy and Hard Disc Storage (270 Kbytes - 40 Mbytes)

| Product No. | Description | Return to HP | | On-Site Service | | | |
|---|---|--------------|------|-----------------|------|------|------|
| | | FMMC | PMMC | Sched. | WMMC | BMMC | SMMC |
| 9127A | 360 Kbyte, 5¼-inch Flexible Single Master Disc | | | | | | |
| 9122D | 2 x 630 Kbyte, 3½-inch Dual Double-sided Microfloppy | | | | | | |
| 9122S | 630 Kbyte, 3½-inch Single Double-sided Microfloppy | | | | | | |
| 9153A | 10 Mbyte Winchester with 3½-inch, 630 Kbyte Microfloppy | | | | | | |
| 9153B | 20 Mbyte Winchester Hard Disc | | | | | | |
| 9153C Opt. 010 Opt. 011 Opt. 020 Opt. 021 Opt. 040 Opt. 041 | 10/20/40 Mbyte Hard Disc | | | | | | |
| 9154A | 10 Mbyte Winchester Hard Disc only | | | | | | |
| 9154B | 20 Mbyte Winchester Hard Disc | | | | | | |
| 9133L Opt. 001 | 40 Mbyte Winchester Hard Disc with 3½-inch Microfloppy | | | | | | |
| 9134L Opt. 001 | 40 Mbyte Winchester Hard Disc only | | | | | | |

CS/80 Hard Disc Storage (41 Mbytes to 571 Mbytes)

| Product No. | Description | Return to HP | | On-Site Service | | | |
|-------------|--------------------------------|--------------|------|-----------------|------|------|------|
| | | FMMC | PMMC | Sched. | WMMC | BMMC | SMMC |
| 7907A | 41 Mbyte Fixed/Removable Drive | | | | | | |
| 7935H | 404 Mbyte | | | | | | |
| 7936H | 307 Mbyte Fixed Disc Drive | | | | | | |
| 7937H | 571 Mbyte Fixed Disc Drive | | | | | | |
| 7957A | 81 Mbyte Fixed Disc Drive | | | | | | |
| 7958A | 130 Mbyte Fixed Disc Drive | | | | | | |
| 7959B | 304 Mbyte Fixed Disc Drive | | | | | | |
| 7963B | 304 Mbyte Fixed Disc Drive | | | | | | |

Back-up Tape Drives

| Product No. | Description | Return to HP | | On-Site Service | | | |
|-------------------|------------------------------|--------------|------|-----------------|------|------|------|
| | | FMMC | PMMC | Sched. | WMMC | BMMC | SMMC |
| 7978B | ½-inch Streaming Tape Drive | | | | | | |
| 7974A Opt. 800 | 1600 cpi ½-inch Tape Drive | | | | | | |
| 35401A | ¼-inch Cartridge Autochanger | | | | | | |
| 92192C | Cartridge Magazine | | | | | | |
| 9144A | ¼-inch Cartridge Tape Drive | | | | | | |

Series 300 Printers

Character Printers

| Product No. | Description | Return to HP | | On-Site Service | | | |
|---|------------------------------------|--------------|------|-----------------|------|------|------|
| | | FMMC | PMMC | Sched. | WMMC | BMMC | SMMC |
| 2603A | 48 cps (peak) Daisy-wheel Printer | | | | | | |
| 2225A | 150 cps Thinkjet Printer | | | | | | |
| 2227A | 160 cps QuietJet Printer | | | | | | |
| 2227B | 160 cps QuietJet Printer | | | | | | |
| 2228A | 160 cps QuietJet PLUS Printer | | | | | | |
| 2235A | RuggedWriter 480 | | | | | | |
| 2235B | RuggedWriter 480 | | | | | | |
| 2932A Opt. 046 | 200 cps Impact Printer | | | | | | |
| 2934A Opt. 046 | 200 cps Office Printer | | | | | | |
| 3630A Opt. 001 Opt. 002 Opt. 004 | HP PaintJet Color Graphics Printer | | | | | | |

Line Printers

| Product No. | Description | Return to HP | | On-Site Service | | | |
|---|------------------------------|--------------|------|-----------------|------|------|------|
| | | FMMC | PMMC | Sched. | WMMC | BMMC | SMMC |
| 2563B Opt. 114 Opt. 290 Opt. 510 Opt. 850 | 300 lpm Impact Line Printer | | | | | | |
| 2564B Opt. 114 Opt. 290 Opt. 510 Opt. 850 | 600 lpm Impact Line Printer | | | | | | |
| 2566B Opt. 115 Opt. 290 Opt. 500 Opt. 850 | 900 lpm Impact Line Printer | | | | | | |
| 2567B Opt. 115 Opt. 500 | 1200 lpm Impact Line Printer | | | | | | |

Page Printers

| Product No. | Description | Return to HP | | On-Site Service | | | |
|-------------|---------------------------------------|--------------|------|-----------------|------|------|------|
| | | FMMC | PMMC | Sched. | WMMC | BMMC | SMMC |
| 2686D | LaserJet 500 Plus Printer | | | | | | |
| 33440A | LaserJet Series II 8 ppm Page Printer | | | | | | |
| 2684A | LaserJet 2000 20 ppm Page Printer | | | | | | |
| 2684P | LaserJet 2000 with paper deck | | | | | | |
| 2684D | LaserJet 2000 with duplexer | | | | | | |



| Series 300 Graphics Devices | | Return to HP | | On-Site Service | | | |
|---|--|--------------|------|-----------------|------|------|------|
| Product No. | Description | FMMC | PMMC | Sched. | WMMC | BMMC | SMMC |
| 3630A Opt. 001 Opt. 002 Opt. 004 | HP PaintJet Color Graphics Printer | | | | | | |
| 7440A Opt. 001 Opt. 002 | Graphics Plotter, 8-pen | | | | | | |
| 7475A Opt. 001 Opt. 002 | A...B-size, 6-Pen Plotter | | | | | | |
| 7550A | A...B-size, 8-Pen Plotter, sheet-feed | | | | | | |
| 7570A 17570A | DraftPro C/D size, 8-pen Plotter Optional HP-IB Cartridge | | | | | | |
| 7595A | DraftMaster I A...E size, 8-pen Plotter | | | | | | |
| 7596A | DraftMaster II A...E size, 8-pen Plotter | | | | | | |
| 17520A | DraftMaster Upgrade Kit | | | | | | |

| Series 300 Terminals | | Return to HP | | On-Site Service | | | |
|---|---|--------------|------|-----------------|------|------|------|
| Product No. | Description | FMMC | PMMC | Sched. | WMMC | BMMC | SMMC |
| C1001A C1001G C1001W | HP 700/92 Block-Mode Display Terminal | | | | | | |
| C1004A C1004G C1004W | HP 700/22 ANSI DEC VT 220 Compatible Terminal | | | | | | |
| C1003A C1003G | HP 700/41 Entry-level ASCII Terminal | | | | | | |
| 2393A Opt. 046 Opt. 092 Opt. 093 | 12-inch Graphics Display Terminal | | | | | | |
| 2397A Opt. 046 Opt. 092 Opt. 093 | Color Graphics Terminal | | | | | | |
| 45851A | HP 150 II Personal Computer | | | | | | |
| 45711A | Portable Plus Computer | | | | | | |
| 45850A | HP 150 II Personal Computer Terminal | | | | | | |
| 9807A | Integral II Personal Computer | | | | | | |
| 98791 | HP 2392A/VT100 Terminal Emulator | | | | | | |

| Series 300 Miscellaneous Peripherals | | Return to HP | | On-Site Service | | | |
|--------------------------------------|---------------------------------|--------------|------|-----------------|------|------|------|
| Product No. | Description | FMMC | PMMC | Sched. | WMMC | BMMC | SMMC |
| 2334A | x.25 Multiplexer | | | | | | |
| 26075A | HP-IB Switch | | | | | | |
| 92205A | Hayes Smartmodem 1200™ (U.S.) | | | | | | |
| 92205C | Hayes Smartmodem 1200™ (Canada) | | | | | | |

| Series 300 Accessories | | Return to HP | On-Site Service | | | | |
|------------------------|---|--------------|-----------------|--------|------|------|------|
| Product No. | Description | FMMC | PMMC | Sched. | WMMC | BMMC | SMMC |
| 10833A through 10833D | Cables | | | | | | |
| 10834A | Adapter | | | | | | |
| 92240B | Swivel Base Unit for Desktop Disc Drives | | | | | | |
| 92211L | Taboret Cabinet Rack | | | | | | |
| 92211M | Small Taboret Cabinet Rack | | | | | | |
| 92211R | HP Design Plus Mobile Mini-rack | | | | | | |
| 97064A | CAD Table | | | | | | |
| 98290A | 3 meter RGB Cable | | | | | | |
| 98561-90020 | Series 300 Configuration Reference Manual | | | | | | |
| 98787B | Tilt and Swivel Base | | | | | | |
| 19511A | Stack Cabinets | | | | | | |
| 92213B | CAD Table with Pull-out | | | | | | |
| 19500A | EIA 19-inch Rack Kit | | | | | | |
| 98567A | EIA 19-inch Rack Kit | | | | | | |
| 98567B | EIA 19-inch Rack Kit | | | | | | |
| 98569A | EIA 19-inch Rack Kit | | | | | | |

HP 9000 Software Support Services

Hewlett-Packard's software services span a broad range – from personal on-site assistance to materials-only services. These levels give flexibility in choosing the level of HP support to meet changing requirements.

Operating Systems Support

The following services are available to support a central system.

Account Management Support (AMS) – Provides local assistance from an account-assigned SE, one Response Center caller (a system manager) and one alternate for telephone assistance, and a Software Materials Subscription.

Response Center Support (RCS) – Provides one Response Center caller and one alternate for telephone assistance and Software Materials Subscription.

Software Materials Subscription (SMS) – Provides software and manual updates, *Software Status Bulletin*, and *HP communicator* magazine. Updates to ROM-based systems are not provided.

The following services are available to support additional systems:

Additional System Coverage (ASC) – Extends AMS or RCS coverage on the operating system to one additional system under the same System Manager. All support is delivered through the central system.

Extended Materials Support (Ext. SMS) – Extends SMS by providing the right to make one copy of all central system materials for use on one additional system.

The following optional services are also available for central or additional systems:

Additional Response Center Caller (ARCC) – Provides one additional caller access to the HP Response Center.

Manual Update Service (MUS) – Provides one copy of updates to software reference manuals.

Software Notification Service (SNS) – Provides issues of the *HP communicator* and *Software Status Bulletin*.

Application Software Support

Software Materials Subscription (SMS) – Provides software and manual updates, *Software Status Bulletin*, and *HP communicator* magazine. SMS must be ordered for each piece of subsystem and application software.

Extended Materials Support (Ext. EMS) – Extends Software Materials Subscription by providing the right to make one copy of all central system materials for use on one additional system.

Manual Update Service (MUS) – Provides one copy of updates to software reference manuals.

In addition, if AMS or RCS levels of support are selected for the operating system, Family Support must be ordered for the application software in the system.

Family Support: Central System – provides local SE assistance and/or access to the Response Center for all software products in the family. Customer can choose AMS or RCS level of support independent of the level of support on the operating system. Family Support entitles customer to an additional Response Center caller and an alternate for each family supported.

Family Support: Additional System Coverage – Extends Family Support on the central system to one additional system. All support is delivered through the central system.

Subsystem Software

Support for subsystem software is determined by the level of support on the operating system. As of August 1, 1987, Category Support on the HP 9000 Series 200, 300 and 500 is no longer required for subsystem software. Customers with AMS support on their operating system will receive AMS support on their subsystem software.

Category MUS has also been obsoleted and MUS should be purchased for each individual subsystem software product.

For support outside the U.S., contact your region or local sales office.

Product Numbering for Support Services

A plus (+) symbol followed by a three-character suffix is attached to each software product. The first letter in the suffix identifies the software support service:

| Letter | Software Support Service |
|--------|---|
| H | Response Center Support (RCS) |
| N | Software Notification Service (SNS) |
| P | Additional Response Center Caller (ARCC) |
| Q | Manual Update Service (MUS) |
| S | Software Materials Subscription (SMS) |
| T | Account Management Support (AMS) |
| V | Additional System Coverage (ASC) |
| W | Extended Software Materials Subscription (Ext. SMS) |

The numbers in the suffix designate the media option, if one is required. A media option must always be specified for the operating system on a central system. If the software configuration on an additional system is not the same as, or a subset of, the central system, then a media option must be specified for the additional system.

HP 9000 Software Support Services

| Software Product No. | AMS | RCS | SMS | ASC | Ext. SMS | MUS | ARCC | SNS* |
|--|-------|-------|-------|-------|----------|-------|-------|-------|
| <u>HP-UX</u> | | | | | | | | |
| 98515L Application Execution Environment, 2-user | | | | + V00 | + W00 | + Q00 | + P00 | + N00 |
| ¼" tape cartridge | + T22 | + H22 | + S22 | + V22 | + W22 | | | |
| 3½" microfloppy, double-sided format | + T45 | + H45 | + S45 | + V45 | + W45 | | | |
| 98595L Application Execution Environment, 16-user | | | | + V00 | + W00 | + Q00 | + P00 | + N00 |
| ¼" tape cartridge | + T22 | + H22 | + S22 | + V22 | + W22 | | | |
| 3½" microfloppy, double-sided format | + T45 | + H45 | + S45 | + V45 | + W45 | | | |
| 98596L Application Execution Environment, 32-user | | | | + V00 | + W00 | + Q00 | + P00 | + N00 |
| ¼-inch tape cartridge | + T22 | + H22 | + S22 | + V22 | + W22 | | | |
| 98597L Programming Environment | | | | + V00 | + W00 | + Q00 | + P00 | + N00 |
| ¼" tape cartridge, single-user | + T22 | + H22 | + S22 | + V22 | + W22 | | | |
| 3½" microfloppy, multi-user | + T45 | + H45 | + S45 | + V45 | + W45 | | | |
| 98594L HP-UX 6.0 Software Bundle License | | | | + V00 | + W00 | + Q00 | + P00 | + N00 |
| ¼" tape | + T22 | + H22 | + S22 | + V22 | + W22 | | | |
| <u>BASIC</u> | | | | | | | | |
| 98616A RAM-based BASIC | | | | + V00 | + W00 | + Q00 | + P00 | + N00 |
| 5¼" internal flexible disc | | + H42 | + S42 | + V42 | + W42 | | | |
| 3½" microfloppy, single-sided format | | + H44 | + S44 | + V44 | + W44 | | | |
| 3½" microfloppy, double-sided format | | + H45 | + S45 | + V45 | + W45 | | | |
| <u>BASIC Compiler</u> | | | | | | | | |
| 98618A BASIC Compiler | | | | | + W00 | + Q00 | | |
| 5¼" internal flexible disc | | | + S42 | | | | | |
| 3½" microfloppy, single-sided format | | | + S44 | | | | | |
| 3½" microfloppy, double-sided format | | | + S45 | | | | | |
| <u>Pascal</u> | | | | | | | | |
| 98617A RAM-based Pascal | | | | + V00 | + W00 | + Q00 | + P00 | + N00 |
| 5¼" internal flexible disc | | + H42 | + S42 | + V42 | + W42 | | | |
| 3½" microfloppy, single-sided format | | + H44 | + S44 | + V44 | + W44 | | | |
| 3½" microfloppy, double-sided format | | + H45 | + S45 | + V45 | + W45 | | | |

* This service includes only the HP communicator and Software Status Bulletin.



| Software Product No. | AMS | RCS | SMS | ASC | Ext. SMS | MUS | ARCC | SNS* |
|--|-----|-------|-------|-------|----------|-------|-------|-------|
| 98619A SRM Operating System | | | | + V00 | + W00 | + Q00 | + P00 | + N00 |
| 1/4" tape cartridge | | + H22 | + S22 | + V22 | + W22 | | | |
| 3 1/2" microfloppy, double-sided format | | + H45 | + S45 | + V45 | + W45 | | | |
| 98693A/94A SRM Access Utilities/HP-UX | | | + S00 | | + W00 | + Q00 | | |
| 97058A SRM Access Software/BASIC Utilities | | | + S00 | | + W00 | + Q00 | | |
| <u>DOS</u> | | | | | | | | |
| 98531A, 98286S/T DOS Coprocessor. Order the following: 99111F. | | | + S00 | | + W00 | + Q00 | | |

* This service includes only the HP communicator and Software Status Bulletin.

† Applies only to 98531A

Series 300 Subsystem Support Services

As of August 1, 1987, uniform prices for Series 300 subsystem software (SMS, Ext. SMS and MUS) have been implemented. The prices are:

SMS
Ext. SMS
MUS

Series 300 subsystems include the following: VME Bus Software Drivers (98358A), HP-UX FORTRAN Compiler (98598L), HP-UX Pascal Compiler (98599L), HP-UX Ada Compiler (98054A/98055A), HP-UX Technical BASIC (97066L), NS-ARPA Services/300 (50952L), NFS Services/300 (50969L), Versatec Hardcopy Support (98053A), HP-UX DGL/AGP Graphics Library (98600L), HP TODAY/HP-UX Developer Pack (98112A), HP TODAY/HP-UX Run-time Environment (98118A), HP-UX SNA 3270 Datacomm Software (36590A and 36593A), NS for the DEC VAX Computer Software (50950A), SRM Server Software (98619A), 3278 Display Station Emulator (50955A), RJE Software (50967A), HP-GKS Graphics Library (98672L), Development Environment for Comon LISP (98678L), Development Environment for HP PROLOG (79232U), SRM Access Utilities for HP-UX (98693A) and Starbase Display List (98674L).

General Consulting Services

| Field District (ID44) | Regular Hours | After Hours Weekday | Weekends or Holidays |
|--------------------------------|---------------|---------------------|----------------------|
| Product Support Representative | 51413A | 51419A | 51422A |
| Application Engineer | 51414A | 51420A | 51423A |
| Specialist | 51415A | 51421A | 51424A |

| Project Center (ID46) | Regular Hours | After Hours Weekday | Weekends or Holidays |
|--------------------------------|---------------|---------------------|----------------------|
| Product Support Representative | 35135G | 35135H | 35135K |
| Application Engineer | 35135C | 35135I | 35135L |
| Specialist | 35135D | 35135J | 35135M |

Travel Charge options for HP 51413A - 51424A Consulting Services and HP 35135C - M Project Services.

| | |
|---------------------------------|--|
| 101 Zone 1 Travel Charge | |
| 102 Zone 2 Travel Charge | |
| 103 Zone 3 Travel Charge | |
| 104 Zone 4 Travel Charge | |
| 105 Beyond Zone 4 Travel Charge | |

For Europe and Intercon only, the following daily rates apply:

| | | |
|--------|---|--|
| 51416A | Product Support Representative Daily Rate | |
| 51417A | Application Engineer Daily Rate | |
| 51418A | Specialist Daily Rate | |

Packaged Consulting

| Product | Description | Price |
|------------|-------------------------|-------|
| 35630A+42A | VISTA + 3565S Install | |
| 64710S+42A | TEAMWORK Installation | |
| 64801S+42A | 64000 UX Installation | |
| 74210A+42A | EDS Installation | |
| 74400A+42A | PCDS Installation | |
| 98366A+42A | ME 5/10/30 Installation | |
| 98595A+42A | AXE MU Installation | |
| 98597A+42A | PE MU Installation | |

Series 300 Training

| Product | Description | HP Site | On-Site* |
|---------|---|---------|----------|
| 22861A | ARPA/Berkeley for Series 300 (2 days) | | |
| 51436A | HP-UX Series 300 System Administrator (5 days) | | |
| 98510C | Series 200/300 BASIC Operating and Programming (5 days) | | |

* Courses can be given at suitably-equipped customer facilities. These courses, which carry an X suffix (such as 35128X), are listed in the HP Corporate Price List. For more information on all Training Courses, contact the local Hewlett-Packard Applications Engineering Organization or your local HP sales office.

General 9000 Training

| Product | Description | HP Site | On-Site* |
|---------|---|---------|----------|
| 35130A | Programming in C Language (5 days) | | |
| 50959A | Using SRM from BASIC and Pascal (1 day) | | |
| 51432A | HP-UX Fundamentals for General Users (5 days) | | |
| 51433A | Shell Programming for General Users (5 days) | | |
| 51434A | HP-UX for Programmers (5 days) | | |
| 51435A | Advanced HP-UX Tools (5 days) | | |
| 51438A | SCCS and <i>make</i> utility (2 days) | | |
| 51440A | Document Preparation (3 days) | | |
| 51439A | Advanced Editing with VI (1 day) | | |
| 98501A | BASIC Programming (4 days) | | |
| 98502A | 9845 Operating and Programming (5 days) | | |
| 98503A | BASIC I/O Programming (4 days) | | |
| 98511B | Pascal Programming (5 days) | | |
| 98524A | HPL Operating and Programming (5 days) | | |
| 98525A | HPL I/O Programming (4 days) | | |

* Courses can be given at suitably-equipped customer facilities. These courses, which carry an X suffix (such as 35128X), are listed in the HP Corporate Price List. For more information on all Training Courses, contact the local Hewlett-Packard Applications Engineering Organization or your local HP sales office.

Purchase Plans

Both hardware and software support services are covered under our Customer Support Services Agreement. Contact your HP Sales Representative for more information.

Hewlett-Packard maintains fully-trained and well-equipped service operations at more than 170 offices worldwide. Contact your nearest sales office for specific prices and plans.

Warranties

The warranty covering a specific system is determined by the HP WARRANTY AND INSTALLATION TERMS in effect at the time of purchase. These terms are specified in HP Pub. No. 5954-1617(D) for the United States and in similar documents for other countries.



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