
HP 9000 Series 300 Family

Workstation and Controller Products

Price and Configuration Guide

Effective May 1992



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Introduction

Series 300

Hewlett-Packard's HP 9000 Series 300 Motorola 68K Family continues to offer the best platform to address the needs of most monitoring and control applications in measurement and industrial automation.

There are many benefits of the Series 300 including support of a full range of I/O interfaces, direct connect expanders, and form factors designed to comply with standard rack-mounting requirements. The Model 362 and Model 382 products offer a long minimum product

life (5 years) and a long support life (10 years) in compliance with the common Industrial Automation demand for product serviceability over long application life-cycles.

This guide contains information on HP's newest Series 300 products, the Model 362, R/362, 382, and R/382, as well as the Model 380. Also included is the new Model V/382 and accessory products for other Series 300 systems.

Series 300 Investment Protection

The Series 300 has long been recognized for offering strong investment protection, a benefit customers have come to expect from Hewlett-Packard. Board upgrades exist from most Series 300 platforms to the recently available MC68040 processor. All Series 300 systems and Series 200 are eligible for HP's Trade Up Program. As HP's hardware platforms improve in capability and price/performance, so does HP's operating system, software and networking offering.

In Measurement Automation

HP VEE is HP's visual engineering environment designed to meet the needs of engineers and scientists who can now develop test software without writing code. From HP VEE you can select the objects necessary for your solutions and link them together creating an executable block diagram. With HP VEE, you can spend time concentrating on measurement engineering — not programming.

HP BASIC 6.2 converges HP BASIC/DOS, HP BASIC/WS and HP BASIC/UX into a common language syntax and documentation set. This insures that software written on any new platform, will easily port to the other platforms. Additionally, HP's new HP BASIC Plus product can be used with all three HP BASIC 6.2 platforms, and will provide new keywords providing applications with an extensive combination of single command dialogue boxes, graphical displays and an on-line help facility for HP BASIC systems.

In Industrial Automation

HP's RTAP delivers a state-of-the-art software enabler technology for industrial systems integrators who are building supervisory control and data acquisition systems. RTAP is an integrated tool kit providing database, calculations engine, scan system, process scheduler, event manager and time keeper facilities.

HP also offers networking to a wide variety of dedicated controller solutions and PC-based Measurement Coprocessors via an SRM/UX server. This server allows test systems to transparently pass data over the network without the running of HP-UX on each test system.

HP-UX 8.0 on the Series 300 offers support for HP-VUE (HP's object oriented graphical interface). It has improved compiler performance, support for shared libraries, key shell for enhanced ease-of-use and Network Computing Systems (NCS) run-time capability.

Introduction

The Model 362 and R/362

The MC68030-based Model 362 system was designed specifically to run HP BASIC/WS, HP's industry-leading instrument control operating system and language. Model 362 workstation controller bundles use a 640 x 480 pixel resolution color display system. The Model R/362 integrated bundle

includes a built-in 640 x 480 grey-scale monitor. Both models offer 52 or 400 Mbyte pre-installed disk options and are available with memory configurations from 2 to 16 Mbytes of Parity SIMM RAM. The 362 also offers a 200 Mbyte pre-installed disk option.

The Model 382 and R/382

The MC68040-based Model 382 system offers high performance for HP-UX applications as well as offering leading-edge performance for HP BASIC/WS applications. Model 382 workstation controller bundles use either a 640 x 480, 1024 x 768 or 1280 x 1024 pixel resolution color display system. The

Model R/382 integrated bundles include a built-in 640 x 480 grey-scale monitor. Both models offer 52 or 400 Mbyte pre-installed disk options and are available with memory configurations from 4 to 32 Mbytes of ECC SIMM RAM. The 382 also offers a 200 Mbyte pre-installed disk option.

Good news for HP's Industrial Automation Customer

The new Industrial Automation focus of the Series 300 (specifically the 382) is great news for users! HP has taken the best workstation technology and tuned the packaging and I/O offering. HP's commitment to standards, robust UNIX operating system, HP-UX (which includes our new HP VUE), and excellent reliability

are key reasons why the industrial automation users will choose HP. HP-UX products offer industry standard networking to allow you to connect into your existing heterogeneous environment. HP RTAP provides a very high level user interface platform for SCADA applications builders

For the Reseller . . .

The Series 300 has always provided good returns for OEMs and VARS, and now it is even better! HP is committed to providing long product lives (at least 5 years for new products) and long support lives (at least 10 years for new products). The Series 300 packaging provides

flexibility and efficiency in both I/O and integrated peripheral devices so that resellers can configure systems to meet their customers needs. The Series 300 packaging is also ideal for integration within standard 19-inch racks.

Series 300 Overview

| | Workstation Controllers | | | | Integrated R-Series | | | Embedded VXI Model V 382 |
|--|--|--|--|--|--|--|--|-----------------------------|
| | Model 362 | Model 382 | Model 380 | Model R 382 | Model R 382 | Model R 382 | Model Y 382 | |
| Processor | 68030 | 68040 | 68040 | 68030 | 68040 | 68040 | 68040 | |
| Clock Speed | 25 | 25 | 25 | 25 | 25 | 25 | 25 | |
| MIPS | 6 | 22 | 22 | 6 | 22 | 22 | 22 | |
| MFLOPS | N/A | 2.6 | 2.6 | N/A | 2.6 | 2.6 | 2.6 | |
| SPECMARKS | N/A | 11 | 11 | N/A | 11 | 11 | 11 | |
| RAM Type | Parity SIMM | ECC SIMM | ECC SIMM | Parity SIMM | ECC SIMM | ECC SIMM | ECC SIMM | |
| RAM min/max | 2 to 16 Mbytes | 4 to 32 Mbytes | 8 to 128 Mbytes | 2 to 16 Mbytes | 4 to 32 Mbytes | 4 to 32 Mbytes | 8 to 32 Mbytes | |
| Standard Built-in Interfaces | HP-IB, HP-HIL, RS-232C, Audio, Parallel | HP-IB, HP-HIL, RS-232C, Audio, Parallel | HP-IB, HP-HIL, RS-232C, Audio, Parallel, SCSI, LAN | HP-IB, HP-HIL, RS-232C, Audio, Onboard 640 x 480 video, Parallel | HP-IB, HP-HIL, RS-232C, Audio, Onboard 640 x 480 video, Parallel | HP-IB, HP-HIL, RS-232C, Audio, Onboard 640 x 480 video, Parallel | LAN, SCSI, Parallel, Video Out, VXI | |
| Optional Built-in Interfaces | LAN, SCSI | LAN, SCSI | High Speed HP-IB in place of SCSI | LAN, SCSI | LAN, SCSI | LAN, SCSI | Thin LAN to AUJ | |
| Available Slots | 1 DIO Slot | 1 DIO Slot | 1 DIO-II Slot | 4 DIO Slots 1 Accessory Slot | 4 DIO Slots 1 Accessory Slot | 4 DIO Slots 1 Accessory Slot | None | |
| Supported Expanders | DIO, DIO-II | DIO, DIO-II | DIO, DIO-II, VME | None | None | None | None | |
| Graphics | Color 640 x 480 | Color 640 x 480, 1024 x 768 or 1280 x 1024 | Color 512 x 400, 1024 x 768 or 1280 x 1024 | Greyscale (640 x 480) | Greyscale (640 x 480) | Greyscale (640 x 400) | Color 640 x 480 Optional: 1024 x 768 1280 x 1024 | |
| Internal Mass Storage | Optional: Flexible Drive, 52, 200, 420 Mbyte Hard Drives | Optional: Flexible Drive, 52, 200, 420 Mbyte Hard Drives, CD-ROM | Not Available | Standard: Flexible Drive, 52 Mbyte Hard Drive | Standard: Flexible Drive, 52 Mbyte Hard Drive | Standard: Flexible Drive, 52 Mbyte Hard Drive | Not Available | |
| Operating Systems (earliest supported) | HP BASIC/WS 6.2, Pascal 3.2 | HP BASIC/WS 6.2, Pascal 3.2, HP-UX 8.0, HP BASIC/UX 6.2 | HP-UX 7.05, HP BASIC/WS 6.2, HP BASIC/UX 6.2, Pascal 3.2 | HP BASIC/WS 6.2, Pascal 3.2 | HP BASIC/WS 6.2, Pascal 3.2 | HP BASIC/WS 6.2, Pascal 3.2, HP-UX 8.0, HP BASIC/UX 6.2 | HP-UX 8.0 HP BASIC/WS 6.2 | |

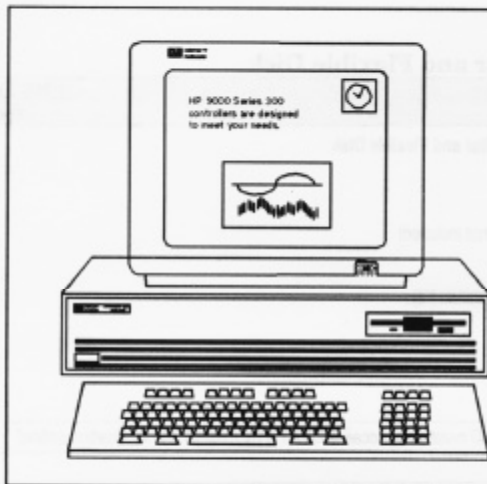
Workstations

Model 362 — System Processing Unit with Monitor and Flexible Disk

| Product/ Opt. No. | Component | Description | U.S. List Price |
|---|-----------|---|--------------------|
| A2251A | | Model 362 — System Processing Unit with Monitor and Flexible Disk Model 362 Controller SPU including: MC68030, 25 MHz, 2 Mbytes Parity SIMM RAM Color Graphics Output, 640 x 480 (VGA) resolution Standard speed HP-IB (IEEE-488) Interface (cable not included) RS-232C Serial Interface (cable not included) HP Parallel Printer Interface (cable not included) HP-HIL Interface (keyboard cable comes with Localization Kit) Audio interface 1 available DIO I/O slot and 1 available RAM slot. Also includes: 3.5-inch Flexible Disk Drive (in Storage Bay One). 14-inch VGA color monitor. | |
| A2252A | | | |
| Note: For KEYBOARD, MOUSE and POWER CORD must order Localization Kit (P/N A1099A and localization option). | | | |
| Note: Does not include software. | | | |
| Opt. ALK | A2256A | Add SCSI Interface. (High density connector with terminator. No cable.) | |
| Opt. ALJ | A2255A | Add LAN Interfaces (AUI and ThinLAN with BNC "T" connector, ThinLAN port activated). | |
| Opt. 8ZF | A2249A | Add MC68882 Math Coprocessor. (Attaches to Processor Board, No DIO slots required) | |
| Opt. ANM | | Configure with 4 Mbytes Parity SIMM RAM total. (1 available RAM slot.) | |
| Opt. ANJ | | Configure with 8 Mbytes Parity SIMM RAM total. (1 available RAM slot.) | |
| Opt. W04 | | Convert Warranty. To 1-year return-to-HP from 90-day on-site. | |
| Storage Bay Two (may select one option) | | | |
| Opt. AMR | A2257A | Add Integrated 52 Mbyte SCSI Disk Drive. | |
| Opt. AMS | A2258A | Add Integrated 200 Mbyte SCSI Disk Drive. | |
| Opt. AMT | A2259A | Add Integrated 420 Mbyte SCSI Disk Drive. | |

Model 362 — HP BASIC/WS Controller Bundle

| Product/ Opt. No. | Component | Description | U.S. List Price |
|---|-----------|--|--------------------|
| A2240A | | Model 362 HP BASIC/WS Controller Bundle Model 362 Controller SPU including: MC68030, 25 MHz, 2 Mbytes Parity SIMM RAM Color Graphics Output, 640 x 480 (VGA) resolution Standard speed HP-IB (IEEE-488) Interface (cable not included) RS-232C Serial Interface (cable not included) HP Parallel Printer Interface (cable not included) HP-HIL Interface (keyboard cable comes with Localization Kit) Audio interface 1 available DIO I/O slot and 1 available RAM slot. Also includes: 3.5-inch Flexible Disk Drive (in Storage Bay One). 14-inch VGA color monitor. HP BASIC/WS License-to-use. | |
| A2252A | | | |
| 98616L | | | |
| Note: For KEYBOARD, MOUSE and POWER CORD must order Localization Kit (P/N A1099A and localization option). | | | |
| Note: Does not include software. | | | |
| Opt. AS0 | 98618B | Add HP BASIC/WS Compiler. | |
| Opt. AGU | E2160A | Add HP BASIC Plus. (Need more than 2 megs of RAM) | |
| Opt. AJ0 | 98616B | Add HP BASIC/WS Media and Manuals | |
| Opt. AR0 | 98616BJ | Add HP BASIC/WS KANJI Media and Manuals | |
| Opt. ALK | A2256A | Add SCSI Interface. (High density connector with terminator. No cable.) | |
| Opt. ALJ | A2255A | Add LAN Interfaces (AUI and ThinLAN with BNC "T" connector, ThinLAN port activated). | |
| Opt. 8ZF | A2249A | Add MC68882 Math Coprocessor. (Attaches to Processor Board, No DIO slots required) | |
| Opt. ANM | | Configure with 4 Mbytes Parity SIMM RAM total. (1 available RAM slot.) | |
| Opt. ANJ | | Configure with 8 Mbytes Parity SIMM RAM total. (1 available RAM slot.) | |
| Opt. W04 | | Convert Warranty. To 1-year return-to-HP from 90-day on-site. | |
| Storage Bay Two (may select one option) | | | |
| Opt. AMR | | Add Integrated 52 Mbyte SCSI Disk Drive pre-loaded with HP BASIC/WS. | |
| Opt. AMS | | Add Integrated 200 Mbyte SCSI Disk Drive pre-loaded with HP BASIC/WS. | |
| Opt. AMT | | Add Integrated 420 Mbyte SCSI Disk Drive pre-loaded with HP BASIC/WS. | |



**MC68040 CPU at 25 MHz
382 Product Numbers**

- A1474A - 382 SPU
- A2241A - 382 HP BASIC/WS
- A2242A - 382 HP BASIC/UX
- A2243A - 382 VEE Test
- A2245A - RMB/UX Kanji
- A2250A - 382 HP-UX

**Model
382**

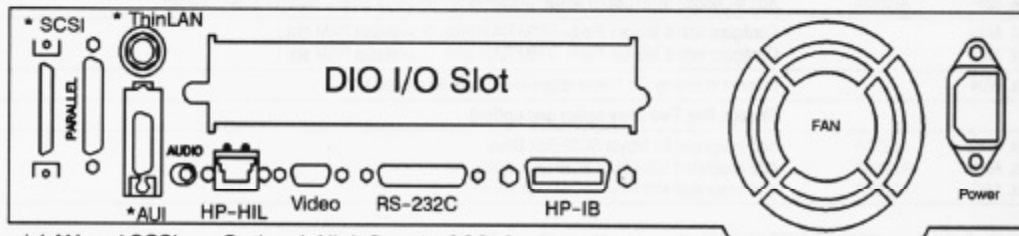
382 Operating System Support

- HP BASIC/WS 6.2 or later
- HP-UX 6.0 or later
- HP BASIC/UX 6.2 or later
- Pascal - 3.2

**Keyboard Localization Kit
(Must Order Separately)**

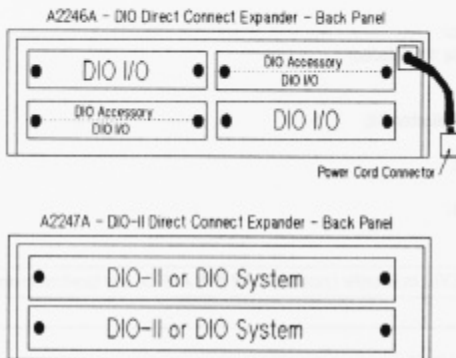
- A1099A - HP BASIC/WS and Pascal Keyboard Kit
- A1099B - HP-UX and HP BASIC/UX Keyboard Kit

Back View



* LAN and SCSI are Optional. High Density SCSI Connector. SCSI Connector is HDSL(M).

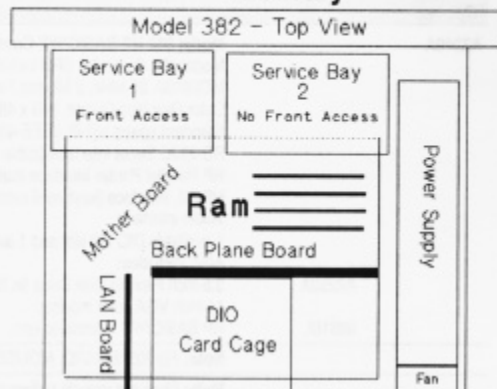
Expanders



Maximum of two expanders per system, any combination.

Per system, one or two DIO-II slots can be converted to DIO I/O slots using the A1401A adapter. The 98242A/B kit is incompatible with the 362 and 382 controllers.

Memory



- A2200A - 4 megabyte RAM.
 - A2201A - 8 megabyte RAM.
 - A2202A - 16 megabyte RAM.
- All RAM is ECC SIMM (Each product occupies 2 slots). Configurations of 4, 8, 12, 16, 20, 24 and 32 megabytes are supported. RAM doesn't use I/O slots.

Model 382 Controller Bundle

| Product/ Opt. No. | Component | Description | U.S. List Price |
|---|-------------|---|--------------------|
| A2250A | | Model 382 Controller Bundle Model 382 Controller SPU including: MC68040, 25 MHz 4 Mbytes ECC SIMM RAM Color Graphics Output, VGA (640 x 480) resolution Standard speed HP-IB (IEEE-488) Interface (cable not included) RS-232C Serial Interface (cable not included) HP Parallel Printer Interface (cable not included) HP-HIL Interface (must order keyboard separately) Audio interface | |
| | B1861A #UA1 | HP-UX Run-Time Environment License-to-Use. (Media and manuals not included.) 1 available DIO I/O slot and 1 available pair of RAM slots. Also includes: 14-inch VGA color monitor. | |
| Note: For KEYBOARD, MOUSE and POWER CORD must order Localization Kit (P/N A1099A or A1099B and localization option). | | | |
| Note: Does not include software. | | | |
| Opt. ADX | 9875A | Substitute High-resolution Graphics. 1024 x 768 resolution graphics output, 16-inch color monitor and 3m RGB cable for 640 x 480 (VGA) resolution graphics output and 14-inch VGA color monitor. | |
| Opt. ADJ | 98754A | Substitute high resolution 1280 x 1024 output, 19" color monitor and 3m RGB cable for 640 x 480 (VGA) res output and 14" VGA color monitor. | |
| Opt. ANJ | | Configure with 8 Mbytes ECC SIMM RAM total. (1 available pair of RAM slots.) | |
| Opt. ANB | | Configure with 16 Mbytes ECC SIMM RAM total. (1 available pair of RAM slots.) | |
| Opt. ALJ | A2255A | Add LAN Interfaces (AUI and ThinLAN with BNC "T" connector, ThinLAN port activated). | |
| Opt. ALK | A2256A | Add SCSI Interface. (High density connector with terminator. No cable.) | |
| Opt. W04 | | Convert Warranty. To 1-year return-to-HP from 90-day on-site. | |
| Storage Bay One (may select one option) | | | |
| Opt. AMB | A2252A | Add Integrated 3.5-inch Flexible Disk Drive. | |
| Opt. AMT | A2259A | Add Integrated 420 Mbyte SCSI Disk Drive. | |
| Opt. AM8 | A2253A | Add CD-ROM Drive. (Includes SCSI interface Option ALK.) | |
| Opt. AM7 | A2254A | Add DDS Drive. | |
| Storage Bay Two (may select one option) | | | |
| Opt. AMR | A2257A | Add Integrated 52 Mbyte SCSI Disk Drive. | |
| Opt. AMO | | Add Integrated 200 Mbyte SCSI Disk Drive pre-loaded with HP-UX | |
| Opt. AMK | | Add Integrated 420 Mbyte SCSI Disk Drive pre-loaded with HP-UX | |

Workstations

Model 382 HP BASIC/WS Controller Bundle

| Product/ Opt. No. | Component | Description | U.S. List Price |
|---|-----------|---|--------------------|
| A2241A | | High Performance 382 HP BASIC/WS Controller Bundle Model 382 Controller SPU including: MC68040, 25 MHz 4 Mbytes ECC SIMM RAM Color Graphics Output, VGA (640 x 480) resolution Standard speed HP-IB (IEEE-488) Interface (cable not included) RS-232C Serial Interface (cable not included) HP Parallel Printer Interface (cable not included) HP-HIL Interface (must order keyboard separately) Audio interface 1 available DIO I/O slot and 1 available pair of RAM slots. Also includes: Integrated 3.5-inch Flexible Disk Drive (in Storage Bay One) 14-inch VGA color monitor. HP BASIC/WS License-to-use. | |
| | A2252A | | |
| | 98616L | | |
| Note: For KEYBOARD, MOUSE and POWER CORD must order Localization Kit (P/N A1099A and localization option). | | | |
| Note: Does not include software. | | | |
| Opt. AS0 | 98618B | Add HP BASIC/WS Compiler. | |
| Opt. AGU | E2160A | Add HP BASIC Plus. | |
| Opt. AJ0 | 98616B | Add HP BASIC/WS Media and Manuals. | |
| Opt. AR0 | 98616BJ | Add HP BASIC KANJI Media and Manuals. | |
| Opt. ANJ | | Configure with 8 Mbytes ECC SIMM RAM total. (1 available pair of RAM slots.) | |
| Opt. ANB | | Configure with 16 Mbytes ECC SIMM RAM total. (1 available pair of RAM slots.) | |
| Opt. ALJ | A2255A | Add LAN Interfaces (AUI and ThinLAN with BNC "T" connector, ThinLAN port activated). | |
| Opt. ALK | A2256A | Add SCSI Interface. (High density connector with terminator. No cable.) | |
| Opt. W04 | | Convert Warranty. To 1-year return-to-HP from 90-day on-site. | |
| Opt. ADX | 98785A | Substitute Med-resolution 1024 x 768 graphics output, 16-inch color monitor and 3m RGB cable for 640 x 480 (VGA) resolution output and 14-inch VGA color monitor. | |
| Opt. ADJ | 98754A | Substitute High Resolution 1280 x 1024 output, 19" color monitor and 3m RGB cable for 640 x 480 (VGA) res output and 14" VGA color monitor. Only available w/RMB/WS 6.21. | |
| Storage Bay Two (may select one option) | | | |
| Opt. AMR | A2257A | Add Integrated 52 Mbyte SCSI Disk Drive pre-loaded with HP BASIC/WS. | |
| Opt. AMS | A2258A | Add Integrated 200 Mbyte SCSI Disk Drive. pre-loaded with HP BASIC/WS. | |
| Opt. AMT | A2259A | Add Integrated 420 Mbyte SCSI Disk Drive. pre-loaded with HP BASIC/WS. | |

Model 382 — HP BASIC/UX Workstation Controller Bundles

| Product/ Opt. No. | Component | Description | U.S. List Price |
|---|------------|--|--------------------|
| A2242A | | Model 382 HP BASIC/UX Controller Model 382 Controller SPU including: MC68040, 25 MHz Color Graphics Output, VGA (640 x 480) resolution Standard speed HP-IB (IEEE-488) Interface (cable not included) RS-232C Serial Interface (cable not included) HP Parallel Printer Interface (cable not included) HP-HIL Interface (must order keyboard separately) Audio interface 1 available DIO I/O slot and 1 available pair of RAM slots. Also includes: Configure with 8 Mbytes ECC SIMM RAM total (1 available RAM slot). 14-inch VGA color monitor and attached RGB cable. Add LAN Interfaces (AUI and ThinLAN with BNC "T" connector, ThinLAN port activated). HP-UX License-to-use. HP BASIC/UX License-to-use. | |
| | A2255A | | |
| | B1861A#UA1 | | |
| | E2040L | | |
| Note: For KEYBOARD, MOUSE and POWER CORD must order Localization Kit (P/N A1099B and localization option). | | | |
| Note: Does not include software. | | | |

Model 382 — HP BASIC/UX Workstation Controller Bundles (continued)

| Product/ Opt. No. | Component | Description | U.S. List Price |
|---|-----------|---|-------------------------|
| Opt. ANB | | Configure with 16 Mbytes ECC SIMM RAM total. (1 available pair of RAM slots.) | |
| Opt. ALK | A2256A | Add SCSI Interface. (High density connector with terminator. No cable.) | |
| Opt. ADX | 98785A | Substitute Med-resolution 1024 x 768 graphics output, 16-inch color monitor and 3m RGB cable for 640 x 480 (VGA) resolution output and 14-inch VGA color monitor. | |
| Opt. ADJ | 98754A | Substitute High-resolution 1280 x 1024 output 19" color monitor and 3m RGB Cable for 640 x 480 (VGA) res output and 14" VGA color monitor. | |
| May specify one media option (maximum). | | | |
| Opt. AJ0 | E2040A | Add HP BASIC/UX Media and Manuals. (1/4 inch tape) | |
| Opt. AAF | | HP BASIC/UX Media and Manuals (CD-ROM) | |
| Opt. AAH | | HP BASIC/UX Media and Manuals (DDS Tape) | |
| Opt. AGU | E2160A | Add HP BASIC Plus (Includes Media and Manuals) | |
| Opt. W04 | | Convert Warranty. To 1-year return-to-HP from 90-day on-site. | |
| Storage Bay One (may select one option) | | | |
| Opt. AMB | A2252A | Add Integrated 3.5-inch Flexible Disk Drive. | |
| Opt. AM8 | A2253A | Add CD-ROM Drive. (includes SCSI Interface, option ALIC) | |
| Opt. AM7 | A2254A | Add DDS Drive. | |
| Storage Bay Two (may select one option) | | | |
| Opt. AM0 | | Add Integrated 210 Mbyte SCSI Disk Drive pre-loaded with HP-UX and HP BASIC/UX. | |
| Opt. AMK | | Add Integrated 420 Mbyte SCSI Disk Drive pre-loaded with HP-UX and HP BASIC/UX. | |
| A2245A | | HP BASIC/UX Kanji Controller Bundle Model 382 Controller SPU including: MC68040, 25 Mhz Standard speed HP-IB (IEEE-488) Interface (cable not included) RS-232C Serial Interface (cable not included) HP Parallel Printer Interface (cable not included) HP-HIL Interface (must order keyboard separately) Audio interface 1 available DIO I/O slot and 1 available pair of RAM slots. Also includes: Configure with 8 Mbytes ECC SIMM RAM (1 available RAM slot available) Add LAN Interfaces (AUI and ThinLAN with BNC "T" connector, ThinLAN port activated). Opt. ADX 1024 x 768 resolution graphics output, 16-inch color monitor and 3m RGB cable. 400 Mbyte SCSI disk pre-loaded with HP BASIC/UX. B2386A HP-UX License-to-use (KANJI Version). E2040LJ HP BASIC/UX License-to-use (KANJI Version). YS-90111L Add EG CONVERT License-to-use . | Available in Japan only |
| Note: For KEYBOARD, MOUSE and POWER CORD must order Localization Kit (P/N A1099B and localization option). | | | |
| Note: Does not include software. | | | |
| Opt. ANB | | Configure with 16 Mbytes ECC SIMM RAM total. (1 available pair of RAM slots.) | |
| Opt. AJ0 | E2040AJ | Add HP BASIC/UX Media and Manuals. | |
| Opt. AGU | E2160AJ | Add HP BASIC Plus. | |
| Opt. ALK | A2256A | Add SCSI Interface. (High density connector with terminator. No cable.) | |
| Opt. ADJ | | Substitute High-resolution 1280 x 1024 output 19" color monitor and 3m RGB Cable for 1024 x 768 (VGA) medium res output and 16" color monitor. | |
| Storage Bay Options (may choose one option) | | | |
| Opt. AMB | A2252A | Add 3.5-inch Flexible Disk Drive. | |
| Opt. AMT | A2259A | Add 420 Mbyte SCSI Disk Drive. | |
| Opt. AM8 | A2253A | Add CD-ROM Drive. (includes SCSI Interface, Option ALK) | |
| Opt. AM7 | A2254A | Add DDS Drive. | |

Workstations


Model 382 — VEE-Test Bundle

| Product/ Opt. No. | Component | Description | U.S. List Price |
|---|-----------|--|--------------------|
| A2243A | | Model 382 HP VEE-Test Bundle Model 382 Controller SPU MC68040, 25 MHz Color Graphics Output, 1024 x 768 resolution Standard speed HP-IB (IEEE-488) Interface (cable not included) RS-232C Serial Interface (cable not included) HP Parallel Printer Interface (cable not included) HP-HIL Interface (must order keyboard separately) Audio interface 1 available DIO I/O slot and 1 available pair of RAM slots. Also includes: Configure with 16 Mbytes ECC SIMM RAM total. (1 available pair of RAM slots.) | |
| A2255A | | LAN interfaces (AUI and ThinLAN with BNC "T" connector, ThinLAN port activated). | |
| A2256A | | SCSI Interface. (High density connector with terminator. No cable.) | |
| B1861A # UA1 | | 16-inch 1024 x 768 color monitor and 3m RGB cable. | |
| E2110A | | HP-UX License-to-use. (HP-UX Media and Manuals not included) HP VEE-Test License-to-use. | |
| Note: For KEYBOARD, MOUSE and POWER CORD must order Localization Kit (P/N A1099B and localization option). | | | |
| Note: Does not include software. | | | |
| May specify one media option (maximum). | | | |
| Opt. AJ0 | | HP VEE-Test Media and Manuals. (1/4" Tape) | |
| Opt. AAF | | HP VEE-Test Media and Manuals (CD-ROM) | |
| Opt. AAH | | HP VEE-Test Media and Manuals (DDS Tape) | |
| Opt. ANC | | Configure with 32 Mbytes ECC SIMM RAM total. (No available RAM slots.) | |
| Storage Bay One (may select one option) | | | |
| Opt. AM8 | A2253A | Add CD-ROM drive. (In Storage Bay one.) | |
| Opt. AM7 | A2254A | Add DDS Drive. | |
| Note: For 3.5" Floppy must order A2252A | | | |
| Opt. W04 | | Convert Warranty. To 1-year return-to-HP from 90-day on-site. | |
| Opt. ADJ | | Substitute High-resolution 1280 x 1024 output 19" color monitor and 3m RGB Cable for 1024 x 768 medium res output and 16" color monitor. | |
| Storage Bay Two (may select one option) | | | |
| Opt. AM0 | | Add 200 Mbyte SCSI Disk Drive pre-loaded with HP-UX and HP VEE. | |
| Opt. AMK | | Add 420 Mbyte SCSI Disk Drive pre-loaded with HP-UX and HP VEE. | |

Workstations

Model 362 — System Processing Unit

| Product/ Opt. No. | Component | Description | U.S. List Price |
|--|-----------|--|--------------------|
| A1473A | | Model 362 Controller SPU MC68030, 25 MHz 2 Mbytes ECC SIMM RAM Color Graphics Output, VGA (640 x 480) resolution Standard speed HP-IB (IEEE-488) Interface (no cable) RS-232C Serial Interface (no cable) HP Parallel Printer Interface (no cable) HP-HIL Interface (keyboard cable comes with Localization Kit) Built-in speaker and audio interface 1 available DIO I/O slot and 1 available pair of RAM slots. Note: Does not include software. Note: Monitor must be ordered separately (P/N D1194A). Note: For KEYBOARD, MOUSE and POWER CORD must order Localization Kit (P/N A1099A or A1099B and localization option). | |
| Opt. ALK | A2256A | Add SCSI Interface. (High density connector with terminator. No cable.) | |
| Opt. ALJ | A2255A | Add LAN Interfaces (AUI and ThinLAN with BNC "T" connector, ThinLAN port activated). | |
| Opt. 6ZF | A2249A | Add MC68882 Math Coprocessor. (Attaches to Processor Board, No DIO slots required.) | |
| Opt. ANM | | Configure with 4 Mbytes Parity SIMM RAM total. (1 available of RAM slots.) | |
| Opt. ANJ | | Configure with 8 Mbytes Parity SIMM RAM total. (1 available of RAM slots.) | |
| Opt. W04 | | Convert Warranty. To 1-year return-to-HP from 90-day on-site. | |
| Storage Bay One (may select one option) | | | |
| Opt. AM8 | A2252A | Add Integrated 3.5-inch flexible Disk Drive | |
| Storage Bay Two (may select one option) | | | |
| Opt. AMR | A2257A | Add Integrated 52 Mbyte SCSI Disk Drive. | |
| Opt. AMS | A2258A | Add Integrated 210 Mbyte SCSI Disk Drive. | |
| Opt. AMT | A2259A | Add Integrated 420 Mbyte SCSI Disk Drive. | |



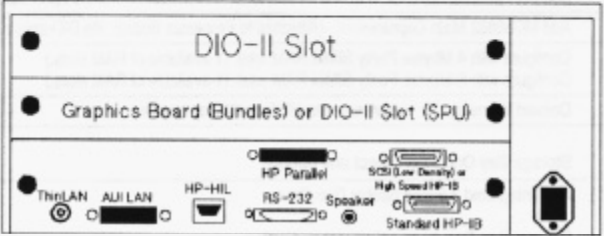
MC68040 CPU at 25 MHz

380 Product Numbers
 A1458A - 380 SPU
 A1480A - 380 C +
 A1481A - 380 CH

380 Operating System Support
 HP BASIC/WS 6.2 or later
 HP-UX 7.05 or later
 HP BASIC/UX 5.52 or later
 Pascal - Future Revision

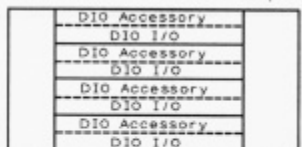
**Model
380**

Back View

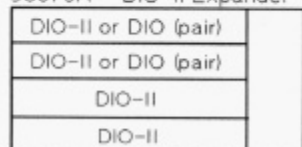


Expanders

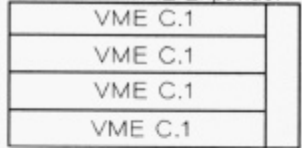
98568A - DIO 8-slot I/O Expander



98570A - DIO-II Expander



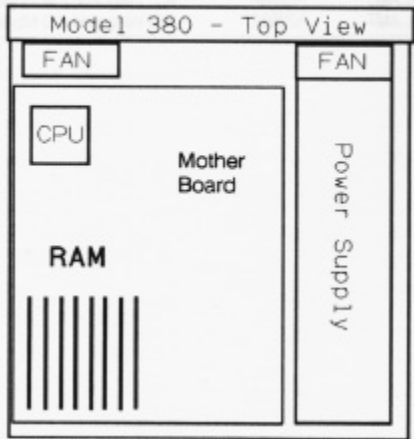
98577A - VME Expander



The following pairs of expanders are supported:
 98568A and 98568A opt 132
 98568A opt 132 and 98570A
 98570A and 98570A
 98577A and 98570A

Each expander, except 98568A without option 132, is supported individually.
 The 98570A is supported with or without option 004.

Memory



98229A - 4 megabyte ECC RAM.
 98229B - 8 megabyte ECC RAM.
 98229S - 16 megabyte ECC RAM.
 98229E - 32 megabyte ECC RAM.
 All RAM is Parity SIMM (Each product occupies two slots. Four products per controller.)

Workstations

Model 380 — System Processing Unit

| Product/ Opt. No. | Component | Description | U.S. List Price |
|----------------------|-----------|---|--------------------|
| A1458A | | 380 SPU Model 380 SPU which includes: MC68040, 25 Mhz 8 Mbytes ECC RAM, Expandable to 128 Mbytes 4 Gbytes virtual memory address space 64-bit memory bus IEEE-488 HP-IB I/F SCSI I/F w/1m cable and terminator RS-232C serial I/F w/9-pin male connector (cable not included) IEEE 802.3/Ethernet LAN I/F w/ThinMAU and BNC "T" connector and AUI (jumper selectable, preset to ThinLAN) HP-HIL I/F (keyboard cable comes with Localization Kit) HP Parallel Printer I/F (no cable) (HP-UX 7.05 includes SW driver) 2 channel DMA controller Built-in speaker and audio I/F (jack) HP-UX License-to-use | |
| | | Note: Two out of four DIO-II slots available. | |
| | | Note: For KEYBOARD, MOUSE and POWER CORD, Must order Localization Kit (P/N A1099A/B and localization option). | |
| | | Note: Does not include software. | |

Model 380 — Color Graphics Bundles

| Product/ Opt. No. | Component | Description | U.S. List Price |
|----------------------|-----------|---|--------------------|
| A1480A | | 380C+ 2D Color Workstation Model 380 SPU and common components plus: 16 Mbytes of ECC RAM Total (4 Mbit DRAMs) | |
| | 98549A | High-resolution 6-plane color graphics board (1024x768) | |
| | 98785A | 16-inch Color Monitor (1024x768) | |
| | | Note: One out of four DIO-II slots available. | |
| | | Note: Does not include software. | |
| Opt. 719 | 98753A | Substitute 19-inch color monitor for 16-inch color monitor (98785A) | |
| A1481A | | 380CH 2D Color Workstation Model 380 SPU and common components plus: 16 Mbytes of ECC RAM Total (4 Mbit DRAMs) | |
| | A1416A | CH color graphics I/F (1280x1024, 8+2 planes) | |
| | 98789A | 16-inch color monitor (1280x1024) | |
| | | Note: One out of four DIO-II slots available. | |
| | | Note: Does not include software. | |
| Opt. 719 | 98754A | Substitute 19-inch color monitor for 16-inch color monitor (98789A) | |

Workstations

Model 382 — System Processing Unit

| Product/ Opt. No. | Component | Description | U.S. List Price |
|--|-----------|---|--------------------|
| A1474A | | Model 382 Controller SPU MC68040, 25 MHz 4 Mbytes ECC SIMM RAM Color Graphics Output, VGA (640 x 480) resolution Standard speed HP-IB (IEEE-488) interface (cable not included) RS-232C Serial Interface (cable not included) HP Parallel Printer Interface (cable not included) HP-HIL Interface (must order keyboard separately) Built-in speaker and audio interface HP-UX Run-Time Environment License to Use 1 available DIO I/O slot and 1 available pair of RAM slots. Note: Monitor must be ordered separately (P/N D1194A). Note: For KEYBOARD, MOUSE and POWER CORD must order Localization Kit (P/N A1099A or A1099B and localization option). Note: Does not include software. | |
| Opt. ANJ | | Configure with 8 Mbytes ECC SIMM RAM total. (1 available pair of RAM slots.) | |
| Opt. ANB | | Configure with 16 Mbytes ECC SIMM RAM total. (1 available pair of RAM slots.) | |
| Opt. ALJ | A2255A | Add LAN Interfaces (AUI and ThinLAN with BNC "T" connector, ThinLAN port activated). | |
| Opt. ALK | A2256A | Add SCSI Interface. (High density connector with terminator. No cable.) | |
| Opt. W04 | | Convert Warranty. To 1-year return-to-HP from 90-day on-site. | |
| Storage Bay One (may select one option) | | | |
| Opt. AM8 | A2253A | Add CD-ROM Drive. (includes SCSI interface option ALK) | |
| Opt. AMT | A2259A | Add Integrated 420 Mbyte SCSI Disk Drive. | |
| Storage Bay Two (may select one option) | | | |
| Opt. AM0 | | Add Integrated 210 Mbyte SCSI Disk Drive pre-loaded with HP-UX | |
| Opt. AMK | | Add Integrated 420 Mbyte SCSI Disk Drive pre-loaded with HP-UX. | |

382 Upgrade

| Product/ Opt. No. | Component | Description | U.S. List Price |
|----------------------|-----------|---|--------------------|
| A2244A | | Model 310/320/332 SPU Field Upgrade Kit to 382 MC68040 at 25 MHz. Includes: 8 Mbytes ECC SIMM RAM Color Graphics Output, 640 x 480 (VGA) Resolution 14-inch 640 x 480 (VGA) Resolution Monitor Standard: HP-IB (IEEE-488) Interface (cable not included) RS-232C Serial Interface (cable not included) HP-HIL Interface (must order keyboard separately) HP-UX 2 user License-to-Use | |
| Opt. ADY | | Delete VGA Monitor. (Can not be ordered with Opt ADX) | |
| Opt. ADX | | Substitute 1024x768 Graphic System for 640x480 Graphics System. Includes: 16" Color Monitor (Can not be ordered with Opt ADY) | |
| Opt. 200 | | Return Credit for 310 or 320 CPU Board and Monitor. | |
| Opt. 201 | | Return Credit for 332 CPU Board and Monitor. | |

375 Upgrade

| Product/ Opt. No. | Component | Description | U.S. List Price |
|----------------------|-----------|--|--------------------|
| 98244E | | 375 Upgrade 68040 Kit for transforming a 375 68030 to 380 68040. Includes HP-UX 8.0 License-to-Use. Requires return of 030 processor board. Note: Recommended Disk Interface: 98625B High speed HP-IB, 98658A SCSI. | |

Workstations

Notes

380 Upgrade

| Product/ Opt. No. | Component | Description | U. S. List Price |
|----------------------|-----------|--|---------------------|
| 98244D | | Field Upgrade for Model 330/350/360/370 to Model 380. An upgrade to provide MC68040 performance at 25 MHz. Note: Comes standard with SCSI, must order Opt. ALB to get high-speed HP-IB disk interface. | |
| | | Must specify this option: | |
| Opt. 82C | | Model 380 with MC68040, 25 MHz | |
| | | Return credits (must order one): | |
| Opt. OGS | | Credit for returned Models 360/370 CPU Board and System Interface Board | |
| Opt. OGT | | Credit for returned Models 330/350 CPU Board and System Interface Board | |
| | | Options: | |
| Opt. ALB | | Substitute high-speed HP-IB (w/ cable) for SCSI | |
| Opt. AN1 | | Convert original 8 Mbytes RAM to 32 Mbytes RAM (4 Mbit DRAMS) | |
| Opt. AN4 | | Add 8 Mbytes of ECC RAM (1 Mbit DRAMS) (may specify 3) | |
| Opt. AN6 | | Add 32 Mbytes of ECC RAM (4 Mbit DRAMS) | |
| Opt. AAR | | HP-UX 8.0 Update Media and Manuals Note: HP-UX 8.0 does not include programming documentation. | |

Trade up Program

All Series 300 Systems are eligible to take advantage of HP's trade-up programs. Customers can trade-up to 030 or 040 performance. For more information see the HP Apollo

Trade-up Program sales guide
P/N 5091-2883EUS or the HP
Series 300 Trade-up Now
Promotion sales guide
P/N 5091-3796EUS.

Integrated Controllers

Fully Integrated R/362 and R/382 Controllers

For test systems that require integrated controllers, Hewlett-Packard offers the HP 9000 Series 300 Models R/362, R/382 and R/382U. These complete, rugged, fully integrated controllers provide the power of the 362 and 382 while integrating the display, keyboard, flexible disk, internal hard disk and interfaces into a complete, compact package that rack-mounts into 7-inches of rack space.

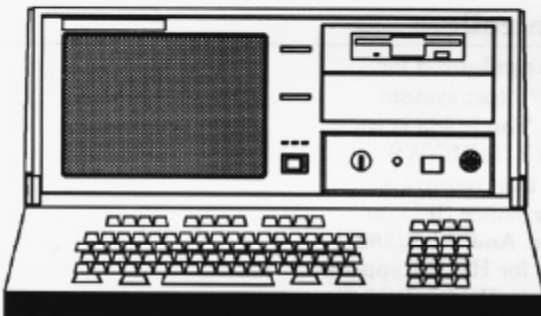
The R/362 is configured for HP BASIC/WS test system applications. The R/382 is configured for HP BASIC/WS applications that require a higher performance SPU for data analysis. And the R/382U is configured for HP-UX applications written in HP BASIC/UX or C. These controllers come with their operating systems and languages preinstalled on their hard disks and can be up and running in minutes.

| | R 362 | R 382 | R 382U |
|---------------------------|--|--|---|
| Standard | Display and Keyboard | Display and Keyboard | Display and Keyboard |
| Optional | Touchscreen | Touchscreen | Touchscreen |
| SPU (25 MHz) | MC68030, 6 MIPS | MC68040, 22 MIPS Coprocessor | MC68040, 22 MIPS Coprocessor |
| Optional | Coprocessor | | |
| RAM* | | | |
| | Parity SIMM | ECC SIMM | ECC SIMM |
| Standard | 2 MB | 4 MB | 8 MB |
| Optional | 4 MB 8 MB | 8 MB 16 MB | 16 MB 32 MB |
| Maximum | 16 MB | 32 MB | 32 MB |
| Mass Storage | | | |
| Standard | 3 1/2 inch Floppy 52 MB Hard Disk | 3 1/2 inch Floppy 52 MB Hard Disk | 420 MB Hard Disk |
| Optional | 420 MB Hard Disk | 420 MB Hard Disk | 3 1/2 inch Floppy |
| Operating System** | | | |
| | HP BASIC/WS 6.2 | HP BASIC/WS 6.2 | HP-UX 8.0 |
| Languages** | | | |
| | HP BASIC/WS 6.2 | HP BASIC/WS 6.2 | HP BASIC/UX 6.2 |
| Optional | HP BASIC Plus HP BASIC Compiler | HP BASIC Plus HP BASIC Compiler | HP BASIC Plus |
| Interfaces | | | |
| Standard | HP-IB (IEEE 488) RS-232C HP-HIL Ext. Display Ext. Audio HP Parallel | HP-IB (IEEE 488) RS-232C HP-HIL Ext. Display Ext. Audio HP Parallel | HP-IB (IEEE 488) RS-232C HP-HIL Ext. Display Ext. Audio HP Parallel LAN |
| Optional | LAN Ext. SCSI | LAN Ext. SCSI | Ext. SCSI |
| Expansion Slots | 4 DIO I/O 1 DIO Accessory | 4 DIO I/O 1 DIO Accessory | 4 DIO I/O 1 DIO Accessory |

* There are two types of SIMM (Single Inline Memory Modules) RAM. The parity SIMMs used in the R/362 are available in 2 MB, 4 MB and 8 MB sizes and one or two modules can be installed.

The higher performance R/382 and R/382U use ECC (Error Checking and Correcting) RAM in SIMM-pairs. They are referred to as "pairs" because for a particular SIMM-pair size, they are actually two independent modules that must be installed together. ECC SIMM-pairs are available in 4 MB, 8 MB and 16 MB sizes and one or two SIMM-pairs can be installed.

** Operating Systems and languages are pre-installed on the hard disks unless the delete option for the hard disk is chosen.



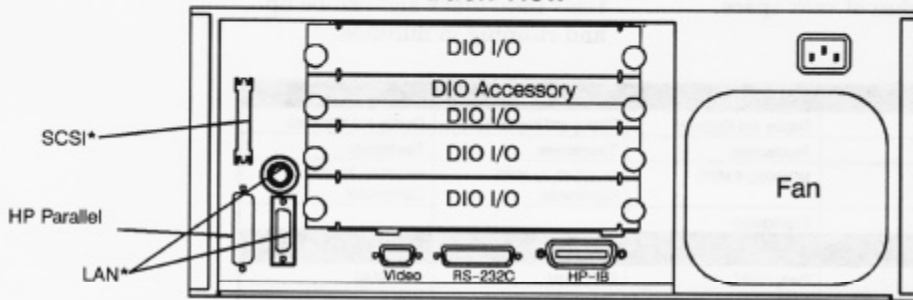
MC68030 CPU at 25 MHz

R/362 Product Numbers
A1314A - R/362 HP BASIC/WS

Model R/362

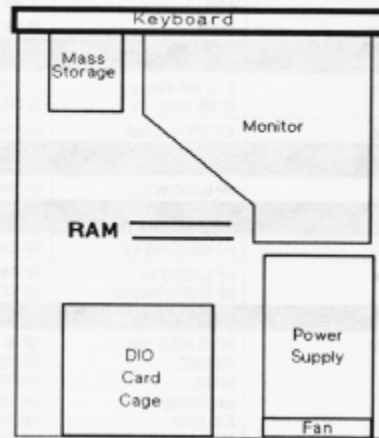
R/362 Operating System Support
HP BASIC/WS 6.2 or later
Pascal - Future Revision

Back View



* LAN and SCSI are Optional.

Memory



Rack Mounting

- | | |
|-----------|---|
| A1309A | Rack-mounting flange kit. Contains two metal flanges and mounting screws. |
| E3663A | Stationary rails for E366x racks. |
| 12679B | Stationary rails for non-E366x racks. |
| 1494-0059 | Standard slide kit. |
| 1494-0063 | Standard tilting slide kit. |



D2381A - 2 megabyte RAM.
D2156A - 4 megabyte RAM.
D2152A - 8 megabyte RAM.
Configurations of 2, 4, 6, 8, 10, 12, and 16 megabytes are supported. RAM doesn't use I/O slots. RAM boards are double-sided and keyed. All RAM is Parity SIMM (Each product occupies one slot).

Integrated Controllers

R/362 HP BASIC/WS Integrated Controller

| Product/ Opt. No. | Component | Description | U.S. List Price |
|----------------------|-----------|--|--------------------|
| A1314A | | Model R/362 HP BASIC/WS Integrated Controller - Rackmountable in 7 inches of rack space 362 25MHz MC68030 Processor 2 Mb Parity SIMM RAM, expandable to 16 Mb Parity SIMM RAM 9 inch Internal Greyscale Display (640 x 480) 3.5 inch SCSI Floppy Drive 52 Mb SCSI Internal Disk preloaded with HP BASIC/WS HP BASIC Language 6.2 preinstalled as well as separate 3.5 inch and License-to-Use Double Sided media, one manual set and HP BASIC/WS license to use. Attached ITF Keyboard 4 DIO I/O; 1 DIO Accessory I/O Slots HP-IB, RS-232, HP-HIL and Parallel Interfaces Built-in Speaker and Audio Output Connector External VGA Color Display Output Connector (640 x 480) | |
| | 98616B/L | | |

MUST Specify one localization option:

| | | | |
|----------|--|-------------------------------------|--|
| Opt. ABA | | English manuals/U.S. keyboard/110v | |
| Opt. ABU | | English manuals/UK keyboard/220v | |
| Opt. ABD | | German manuals/German keyboard/220v | |
| Opt. ABF | | French manuals/French keyboard/220v | |
| Opt. ABJ | | Japanese manuals/Katakana keyboard | |
| Opt. ABK | | English manuals/U.S. keyboard/220v | |

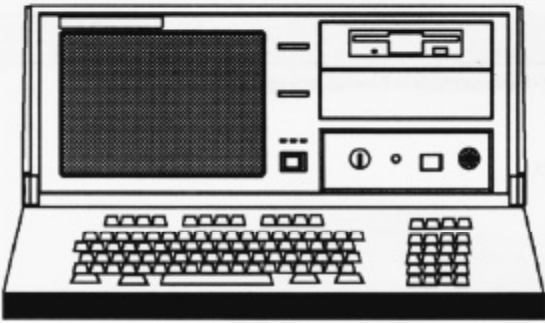
May Specify:

| | | | |
|----------|--------|---|--|
| Opt. 1BS | | Add touchscreen | |
| Opt. ALK | | Add SCSI Interface (external) | |
| Opt. AS0 | 98618B | Add HP BASIC/WS Compiler | |
| Opt. AGU | E2160A | Add HP BASIC/WS Plus | |
| Opt. 8ZF | 96284A | Add MC68882 Floating Point Coprocessor | |
| Opt. ALJ | | Add IEEE 802.3/Ethernet AUI and BNC LAN Interface | |
| Opt. 908 | A1309A | Rackmount kit (rails ordered separately) | |
| Opt. ANM | D2156A | Substitute total 4 Mb RAM for 2 Mb | |
| Opt. ANJ | D2152A | Substitute total 8 Mb RAM for 2 Mb | |
| Opt. AMU | | Substitute 400 Mb Internal Disk for 52 Mb | |
| Opt. SWJ | | Substitute Kanji HP BASIC | |
| Opt. W03 | | Substitute 90 day on site for 1 year warranty | |
| Opt. 1AW | | Delete HP BASIC Media and Documentation | |
| Opt. AMD | | Delete Internal 52 Mb Preloaded Disk | |

Integrated Controllers

R/382 HP BASIC/WS Integrated Controller

| Product/ Opt. No. | Component | Description | U.S. List Price |
|--|-----------|---|--------------------|
| A1319A | | Model R/382 HP BASIC/WS Integrated Controller - Rackmountable in 7 inches of rack space 382 25MHz MC68040 Processor 4 Mb ECC SIMM RAM 9 inch Internal Greyscale Display (640 x 480) 3.5 inch SCSI Floppy 52 Mb SCSI Internal Disk preloaded with HP BASIC/WS HP BASIC/WS Language 6.2 preinstalled as well as separate 3.5 inch and License-to-Use Double Sided media, one manual set and HP BASIC/WS license to use. Attached ITF Keyboard 4 DIO I/O; 1 DIO Accessory I/O Slots HP-IB, RS-232, HP-HIL and Parallel Interfaces Built-in speaker and Audio Output Connector External VGA Color Display Output Connector (640 x 480) | |
| | 98616B/L | | |
| MUST Specify one localization option: | | | |
| Opt. ABA | | English manuals/U.S. keyboard/110v | |
| Opt. ABU | | English manuals/UK keyboard/220v | |
| Opt. ABD | | German manuals/ German keyboard/220v | |
| Opt. ABF | | French manuals/French keyboard/220v | |
| Opt. ABJ | | Japanese manuals/Katakana keyboard | |
| Opt. ABK | | English manuals/U.S. keyboard/220v | |
| May Specify : | | | |
| Opt. 1BS | | Add Touchscreen | |
| Opt. ALK | | Add SCSI Interface (external) | |
| Opt. AS0 | 98618B | Add HP BASIC/WS Compiler | |
| Opt. AGU | E2160A | Add HP BASIC Plus | |
| Opt. 908 | A1309A | Rackmount kit (rails ordered separately) | |
| Opt. ALJ | | Add IEEE 802.3/Ethernet AUI and BNC LAN Interface | |
| Opt. ANJ | A2201A | Substitute total 8 Mb RAM for 4 Mb | |
| Opt. ANB | A2202A | Substitute total 16 Mb RAM for 4 Mb | |
| Opt. AMU | | Substitute 400 Mb Internal Disk for 52 Mb | |
| Opt. SWJ | | Substitute Kanji HP BASIC/WS | |
| Opt. W03 | | Substitute 90 day on site for 1 year warranty | |
| Opt. 1AW | | Delete HP BASIC/WS Media and Documentation | |
| Opt. AMD | | Delete Internal Preloaded Disk | |



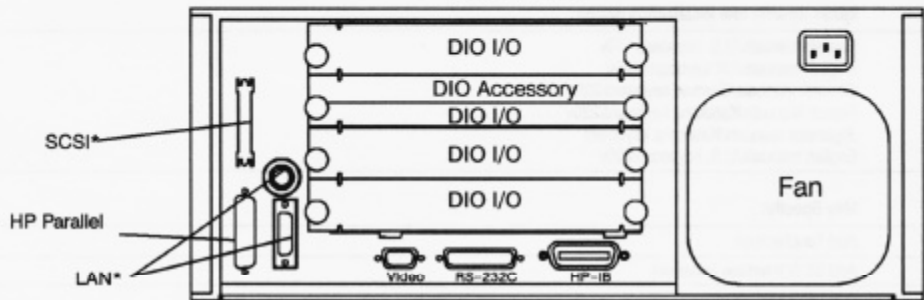
MC68040 CPU at 25 MHz

R/382 Product Numbers
 A1319A - R/382 HP BASIC/WS
 A1324A - R/382U HP BASIC/UX

Model
R/382
R/382U

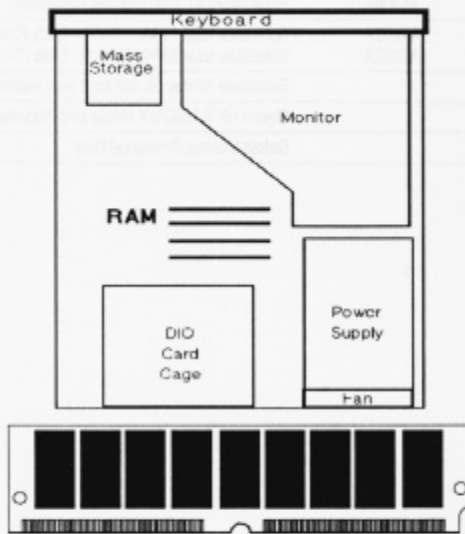
R/382 Operating System Support
 HP BASIC/WS 6.2 or later
 HP-UX 8.0 or later
 HP BASIC/UX 6.2 or later
 Pascal - Future Revision

Back View



* LAN and SCSI are Optional.

Memory



A2200A - 4 megabyte RAM.
 A2201A - 8 megabyte RAM.
 A2202A - 16 megabyte RAM.
 RAM is ECC SIMM (Each product occupies two slots).
 Configurations of 4, 8, 12, 16, 24 and 32 megabytes are supported.

Rack Mounting

| | |
|-----------|---|
| A1309A | Rack-mounting flange kit. Contains two metal flanges and mounting screws. |
| E3663A | Stationary rails for E366x racks. |
| 12679B | Stationary rails for non-E366x racks. |
| 1494-0059 | Standard slide kit. |
| 1494-0063 | Standard tilting slide kit. |

Integrated Controllers

R/382U HP BASIC/UX Integrated Controller

| Product/ Opt. No. | Component | Description | U.S. List Price |
|----------------------|-----------|--|--------------------|
| A1324A | | Model R/382U HP BASIC/UX Integrated Controller - Rackmountable in 7 inches rack space 382 25MHz MC68040 processor 8 Mb ECC SIMM RAM 9 inch Internal Greyscale Display (640 x 480) 400 Mb SCSI Internal Disk preloaded with HP BASIC/UX HP BASIC/UX 6.2 Media. HP BASIC/UX 6.2 Media License-to-Use. HP-UX 8.0 Media and License-to-Use. 4 DIO I/O; 1 DIO Accessory I/O Slots Attached ITF Keyboard HP-IB, RS-232, HP-HIL and Parallel Interfaces IEEE 802.3/Ethernet AUI and BNC LAN Interface Built in speaker and Audio Output Connector External VGA Color Display Output Connector (640 x 480) | |

MUST Specify one localization option:

| | | | |
|----------|--|---------------------------------------|--|
| Opt. ABA | | English manuals/U.S. keyboard/110v | |
| Opt. ABU | | English manuals/UK keyboard/220v | |
| Opt. ABD | | German Manuals/German keyboard/220v | |
| Opt. ABF | | French Manuals/Katakana keyboard/220v | |
| Opt. ABJ | | Japanese manuals/Katakana keyboard | |
| Opt. ABK | | English manuals/U.S. keyboard/220v | |

May Specify:

| | | | |
|----------|--------|--|--|
| Opt. 1BS | | Add Touchscreen | |
| Opt. ALK | | Add SCSI Interface (external) | |
| Opt. AGU | E2160A | Add HP BASIC Plus | |
| Opt. AMB | | Add 3.5 inch SCSI Floppy | |
| Opt. 90B | A1309A | Rackmount kit (rails ordered separately) | |
| Opt. ANB | A2202A | Substitute total 16 Mb RAM for 8 Mb (One set of A2202A factory installed) | |
| Opt. ANC | A2202A | Substitute total 32 Mb RAM for 8 Mb (Two sets of A2202A factory installed) | |
| Opt. W03 | | Substitute 90 day on site for 1 year warranty | |
| Opt. 1AW | | Delete HP BASIC/UX Media and Documentation | |
| Opt. AMD | | Delete Internal Preloaded Disk | |

Notes:

Model
V382

MC68040 CPU at 25 MHz
V382 Product Numbers
HP E1400A V382 Controller
V382 Operating System Support
HP-UX 8.0
VXI Crate
HP E1401A VXI Card Cage



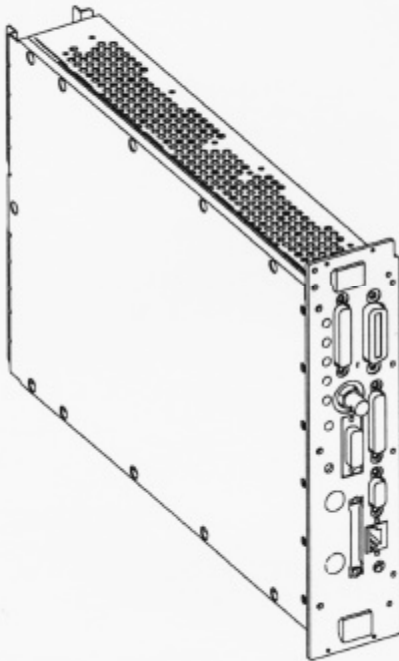
Graphics Options
Standard: 640x480 Color Graphics with
14-inch VGA monitor
WADY: Delete Standard VGA monitor
WADK: Add 1024x768 Graphics with a
16-inch Color monitor
WADJ: Add 1280x1024 Graphics with a
19-inch Color monitor

RAM Options
Standard: 8 MB ECC RAM
WANG: Configure with 16MB Total System RAM
WANC: Configure with 32MB Total System RAM

Front Detail



Model V382



MC68040 CPU at 25 MHz

V382 Product Numbers

HP E1499A V/382 Controller

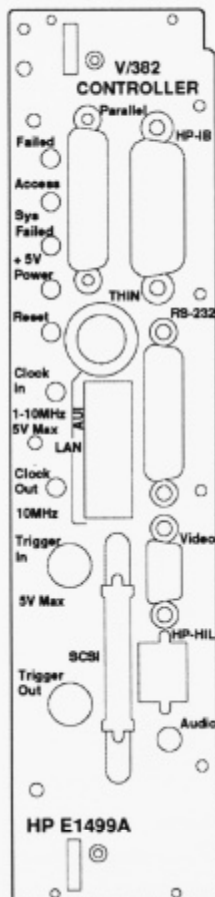
V382 Operating System Support

HP-UX 8.0

VXI Crate

HP E1401A VXI Card Cage

Front Detail



Graphics Options

Standard: 640x480 Color Graphics with
14-inch VGA monitor

#ADY: Delete Standard VGA monitor

#ADX: Add 1024x768 Graphics with a
16-inch Color monitor.

#ADJ: Add 1280x1024 Graphics with a
19-inch Color monitor

RAM Options

Standard: 8 MB ECC RAM

#ANB: Configure with 16MB Total System RAM

#ANC: Configure with 32MB Total System RAM

Integrated Controllers

2000

Embedded VXI

| Product/ Opt. No. | Component | Description | U.S. List Price |
|---|------------|--|--------------------|
| E1499A | | V/382 Controller Embedded VXI Controller including: MC68040 25MHz processor 640 x 480 Color Graphics w/ 14" VGA 8 Mbytes ECC RAM HP-IB LAN-ThinLAN connector activated HP-HIL, Audio, SCSI interfaces VXI slot 0 board HP-UX license-to-use SICL license-to-use | |
| | D1194A | | |
| | B1861A#UA1 | | |
| Note: For KEYBOARD, MOUSE and POWER CORD must order Localization Kit (P/N A1099A and localization option). | | | |
| Note: Does not include software. | | | |
| Note: License-to use VXI software drivers is included with V/382 (E1499A) controller | | | |
| Opt. AL9 | | Preset LAN to activate the AUI connector | |
| Opt. 100 | | Substitute monitor adjust for Southern Hemisphere | |
| May order one graphics option: | | | |
| Opt. ADY | | Delete Standard VGA monitor | |
| Opt. ADX | | Substitute 1024 x 768 med. res. graphics 16" color monitor in place of standard graphics. | |
| Opt. ADJ | | Substitute 1280 x 1024 high res. graphics with 19" color monitor in place of standard graphics. | |
| May choose one RAM option: | | | |
| Opt. ANB | | Configure with 16 Mbytes total RAM | |
| Opt. ANC | | Configure with 32 Mbytes total RAM | |
| E2092A | | V/382 SICL C-Language Application Development Library Media and Documentation | |
| Must Specify one media option: | | | |
| Opt. AAO | | 1/4" cartridge tape | |
| Opt. AAF | | DOS tape | |
| Opt. AAH | | CD-ROM | |
| E1481B | | VXI Media and Documentation for V/382 BASIC/WS LTU is included with V/382 hardware | |
| Note: V/382 VXI Software for BASIC/UX is not available | | | |

Quality, Reliability and Environmental Information

Technical Specifications

| | Model 360 | Model 362 | Model 362 | Model R362 | Model R362 | Model V362 | |
|--|---|------------------------------------|------------------------------------|--------------------------------|--------------------------------|------------------------|--|
| System Electrical Specifications | | | | | | | |
| Power Availability | | | | | | Not Applicable | |
| Power Supply Max | 150 Watts | 100 Watts | 100 Watts | 200 Watts | 200 Watts | | |
| at +5 volts | 20 Amps | 13 Amps | 13 Amps | 19 Amps | 19 Amps | | |
| at +12 volts | 3.6 Amps | 2.6 Amps | 2.6 Amps | 8 Amps | 8 Amps | | |
| at -12 volts | 1.1 Amps | .25 Amps | .25 Amps | 1.5 Amps | 1.5 Amps | | |
| Line Frequency | 48-66 Hz | 47-66 Hz | 47-66 Hz | 45-66 Hz | 45-66 Hz | | |
| Max Power Consumption | 250 Watts/853 BTU hr. | 155 Watts/530 BTU hr. | 155 Watts/530 BTU hr. | 320 Watts/1092 BTU hr. | 320 Watts/1092 BTU hr. | | |
| Source Power Consumption | 4 Amps @ 120V 3 Amps @ 240V | 1.3 Amps @ 120V .65 Amps @ 240V | 1.3 Amps @ 120V .65 Amps @ 240V | 6 Amps @ 110V 3 Amps @ 230V | 6 Amps @ 110V 3 Amps @ 230V | | |
| System Environmental Characteristics | | | | | | | |
| Temperature Operational/ Non-Operational | All models: 0 to +55 C/-40 to +70C | | | | | | |
| Humidity Operational | All models: 15% to 95% R.H. | | | | | | |
| Max. Alt Oper/Non-Oper. | All models: w/o disk - 4,570/15,240m; w/internal disk - 3,050/15,240m | | | | | | |
| System Regulatory Compliance | | | | | | | |
| VDE Level | B | B | B | B | B | B | |
| FCC Class | A | A | A | B | B | A | |
| VCCI Class | 1 | 1 | 1 | 1 | 1 | 1 | |
| Safety | UL, CSA, IEC | UL, CSA, IEC | UL, CSA, IEC | CSA, IEC | CSA, IEC | UL, CSA, IEC, CISPR 22 | |
| System Physical Characteristics | | | | | | | |
| Height | 130 mm (5.12") | 89 mm (3.5") w/o feet | 89 mm (3.5") w/o feet | 189 mm (7.5") | 189 mm (7.5") | 259 mm (10.2") | |
| Width | 325 mm (12.8") | 427 mm (16.8") | 427 mm (16.8") | 440 mm (17.3") | 440 mm (17.3") | 61 mm (2.38") | |
| Depth* | 376 mm (14.8") | 444 mm (17.5") | 444 mm (17.5") | 704 mm (27.7") | 704 mm (27.7") | 375 mm (14.75") | |
| Weight | 11.8 kg (26 lbs.) | 10.9 kg (24 lbs.) w/disk | 10.9 kg (24 lbs.) w/disk | 18 kg (40 lbs.) | 18 kg (40 lbs.) | 3.6 kg (8 lbs.) | |
| * Note: and additional 4" should be allowed for interface cables | | | | | | | |
| Real-time Clock | | | | | | | |
| Resolution | All models: 10 milliseconds | | | | | | |
| Accuracy | All models: +5 seconds/day | | | | | | |
| Battery Backup | All models: Lithium, 1 yr. life expectancy | | | | | | |
| Timers | | | | | | | |
| Match Interrupt | All models: Match on time of day 0.00 to 84600.00 seconds | | | | | | |
| Delay Interrupt | All models: 10 milliseconds to 1.94 days | | | | | | |
| Cyclical Interrupt | All models: 10 milliseconds to 1.94 days | | | | | | |
| System Timer | All models: 4 microseconds resolution accurate to 25 ppm | | | | | | |
| Audio | | | | | | | |
| Audio | All models: Three independent tone generators controllable over 30 db. | | | | | | |
| Frequency | All models: 81.46 Hz to 83.3 KHz | | | | | | |
| Resolution | All models: Capable of approximately chromatic scale over five octaves. | | | | | | |
| Duration | All models: 01 sec. to 2.55 second/tone | | | | | | |

Notes:

Quality Reliability and Environmental Information

Technical Specifications

| Item No. | Description | Material | Quantity | Unit | Remarks |
|----------|-------------|----------|----------|------|---------|
| 1 | ... | ... | ... | ... | ... |
| 2 | ... | ... | ... | ... | ... |
| 3 | ... | ... | ... | ... | ... |
| 4 | ... | ... | ... | ... | ... |
| 5 | ... | ... | ... | ... | ... |
| 6 | ... | ... | ... | ... | ... |
| 7 | ... | ... | ... | ... | ... |
| 8 | ... | ... | ... | ... | ... |
| 9 | ... | ... | ... | ... | ... |
| 10 | ... | ... | ... | ... | ... |
| 11 | ... | ... | ... | ... | ... |
| 12 | ... | ... | ... | ... | ... |
| 13 | ... | ... | ... | ... | ... |
| 14 | ... | ... | ... | ... | ... |
| 15 | ... | ... | ... | ... | ... |
| 16 | ... | ... | ... | ... | ... |
| 17 | ... | ... | ... | ... | ... |
| 18 | ... | ... | ... | ... | ... |
| 19 | ... | ... | ... | ... | ... |
| 20 | ... | ... | ... | ... | ... |
| 21 | ... | ... | ... | ... | ... |
| 22 | ... | ... | ... | ... | ... |
| 23 | ... | ... | ... | ... | ... |
| 24 | ... | ... | ... | ... | ... |
| 25 | ... | ... | ... | ... | ... |
| 26 | ... | ... | ... | ... | ... |
| 27 | ... | ... | ... | ... | ... |
| 28 | ... | ... | ... | ... | ... |
| 29 | ... | ... | ... | ... | ... |
| 30 | ... | ... | ... | ... | ... |

Memory, I/O and Accessories

Miscellaneous SPU Accessories

| Product/ Opt. No. | Component | Description | U.S. List Price |
|----------------------|-----------|--|--------------------|
| A1099A/B | Keyboard | Must order a Localization Kit with each 362/382/380 Localization Kit with Keyboard and Mouse - see page 34. | |

ATTENTION: There is a 40% to 80% savings on selected RAM prices below:

RAM

| Product/ Opt. No. | Component | Description | U.S. List Price |
|----------------------|-----------|--|--------------------|
| A2200A | | 382 and R/382 - 4 Mbytes ECC SIMM RAM (Pair of 2 Mbytes modules). | |
| A2201A | | 382 and R/382 - 8 Mbytes ECC SIMM RAM (Pair of 4 Mbytes modules). | |
| A2202A | | 382 and R/382 - 16 Mbytes ECC SIMM RAM (Pair of 8 Mbytes modules). | |
| D2381A | | 362 and R/362 - 2 Mbytes Parity SIMM RAM. | |
| D2156A | | 362 and R/362 - 4 Mbytes Parity SIMM RAM. | |
| D2152A | | 362 and R/362 - 8 Mbytes Parity SIMM RAM. | |
| 98229A | | 345/375/380 - 4 Mbytes ECC RAM (Pair of 2 Mbyte modules). | |
| 98229B | | 375/380 - 8 Mbytes ECC RAM (Pair of 4 Mbyte modules). | |
| 98229S | | 345/375/380 - 16 Mbytes ECC RAM (Pair of 8 Mbyte modules). | |
| 98229D | | 375/380 16MB ECC RAM (Pair of 8 Mbyte modules). | |
| 98229E | | 375/380 32MB ECC RAM (Pair of 8 Mbyte modules). | |
| 98269A | | 332 - 1 Mbyte Parity RAM. Maximum of 2 RAM boards (98269A/B) can be installed. | |
| 98269B | | 332 - 4 Mbytes Parity RAM. Maximum of 2 RAM boards (98269A/B) can be installed. | |
| 98268A | | 340 - 4 Mbytes Parity RAM Maximum of 16 Mbytes can be installed. | |
| 98258A | | 330/350/370 4 Mbyte Parity RAM with controller | |
| 98258C | | 330/350/370 12 Mbyte Parity RAM | |
| 98267A | | 360 4 Mbyte Parity RAM | |
| 98267B | | 360 8 Mbyte Parity RAM | |
| 98267C | | 360 12 Mbyte Parity RAM | |
| 98257A | | 310/320 1 Mbyte Parity RAM | |
| 98259A | | S200/300 128 Kbytes Magnetic Bubble Memory Card (DIO Accessory Card). | |

Internal Mass Storage

| Product/ Opt. No. | Component | Description | U.S. List Price |
|----------------------|-----------|---|--------------------|
| 98571D | | 340/345 - 200 Mbyte Disk Drive Field Upgrade Kit. | |
| A2252A | | 362/382 - 3.5-inch Floppy Disk Drive Field Upgrade Kit. | |
| A2253A | | 362/382 - CD-ROM Drive Field Upgrade Kit. | |
| A2257A | | 362/382 - 52 Mbyte Disk Drive Field Upgrade Kit. | |
| A2258A | | 362/382 - 200 Mbyte Disk Drive Field Upgrade Kit. | |
| A2259A | | 362/382 - 420 Mbyte Disk Drive Field Upgrade Kit. | |
| A2254A | | 382/DSS Drive | |

Memory, I/O and Accessories

Expander/Slots

| Product/ Opt. No. | Component | Description | U.S. List Price |
|----------------------|-----------|--|--------------------|
| 98568A Opt. 132 | | 310/320/332 - Direct Connect 8-slot I/O Expander. 380/330/350/360/370/375 DIO-II interface: Adapts 98568A for use with SPU or attachment to existing 98570A expander. Maximum of two expanders on these Models. | |
| 98242B | | 330/350/360/370/375/380 - 2-slot DIO Backplane. Converts one DIO-II slot to one pair of DIO slots (a total of two DIO slots). Supported on the 98570A Opt. 004 Expander. | |
| A2246A | | 362/382 - Direct Connect 4-slot (DIO) I/O Expander. (May connect up to two expanders.) | |
| A2247A | | 362/382 - Direct Connect 2-slot (DIO-II) I/O Expander. (May connect up to two expanders.) | |
| A1401A | | DIO-I adaptor. Converts one DIO-II slot to a single DIO-I slot. Supported on A2247A expander with HP-UX only. Maximum of two A1401As per system. | |
| 98570A Opt. 004 | | 380/330/350/360/370/375 Direct-Connect DIO-II Expander. 2 DIO-II slots and 2 DIO-I slot pairs (4 total DIO slots). Maximum of two expanders on these Models. Delete DIO-I slots. Deletes 2 DIO-I slot pairs. Adds 2 DIO-II slots. | |
| 98577A | | 380/330/350/360/370/375 Direct-Connect VME Expander. Adds 4 VME C.1 slots to SPU or existing 98570A expander. Maximum of two expanders on these Models. Maximum of one 98577A per system. | |

Network Interface Accessories

| Product/ Opt. No. | Component | Description | U.S. List Price |
|----------------------|-----------|---|--------------------|
| 98235A | | 340 - AUI Upgrade (converts ThinLAN to AUI). | |
| 98237A | | 340 - ThinLAN Upgrade (converts AUI to ThinLAN). | |
| A2255A | | 362/382 - LAN Interface Field Upgrade Kit (includes AUI and ThinLAN). | |
| 50962A | | SRM Coax Interface (DIO Interface card). | |
| 28641B | | ThinMAU: 10Base2 LAN transceiver. 0.5m AUI cable. | |
| 28683A | | ST-Style Fiber Optic transceiver. Direct AUI attach - no cable. | |
| 28685A | | EtherTwist MAU: 10Base5 LAN transceiver. Direct AUI attach - no cable. | |
| 30241A | | ThickMAU: 10Base5 LAN transceiver. No (required) AUI cable included. | |
| 36592A | | HP-UX SNALink DIO-I/O interface card and software right-to-use. | |
| Opt. 0A0 | | V.35, single-user: Specifies RS-232C interface on DIO-I/O card and 2 Logical Unit software capability | |
| Opt. 0A1 | | V.35, multi-user: Specifies RS-232C interface on DIO-I/O card and 32 Logical Unit software capability | |
| Opt. 001 | | V.35, single-user: Specifies V.35 interlace on DIO-I/O card and 2 Logical Unit software capability | |
| Opt. 002 | | V.35, multi-user: Specifies V.35 interface on DIO-I/O card and 32 Logical Unit software capability | |
| 36941A | | X.25/300 DIO-I/O interface card and software. | |
| Opt. 1AW | | Deletes software: for additional X.25 interface on same system. | |
| 98171A | | LAN/300 Link: AUI-style DIO-I/O card with 28641B 10Base2 ThinMAU and HP-UX Software. | |
| Opt. 1AW | | Delete LAN software. Software not required if running HP-UX version 6.0 or later. | |
| Opt. 241 | | Delete 28641B ThinMAU. | |
| Opt. 740 | 30241A | Substitute 10Base5 ThickMAU for ThinMAU | |
| Opt. 840 | 28685A | Substitute 10BaseT EtherTwist MAU for ThinMAU | |
| 98641A | | RJE 2780/3780 bisync interface, DIO-I/O. Includes 4.6m DTE-25M cable | |
| Opt. 001 | | Substitute V.35 interconnect for RS-232C. | |

Memory, I/O and Accessories

Misc. Interface Products

| Product/ Opt. No. | Component | Description | U.S. List Price |
|--|-----------|--|--------------------|
| K2292 | | Model 382 HP-UX only: 0.1m cable; expands single DTE 25F RS-232C port to three DTE-25F ports. | |
| 98259A | | Bubble Memory Card: 128 Kbyte DIO-Accessory card. | |
| 98297A 28672A | | RTI: Real-Time Interface card. Two-high DIO-System card for user-programmed SBX I/O modules 8-port SBX Serial multi-plexer with patch panel and host/panel interconnect cable (can only be used with 98297A) | |
| 98622A Opt. 001 11738A 10875A 10875B | | GPIO: General Purpose 16-Bit Parallel Duplex I/O card. DIO-I/O style. No cable. Unterminated cable. Adds 5061-4209 4.6m cable. Cable for 8770A waveform synthesizer 4.8m cable for 5180A waveform recorder 1.0m cable for 5180A waveform recorder | |
| 98623A Opt. 001 | | BCD: Binary-coded-decimal I/O card. DIO-I/O style. No cable. Unterminated Cable. Adds 5061-4217 4.6m cable. | |
| 98626A Opt. 001 Opt. 002 | | RS-232C Serial interface card. DIO-I/O style, 50-pin connector, no cable. DTE Cable. Adds 5061-4215 cable, 4.6m, 25-pin male connector. DCE cable: Adds 5061-4216 cable, 4.6m 25-pin female connector. | |
| 98628A Opt. 001 Opt. 002 Opt. 003 | | RS-232C "Datacomm" interface card. DIO-I/O style, 50-pin connector, no cable. DTE Cable. Adds 5061-4215 cable, 4.6m, 25-pin male connector. DCE cable: Adds 5061-4216 cable, 4.6m 25-pin female connector. RS-423 cable: Adds 5061-4250 RS-423/499 cable, 4.6m, 37-pin male connector. | |
| 98630A Opt. 001 | | Bread board I/O card. DIO-I/O style card with blank cover plate, buffering circuits and 96 square cm of tinned holes on 0.1-inch centers. Adds 98630-66502 service extender card. | |
| 98633A 14704A 14704B 14704C | | Multi-programmer interface. DIO-I/O card for 6944A multi-programmer. No cable. 1.0m cable. 2.0m cable. 4.0m cable. | |
| 98638A Opt. 1AW Opt. 1C8 | | 8-channel serial multi-plexer. DIO II system style card with RS-232C patch panel and 2.5m card/panel interconnect cable Delete software. Suggested for HP-UX 8.0 and later systems. Substitute RS-422 panel for RS-232C. | |
| 98640A Opt. 001 | | ADC card: 7-channel Analog-to-Digital interface. DIO-I/O style. Delete software and test hood. For additional cards on same system. | |
| 98642A Opt. 001 | | 4-channel serial multi-plexer. With a DIO-I/O card with 1 DTE-25F. Full-modem port and 3 RJ-11 3-wire ports. Includes 92219S 5m DTE-25M modem cable for port 0 and 3 92219T 15m DCE-25M direct-connect cables for ports 1-3. Delete all cables. | |
| 98644A | | RS-232C Serial interface card. DIO-I/O style, DTE-25F connector, no cable. | |
| 98646A | | VME adaptor. DIO-I/O card and cable set to VME. C.1 card. Connects DIO host computer to customer-supply VME card cage. | |
| 98691A Opt. 001 Opt. 002 Opt. 003 | | PDI: RS-232C programmable datacomm interface card. Z-80 based, DIO-I/O style, 50-pin connector, no cable. DTE Cable: Adds 5061-4215 cable, 4.6m, 25-pin male connector. DCE cable: Adds 5061-4216 cable, 4.6m 25-pin female connector. RS-423 cable: Adds 5061-4250 RS-423/499 cable, 4.6m, 37-pin male connector. | |

HP-IB and SCSI Interfaces

| Product/ Opt. No. | Component | Description | U.S. List Price |
|----------------------|-----------|---|--------------------|
| A2256A | | Model 362/382 SCSI upgrade. Adds built-in single-ended SCSI interface. | |
| 98265A | | SCSI upgrade. Single-ended Daughter board for System Interface cards of Models 330, 350, 360 or 370 Includes 1.0m cable with male low-density bail-lock (LDBL) connector and LDBL terminator. Replaces 98262A if present. | |
| 98624A | | HP-IB: Standard-speed DIO-I/O interface card. Cable not included. | |
| 98625B | | High-speed HP-IB: DIO-I/O mass-storage interface. Cable not included | |
| 98658A | | SCSI: Single-ended DIO-I/O SCSI card with low-density bail-lock (LDBL) connector and LDBL terminator. Cable not included. | |

Memory, I/O and Accessories

Graphics Boards/Upgrades

| Product/ Opt. No. | Component | Description | U.S. List Price |
|----------------------|-----------|---|--------------------|
| A1416A | | Color VRX: 1280 x 1024 x 8 60Hz Color bit-mapped graphics interface. DIO-II style, Includes 2.5m BNC to BNC cables. Requires 98754A or 98789A monitor, not included. Presently supported on Model 380 only. | |
| 98285A | | Model 332 Graphics Upgrade. Upgrades built-in 512 x 400 x 1 monochrome graphics to 1024 x 768 x 1. Requires 98778A monitor. | |
| 98542A | | 512 x 400 x 1 60 Hz monochrome bit-mapped graphics interface. DIO-system style, Includes 2.4m RCA-M to RCA-M cable. Requires 35731BM monitor, not included. | |
| 98543A | | 512 x 400 x 4 60 Hz color bit-mapped graphics interface. DIO-system style, includes 2.4m BNC to BNC cables. Requires 35741BM monitor, not included. | |
| 98544B | | M: 1024 x 768 x 1 60 Hz monochrome bit-mapped graphics interface. DIO-system style. Includes 2.4m RCA-M to BNC cable. Requires 98778A monitor, not included. | |
| 98546A | | Display compatibility interface. 512 x 400 monochrome alpha graphics board set with cables for Series 200 compatibility. | |
| 98548A | | MH: 1280 x 1024 x 1 60 Hz monochrome bit-mapped graphics interface. DIO-II, Includes 2.4m BNC to BNC cable. Requires 98788A monitor, not included. | |
| 98549A | | C+: 1024 x 768 x 8 60 Hz color bit-mapped graphics interface. DIO-system style, Includes 2.4m BNC to BNC cable. Requires 98753A or 98785A monitor, not included. | |
| 98550A | | CH: 1280 x 1024 x 8 60 Hz color bit-mapped graphics interface. DIO-system style, Includes 2.4m BNC to BNC cable. Requires 98754A or 98789A monitor, not included. | |
| 98556A | | CHX: Accelerator daughter board for 98550A card. | |

Monitors

| Product/ Opt. No. | Component | Description | U.S. List Price |
|----------------------|-----------|--|--------------------|
| 98753A | | 19-inch color monitor, 1024 x 768, 60 Hz, RGB/BNC. Cables not included. | |
| 98754A | | 19-inch color monitor, 1280 x 1024, 60 Hz, RGB/BNC. Cables not included. | |
| 98778A | | 19-inch monochrome monitor, 1024 x 768, 60 Hz, BNC. Cable not included. | |
| 98785A | | 16-inch color monitor, 1024 x 768, 60 Hz, RGB/BNC. Cables not included. | |
| 98789A | | 16-inch color monitor, 1280 x 1024, 60 Hz, RGB/BNC. Cables not included. | |
| D1187A | | 20-inch multi-sync. color monitor. Cable not included. Can be used on 382 ADX. | |
| D1188A | | 16-inch multi-sync. color monitor. Cable not included. Can be used on 382 ADX. | |
| D1194A | | 14-inch color monitor 640 x 480 60Hz VGA. | |
| | | Note: D1184A VGA Extension Cable 1.5m | |

Peripherals, Cables and Terminators

RS 232-C Interface

The cables for a serial connection to the HP 9000 Series 300 system are:

- **HP 24542G** - Primary cable (9-pin F/25-pin M, 3.0 m (9.9 ft.))
- **HP 92215F** - Extension cable (25-pin F/25-pin M, 15.0 m (50 ft.))
- **HP 92215T** - Extension cable (25-pin F/25-pin M, 30.0 m (100 ft.))

Limited to RS 232-C specifications.

HP-Parallel Interface

The cables for a parallel connection to the HP 9000 Series 300 system are:

- **HP 92284A** - Primary cable (36-pin F/25-pin M, 2.13 m (6.6 ft.))
- **HP 17355D** - Extension cable (25-pin F/25-pin M straight-through, 3.0 m (9.9 ft.))

HP-IB Interface

The cables for an HP-IB connection to the HP 9000 Series 300 system are:

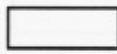
- **HP 10833A** - 1.0 m (3.3 ft.)
- **HP 10833B** - 2.0 m (6.6 ft.)
- **HP 10833C** - 4.0 m (13.2 ft.)
- **HP 10833D** - 0.5 m (1.6 ft.)


| Device/Interface | RS 232-C | HP Parallel | HP-IB |
|---|----------|---------------|---------------|
| LaserJet Series: IID, IIP, III, IIID, and IIISi | 24542G | 92284A | Not Supported |
| PaintJet | 24542G | 92284A | 10833A |
| 2562C, 2563C, 2564C, 2566C, and 2567C Printers | 24542G | Not Supported | 10833A |
| All Pen Plotters except HP7550B | 24542G | Not Supported | 10833A |
| HP 7550B Plotter | 24542H | Not Supported | 10833AA |
| HP 7600 Series 250, 255, 355 Electrostatic Plotters | 24542G | 92284A | 10833A |

Note: Cables for connecting peripherals to Series 300 Systems MUST be ordered separately. Failure to order these parts as needed will result in delivery of unusable peripherals.

SCSI-II CABLING AND TERMINATORS FOR THE SERIES 300

| CONNECTING FROM | TO | | | | | | |
|---|--|--|--|---|---------------------------|--|---|
| | Series 6000 Model 1350SE Mass Stor. Sys. C2217T | Series 6300 Mag optic devices C1700A, C1701A C1704A, C1705A | Series 6400 Model 2000* DDS Standalone C1520A, C1521A | Series 6300 CD-ROM Standalone A1999A | 1/2" Mag Tape 7980S | Series 6000 Model 1350SA, 420SA C2427JK, C2425JK | Model 1350SX Fast Differential Disk Tower C2482A |
| Series 300 Standard SCSI-II Port | Order Thumb Screw Cable : K2296 .9 meter or K2297 1.5 meter | | | Order Terminator: K2291 For last HP peripheral | | | |
| Series 300 EISA Fast SCSI-II Port (Differential) (part # 25525A) | | | | | | Order Cable: K2296 .9 meter K2297 1.5 meter Terminator included with EISA/SCSI II Adapter Card 25525A | |
| Series 6000 Model 1350SE Mass Stor. Sys. C2217T N/C | | | Order Cable: 92222A .5 meter or 92222B 1.0 meter or 92222C 2.0 meter | | | | |
| Series 6300 Magneto optic devices C1700A, C1701A, C1704A, and C1705A | | | Order Terminator: K2291 For last HP peripheral | | | | |
| Series 6400 Model 2000 DAT Standalone C1520A, C1521A | | | | | | | |
| CD-ROM Standalone A1999A | Order Cable: 92222A .5 meter or 92222B 1.0 meter or 92222C 2.0 meter | | | | | | |
| 1/2" Magnetic Tape Drive 7980S | | | Order Terminator: K2291 For last HP peripheral | | | | |
| Series 6000 Model 1350SA, 420SA C2427JK, C2425JK | | | | | | Order Cable: K2296 .9 meter or K2297 1.5 meter Terminator included with EISA/SCSI II Adapter Card 25525A | |
| Model 1350SX Fast (Differential) Disk Tower C2482A | | | | | | | |

 Match intersecting systems and select cable and terminator shown in white space.

 **CONFIGURATION NOT SUPPORTED**
Fast differential SCSI-II will not work with normal (single-ended) SCSI-II.
HP-UX only supports one of each removable disk-type mechanisms per system, two tape-type mechanisms per system.

* Model 2000 and 2000 DC DDS standalone devices include SCSI cable and terminator to attach directly to Series 700 SCSI port. To daisy-chain to another SCSI peripheral, order appropriate cable (92222A/B/C).

Note: Take care not to exceed 7 SCSI-II devices when connecting expansion systems on each SCSI-II Bus. Order only one terminator per chain.

Memory, I/O and Accessories

Cables

| Product/ Opt. No. | Component | Description | U.S. List Price |
|----------------------|--------------------|---|--|
| | Definitions | HDSL - High Density Squeeze Lock, 50 pin HDTS - High Density Thumb Screw, 50 pin LDBL - Low Density Bail Lock, 50 pin LDTS - Low Density Thumb Screw, 50 pin | (M) - Male Connector (F) - Female Connector |
| SCSI | | | |
| K2207 | | SCSI, 0.4m LDTS(M) to LDTS(M) | |
| K2208 | | SCSI, 2.6m LDTS(M) to LDTS(M) | |
| K2209 | | SCSI, 1.5m LDTS(M) to LDTS(M) | |
| K2210 | | SCSI, 0.7m LDTS(M) to LDTS(M) | |
| K2211 | | SCSI, 3.0m LDTS(M) to LDTS(M) | |
| K2283 | | SCSI, 1.5m LDBL(M) to LDTS(M) | |
| K2284 | | SCSI, 0.9m LDBL(M) to LDTS(M) | |
| K2285 | | SCSI, 1.5m LDBL(M) to HDSL(M) | |
| K2286 | | SCSI, 0.9m LDBL(M) to HDSL(M) | |
| K2287 | | SCSI, 1.5m LDTS(M) to HDSL(M) | |
| K2288 | | SCSI, 0.9m LDTS(M) to HDSL(M) | |
| K2289 | | SCSI Terminator, HD | |
| K2290 | | SCSI Terminator, LDTS | |
| K2291 | | SCSI Terminator, LDBL | |
| K2294 | | SCSI, 0.9m LDTS(M) to HDTS(M) | |
| K2295 | | SCSI, 1.5m LDTS(M) to HDTS(M) | |
| K2296 | | SCSI, 0.9m LDBL(M) to HDTS(M) | |
| K2297 | | SCSI, 1.5m LDBL(M) to HDTS(M) | |
| 92222A | | For 345, 375, 380 SCSI, 0.5m LDBL(M) to LDBL(M) | |
| 92222B | | SCSI, 1.0m LDBL(M) to LDBL(M) | |
| 92222C | | SCSI, 2.0m LDBL(M) to LDBL(M) | |
| 92222D | | SCSI, 1.0m LDBL(M) to LDBL(F) extension | |
| HP-IB | | | |
| 10833A | | HP-IB, 1.0m | |
| 10833B | | HP-IB, 2.0m | |
| 10833C | | HP-IB, 4.0m | |
| 10833D | | HP-IB, 0.5m | |
| 10834A | | HP-IB adapter extends HP-IB connector 2.3cm. | |
| 8120-3448 | | HP-IB, 6.0m | |
| 8120-3449 | | HP-IB, 8.0m | |
| RS-232 | | | |
| 17255D | | RS-232C, 1.4m 25M - to - 25F, swapping | |
| 17255F | | RS-232C, 1.4m 25F - to - 25F, swapping | |
| 24542G | | RS-232C, 3.0m 9F - to - 25M, "printer" | |
| 24542H | | RS-232C, 3.0m 9F - to - 25F, For DTE-25M devices | |
| 24542M | | RS-232C, 3.0m 9F - to - 25M, "modem" | |
| 40242C | | RS-232C, 5.0m 25F - to - 25M, straight-thru extension | |
| 40242G | | RS-232C, 5.0m 25M - to - 25M, swapping | |
| 40242M | | RS-232C, 5.0m 25M - to - 25M, straight-thru | |
| 92284A | | Centronics parallel, 2.1m (25M - to - 36M) | |
| D1184A | | VGA Extension Cable for use with D1180A (1.5m) | |

Note: Bail lock and thumb screws are interchangeable on 362/382.

Memory, I/O and Accessories

Human Interface Devices

| Product/ Opt. No. | Component | Description | U.S. List Price |
|--|-----------|--|--------------------|
| Keyboards and Localization Kits | | | |
| A1099A | | Localization Kit (Keyboard) Includes: HP-HIL Keyboard (P/N 46021), HP-HIL 3-button Mouse (P/N 46060B), localized manual set, and appropriate power cord. | |
| A1099B | | Localization Kit for HP-UX Users (includes HP-UX manuals B1864A Opt. OBD). | |
| Must specify one of the following options for P/N A1099A/B: | | | |
| Opt. ABA | | U.S. English Version | |
| Opt. ABC | | Canadian French Version | |
| Opt. ABD | | German Version | |
| Opt. ABE | | European Spanish Version | |
| Opt. ABF | | European French Version | |
| Opt. ABH | | Dutch Version | |
| Opt. ABJ | | Katakana (Japanese) Version | |
| Opt. ABK | | ICON/European ASCII Version | |
| Opt. ABM | | Latin American Version | |
| Opt. ABN | | Norwegian Version | |
| Opt. ABP | | Swiss German Version | |
| Opt. ABQ | | Swiss French Version | |
| Opt. ABS | | Swedish Version | |
| Opt. ABU | | U.K. English Version | |
| Opt. ABW | | Belgian Dutch Version | |
| Opt. ABX | | Finnish Version | |
| Opt. ABY | | Danish Version | |
| Opt. ABZ | | Italian Version | |
| Opt. AP0 | | Kanji (Japanese) Version | |
| Opt. AB0 | | Taiwanese Version | |
| Opt. AB1 | | Korean Version | |
| A2205A* | C1429A | Localization Kit. Includes PC-101 Keyboard (HP-HIL), Mouse, HP-HIL cable and appropriate power cord. Must Specify localization option. Supported only by HP-UX, 8.0 or later. | |
| Must specify one of the following options for P/N A2205A. | | | |
| Opt. ABA | | U.S. English version | |
| Opt. ABD | | German version | |
| Opt. ABF | | French version | |
| Opt. ABP | | Swiss German version | |
| Opt. ABU | | U.K. English version | |
| Opt. ABE | | Spanish version | |
| Opt. ABS | | Swedish version | |
| Opt. ABY | | Danish version | |
| Opt. ABZ | | Italian version | |
| Opt. ABN | | Norwegian version | |
| Opt. ARO | | Kanji (Japanese) version | |
| Opt. ABO | | Taiwanese version | |
| Opt. AB1 | | Korean version | |
| 46021A | | Keyboard - U.S. English Version (order cable separately) | |
| 98203C | | Keyboard with Rotary Knob for BASIC and Pascal systems (U.S. ASCII). | |
| 98203CD | | German, HP-HIL. Cable not included. | |
| 98203CE | | Spanish, HP-HIL. Cable not included. | |
| 98203CF | | French, HP-HIL. Cable not included. | |
| 98203CJ | | Katakana, HP-HIL. Cable not included. | |
| 98203CS | | Swedish, HP-HIL. Cable not included. | |
| 46021AV | | Arabic English | |
| 46021W | | Arabic French | |
| Opt. 2AG | | Must order Option | |

* Note: ONLY German and English versions are localized on A2205A at this time. All other options contain an English keyboard with localized power cord.

Memory, I/O and Accessories

Human Interface Devices (continued)

| Product/ Opt. No. | Component | Description | U.S. List Price |
|--|-----------|--|--------------------|
| Mice | | | |
| K1410 | | 3-button Mouse, Quadrature, 1m cable (requires 46094A). | |
| 46060A | | 2-button Mouse, HP-HIL, 1.5m cable. | |
| 46060B | | 3-button Mouse, HP-HIL, 1.5m cable. | |
| Miscellaneous HP-HIL Devices | | | |
| 46084A | | ID Module, HP-HIL, 0.5m cable. | |
| 46085A | | Control Dial Module, (9 dials), HP-HIL, 0.8-3m coiled cable. | |
| 46066A | | 32-button Box (with 32 user-definable special-function keys and one user programmable LED), HP-HIL, 0.8-3m coiled cable. | |
| Other Relative Pointing Devices | | | |
| M1309A | | Trackball, HP-HIL, 0.4m cable. | |
| 46083A | | Knob Box (single knob), HP-HIL, 0.4m cable. | |
| 46094A | | Quadrature Port (allows devices using Logitech quadrature signals to be connected to HP-HIL interface), 0.4m cable. | |
| Tablets, Digitizers and Absolute Pointing Devices | | | |
| 35723A | | Touchscreen Bezel (for 35741BM 12-inch monitor) | |
| 45911C | | Digitizer - (11-inch x 11-inch, 12 lines per inch resolution.) with stylus and cursor, HP-HIL | |
| 46087C | | Digitizer - ANSI A/ISO A4-size. (Includes tip-switch stylus.), 0.8-3m coiled cable | |
| 46088C | | Digitizer - ANSI B/ISO A3-size (includes tip-switch stylus), 0.8-3m coiled cable | |
| 46090C | | Digitizer - ANSI A/ISO A4-size (includes 4-button cursor with crosshair), 0.8-3m coiled cable | |
| 46091C | | Digitizer - ANSI B/ISO A3-size (includes 4-button cursor with crosshair), 0.8-3m coiled cable | |
| HP-HIL Extensions | | | |
| 46080A | | HP-HIL Extension, 2.4 meter, HP-HIL. No audio or video. | |
| 46081A | | HP-HIL Extension (2.4 meter) with Audio. (No Video) | |
| 46082A | | HP-HIL Extension (15 meter) with Audio and RGB Video. | |
| Opt. 015 | | Delete RGB and Remote. | |
| Opt. 343 | | Delete RGB cables. | |
| 46082B | | HP-HIL Extension (30 meter) with Audio and RGB Video | |

Memory, I/O and Accessories

Disk Drives

| Product/ Opt. No. | Component | Description | U.S. List Price |
|--|-----------|---|--------------------|
| A1999A | | Stand-alone CD-ROM drive. Single-ended SCSI, Low-density Bail-lock connectors. Cable not included. | |
| Series 6300 Magneto-Optic Disks | | | |
| C1701A | | Model 650/A Stand-alone cartridge drive. Single-ended SCSI Low-density bail-lock connectors. Cable not included. | |
| C1707A | | Stand-alone CD-ROM drive. HP-IB. Cable not included. | |
| Series 6000 Mass Storage Subsystems | | | |
| C2212A | | Model 330S Mass storage system Includes 332 Mbyte hard disk in an upgradeable package. Low-density Bail-lock (F) connectors. | |
| Opt. 001 | | Add-on 332 Mbyte hard disk | |
| Opt. 003 | | Add-on 1.3 Gbyte DDS (4 mm DDS) Tape drive | |
| Opt. 004 | | Add-on CD-ROM disk | |
| Opt. 005 | | Add-on 650 Mbyte Magneto-optic disk. | |
| Opt. 024 | | Two Add-on CD-ROM disks | |
| Opt. 303 | | Pre-install HP-UX 7.0 (on 332 Mbyte) | |
| C2213A | | Model 660S Mass Storage Includes 664 Mbyte hard disk in an upgradeable package. Low-density bail-lock (F) connectors. | |
| Opt. 001 | | Add-on 332 Mbyte hard disk | |
| Opt. 002 | | Add-on 664 Mbyte hard disk | |
| Opt. 003 | | Add-on 1.3 Gbyte DDS (4 mm DDS) Tape drive | |
| Opt. 004 | | Add-on CD-ROM disk | |
| Opt. 005 | | Add-on 650 Mbyte Magneto-optic disk. | |
| Opt. 022 | | Two Add-on 664 Mbyte hard disks. | |
| Opt. 024 | | Two Add-on CD-ROM disks | |
| Opt. 306 | | Pre-install HP-UX 7.0 (on 664 Mbyte) | |
| C2214B | | Model 1350S SCSI Mass Storage System Single ended SCSI includes 1355 Mbyte disk. | |
| C2216B | | Model 670SE SCSI Mass Storage System Single ended SCSI includes 677 Mbyte disk. | |
| C2217B | | Model 1350SE SCSI Mass Storage System Single ended SCSI 1355 Mbyte. | |
| C2292T | | 1.3 Gbyte Digital Audiotape Upgrade kit to a 670SE or 1350SE (C2216 or 17) SCSI | |
| C2293T | | 600 Mbyte CD-ROM Drive Upgrade kit to a 670SE or 1350SE (C2216 or 17) SCSI | |
| C2294T | | 650 MByte Rewritable Optical Upgrade kit to a 670SE or 1350SE (C2216 or 17) SCSI. | |
| C2290A | | 332 Mbyte hard disk upgrade for C2212A or C2213A. | |
| C2291A | | 664 Mbyte hard disk upgrade for C2212A or C2213A. | |
| C2292A | | 1.3 Gbyte DDS (4 mm DAT) Tape drive upgrade for C2212A or C2213A. | |
| C2293A | | CD-ROM upgrade for C2212A or C2213A. | |
| C2294A | | Magneto-optic upgrade for C2212A or C2213A. Adds 650 Mbyte Re-writeable optical disk drive. SCSI, internally cabled. | |
| 98433D | | 200 Mbyte hard disk upgrade for Model 345. | |
| HP-IB Disk Drives | | | |
| C2200A | | Model 335H 335 Mbyte HP-IB Disk Drive. Earliest operating system versions required: HP-UX 7.0, RMB 6.0. | |
| C2203A | | Model 670H 670 Mbyte HP-IB Disk Drive. Earliest operating system versions required: HP-UX 7.0, RMB 6.0. | |
| Opt. 1AK | | Delete disk cartridge. | |
| Opt. 231 | | Delete media (all but one cartridge). | |

Memory, I/O and Accessories

Tape Drives

| Product/ Opt.No. | Component | Description | U.S. List Price |
|---------------------|-----------|--|--------------------|
| C1511A | | Series 6400 Model 1300H 1.3 Gbyte DDS (4mm DDS) tape drive. Stand-alone HP-IB. | |
| C1512A | | Series 6400 Model 1300S 1.3 Gbyte DDS (4mm DDS) tape drive. Stand-alone single-ended SCSI, low-density bail-lock connectors. Cable not included. | |
| C1520B | | New HP DAT System Backup Solution DDS-Format SCSI DDS drive providing 2 Gbyte capacity on 90m DDS cassette. | |
| 9144AR | | 1/4-inch 16-track 67 Mbyte cartridge tape drive. HP-IB, cable not included. | |
| 9145AR | | 1/4-inch 32-track 134 Mbyte cartridge tape drive. HP-IB, cable not included. | |

Printers

| Product/ Opt.No. | Component | Description | U.S. List Price |
|---------------------|-----------|---|--------------------|
| C2106A | | DeskJet 500, RS-232C and Parallel. Interface cable not included. | |
| 2225A | | ThinkJet, HP-IB, interface cable not included | |
| 2225D | | ThinkJet, RS-232C, interface cable not included | |
| 2227A | | QuietJet Plus, RS-232C and Parallel. Interface cable not included. | |
| 33449A | | LaserJet-III, 8 pages per minute, RS-232C and Parallel. Interface cable not included. Localized versions (different suffix) not shown. | |
| 33459A | | LaserJet-IIIiD, 8 pages per minute, duplex, dual-tray. RS-232C and Parallel. Interface cable not included. Localized versions | |
| 33481A | | LaserJet-IIIIP, 4 pages per minute. RS-232C and Parallel. Interface cable not included. Localized versions (different suffix) not shown. | |
| 33491A | | LaserJet-IIIiSi, 17 pages per minute, duplex, dual-tray. RS-232C and Parallel. Interface cable not included. Localized versions (different suffix) not shown. | |
| 92203J/K | | HP-IB to Parallel output adaptor. (J) = Domestic (K) = International | |

Graphics Hardcopy Devices

| Product/ Opt. No. | Component | Description | U.S. List Price |
|--------------------------|-----------|---|--------------------|
| PaintJet Printers | | | |
| C1602A | | PaintJet XL A/A4/B/A3-size color ink-jet printer. Must specify interface Option. Interface cable not included. | |
| Opt. 1AX | | RS-232C (DTE-25F) & Centronics Interface | |
| Opt. 1A8 | | HP-IB Interface | |
| 3630A | | PaintJet XL A/A4-size color ink-jet printer. Must specify interface Option. Interface cable not included. | |
| Opt. 001 | | V.24/RS-232C (DTE-25F) Interface | |
| Opt. 002 | | HP-IB Interface | |
| Opt. 004 | | Parallel Interface | |
| Pen Plotters | | | |
| 7440A | | ColorPro A4/A-size 8-pen plotter. Must specify interface Option. Interface cable not included. | |
| Opt. 001 | | V.24/RS-232C (DTE-25F) Interface | |
| Opt. 002 | | HP-IB Interface | |
| 7475A | | A4/A and A3/B-size 6-pen plotter. Must specify interface Option. Interface cable not included. | |
| Opt. 001 | | V.24/RS-232C (DTE-25F) Interface | |
| Opt. 002 | | HP-IB Interface | |
| 7550B | | 7550 Plus A4/A, A3/B-size 8-pen auto-feed plotter. Must specify interface Option. Interface cable not included. | |
| Opt. 005 | | HP-IB and eavesdrop RS-232C (DTE-25M) interface | |
| Opt. 006 | | Parallel non-eavesdrop RS-232C (DTE-25M) interface | |
| C2114A | | DeskJet 500C Printer for IBM compatible, Parallel and Serial Interfaces. | |

Memory, I/O and Accessories

700 Serial Terminals

| Product/ Opt.No. | Component | Description | U.S. List Price |
|--|-----------|--|--------------------|
| 700 Family Serial Terminals Specify (A), (G) or (W) as Product Number suffix () for Amber, Green or White phosphor, respectively. | | | |
| C1001(A, G, W) | | 700/92 alpha-numeric terminal. term0-compatible, with block mode. RS-232C, DTE-25F. Cable not included. | |
| C1002(A, G, W) | | 700/94 alpha-numeric terminal. term0-compatible, with block mode, expanded memory and advanced data-entry features. RS-232C, DTE-25F. Cable not included. | |
| C1006(A, G, W) | | 700/43 alpha-numeric terminal. Not term0-compatible (cannot be system console). HP-UX supports only WYSE-30 emulation. RS-232C, DTE-25F. Cable not included. | |
| C1007(A, G, W) | | 700/44 alpha-numeric PC-terminal. Not term0-compatible (cannot be system console). HP-UX supports only VT-100 emulation. SoftPC supports PC-term mode. RS-232C, DTE-25M. Cable not included. | |
| C1017(A, G, W) | | 700/32 alpha-numeric ANSI terminal. Not term0-compatible (cannot be system console). HP-UX supports only VT-100 emulation. RS-232C, DTE-25M. Cable not included. | |

700/RX Terminals

| Product/ Opt.No. | Component | Description | U.S. List Price |
|------------------------------|-----------|---|--------------------|
| 700/RX Bundled Models | | | |
| C2702B | | Model 19Mi Monochrome X station High performance 90 XStones Includes: 19" 72Hz 1280x1024 mono monitor Model Mi base unit, power cord 4 MB DRAM, 0.25 MB VRAM PS/2 keyboard, PS/2 mouse, cables | |
| Opt 1A2 | | Delete PS/2 keyboard | |
| Opt AN7 | | Delete 2 MB SIMM | |
| Opt W03 | | Convert 1-year return to HP warranty to 90-day onsite | |
| C2705A | | Model 14Ci Medium-Res Color X station Intermediate performance 52 XStones Includes: 14" 1024x768 color monitor 4 MB DRAM, 1 MB VRAM PS/2 keyboard, PS/2 mouse, cables | |
| Opt 1A2 | | Delete PS/2 keyboard | |
| Opt AN7 | | Delete 2 MB SIMM | |
| Opt W03 | | Convert 1-year return to HP warranty to 90-day on-site | |
| C2706A | | Model 16Ci Medium-Res Color X station Intermediate performance 52 XStones Includes: 16" 75Hz 1024x768 color monitor Model Ci base unit, power cord 4 MB DRAM, 1 MB VRAM PS/2 keyboard, PS/2 mouse, cables | |
| Opt 1A2 | | Delete PS/2 keyboard | |
| Opt AN7 | | Delete 2 MB SIMM | |
| Opt W03 | | Convert 1-year return to HP warranty to 90-day onsite | |
| C2710A | | Model 16Ca Medium-Res Color X station Intermediate performance 86 XStones Includes: 16" 75Hz 1024x768 color monitor Model Ca base unit, power cord 4 MB DRAM, 1 MB VRAM PS/2 keyboard, PS/2 mouse, cables | |

Memory, I/O and Accessories

700/RX Terminals (continued)

| Product/ Opt.No. | Component | Description | U.S. List Price |
|--|-----------|--|--------------------|
| Opt 1A2 | | Delete PS/2 keyboard | |
| Opt AN7 | | Delete 2 MB SIMM | |
| Opt W03 | | Convert 1-year return to HP warranty to 90-day onsite | |
| C2711A | | Model 19Ca High-Res Color X station High performance 86 XStones Includes: 19" 72Hz 1280x1024 color monitor Model Ca base unit, power cord 4 MB DRAM, 2 MB VRAM PS/2 keyboard, PS/2 mouse, cables | |
| Opt 1A2 | | Delete PS/2 keyboard | |
| Opt AN7 | | Delete 2 MB SIMM | |
| Opt W03 | | Convert 1-year return to HP warranty to 90-day onsite | |
| Note: All models listed above require a localization option (ie. ABA). | | | |
| 700/RX Base Models | | | |
| C2701B | | Model Mi Monochrome Base Unit Includes: Model Mi base unit, power cord 4 MB DRAM, 0.25 MB VRAM PS/2 keyboard, PS/2 mouse Monitor cable | |
| Opt 1A2 | | Delete PS/2 keyboard | |
| Opt AN7 | | Delete 2MB SIMM | |
| Opt W03 | | Convert 1-year return to HP warranty to 90-day onsite | |
| C2706A | | Model Ci Medium-Res Color Base Unit Includes: Model Ci base unit, power cord 4 MB DRAM, 1 MB VRAM PS/2 keyboard, PS/2 mouse Monitor cable | |
| Opt 1A2 | | Delete PS/2 keyboard | |
| Opt AN7 | | Delete 2MB SIMM | |
| Opt W03 | | Convert 1-year return to HP warranty to 90-day onsite | |
| C2709A | | Model Ca High-Res Color Base Unit Includes: Model Ca case unit, power cord 4MB DRAM, 2MB VRAM PS/2 keyboard, PS/2 mouse Monitor cable | |
| Opt 1A2 | | Delete PS/2 keyboard | |
| Opt AN7 | | Delete 2MB SIMM | |
| Opt W03 | | Convert 1-year return to HP warranty to 90 day on-site | |
| Note: The HP 700/RX base models listed above do not include a monitor. The monitor must be ordered seperately. | | | |
| Note: All models listed require a localization option (ie. ABA) and the X11 server software. Refer to the HP 700/RX January 1992 Technical Data Sheet (5952-2130) for detailed specifications and ordering information. | | | |
| Optional User Memory | | | |
| C2320A | | 1 Mbyte SIMM (DRAM) | |
| C2321A | | 2 Mbyte SIMM (DRAM) | |
| C2322A | | 4 Mbyte SIMM (DRAM) | |
| C2323A | | 8 Mbyte SIMM (DRAM) | |

Memory, I/O and Accessories

700/RX Terminals (continued)

| Product/ Opt.No. | Component | Description | U.S. List Price |
|--|-----------|---|--------------------|
| Configuration Table for Optional Memory Modules (for all modules) | | | |
| 4 Mbytes | | These models come standard with a total of 4MB | |
| 6 Mbytes | | Add 2 MB SIMM P/N C2321A - or - Use Opt AN7 to delete 2MB SIMM and order a 4 MB SIMM P/N C2322A | |
| 10 Mbytes | | Use Opt AN7 to delete 2 MB SIMM and order a 8 MB SIMM P/N C2323A - or - Use Opt AN7 to delete 2 MB SIMM and order (2) 4 MB SIMMs P/N C2322A | |
| 18 Mbytes | | Use Opt AN7 to delete 2 MB SIMM and order (2) 8 MB SIMMs P/N C2323A | |
| <p>Note: All HP 700/RX models come standard with 4 Mbytes of DRAM on the processor board. Any additional memory is customer installable.</p> <p>Note: All HP 700/RX models will need to be installed with a minimum of 4 Mbytes of DRAM to operate with the new B.03 version of the X server software. Therefore, any customers with 700/RX stations with less than 4 Mbytes (ie. 19" monochrome C2701A) will need to order more memory.</p> | | | |

Localization Options

All HP 700/RX models must be ordered with a localization option. The no-charge options and descriptions are identified below.

| | | |
|-----|--|--|
| ABA | N. American keyboard, N. American power cord | |
| ABB | N. American keyboard, European power cord | |
| ABC | French Canadian keyboard, N. American power cord | |
| ABD | German keyboard, European power cord | |
| ABE | Spanish keyboard, European power cord | |
| ABF | French keyboard, European power cord | |
| ABG | N. American keyboard, Australian power cord | |
| ABJ | Japanese keyboard (46021W-ZAL), Japanese power cord | |
| ABN | Norwegian keyboard, European power cord | |
| ABP | German/French keyboard, Swiss power cord | |
| ABS | Swedish/Finnish keyboard, European keyboard | |
| ABU | U.K. English keyboard, U.K. power cord | |
| ABW | Belgian/Flemish keyboard, European power cord | |
| ABY | Danish keyboard, Danish power cord | |
| ABZ | Italian keyboard, European power cord | |
| ABO | Traditional Chinese keyboard (46021W-ZAA), Taiwan power cord | |
| AB1 | Hangul keyboard (46021W-ZAB), Korean power cord | |
| AB4 | N. American keyboard, Singapore/Hong Kong power cord | |
| ACC | N. American keyboard, U.K. power cord | |
| ACD | N. American keyboard, Swiss power cord | |
| ACE | N. American keyboard, Danish power cord | |
| ACF | N. American keyboard (46021A), Japanese power cord | |

Note: Refer technical data sheet (P/N 5952-2130) for more details.

Upgrade Products

| | | |
|--------|---|--|
| C2712A | Monochrome Upgrade Upgrade an HP 700/X terminal XPU (C2302A, C2305A/B) to an HP 700/RX station Model Mi XPU (C2700A) | |
| C2713A | Color Mid-Range Upgrade Upgrade an HP 700/X terminal XPU (C2303A/B, C2304A/B, C2307B) to an HP 700/RX station Model Ci XPU (C2703A) | |
| C2714A | Color High-Performance Upgrade Upgrade an HP 700/X terminal XPU (C2304A/B, C2307B) to an HP 700/RX station Model Ca XPU (C2707A) | |

Software and Documentation Configuration

HP-UX 8.0 License-to-use and Media

Most Series 300 bundles now include an HP-UX 8.0 Run-Time license-to-use. HP-UX software media is not included as part of that Run-Time license, even in bundles which include pre-installed HP-UX code. At least one copy of the HP-UX media is recommended for each work group or diskless cluster. This software can be ordered with the following part numbers:

| Part Number | Description |
|-----------------|--|
| B1861A opt. AA0 | HP-UX 8.0 Installation/Recovery 1/4-inch magnetic tape |
| B2378A opt AAF | HP-UX 8.0 Installation/Recovery CD ROM media. |

HP-UX Run-Time is a robust environment that allows any HP-UX application to run in a standalone or networked environment. Aside from a C compiler, without a debugger or optimizer, the Run-Time product does not include programming tools. There are other HP-UX products, described in the pricing section of this document, that provide capabilities to customize your HP-UX configuration.

HP-UX 8.0 Documentation

Documentation is no longer bundled with the HP-UX license-to-use. HP-UX documentation is available in both CD ROM and hard copy form. Series 300 documentation can be ordered with part number B1864A. There are several options, listed in the pricing section of this document, to customize this documentation.

HP BASIC Documentation

The BASIC products shown include the manual sets listed:

- HP BASIC/WS (98616B) includes Core and HP BASIC/WS manual sets.
- HP BASIC/UX (E2040A) includes Core, HP BASIC/UX and Compiler manual sets.
- HP BASIC/DOS for the Measurement Coprocessor products (82324B and 82300D) include modified Core and HP BASIC/DOS manual sets.
- HP BASIC/WS CSUB Utilities (98616S) includes the CSUB manual set.
- HP BASIC/WS Compiler (98618B) includes the HP BASIC Compiler manual set.

The following table identifies the manuals included in each manual set.

| Part Number | Description |
|----------------------------------|---|
| HP BASIC 6.2 Core Manuals | |
| 98616-90010 | HP BASIC 6.2 Programming Guide |
| 98616-90004 | HP BASIC 6.2 Language Reference |
| 98616-90005 | HP BASIC 6.2 Condensed Reference |
| 98616-90012 | HP BASIC 6.2 Advanced Programming Techniques ** |
| 98616-90013 | HP BASIC 6.2 Interface Reference ** |
| 98616-90014 | HP BASIC 6.2 Porting and Globalization** |

HP BASIC Documentation continued

| Part Number | Description |
|-------------------------------------|---|
| HP BASIC/WS 6.2 Manuals | |
| 98616-90000 | Installing and Maintaining HP BASIC/WS 6.2 |
| 98616-90001 | Using HP BASIC/WS 6.2 |
| HP BASIC/UX 6.2 Manuals | |
| E2040-90002 | Installing and Maintaining HP BASIC/UX 6.2 |
| E2040-90001 | Using HP BASIC/UX 6.2 |
| E2040-90003 | Developing CSUBs for HP BASIC/UX 6.2 |
| HP BASIC/DOS 6.2 Manuals | |
| 82324-90004 | Installing and Using HP BASIC/DOS 6.2 |
| 82324-90005 | Porting Guide for the Measurement Coprocessor |
| 82301-90022 | Integrating HP BASIC with MS-DOS Applications |
| HP BASIC CSUB Utility Manual | |
| 98616-90006 | HP BASIC 6.X CSUB Utility |
| HP BASIC Compiler Manual | |
| 98618-90001 | Compiling HP BASIC 6.2 Programs* |

* Also included with HP BASIC/UX.

** Included with HP BASIC/WS and HP BASIC/UX only.

| Part Number | Description |
|-------------|---|
| 98616-90000 | Installing and Maintaining HP BASIC/WS 6.2 |
| 98616-90001 | Using HP BASIC/WS 6.2 |
| E2040-90002 | Installing and Maintaining HP BASIC/UX 6.2 |
| E2040-90001 | Using HP BASIC/UX 6.2 |
| E2040-90003 | Developing CSUBs for HP BASIC/UX 6.2 |
| 82324-90004 | Installing and Using HP BASIC/DOS 6.2 |
| 82324-90005 | Porting Guide for the Measurement Coprocessor |
| 82301-90022 | Integrating HP BASIC with MS-DOS Applications |
| 98616-90006 | HP BASIC 6.X CSUB Utility |
| 98618-90001 | Compiling HP BASIC 6.2 Programs** |

HP-UX and HP BASIC/UX

HP-UX 8.0 Run-Time Products

| Product/ Opt. No. | Component | Description | U.S. List Price |
|----------------------|-----------|---|--------------------|
| B1861A | | HP-UX Run-Time Environment, 2-user. Includes: HP-UX operating system, HP VUE, NFS, ARPA, Diskless, SAM, and run-time support for: X11, OSF/Motif, Starbase, Starbase Display List, NCS, and NetLS. Note: Software is also available on CD-ROM media B2378A. Complete documentation is available in B1864A. | |
| Opt. AA0 | | Cartridge Tape, 16-track, 1/4-inch. Includes: Installing and Updating HP-UX, and Peripheral Installation Guide. Refer to B1864A for complete system administration and installation documentation. | |
| Opt. UA1 | | License-to-use, 2 user. | |
| B1862A | | HP-UX Run-Time Environment, 32-user. includes: HP-UX operating system, HP VUE, NFS, ARPA, Diskless, SAM, and run-time support for: X11, OSF/Motif, Starbase, Starbase Display List, NCS, and NetLS. Note: Software is also available on CD-ROM media B2378A. Complete documentation is available in B1864A. | |
| Opt. AAU | | CD certificate. Required to access application on CD-ROM media. | |
| Opt. AA0 | | Cartridge tape, 16-track, 1/4-inch. Includes: Installing and Updating HP-UX, and Peripheral Installation Guide. Refer to B1864A for complete system administration and installation documentation. | |

HP-UX 8.0 Programming Products

| Product/ Opt. No. | Component | Description | U.S. List Price |
|----------------------|-----------|--|--------------------|
| B1863A | | HP-UX C/ANSI C Developer's Bundle. Includes: License-to-use for one workstation; C/ANSI C compiler, X11, OSF/Motif, HP VUE, Starbase, Starbase Display List, and General Programming Tools. Note: Software is available on CD-ROM media B2378A. Complete documentation is available in B1864A. | |
| Opt. AAU | | CD certificate. Required to access application on CD-ROM media. | |
| Opt. AA0 | | Cartridge tape, 16-track, 1/4-inch. | |
| B1865A | | HP-UX Developer's Toolkit. Includes: Developer's license-to-use for one workstation; X11, OSF/Motif, HP VUE, Starbase, Starbase Display List, and General Programming Tools. Note: Software is available on CD-ROM media B2378A. Complete documentation is available in B1864A. | |
| Opt. AAU | | CD certificate. Required to access application on CD-ROM media. | |
| Opt. AA0 | | Cartridge tape, 16-track, 1/4-inch. | |
| B2379A | | HP-UX General Programming Tools. Includes: Site license-to-use general programming and version control commands. Note: Software available unprotected on CD-ROM media B2378A. Refer to B1864A for documentation. | |
| Opt. AA0 | | Cartridge tape, 16-track, 1/4-inch. | |

HP-UX and HP BASIC/UX

HP-UX 8.0 Software on CD Media

| Product/ Opt. No. | Component | Description | U.S. List Price |
|----------------------|-----------|--|--------------------|
| B2378A | | HP-UX Software CD Media. Includes:HP-UX 8.x and related software products (as available) on CD-ROM media. Requires HP-UX 8.x license-to-use. | |
| Opt. AAB | | CD Media Kit. Includes:Software on CD-ROM, pre-computed codeword for software products ordered concurrently, and HP-HIL ID Module.Documentation included:Installing and Updating HP-UX, and Installing Peripherals. | |
| Opt. AAF | | CD-ROM Disk Set. Includes:Software on CD-ROM.Does not include HP-HIL ID Module. Documentation included:Installing and Updating HP-UX, and Installing Peripherals. | |

HP-UX 8.0 Documentation

| Product/ Opt. No. | Component | Description | U.S. List Price |
|----------------------|-----------|--|--------------------|
| B1864A | | HP-UX 8.x Documentation.Available on CD-ROM or in hardcopy form. | |
| Opt. OBC | | Documentation on CD-ROM. Includes 1-user license-to-use. | |
| Opt. UA2 | | 4-user Add-on License for CD-ROM Documentation. License-to-use for 4 additional users of CD-ROM documentation access software. | |
| Opt. OBD | | General Usage Guides. (included with A1099B) Hardcopy general user's guides for HP-UX, HP VUE, and X Windows. Note: This set is shipped with each HP-UX workstation. | |
| Opt. OBE | | HP-UX System Administration and Installation Manuals. Hardcopy administration and installation manuals for HP-UX, networking, and HP VUE. | |
| Opt. OBG | | HP-UX User's Guides. Hardcopy manuals for UUUCP, mail, text formatting and processing, shells, and editors. | |
| Opt. OBF | | General Programming Manuals. Hardcopy manuals for assembler, device I/O, native language support, and general HP-UX programming techniques. | |
| Opt. OBT | | C/ANSI C Manuals. Hardcopy manuals for C/ANSI C and symbolic debugger. | |
| Opt. OBJ | | Complimentary hardcopy documentation not yet available on CD. | |
| Opt. OBL | | User Environment. Hardcopy programming manuals for X Toolkit Intrinsics, Xlib, HP VUE, and HP OSF/Motif. | |
| Opt. OBM | | Starbase Manuals. Hardcopy programming manuals for Starbase, Starbase Display List, and Radiosity and Ray Tracing. | |

HP-UX and HP BASIC/UX

HP-UX 8.0 Documentation Option Part Number List

| Product/ Opt. No. | Part Number | Description | CD-ROM |
|---|---|---|--------|
| #OBD | General Usage (one set included with each A1099B Keyboard Kit) | | |
| | B1171-90042 | HP VUE User's Guide | Yes |
| | B1171-90043 | Using the X Window System | Yes |
| | B1862-90000 | A Beginner's Guide to HP-UX | Yes |
| | B2355-90013 | Finding Information (HP-UX) | Yes |
| #OBE | System Administration and Installation | | |
| | 98194-60526 | Installing and Administering LAN | Yes |
| | 98194-60522 | Using Serial Line IP Protocols | Yes |
| | B1012-90012 | Networking Overview | Yes |
| | B1013-90008 | Using NFS Services | Yes |
| | B1013-90009 | Installing and Administering NFS | Yes |
| | B1014-90006 | Using ARPA Services | Yes |
| | B1014-90007 | Installing and Administering ARPA Services | Yes |
| | *B1171-90041 | HP VUE Configuration Guide | Yes |
| | *B1171-90044 | HP VUE System Administration | Yes |
| | *B2355-90000 | Installing and Updating HP-UX (8.0/8.05) | Yes |
| | *B2355-90014 | Installing and Updating HP-UX (8.07) | N/A |
| | B2355-90008 | Master Index (HP-UX) | Yes |
| | B1862-90004 | Error Message Catalog (HP-UX) | Yes |
| | B2355-90005 | How HP-UX Works: Concepts for the System Administrator | Yes |
| | B2355-90009 | Managing Clusters HP 9000 Computers Sharing the HP-UX File System | Yes |
| | *B2355-90006 | Installing Peripherals | Yes |
| | B2355-90003 | System Administration Tasks | Yes |
| | B1862-90009 | HP-UX System Security | Yes |
| | B1862-90010 | Solving HP-UX Problems | Yes |
| | B2355-90015 | Improving performance with Software Disk Striping | Yes |
| | B2355-90004 | HP-UX Reference | Yes |
| | D-11272-B | Managing Software Products with Network License System | N/A |
| | D-11895-C | Managing NCS Software | N/A |
| * Manuals shipped with HP-UX tape products, B2352A, B2355A, and CD-ROM media products, and B2358A/B2826A. | | | |
| #OBG | HP-UX User's Guides | | |
| | B1862-90011 | Remote Access: Kermit, UUCP, vt | Yes |
| | B1862-90012 | Mail System: elm, mailx | Yes |
| | B1862-90013 | Terminal Control: curses, TermO, ITE | Yes |
| | B1862-90014 | Text Formatting :mm, tbl, nroff | Yes |
| | B1862-90015 | Number Processing : bc, bx, dc | Yes |
| | B1862-90016 | Text Processing: awk, ed, sed | Yes |
| | B1862-90017 | Shells: Bourne, C, Korn, Keyshell, PAM | Yes |
| | 97005-90015 | Ultimate Guide to VI and EX Text Editors | Yes |
| #OBT | C/ANSI C Compiler | | |
| | B1864-90005 | HP-UX Symbolic Debugger | Yes |
| | B1864-90009 | C Programming Tools | Yes |
| | 92434-90002 | C Programmer's Guide | Yes |
| | 92453-90024 | C Reference | Yes |
| #OBF | General Programming | | |
| | 92432-90005 | ADB Tutorial | N/A |
| | 98194-60524 | LLA Programmer's Guide | N/A |
| | 98194-60525 | Berkeley IPC Programmer's Guide | N/A |
| | 98194-60527 | NetIPC Programmer's Guide | N/A |
| | B1013-90010 | Programming and Protocols for NFS Services | Yes |
| | B2355-90004 | HP-UX Reference | Yes |
| | B1864-90001 | Posix Conformance Document | Yes |
| | B1864-90002 | Device I/O: DIL, HP-HIL | Yes |
| | B1864-90003 | Native Language Support | Yes |
| | 92432-90001 | HP-UX Assembler and Tools | Yes |
| | B1864-90006 | HP-UX Portability Guide | Yes |
| | B2355-90010 | Programming on HP-UX | Yes |
| | B2355-90016 | Using the Audio Application Programming | Yes |

HP-UX and HP BASIC/UX

HP-UX 8.0 Option Part Number List (continued)

| Product/ Opt. No. | Component | Description | CD-ROM |
|---|-----------|---|--------|
| #OBL | | | |
| User Environment | | | |
| B1171-90024 | | HP VUE User Environment Programmer's | Yes |
| B1171-90026 | | Guide Programming with Xlib | Yes |
| B1171-90027 | | X Toolkit Intrinsic Programming | N/A |
| B1171-90028 | | X Toolkit Intrinsic Reference | N/A |
| B1171-90029 | | X Window System C Quick Reference | Yes |
| 5010-7168 | | Mastering Motif Widgets | Yes |
| B1171-90032 | | HP OSF/Motif Style Guide | Yes |
| B1171-90033 | | HP OSF/Motif Programmer's Reference | Yes |
| B1171-90034 | | HP OSF/Motif Programmer's Guide | Yes |
| #OBM | | | |
| Starbase Programming | | | |
| 98592-90026 | | Starbase Device Drivers Library | Yes |
| 98592-90031 | | Starbase C Pocket Reference | N/A |
| 98592-90041 | | Starbase FORTRAN Pocket Reference | N/A |
| 98592-90048 | | Starbase Beginner's Guide | Yes |
| 98592-90051 | | Starbase Pascal Pocket Reference | N/A |
| 98592-90068 | | Starbase Reference | Yes |
| 98592-90081 | | Starbase Graphics Techniques | N/A |
| 98592-90093 | | HP Fast Alpha/Font Manager Programmer's | Yes |
| 98885-90002 | | Starbase Radiosity and Ray Tracing | Yes |
| B2361-90000 | | Starbase Display List Programmer's | Yes |
| #OBJ | | | |
| CD-ROM Complementary Documentation | | | |
| 98592-90031 | | Starbase C Pocket Reference | N/A |
| 98592-90041 | | Starbase FORTRAN Pocket Reference | N/A |
| 98592-90045 | | Starbase Pascal Pocket Reference | N/A |
| 98592-90081 | | Starbase Graphics Techniques | N/A |
| D-11272-B | | Managing Software Products with Network License System | N/A |
| D-11895-C | | Managing NCS Software | N/A |
| B1171-90027 | | X Toolkit Intrinsic Programming | N/A |
| B1171-90028 | | X Toolkit Intrinsic Reference | N/A |
| B1013-91001 | | Installing and Administering NFS - Addendum for automounter | N/A |
| B2355-90016 | | Using the Audio Application Program Interface | N/A |
| B2370-90000 | | EISA Configuration Utility for HP-UX | Yes |
| 92431-90005 | | HP Pascal/HP-UX Reference | Yes |
| 92431-90006 | | HP Pascal/HP-UX Programmer's Guide | Yes |
| 92431-90007 | | HP Pascal/HP-UX Quick Reference | Yes |

HP-UX and HP BASIC/UX

HP-UX 8.0 Languages

| Product/ Opt. No. | Component | Description | U.S. List Price |
|--|-----------|--|--------------------|
| B2371A Opt. OB1 Opt. AAO Opt. AAU | | License-to-use C/ANSI C. Hardcopy Manuals. 1/4-inch Cartridge Tape Media. CD-ROM Certificate. | |
| B2372A Opt. OB1 Opt. AAO Opt. AAU | | License-to-use FORTRAN 77. Hardcopy Manuals. 1/4-inch Cartridge Tape Media. CD-ROM Certificate. | |
| B2373A Opt. OB1 Opt. AAO Opt. AAU | | License-to-use Pascal. Hardcopy Manuals. 1/4-inch Cartridge Tape Media. CD-ROM Certificate. | |
| B2400A Opt. OAN Opt. OA9 Opt. OAG Opt. OAA | | License-to-use HP C++ 2.1. 1-seat License-to-use. 10-seat License-to-use. 5-seat License-to-use. 50-seat License-to-use. | |
| B2401A Opt. AAO Opt. AAU | | HP C++ 2.1 Media and Manuals. 1/4-inch Cartridge Tape Media. CD-ROM Certificate. | |
| B1694A Opt. OAN Opt. OA9 Opt. OAG Opt. OA | | License-to-use C++ Developer. 1-seat License-to-use. 10-seat License-to-use. 25-seat License-to-use. A50-seat License-to-use. | |
| B1695A Opt. AAO Opt. AAU | | C++ Developer Media and Manuals. 1/4-inch Cartridge Tape Media. CD-ROM Certificate. | |

Windows Software

| Product/ Opt. No. | Component | Description | U.S. List Price |
|--|-----------|---|--------------------|
| B2360A Opt. AAO Opt. AAU Opt. OBJ | | Windows/9000 Window System. Cartridge tape, 16-track, 1/4-inch. CD-ROM Certificate. 1 Hardcopy Manuals. | |

HP-UX and HP BASIC/UX

HP BASIC/UX Language

The HP BASIC/UX Programming Language for Unix. The HP BASIC/UX environment retains the friendliness and high performance instrument control capabilities of

HP BASIC/WS, yet delivers the many significant features found in HP-UX that allow you to develop and execute sophisticated instrument control applications.

HP BASIC/UX Language (for Unix 8.0 Operating System)

| Product/ Opt. No. | Component | Description | U.S. List Price |
|----------------------------------|-----------|---|--------------------|
| E2040L | | HP BASIC/UX 6.2 License to Use on Series 9000/300 running HP UX 8.0 operating system. Does not include Media and Documentation. | |
| Opt. 0CC | | Upgrade from previous version of HP BASIC/UX | |
| E2040A | | HP BASIC/UX 6.2 media/documentation Requires concurrent purchase of E2040L. * <i>Note: Must specify one media option.</i> | |
| Opt. AA0 Opt. AAF Opt. AAH | | Software on 1/4 inch tape CD-ROM media DDS media | |
| E2040K | | HP BASIC/UX 6.2 Documentation Only * <i>Note: Must specify one media option.</i> | |

HP BASIC/UX Language (for Unix 7.X Operating System)

| Product/ Opt. No. | Component | Description | U.S. List Price |
|----------------------|-----------|---|--------------------|
| 98796L | | HP BASIC/UX 5.52 License to Use on Series 9000/300. Supported on Unix 7.X Operating System. | |
| 98796A | | HP BASIC/UX 5.52 Media/Documentation | |
| Opt. 022 | | Software on 1/4 inch tape | |

HP BASIC/UX 5.52 Language Documentation Only

| Product/ Opt. No. | Component | Description | U.S. List Price |
|----------------------|-----------|---|--------------------|
| 98796K | | HP BASIC/UX 5.52 Manual Kit, does not include a license or media. | |

* Includes HP BASIC 6.2 Core manuals, as well as HP BASIC/UX 6.2 Additional Manuals. (see Configuration Advisor section of this document).

HP BASIC/WS 6.2

HP BASIC/WS 6.2

HP BASIC/WS Language Revisions, HP BASIC Plus and Related Products

HP BASIC/WS is a simple and straightforward software development environment that is ideal for automated test and measurement applications. HP BASIC/WS has a powerful command language, a highly optimized program development environment, easy-to-use graph-

ics, exceptional device I/O and high-speed computation. Real and complex math operations support the use of floating point coprocessors. HP BASIC programs can call compiled subprograms for further improvements in speed critical areas.

HP BASIC Language (Revision 6.2)

| Product/ Opt. No. | Component | Description | U.S. List Price |
|---------------------------------------|-----------|--|--------------------|
| 98616L | | HP BASIC/WS 6.2 License to use for HP 9000 Series 200 and 300 computers. Does not include media and documentation. | |
| Opt. 001 | | Upgrade from a previous version of HP BASIC/WS | |
| 98616B | | HP BASIC 6.2 RAM Media and Documentation * for HP 9000 Series 200 and 300 computers. Requires concurrent purchase of 98616L License to use HP BASIC 6.2. | |
| 98616BJ | | Same as 98616B but includes Japanese language binaries and documentation. Customer must order Option 045. | |
| MUST Specify one media option: | | | |
| Opt. 042 | | Software on 5.25-inch media | |
| Opt. 044 | | Software on 3.5-inch single sided media | |
| Opt. 045 | | Software on 3.5-inch double sided media | |
| 98616K | | HP BASIC 6.2 Language System Documentation. * Does not include media, or a license. | |
| 98616KJ | | HP BASIC 6.2 Language System Japanese Documentation. Does not include media, or a license. | |

* Includes HP BASIC 6.2 Core manuals, as well as HP BASIC/WS 6.2 Additional Manuals. (see the Configuration Advisor section of this document).

HP BASIC/WS 6.2

Related Products for HP BASIC 6.X

| Product/ Opt. No. | Component | Description | U.S. List Price |
|----------------------|-----------|--|--------------------|
| 98616S | | HP BASIC/WS Revision 6.X CSUB Utilities for HP 9000 Series 200 and 300 Computers and includes media and documentation. | |
| Opt. 001 | | HP BASIC 6.X CSUB Utilities upgrade from a previous version of HP BASIC CSUB Utilities. | |
| 98618B | | HP BASIC 6.2 Compiler for HP 9000 Series 200 and 300 computers. Include both 5.25- and 3.5-inch media | |
| Opt. 001 | | HP BASIC 6.2 Compiler upgrade from a previous version of HP BASIC Compiler. | |
| 98616D | | DOS file system for HP BASIC/WS 6.2 Includes 3.5-inch Media and documentation. Allows access to DOS formatted disks from HP 9000 Series 200 and 300 computers using HP BASIC/WS 6.2. | |

HP BASIC Plus for HP BASIC 6.2

E2160A HP BASIC Plus license-to-use. HP BASIC Plus is an HP BASIC binary providing human interface graphics commands and Online Help for HP BASIC. Media and documentation must be ordered via the options listed below.

Supported on HP BASIC revision 6.2 or greater. HP BASIC Plus is not supported on the HP 9000 Series 200. HP BASIC Plus requires an additional 700 Kb of RAM; minimum system RAM is 2 Mb.

HP BASIC Plus for HP BASIC 6.2

| Product/ Opt. No. | Component | Description | U.S. List Price |
|----------------------|-----------|---|--------------------|
| | | HP BASIC Plus for HP BASIC 6.2 or greater. | |
| E2160A | | License-to-Use. (1 - 9) License-to-Use. (10 - 24) License-to-Use. (25 - 49) License-to-Use. (50 - 99) License-to-Use. (100 - greater) | |
| E2160AJ | | Same as E2160A only Japanese version. | |
| | | Note: The price listed is the single copy price for the quantity in parenthesis. These prices are not discountable. | |
| Opt. AA8 | | Software on 3.5-inch double sided media and documentation (Option applies to HP BASIC/WS or the Measurement Coprocessor product. Option does not support HP BASIC/UX) | |
| Opt. AA9 | | Software on 5.25-inch DOS format 1.2 Mb media and documentation (Option applies to the Measurement Coprocessor products only. Option does not apply to HP BASIC/UX and HP BASIC/WS) | |
| Opt. AAF | | CD-ROM media and documentation (Option applies to HP BASIC/UX only) | |
| | | Specify only one media option: | |
| Opt. AA0 | | Software on 1/4-inch tape and documentation (Option applies to HP BASIC/UX Only) | |
| Opt. AAH | | DDS media and documentation (Option applies to HP BASIC/UX only) | |

Other HP BASIC/WS Products and Pascal Workstation

HP BASIC Language (Revision 5.13)

| Product/ Opt. No. | Component | Description | U.S. List Price |
|----------------------|-----------|---|--------------------|
| 98616A | | HP BASIC/WS 5.13 License -based Basic for HP 9000 Series 200 and 300 computers. Includes system media and documentation. | |
| | | MUST Specify one media option: | |
| Opt. 042 | | Software on 5.25-inch media | |
| Opt. 044 | | Software on 3.5-inch single-sided media | |
| Opt. 045 | | Software on 3.5-inch double-sided media | |
| | | May Specify this option: | |
| Opt. 618 | | Add HP BASIC/WS 5.X Compiler (Includes 3.5- and 5.25-inch Media/Documentation) | |

HP BASIC Language Compiler (Revision 5.X)

| Product/ Opt. No. | Component | Description | U.S. List Price |
|----------------------|-----------|---|--------------------|
| 98618A | | HP BASIC 5.X Compiler for HP 9000 Series 200 and 300 computers. | |
| | | MUST Specify one media option: | |
| Opt. 042 | | Software on 5.25-inch media | |
| Opt. 044 | | Software on 3.5-inch single-sided media | |
| Opt. 045 | | Software on 3.5-inch double-sided media | |

Pascal 3.2 Language System

| Product/ Opt. No. | Component | Description | U.S. List Price |
|----------------------|-----------|--|--------------------|
| 98617A | | Pascal 3.2 Language System. Includes: System disk set and Pascal 3.2 Manual Kit. | |
| Opt. 001 | | Upgrade from previous version of Pascal Language System. Note: Must specify one of the following media options: | |
| Opt. 042 | | Software on 5.25-inch disk. | |
| Opt. 044 | | Software on 3.5-inch disk, single-sided format on double-sided media. | |
| Opt. 045 | | Software on 3.5-inch disk, double-sided format. | |
| 98617R | | Pascal 3.2 - Right-to-reproduce one copy. (for Resellers) | |
| Opt. 100 | | Delete Manuals. | |
| 98617E | | Pascal 3.2 - Right-to-execute. (for Resellers) | |
| Opt. 090 | | Additional 99 copies of Pascal 3.2 Right-to-execute. | |
| 98617-87901 | | Pascal 3.2 Documentation Kit (order from DMK). | |

Notes:

| BIBLIOTHECA MUSEI HISTORICI (BIBLIOTECA) | | |
|--|--------|--------|
| Numero | Autore | Titolo |
| 1001 | ... | ... |
| 1002 | ... | ... |
| 1003 | ... | ... |
| 1004 | ... | ... |
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| 1006 | ... | ... |
| 1007 | ... | ... |
| 1008 | ... | ... |
| 1009 | ... | ... |
| 1010 | ... | ... |
| 1011 | ... | ... |
| 1012 | ... | ... |
| 1013 | ... | ... |
| 1014 | ... | ... |
| 1015 | ... | ... |
| 1016 | ... | ... |
| 1017 | ... | ... |
| 1018 | ... | ... |
| 1019 | ... | ... |
| 1020 | ... | ... |
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| 1098 | ... | ... |
| 1099 | ... | ... |
| 1100 | ... | ... |

Measurement & Industrial Automation Enabling Software

RTAP/Plus

RTAP/Plus is a unique industrial automation enabler software toolkit that accelerates the development of new systems for time-critical, enterprise-wide applications.

RTAP/Plus is an open system design. And fully compatible with industry standards based on the UNIX operating system, the X window system, TCP/IP networking and OSF/Motif.

RTAP/Plus

| Product/ Opt. No. | Component | Description | U.S. List Price |
|----------------------|-----------|---|--------------------|
| B2770A | | RTAP/Plus for Series 300 Must order if this is a new order Basic Run-Time License | |
| Opt. UAU | | Must order if on on a node : | |
| Opt. 100 | | Data Collection and Processing | |
| | | Order to meet the database point ct. of the Network : | |
| Opt. 208 | | Block of 8K points | |
| Opt. 216 | | Block of 16K points | |
| Opt. 264 | | Block of 64K points | |
| | | Select for device interfaces required : | |
| Opt. 401 | | HP 48000 Series RTU | |
| Opt. 402 | | HP 3852 DAC unit | |
| Opt. 403 | | Allen-Bradley DH Plus | |
| Opt. 404 | | Modicon Modbus | |
| Opt. 405 | | Allen-Bradley Network DTL | |
| Opt. 406 | | Siemens S5 H1 | |
| | | Select if display tools are required : | |
| Opt. 500 | | Display Tools | |
| | | Select if configuration tools required : | |
| Opt. 600 | | Configuration Tools | |
| | | Select if program development required : | |
| Opt. 900 | | Program Development | |
| | | Select Media type: | |
| Opt. AAH | | DDS tape | |
| Opt. AAO | | 1/4 Inch tape | |
| | | Note: The program development option 900 includes a full set of manuals. If additional manuals are required select any combination. | |
| Opt. OBA | | Full Documentation set | |
| Opt. OBF | | Programming Documentation set | |
| Opt. OBL | | User Environment set | |

Measurement & Industrial Automation Enabling Software

HP VEE (Visual engineering environment)

HP VEE is HP's visual engineering environment designed to meet the needs of engineers and scientists who can now develop test software without writing code. From HP VEE you select the objects necessary for your solutions and link them together creating an executable block diagram. With HP VEE, you spend time concentrating on engineering — not programming.

HP VEE is a software platform that includes two separate products: HP VEE-Engine and HP VEE-Test. HP VEE-Engine allows analysis and display of data. This data can be obtained from a file, input from a user, or generated mathematically.

HP VEE-Test is designed for the measurement automation professional. It includes everything provided in

HP VEE-Engine plus visual elements for HP-IB, Serial, and GPIO bus communication (instrument drivers, Direct I/O, Bus I/O Monitor, etc) and the capability to communicate with HP BASIC/UX. Both HP VEE products run under HP-UX revision 7.X or greater and X Windows revision 11.4 or greater.

HP VEE

| Product/ Opt. No. | Component | Description | U.S. List Price |
|---|-----------|---|--------------------|
| E2100A | | HP VEE-Engine (300) License to Use. (1 - 24) License to Use. (25 - 49) License to Use. (50 - 99) License to Use. (100 - greater) | |
| <i>Note: The price listed is the single copy price for the quantity in parenthesis.</i> | | | |
| MUST Specify one media option (for first time orders): | | | |
| Opt. AA0 | | 1/4 inch tape | |
| Opt. AAF | | CD-ROM | |
| Opt. AAH | | DDS | |
| MUST Specify one documentation option (for first time orders): | | | |
| Opt. ABA | | English documentation | |
| Opt. ABD | | German documentation | |
| Opt. ABF | | French documentation | |
| Opt. ABJ | | Japanese documentation | |
| E2110A | | HP VEE-Test (300 DIO) License to Use. (1 - 9) License to Use. (10 - 24) License to Use. (25 - 49) License to Use. (50 - 99) License to Use. (100 - greater) | |
| <i>Note: The price listed is the single copy price for the quantity in parenthesis.</i> | | | |
| MUST Specify one option (for first time orders): | | | |
| Opt. AA0 | | 1/4 inch tape | |
| Opt. AAF | | CD-ROM | |
| Opt. AAH | | DDS | |
| MUST Specify one documentation option (for first time orders): | | | |
| Opt. ABA | | English documentation | |
| Opt. ABD | | German documentation | |
| Opt. ABF | | French documentation | |
| Opt. ABJ | | Japanese documentation | |

Measurement & Industrial Automation Enabling Software

HP VEE (continued)

| Product/ Opt. No. | Component | Description | U.S. List Price |
|---|-----------|---|--------------------|
| May Specify this option for current HP VEE-Engine owners: | | | |
| Opt. 0HF | | Trade-in credit for HP VEE-Engine for the purchase of HP-VEE Test | |
| <p>Note: All 1st time HP VEE-Test orders require: The License product (ie, E2110A); a Media Option (ie, Opt. AA0); and a Documentation Option (ie, Opt. ABA). Of course, repeat orders do not require media or documentation.</p> <p>Note: Both HP VEE products need at least 12 Mb RAM for an X Windows-based system (16 Mb with HP VUE), and 6 Mb disk space for VEE-Engine and 16 Mb for VEE-Test.</p> | | | |
| E2115A | | HP VEE-Test/RunOnly License to Use. (1 - 19) License to Use. (20 - 49) License to Use. (50 - greater) | |
| <p>Note: The price listed is the single copy price for the quantity in parenthesis.</p> <p>MUST Specify one media option (for first time orders):</p> | | | |
| Opt. AA0 | | 1/4-inch tape | |
| Opt. AAH | | DDS | |

HP ITG - Interactive Test Generator

| Product/ Opt. No. | Component | Description | U.S. List Price |
|--|-----------|---|--------------------|
| E2000A | | HP Interactive Test Generator (HP ITG) facilitates HP BASIC test development. ITG is a Mouse-driven interface designed for controlling instruments and automatically generates HP BASIC code. A set of documentation is included. Must also purchase E2001A Instrument Drivers. | |
| MUST Specify one media option: | | | |
| Opt. AA0 | | Software on 1/4-inch tape | |
| Opt. AA6 | | Software on 5.25-inch flexible disks | |
| Opt. AA8 | | Software on 3.5-inch double-sided disk | |
| May Specify this localization option: | | | |
| Opt. ABJ | | Adds Japanese localized documentation | |
| E2001A | | HP Interactive Test Generator (HP ITG) Instrument Drivers for use with HP Interactive Test Generator product number E2000A. | |
| MUST Specify one media option: | | | |
| Opt. AA0 | | Software on 1/4-inch tape | |
| Opt. AA6 | | Software on 5.25-inch flexible disks | |
| Opt. AA8 | | Software on 3.5-inch double-sided disk | |

SICL C-Language Library

| Product/ Opt. No. | Component | Description | U.S. List Price |
|---------------------------------------|-----------|---|--------------------|
| E2092A | | SICL C-Language Application Development Library Media and Documentation for HP 9000 for Series 300 V/360 and V/382 controllers. | |
| MUST Specify one media option: | | | |
| Opt. AAO | | 1/4-in cartridge tape | |
| Opt. AAF | | DDS tape | |
| Opt. AAH | | CD-ROM | |

Measurement & Industrial Automation Enabling Software

HP FTM - Functional Test Manager for HP BASIC

HP 34806G Functional Test Manager (FTM) application software accelerates test development by minimizing the time required to write test software for your manufacturing process. FTM has a flexible framework

in which you fill in forms that are executed in conjunction with HP BASIC subprogram calls; provides test sequencing, instrument control, and it's easy to add application specific code.

HP FTM for HP BASIC

| Product/ Opt. No. | Component | Description | U.S. List Price |
|----------------------|-----------|--|--------------------|
| 34806G | | License-to-use for HP Functional Test manager for HP BASIC. Media and manual s must be ordered seperately. Does not include a seat in the FTM class | |
| | | License-to-use (1-9) | |
| | | License-to-use (10 -24) | |
| | | License-to-use (25 -49) | |
| | | License-to-use (50 - 99) | |
| | | License-to-use (100 and up) | |
| | | Note: The price listed is the single copy price for the quantity in parenthesis. | |
| Opt. AA0 | | 1/4" tape and manual for HP FTM running on HP BASIC/UX. Does not include a seat in the FTM training class. | |
| Opt. AA8 | | LIF format 3.5 inch double-sided disks and manuals for the HP FTM running on HP BASIC/WS and on HP BASIC on the DOS Measurement Coprocessor products. Does not include a seat in the FTM training class. | |
| | | Note: Order FTM training class seperately as 34806G + 24D. | |

SRM/UX — Shared Resource Manager on HP-UX

SRM/UX provides benefits of extended networking capabilities for HP BASIC/WS and Pascal workstations. These capabilities include diskless booting, file and peripheral sharing and the ability for test stations to be integrated within

a standard network. Product includes 1/4-inch tape media and documentation for SRM/UX server software. Up to 255 clients can be supported. Client Software is included with individual clients (i.e. HP BASIC/WS).

SRM/UX

| Product/ Opt. No. | Component | Description | U.S. List Price |
|----------------------|-----------|--|--------------------|
| E2085B | | SRM/UX Shared Resource Manager Server | |
| Opt. AA0 | | 1/4" tape for SRM/UX media and documentation | |
| Opt. AAF | | CD-ROM for SRM/UX media and documentation | |
| Opt. AAH | | DDS tape for SRM/UX media and documentation | |

Software Support

HP 9000 Software Support Program

HP offers you a complete contractual support program designed to provide you with an

appropriate level of support for your software.

HP TeamLine

HP TeamLine software support service provides an assigned HP support consultant to help you maximize the effectiveness of your people, and improve the productivity of your system. Your HP consultant develops an understanding of your

operating environment, applications and business goals. That knowledge is combined with a detailed understanding of HP products to result in effective personal assistance tailored to your specific environment.

What HP TeamLine Includes:

- Account-assigned support consultant
- Personalized technical assistance and services
- Access to HP technical specialists
- Proactive support planning
- Added services for HP application software
- All the features of HP ResponseLine

HP ResponseLine

HP ResponseLine provides you with access to the HP Response Centers which are available with rapid problem solving assistance. This enables you to

call the HP Response Center with questions related to your operating system and software applications.

What HP ResponseLine Includes

- Access to the HP Response Centers for fault isolation and problem solving assistance
- Guaranteed two hour call return
- Electronic access to product and support information
- Electronic access to software patches
- All the features of HP BasicLine

Software Support

HP BasicLine

HP BasicLine provides on-line access to a database of current, comprehensive support information along with detailed descriptions of problems and recommended solutions. This service also includes the right

to use updates for all licensed software on a single system. This allows you to install and use updates as they become available, ensuring that your software and documentation are kept current.

What HP BasicLine Includes

- Right-to-use software updates for licensed software products
- On-line access to comprehensive problem solving information
- On-line access to training schedules, product and support news

HP Update Materials

This service provides software and documentation updates for your operating system and applications. It also includes

Software Status Bulletins and the HP Communicator as they become available.

HP Software Support Services

| | TeamLine | ResponseLine | BasicLine | OS Materials | Appl Materials |
|---|----------------|----------------|----------------|-----------------|----------------|
| Processor User Option | H2010A +T00 | H2011B +H00 | H2012A +L00 | H2069A +S00* | H2014A +S00 |
| 0N1 Software Dev | | | | | |
| 0N2 300/400:2 (8.0) | | | | | |
| 0N3 300/400:32 (8.0) | | | | | |
| 0JG 300/400 Discless 8.0 | | | | | |
| * HP Operating System Updates with CD-ROM Documentation | | | | | |
| Application Support Option | | | | | |
| 0F8 PC Support 64, 512 users | | | | | |
| 0LG PC Support 8, 32 users | | | | | |
| 0F9 ME Support | | | | | |
| 0FC EE Support (A) | | | | | |
| 0FD EE Support (B) | | | | | |
| 0FF Factory Auto | | | | | |
| 0L6 Case Tools | | | | | |
| 0L7 OpenView End user support | | | | | |
| All prices indicate monthly maintenance prices | | | | | |

T&M (MSD) Software Support Products - Instructions - February 1992

Products:

| | |
|------|---|
| +H00 | T&M Response Center Support Contract |
| +U00 | LTU - License To Use Software Materials |
| +UA6 | Software Updates on 5" Floppy Disk |
| +UA7 | Software Updates on 3.5" -Single Sided Floppy |
| +UA8 | Software Updates on 3.5" Double-Sided Floppy |
| +UAC | Software Updates on 1/4" Cartridge Tape |
| +UAF | Software Updates on CD-ROM |
| +UAH | Software updates on DAT Tape |
| +P00 | Additional Response Center Caller |

Specifying Quantity (Units) and Contract Length

In the box for the required service enter the number of support contracts (units, copies, licenses, etc.) required.

At the top of the worksheet enter the term of contract - usually 12 Months. Order Processing will then multiply the units (contracts) X the term to obtain total months.

For 5 BASIC/WS LTU (+U00) contracts each 1 year long enter a '5' in the 98616B box under the U00 column.

Legend:

| | |
|-------|---|
| incl. | This service is included in the above product |
| n/a | SW Updates not available in this media size |
| ## | US Contract Price - per month |

Ordering Instructions:

Support Products are specified by adding the T&M base product + the support suffix (+H00, +UAC, etc.).

E2040A +UAC = BASIC/UX on 1/4" Tape, incl. LTU

Note that the entire product no. INCLUDING localization option (ie. #ABA) must be specified.

E2100A #ABA +H00 = T&M Resp Ctr for VEE Family

Rev. 3/16/92

Term Of Contract (Months) =

| | |
|----------------|--------------------------|
| FE Name: | Company Name: |
| T&M SEDM | Address 1: |
| Quote Number | Address 2: |
| Quote Revision | City, State ZIP: |
| Sales Order # | Caller #1: |
| | Caller #2: |
| | Requested System Handle: |

| Family A. BASIC Language Workstation | | RCS | 5" | 3"s | 3"d | LTU | Notes: |
|--------------------------------------|--------|-------|-----|-----|-----|-----|--|
| | | H00 | UA6 | UA7 | UA8 | U00 | |
| BASIC Workstation | 98616B | | | | | | 1. Response Center Support - 98616B+H00 includes phone-in support for ALL Basic Workstation products. 2. DFS Binary from SSS Co. is not available on software support. Updates must be purchased from SSS. 3. BASIC+ for workstation must be ordered on floppy disk. Cart. Tape contains BASIC+ for BASIC/UX only. |
| BASIC+ | E2160A | incl. | | n/a | | | |
| Compiler | 98618B | incl. | | | | | |
| CSUB Util | 98616S | incl. | | | | | |
| DFS Binary | 98616D | incl. | n/a | n/a | n/a | n/a | |

| Family B. BASIC/UX | | RCS | Tape | DAT | CD | LTU | Notes: |
|--------------------|--------|-------|------|-----|-----|-----|--------|
| | | H00 | UAC | UAH | UAF | U00 | |
| BASIC/UX | E2040A | | | | | | |
| BASIC+ | E2160A | incl. | | n/a | | | |

| Family C. ITG | | RCS | 5" | 3"d | Tape | LTU | Notes: |
|---------------|--------|-------|-------|-------|-------|-------|---|
| | | H00 | UA6 | UA8 | UAC | U00 | |
| ITG | E2000A | | | | | | 1. Single-sided media for ITG has been obsoleted due to the large number of disks required. |
| ITG Drivers | E2001A | incl. | incl. | incl. | incl. | incl. | |

| Family D. SRM/UX | | RCS | Tape | DAT | CD | LTU | Notes: |
|------------------|--------|-----|------|-----|-----|-----|--------|
| | | H00 | UAC | UAH | UAF | U00 | |
| SRM/UX | E2085B | | | | | | |

| Family E. VEE-Engine | | RCS | Tape | DAT | CD | LTU | Notes: |
|----------------------|--------|-------|------|-----|-----|-----|---|
| | | H00 | UAC | UAH | UAF | U00 | |
| VEE-Engine (S/300) | E2100A | | | | | | 1. Support Services MUST be specified using the VEE localization option: ie. E2100A #ABA +H00 |
| VEE-Engine (S/700) | E2101A | incl. | n/a | | | | |

| Family F. VEE-Test | | RCS | Tape | DAT | CD | LTU | Notes: |
|--------------------|--------|-------|------|-----|-----|-----|--|
| | | H00 | UAC | UAH | UAF | U00 | |
| VEE-Test (S/300) | E2110A | | | | | | 1. Phone support for VEE-Run Only must be ordered as E2110A+H00 to receive Family-F support. 2. Remember to specify localization option: (ie. #ABA) 2. VEE-RunOnly is on Cart. and DAT TAPE ONLY. |
| VEE-Test (S/700) | E2111A | incl. | n/a | | | | |
| VEE-Run Only | E2115A | incl. | | | n/a | | |

| Family G. Functional Test Manager | | RCS | 5" | 3"d | Tape | LTU | Notes: |
|-----------------------------------|--------|-----|-----|-----|------|-----|--------|
| | | H00 | UA6 | UA8 | UAC | U00 | |
| FTM | 34806G | | n/a | | | | |

| Family H. SICL | | RCS | Tape | DAT | CD | LTU | Notes: |
|-------------------------------------|--------|-----|------|-----|-----|-------|---|
| | | H00 | UAC | UAH | UAF | U00 | |
| Standard Instrument Control Library | | | | | | | The SICL product includes its own implied License To Use (LTU) and can be freely copied by the customer - therefore the LTU (+U00) product is stated as "incl." |
| SICL /300 | E2091A | | | | | incl. | |
| SICL /700 | E2091A | | n/a | | | incl. | |

A. Response Center Support (+H00) DOES NOT include software updates. These must be ordered as a second item +UAx, or U00.
 B. Enter all quantities as units, and indicate contract length (12 Mos.) at top of worksheet.

HP-UX Software Support Quote Worksheet

Company Name: _____
 Mailing Address 1: _____
 Mailing Address 2: _____
 City, State, ZIP Code: _____
 Caller No. 1:(Name/Phone) _____
 Caller No. 2:(Name/Phone) _____
 Requested System Handle: _____

FE Name: _____
 T&M SEDM: _____
 Original Quote Number: _____
 Quote Revision: _____
 Sales Order Number: _____

| Step 1. Select Level Of Support | Enter Length of Contract in Months | | |
|--|------------------------------------|----------------------|----------------------|
| | Qty | X Mos. = | Total |
| BasicLine (License. To Copy Update SW) ResponseLine - North America | H2012A+L00 H2011B+H00 | <input type="text"/> | <input type="text"/> |
| ResponseLine - Europe and ICON. | H2011A+H00 | <input type="text"/> | <input type="text"/> |

Notes:
 Qty. = # of Workstations or Diskless Nodes. Mos. = Term of Contract.
 1. Enter Qty.of workstations requiring BasicLine (Lic. To Copy) support.
 2. Enter Qty. of Response Center contracts desired. (Usually 1)
 3. Select US/Canada, OR Europe/ICON, NOT BOTH.
 4. Multiply Qty (Workstations) X Mos. (Term) and enter Total Months.

| Step 2. Select Operating System | Check (X) one OS Option ONLY | |
|---------------------------------------|------------------------------|--|
| B2352A HP-UX Runtime - 2 User | #CNA | <input type="checkbox"/> \ Required - |
| B2353A HP-UX Runtime - 8 User | #ONB | <input type="checkbox"/> / Select 1 Only |
| C Developer's Response Center Support | #ONI | <input type="checkbox"/> Optional |

Notes:
 1. ALL Workstations must be either 2-user or 8-user hp-ux do not mix.
 Use a second quote worksheet if required.
 2. If C Program development phone support is required also,
 Check box for #ONI also. Language SW Media is ordered in
 step 5.

| Step 3. HP-UX Update Media Option | Check (X) for media option | |
|---|----------------------------|--|
| H2069A Includes Manuals on CD-ROM. | | |
| SW on CD-ROM (also) | H2069A+S00 | #AAF <input type="checkbox"/> \ Select 1 |
| SW on 1/4" Cartridge Tape | H2069A+S00 | #AA0 <input type="checkbox"/> / Only |

Notes:
 1. H2069A - includes Install Instructions AND complete HP-UX Manuals on CD-ROM.
 #AAF = Complete CD-ROM System - SW and Manuals
 #AA0 = SW on 1/4" Tape, and Manuals on CD-ROM
 2. For Paper Manual Sets order B2355A in Step 4.

Step 4. Paper Manual Sets For HP-UX **Check (X) manual sets required**

B2355A+Q00

| | | |
|-----------------------|------|--------------------------|
| General Usage | #OBD | <input type="checkbox"/> |
| System Administration | #OBE | <input type="checkbox"/> |
| General Programming | #OBF | <input type="checkbox"/> |
| User's Guide | #OBG | <input type="checkbox"/> |
| User Environment | #OBL | <input type="checkbox"/> |
| Starbase Programming | #OBM | <input type="checkbox"/> |
| C/ANSI C Programming | #OBT | <input type="checkbox"/> |

Select Any

Notes:

1. Check top box (B2355A+Q00) if ANY manuals are ordered.
2. Select any or all of the manual sets.
3. Paper manuals only. Manuals on CD-ROM are included in Step 3. H2069A.
4. Select C Programming (#OBT) if C Programmer support is required.

Step 5. HP-UX Language and Application Updates **Check (X) all SW required**

H2014A+S00

- B2413A C/ANSI C Compiler
- B2356A SW Developer's Toolkit
- B2402A C++ Compiler
- B2406A C++ Developer's Kit

| | | | | | | | | | |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|

Select Any -
Sum total of SW
Products at
bottom.

Total Of Software Products = X 12 Mos. =

X \$5/Mo. = Tot.

If CD-ROM Media is being ordered in step 3 enter # of SW products for \$5/Mo./SW media credit.

- If your customer bought the B1863A C Developer Bundle then BOTH components of that bundle - Compiler (B2371A), and Toolkit (B1865A) must be selected.

Notes:

1. Language updates are ordered here, and are not included on hp-ux updates.
2. SW Programmer Phone Support is ordered in Step 2, Option #ONI.
3. If any sw applications are supported check the top box -H2014A.
4. Check off (X) any programming products that require sw updates.
5. If the C Developer's bundle (B2354A) is being supported check off both individual boxes for that bundle - B2413A, and B2356A.
6. Sum the total of SW products in the bottom box, and multiply X the number of months of contract. (A 12 Month contract is used here)
7. If SW updates are to be received on CD-ROM media (Step 3) then enter total number of SW products in the #AAF option box for a \$-5 media Total media credit is \$5/Mo. X Number of SW Products

Step 6. HP-UX Customer Education Classes

| | | |
|--------|---|--------------------------|
| 51489S | User Training for beginners - I | <input type="checkbox"/> |
| H2572S | User Training for beginners - II | <input type="checkbox"/> |
| 51434S | HP-UX Fundamentals for Sys. Admin. | <input type="checkbox"/> |
| 51436S | System Administration | <input type="checkbox"/> |
| H2564A | Network Administration | <input type="checkbox"/> |
| H2550A | Network Administration (incl. Diskless) | <input type="checkbox"/> |

Select I and II, or
Fundamentals

Either require
Sys Admin

Notes:

1. These are a subset of all hp-ux courses. See the Customer Education catalog for full descriptions and listings.
2. BASICS I and II are for beginners to computing. Fundamentals are for experienced users from non-hpux systems.
3. System Admin, and pre-requisite user courses ARE required for customer to qualify as a Response Center caller.



Rack Mounting Equipment

362, 382 Rackmounting

| Product/ Opt. No. | Component | Description | U.S. List Price |
|----------------------|-----------|---|--------------------|
| 5062-3974 | | Rack-mounting flange kit for Series 362/382 Controllers or 362/382 DIO and DIO-II expanders. Contains two metal flanges and mounting screws. | |
| 5062-3975 | | Rack-mounting flange kit with handles for Series 362/382 Controllers or 362/382 DIO and DIO-II expanders. Contains two metal flanges, two handles, and mounting screws. | |
| E3663A | | Stationary rails recommended for E366x racks | |
| 35199B | | Monitor/14" VGA Rackmount Kit for use with the D1182A monitor (also requires the 12679C Rail Kit) | |
| E3901A | | Rack Kit for D1194A 14" VGA Display | |
| 12679C | | Rail Kit for use with the 35199B Rackmount Kit | |
| E3902A | | Monitor/16" Rackmount Kit for use with the 382 16" monitor (no rails required) | |
| 12131A | | Keyboard/Retractable Rackmount with lock | |
| E3900A | | Keyboard/fixed keyboard Rackmount | |

R/362, R/382, R/382U AND R/332 Flange Kits

| Product/ Opt. No. | Component | Description | U.S. List Price |
|----------------------|-----------|---|--------------------|
| A1309A | | Rack-mounting flange kit for Series R/332, R/362, R/382 and R/382U Controllers. Contains two metal flanges and mounting screws. | |
| E3663A | | Stationary rails recommended for E366x racks | |
| 12679B | | Stationary rails recommended for non-E366x racks | |
| 1494-0059 | | Standard slide kit | |
| 1494-0063 | | Standard tilting slide kit | |

332/380 Rackmounting

| Product/ Opt. No. | Component | Description | U.S. List Price |
|----------------------|-----------|---|--------------------|
| 98569A | | SPU Rackmount Kit for 332 and 380 Controllers with or without 1 expander. | |
| 12131A | | Keyboard/Retractable Rackmount with lock | |
| E3900A | | Low cost keyboard Rackmount | |
| E3903A | | Monitor/16" Rackmount Kit for 98785A | |

Rack Mounting Equipment

New 19" EIA Racks

These new EIA 19" racks have been developed specifically for Hewlett-Packard Test and Measurement and Industrial

Automation applications. These racks offer easier configuration and assembly than previous rack products.

New 19" EIA Racks

| Product/ Opt. No. | Component | Description | U.S. List Price |
|----------------------|-----------|--------------------------------------|--------------------|
| E3660A | | 1100mm Rack, vented door, solid top | |
| E3661A | | 1600mm Rack, vented door, vented top | |
| E3662A | | 2000mm Rack, vented door, vented top | |

Common options for Racks

| Product/ Opt. No. | Component | Description | U.S. List Price |
|----------------------|-----------|---|--------------------|
| Opt. ABA | | *US English Localization Option *required with PDU option | |
| Opt. ABB | | *European English Localization Option *required with PDU option | |
| Opt. OE3 | | *220/240V* Substitutes 220V IEC-320 outlets and 220V fan for US Rack | |
| Opt. 1FA | | *Rack Cabinet Fan* Adds 200CFM top mounted extractor fan. Must also order PDU option (& localization option). Also provided vented top cap instead of solid top cap on the E3660A 1100mm Rack. | |
| | | *PDU* Adds 10 outlet 16 Amp. PDU with front panel switch. Required localization option be specified. In USA - 115V PDU with NEMA outlets supplied. (except with Option OE3) In Europe - 220V PDU with IEC-320 outlets supplied. Up to two of this option can be specified for total of 32 Amps, 20 outlets. | |
| Opt. 1FC | | Add front door | |
| Opt. 1FD | | *Rack Tie Together Kit* Deletes both side panels, adds tie together kit. | |

19" Rack Accessories

| Product/ Opt. No. | Component | Description | U.S. List Price |
|----------------------|-----------|--|--------------------|
| E3666A | | 19" plain shelf | |
| E3900A | | Low cost keyboard Rackmount | |
| E3902A | | Monitor/16" VGA Rackmount Kit (for use with the 382 16" Monitor - no rails required) | |
| E3903A | | Monitor/16" Rack Mount Kit for use with the 98785A | |
| E3663A | | Stationary rails | |
| E3668A | | Feed through panel blank | |
| E3669A | | Feed through panel BNC (six connector) | |
| 46298M | | Drawer, 5.25" high | |
| 46298N | | Worksurface, adjustable | |
| E3667A | | 500 CFM rack-mountable intake fan. | |
| E3901A | | 14" VGA rackmount kit for D1194A 14" VGA Display | |

Previous Rack Cabinets

| Product/ Opt. No. | Component | Description | U.S. List Price |
|----------------------|-----------|--|--------------------|
| 92211L | | Taboret Cabinet Rack for Series 300 and 325mm-wide peripherals | |
| 92211M | | Small Taboret Cabinet Rack for Series 300 and 325mm-wide peripherals | |
| 92211R | | HP Design Plus Mobile Mini-rack for 325mm-wide peripherals | |

For more information on the new 19" Hewlett-Packard Racks and Rackmount Accessories, ask for part number 5091-0896E

Training Products

Training Classes

| Product/ Opt. No. | Component | Description | U.S. List Price |
|----------------------|-----------|--|--------------------|
| HP 50011C | | <p>HP-IB Instrument Programming Using Series 200/300 HP BASIC Audience: System engineers and programmers performing measurement and control task. Objective: Learn to use HP 9000 Series 200 and Series 300 controllers and the HP BASIC programming language to operate an HP-IB instrument. Understand computer interface concepts and applications. Run subprograms. Practice using programming and debugging tools. Understand unified and buffered input/output. Understand interrupt concepts and applications. Prerequisites: HP 98501B and HP 98510D or equivalent knowledge Length: 4 days</p> | |
| HP 98880B | | <p>HP BASIC/UX Programming and Operating Course Audience: Experienced HP BASIC programmers Objective: Learn multi-tasking and windowing techniques and how to use HP-UX operating system utilities. Understand mass storage, input and output and graphics techniques, and CSUBS and the compiler. Learn X Window System concepts and multi-tasking techniques. Practice HP-UX escape, customization and administration. Prerequisites: Courses HP 98501B and HP 98510E or course HP 51489B or HP51434B Length: 3 days</p> | |
| HP 98510D | | <p>HP 9000 Series 200/300 BASIC Operating and Advanced Programming Audience: Experienced programmers Objective: Learn data types and representation. Use mass storage, files, and management tools. Understand input/output concepts. Write graphics programs. Prerequisites: Course HP 98501B or equivalent HP 9000 Series 200 or 300 BASIC programming experience. Length: 5 days For registration and information call: US-1-800-472-5277 Canada (416-678-9430)</p> | |
| HP E2100A+24D | | <p>Introduction to HP-VEE-Engine Audience: Scientist and engineers Objective: Learn to create models efficiently using the HP Visual Engineering Environment. Understand the fundamentals of HP VEE and HP VEE devices. Understand application development and interprocess communications with HP VEE. Prerequisites: Programming expertise Length: 3 days</p> | |
| HP E2110A+24D | | <p>Introduction to HP-VEE-Test Audience: Scientist and engineers Objective: Understand the fundamentals of HP VEE and HP VEE devices. Understand application development and interprocess communication with HP VEE. Practice instrument control. Prerequisites: Programming expertise Length: 5 days</p> | |
| HP 34806G+24D | | <p>Developing Test Plans Using FTM/300 Audience: Test engineers, test technicians, and original equipment manufacturers who develop electronics manufacturing test software Objective: Learn to develop, assemble, and debug a test plan. Practice optimizing test plan execution. Understand process analysis, statistical quality control and data communications. Prerequisites: Courses HP 98510D and HP 50011C or equivalent knowledge Length: 3 days</p> | |
| HP 82302A | | <p>Self-Study Using HP BASIC for Instrument Control Audience: Application programmers, technicians and engineers Objective: Practice handling numbers, strings, and arrays. Write branches, subroutines, and subprograms. Understand addressing and controlling instruments and displaying data with graphics. Prerequisites: General understanding of computers and instruments Length: 55 hrs. For self paced courses call 1-800-538-8787 in the US 1-800-387-3154 in Canada (Toronto, call 671-8383)</p> | |

Training Products

Training Classes (continued)

| Product/ Opt. No. | Component | Description | U.S. List Price |
|----------------------|-----------|--|--------------------|
| HP 51434S | | <p>Fundamentals of the UNIX System Audience: System administrators and software developers Objective: Receive in-depth coverage of the UNIX operating system and learn fundamentals of shell programming in a course based upon AT&T UNIX System V and selected U.C. Berkeley 4.3 BSD extensions. Receive additional information that is specific to the HP-UX operating system. Prerequisites: Basic computer knowledge and programming experience. Length: 5 days</p> | |
| HP 51489S | | <p>UNIX System Basics I Audience: Application users, and system administrators in a run-time-only environment. Objective: Learn the basics of the UNIX system in preparation for using an application or administratering a run-time-only environment. This 2-day course is conveniently scheduled before HP-UX System Administration Basics (HP 50722S) to minimize your travel time and costs. Prerequisites: None. Length: 2 days.</p> | |
| HP H2572S | | <p>UNIX System Basics II Audience: Software developers Objective: Expand your UNIX system knowledge with part two of our basics training series. This course plus UNIX System Basics I (HP 51489S) prepares you for our entire curriculum of system administration and software development courses. Prerequisites: UNIX System Basic I (HP 51489S); programming experience recommended. Length: 3 days.</p> | |
| HP 51436S | | <p>HP-UX Workstation Administration for the HP 9000 Series 300/400/700 Audience: System administrators. Objective: Expand what you learned in Fundamentals of the UNIX System (HP 51434S) in order to successfully administer an HP 9000 workstation in an interactive, hands-on environment. This intensive 5-day course also qualifies you to become an authorized HP Response Center caller. Prerequisites: Fundamentals of the UNIX System (HP 51434S), or UNIX System Basics I (HP 51489S) and UNIX System Basics II (HP H2572S) Length: 5 days.</p> | |

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